NOTE TO Well File

Blue Bench 13-1 well
API 4301330971
NENE-S13-T3S-R5W
Duchesne County

This file contains records of the Utah Division of Oil, Gas and Mining.
It is currently located in M:\OGIMAGES\013\4301330971.pdf

For a time, this well was permitted as a Class V injection well by the Utah Division of Water Quality.
A scanned copy of Water Quality's file for this well is currently located in N:\WellFile_4301330971_BlueBench_13-1_well.

DTS
3/31/2015

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ____ ELECTRIC LOGS ✓ X WATER SANDS ____ LOCATION INSPECTED ____ SUB. REPORT/abd. ____

Change of Operator Eff 10-25-89 950302 fr GENESIS to J&R Eff 1-17-9
910327 Gavilan Petro. to Genesis Prod. Eff. 3-22-91 950705 fr J&R to UINTA Eff 6-1-95
920113 Well Name Change From (Paiute-Walker #13-ND-1)
Commenced Injection Eff. 1-7-92
3-26-92 REC'D MUD LOG

DATE FILED 6-29-84
LAND: FEE & PATENTED X STATE LEASE NO. PUBLIC LEASE NO. INDIAN
DRILLING APPROVED: 7-3-84 - OIL/GAS (CAUSE NO. 139-8)
SPUDDED IN: 7-13-84
COMPLETED: 10-16-91 WDW PUT TO PRODUCING:
INITIAL PRODUCTION:
GRAVITY A.P.I.
GOR:
PRODUCING ZONES: 4106-7528 (GREEN RIVER)
TOTAL DEPTH: 9234'
WELL ELEVATION: 5898.6 GR
DATE ABANDONED:
FIELD: ALTAMONT
UNIT:
COUNTY: DUCHESNE
WELL NO. BLUE BENCH #13-1 API NO 43-013-30971
LOCATION 820' FNL FT. FROM (N) (S) LINE, 932' FEL FT. FROM (E) (W) LINE. NE NE 1/4 – 1/4 SEC. 13

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
3S	5W	13	Enviro-Tech / Coconino ~~UINTA Oil & GAS~~				

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: A WELL LOG ____ ELECTRIC LOGS ____ FILE X WATER SANDS ____ LOCATION INSPECTED ____ SUB. REPORT/abd. ____

10/25/89 ~~891031~~ Chg of opr 910327 Gavilan Petro. to Genesis Prod. eff. 3-22-91.
920113 Well name change
Commenced Injection 1-7-92

DATE FILED 6-29-84
LAND: FEE & PATENTED X STATE LEASE NO. PUBLIC LEASE NO. INDIAN
DRILLING APPROVED: 7-3-84 - OIL/GAS (CAUSE NO. 139-8)
SPUDDED IN: 7-13-84
COMPLETED: 10-16-91 WDW PUT TO PRODUCING:
INITIAL PRODUCTION:
GRAVITY A.P.I.
GOR:
PRODUCING ZONES: 4106-7528 (Green River)
TOTAL DEPTH: 9234'
WELL ELEVATION: 5898.6 GR
DATE ABANDONED:
FIELD: ALTAMONT
UNIT:
COUNTY: DUCHESNE
WELL NO. ~~PAIUTE-WALKER #13-ND-1~~ Blue Bench #13-1 API #43-013-30971
LOCATION 820' FNL FT. FROM (N) (S) LINE, 932' FEL FT. FROM (E) (W) LINE. NENE 1/4 – 1/4 SEC. 13

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
			~~Gavilan Petroleum~~				

Form 05C-1a

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN [redacted]LICATE*
(Other instructions on reverse side)

5. Lease Designation and Serial No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

6. If Indian, Allottee or Tribe Name: Fee

1a. Type of Work: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

7. Unit Agreement Name:

b. Type of Well: Oil Well [X] Gas Well [X] Other — Single Zone [ ] Multiple Zone [ ]

8. Farm or Lease Name: Paiute-Walker

2. Name of Operator: Paiute Oil and Mining Corporation

9. Well No.: 13-ND-1

3. Address of Operator: 1901 Prospector Square - Box 1329 Park City, Utah 84060

10. Field and Pool, or Wildcat: ~~Duchesne~~ Altamont

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: 820' FNL 932' FEL Sec. 13, T 3 S, R 5 W, U.S.B. & M. NE NE
At proposed prod. zone

11. Sec., T., R., M., or Blk. and Survey or Area: Sec.13,T3S,R5W, U.S.B.& M.

14. Distance in miles and direction from nearest town or post office*: ± 4.5 Mi. North of Duchesne, Utah

12. County or Parrish: Duchesne 13. State: Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any): 820'

16. No. of acres in lease: 640

17. No. of acres assigned to this well: 160

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.:

19. Proposed depth: 9,800 Green River

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): 5898.6

22. Approx. date work will start*: ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
8 1/2	7"	26 & 29	± 9800	750

SEE ATTACHMENTS

1. 10 Point Drilling Plan
2. B.O.P.
3. Survey Plat
4. Cut and Fill Sheet
5. Topo. Map 'A'
6. Topo. Map 'B'

RECEIVED
JUN 29 [redacted]
DIV. OF OIL, GAS & MINING

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 7/3/84
BY: John R. Baza

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed: Donald J. Johnson Title: Vice President Date: 6-28-84

(This space for Federal or State office use)

Permit No. ..... Approval Date .....

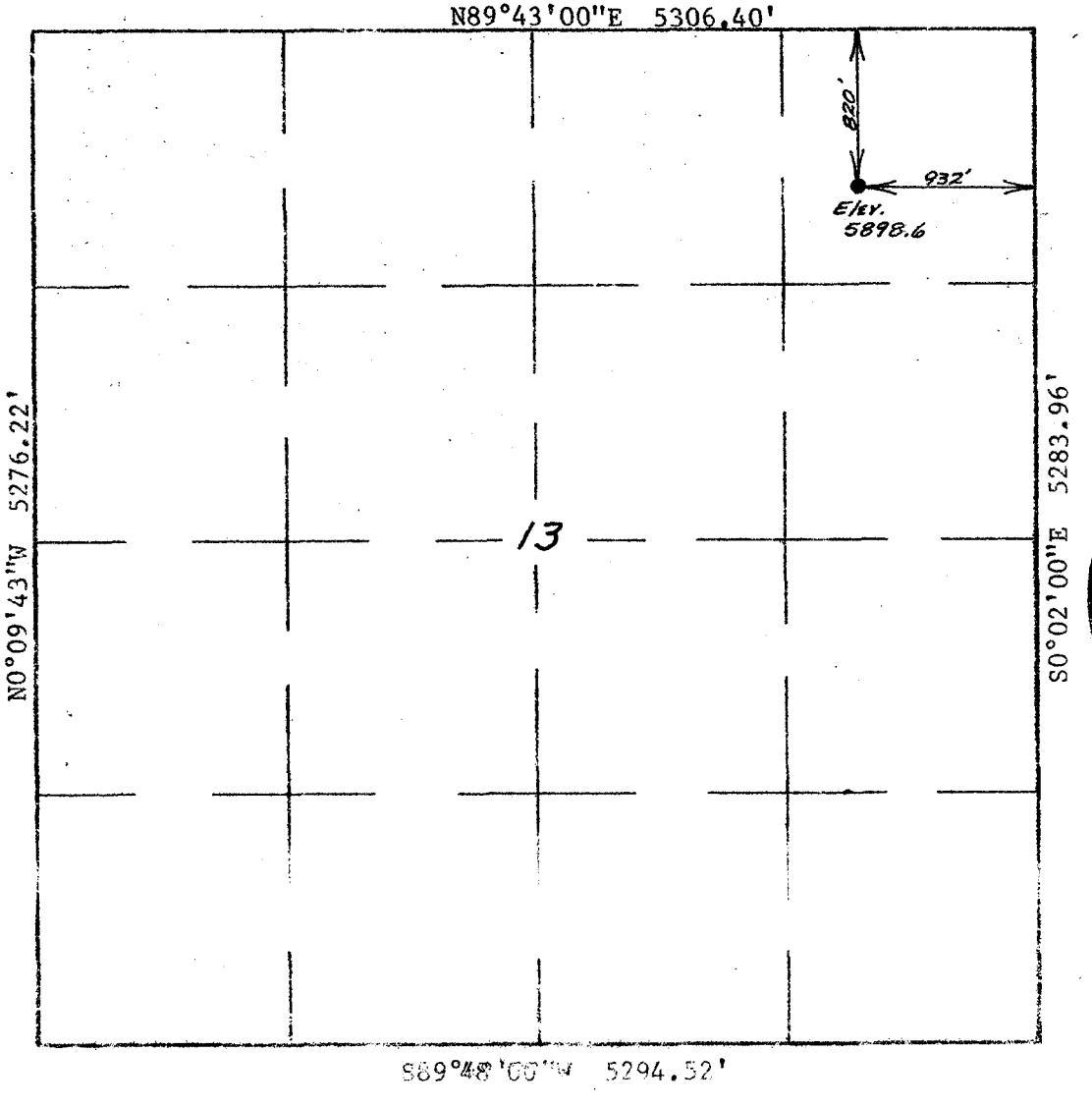
Approved by ..... Title ..... Date .....
Conditions of approval, if any:

*See Instructions On Reverse Side

T 3 S, R 5 W, U.S.B. & M.

PAIUTE OIL & MINING CORP.

Well location, Paiute Walker 13-1 located as shown in the N.E. 1/4, S.W. 1/4, section 13, T3S, R5W, U.S.B. & M., Duchesne County, Utah.



SCALE 1"=1,000'

REGISTERED LAND SURVEYOR
No. 3835
GLENN A. RAVENBERG
State of Utah

CERTIFICATE

This is to certify that the above plat was prepared by me or under my supervision, and that it is true and correct to the best of my knowledge and belief.

GLENN RAVENBERG, Registered Surveyor

Certificate No 3835 DATE 6/25/84
STATE of UTAH

INTERMOUNTAIN SURVEYING

ATTACHMENT FORM 9-331-C

1. Geological Name of Surface Formation

(A) Duchesne River Formation of Eocene Age

2. Tops of Important Geological Markers

(A) Uintah (Approx. 2000 Ft.)

(B) Green River (Approx. 4700 Ft.) ✓

3. Estimated Depths of Anticipated Water, Oil or Gas

(A) Gas anticipated at 4700 Ft. in Green River Formation

4. Proposed Casing Program

±9,800 Ft. of 7" casing A.P.I. 26 & 29 Lbs. per Ft. All pipe to be purchased as as new.

5. Specifications For Pressure Control Equipment

(A) 5 1/2 inch series 5000 Lbs. Double Hydraulic B.O.P. with Pipe Rams and Blind Rams.

(B) B.O.P. to be pressure tested before spudding and daily testing of closing units and rams while drilling

6. Proposed Circulating Medium

(A) Brine water is proposed to be used unless additional weight is needed to control pressures or heaving shale. In this event a chemical-gel fresh water mud will be used and Barite as needed to control pressure.

7. Auxiliary Equipment to be Used

(A) Upper Kelley Cock
(B) Float at Bit
(C) Floor T.I.W. Valve (stabbing valve) for drill pipe
(D) Gas Dectector Logging Unit

8. Testing, Logging, and Coring Programs

(A) Drill Stem Test of Green River Formation

(B) Will run Gamma-Neutron, Caliper, and Density Logs (Density Log is Optional) ✓

9. Anticipated Abnormal Pressures, Temperatures, or Hazards

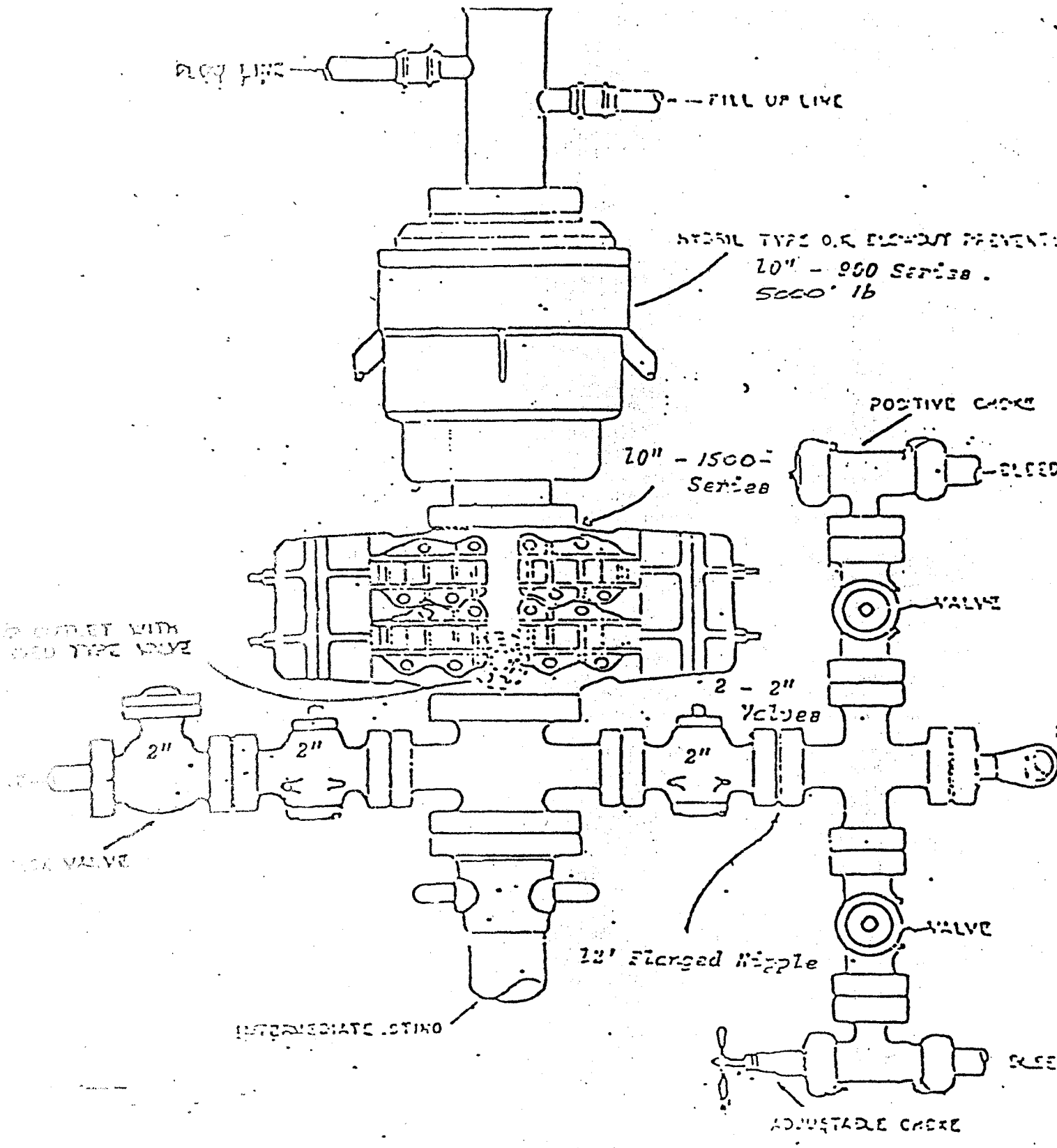
(A) No abnormal pressures expected

(B) No Hydrogen Sulfide Gas expected

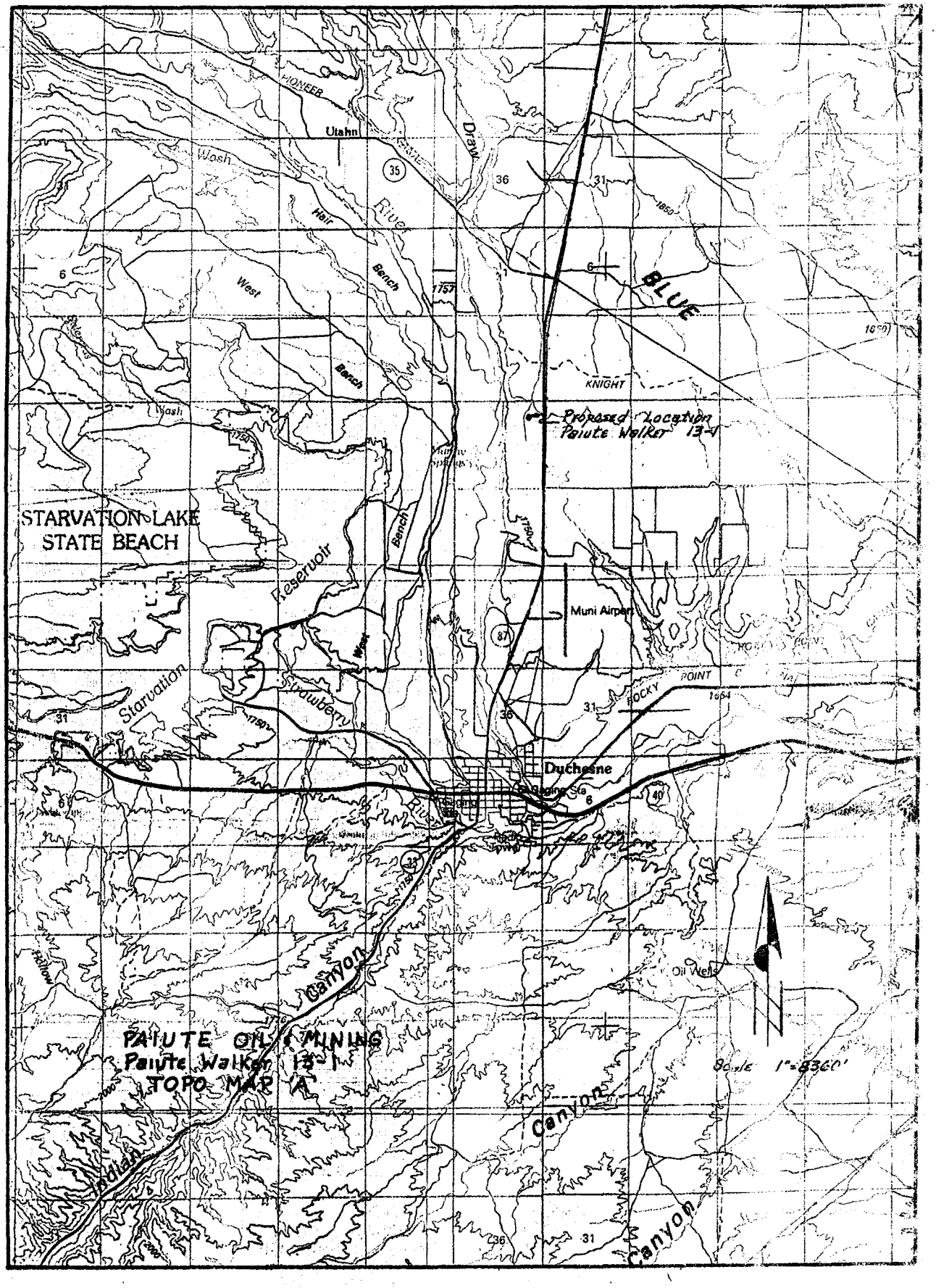
10. Starting Date and Duration of Operations

(A) Anticipated starting date ASAP

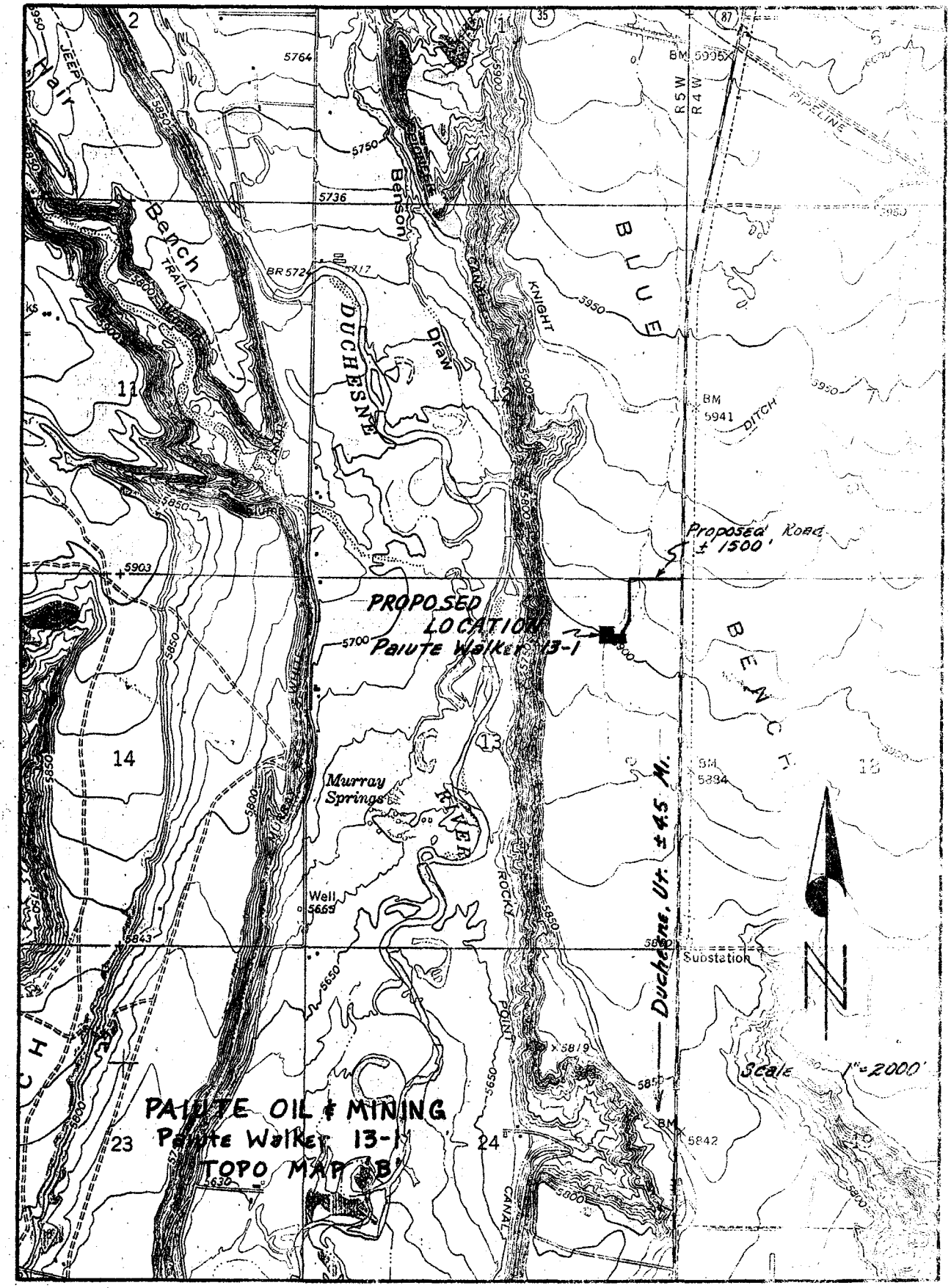
(B) This well is anticipated to be drilled in approximately 30 days.



NOTE: BOONVR PREVENTER HAS DOUBLE RAMS;
ONE BLIND AND ONE PIPE RAM.

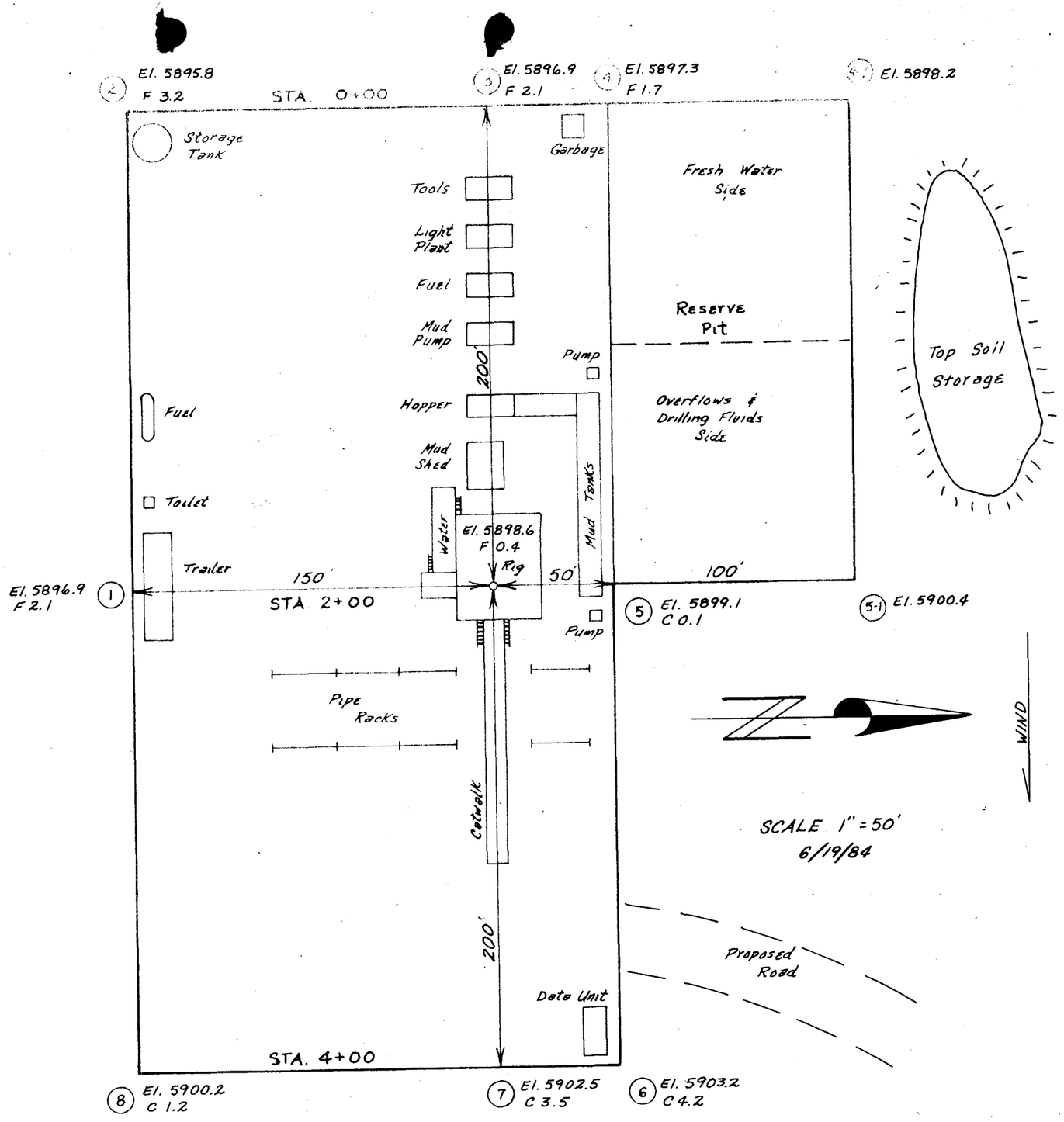


PIONEER
Utahn
Wash
Draw
Hair
River
West
Bench
BLUE
KNIGHT
Proposed Location
Paiute Walker 13-1
STARVATION LAKE
STATE BEACH
Reservoir
Muni Airport
Starvation
Strawberry
ROCKY POINT
Duchesne
Canyon
Oil Wells
PAIUTE OIL & MINING
Paiute Walker 13-1
TOPO MAP 'A'
Scale 1"=8360'
Indian
Canyon
Canyon



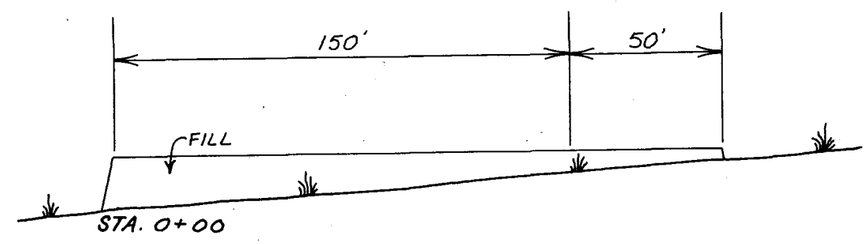
PAIUTE OIL & MINING
Paiute Walker 13-1
TOPO MAP 'B'
PROPOSED LOCATION
Paiute Walker 13-1
Proposed Road ± 1500'
Ducheene, Ut. ± 4.5 Mi.
Scale 1" = 2000'
Murray Springs
Well 5665
Substation
DUCHESNE
RIVER
Benson
Draw
BLUE
BENCH
Hair
Bench
TRAIL
JEEP
KNIGHT
DITCH
PIPELINE
ROCKY
POINT
CANAL
R 5 W
R 4 W
BM 5995
BM 5941
BM 5884
BM 5842
BR 5724
5764
5750
5736
5717
5903
5700
5843
5819
5630
5650
5800
5850
5900
5950

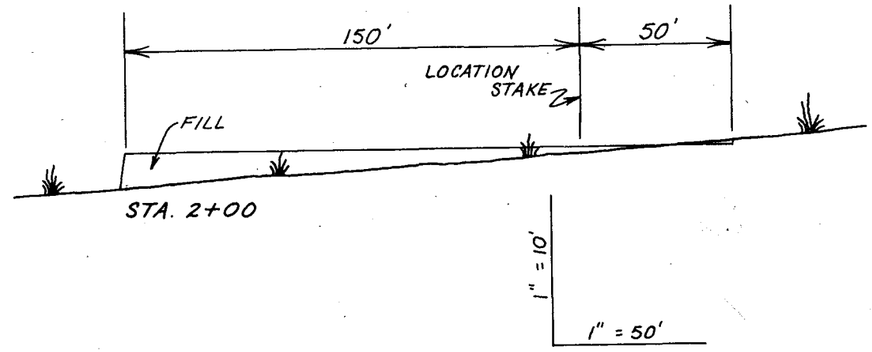
PAIUTE OIL & MINING CORP.
PAIUTE - WALKER 13-1

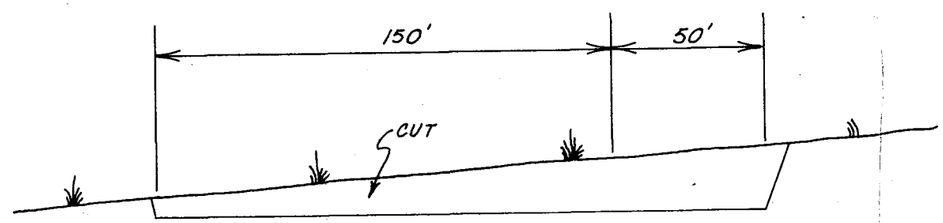


SCALE 1" = 50'
6/19/84

Top Soil Storage







APPROX. YARDAGES

CUT	2,063 Cu. Yds.
FILL	2,350 Cu. Yds.

OPERATOR Pointe Oil & Mining Corp. DATE 7-3-84

WELL NAME Pointe-Walker #13-ND-1

SEC NENE 13 T 3S R 5W COUNTY Duchesne

43-013-30971	Fee
API NUMBER	TYPE OF LEASE

POSTING CHECK OFF:

☐ INDEX	☐ HL	☐
☐ NID	☐ PI	☐
☐ MAP	☐	☐

PROCESSING COMMENTS:
No other wells in Section 13
Need water permit - K

APPROVAL LETTER:

SPACING: ☐ A-3 _____ UNIT ☑ c-3-a 139-8 9/2/47 CAUSE NO. & DATE

☐ c-3-b ☐ c-3-c

SPECIAL LANGUAGE:
1- Water

- [x] RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.
- [x] AUTHENTICATE LEASE AND OPERATOR INFORMATION
- [x] VERIFY ADEQUATE AND PROPER BONDING
- [x] AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.
- [ ] APPLY SPACING CONSIDERATION
  - [x] ORDER 139-8
  - [ ] UNIT _____
  - [ ] c-3-b
  - [ ] c-3-c
- [x] CHECK DISTANCE TO NEAREST WELL.
- [ ] CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.
- [x] IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER
- [x] IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

July 3, 1984

Paiute Oil & Mining Corporation
P O Box 1329
Park City, Utah 84060

RE: Well No. Paiute-Walker #13-MD-1
NENE Sec. 13, T. 3S, R. 5W
820' FNL, 932' FEL
Duchesne County, Utah

Gentlemen:

Approval to drill the above referenced oil/gas well is hereby granted in accordance with Order of Cause No.139-8 dated September 20, 1972, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.

2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.

3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 533-5771, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.

4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-013-30971.

Sincerely,

R. J. Firth
Associate Director, Oil & Gas

RJF/as

cc: Branch of Fluid Minerals

Enclosures

Rocky Point Ditch Co.
Box 14
Duchesne, Utah 84021

July 12, 1984

State Water Board

Attention: Mr. Ted Baldwin

Dear Sir:

Rocky Point Ditch Co. hereby grants Paiute Oil & Mining Co. permission to use 1 second foot of water out of said company's allotment for a period of 45 days. This water is to be used to drill an oil well, Paiute Walker 13-ND1 in Township 3 So. Range 5 West Section 13, and an oil well, Paiute Walker 25-7 in Township 3 So. Range 5 West Section 25.

Respectfully,

Gail F. Hamilton

Gail F. Hamilton
President, Rocky Point Ditch Co.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: PAIUTE OIL COMPANY

WELL NAME: PAIUTE-WALKER 13-ND-1

SECTION NENE 13 TOWNSHIP 3S RANGE 5W COUNTY Duchesne

DRILLING CONTRACTOR P & P WELL SERVICE

RIG #

SPUDDED: DATE 7-13-84

TIME 2:00 PM

HOW Rathole Digger

DRILLING WILL COMMENCE ASAP

REPORTED BY Don Johnson

TELEPHONE # 801-649-8212

DATE 7-16-84 SIGNED JRB

Form 111 8-61-2M

APPLICATION NO. 84-43-40

DISTRIBUTION SYSTEM.....

Application For Temporary Change of Point of Diversion, Place or Purpose of Use

STATE OF UTAH

Paiute Oil

(To Be Filed in Duplicate)

Vernal, Utah (Place) 7-12- (Date), 19 84

For the purpose of obtaining permission to temporarily change the point of diversion, place or purpose of use (Strike out written matter not needed) of water, the right to the use of which was acquired by Appl. 2174 (43-177) (Give No. of application, title and date of Decree and Award No.) to that hereinafter described, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. The owner of right or application is Rocky Point Ditch Co.
2. The name of the person making this application is Paiute Oil & Mining Co.
3. The post office address of the applicant is P. O. Box 1329, Park City, Utah 84060

PAST USE OF WATER

4. The flow of water which has been used in second feet is 14.6
5. The quantity of water which has been used in acre feet is.....
6. The water has been used each year from Apr. 1 (Month) (Day) to Oct. 31 (Month) (Day), incl.
7. The water has been stored each year from..... (Month) (Day) to..... (Month) (Day), incl.
8. The direct source of supply is Duchesne River in Duchesne County.
9. The water has been diverted into Rocky Point ditch/canal at a point located N.150 ft. E.140 ft. from the S¼ Cor. Sec. 12, T3S,R5W,USB&M
10. The water involved has been used for the following purpose: Irrigation

Total 1021 acres.

NOTE: If for irrigation, give legal subdivisions of land and total acreage which has been irrigated. If for other purpses, give place and purpose of use.

THE FOLLOWING TEMPORARY CHANGES ARE PROPOSED

11. The flow of water to be changed in cubic feet per second is.....
12. The quantity of water to be changed in acre-feet is 8.0
13. The water will be diverted into the tank trucks ditch/canal at a point located West 200 ft. S.1700 ft. from the N¼ Cor. Sec. 36, T3S,R5W,USB&M
14. The change will be made from July 16, 1984, 19..... to July 15, 19 85 (Period must not exceed one year)
15. The reasons for the change are For use in drilling oil well
16. The water involved herein has heretofore been temporarily changed .....years prior to this application. (List years change has been made)
17. The water involved is to be used for the following purpose: Drilling Paiute Walker 13-NDI Oil Well in Sec. 13, T3S,R5W,USB&M & Paiute Walker 25-7 oil well in Sec.25,T3S,R5W,USB&M

Total.....acres.

NOTE: If for irrigation, give legal subdivisions of land to be irrigated. If for other purposes, give place and purpose of proposed use.

EXPLANATORY

A filing fee in the sum of $5.00 is submitted herewith. I agree to pay an additional fee for either investigating or advertising this change, or both, upon the request of the State Engineer.

Jerry Lamb for Paiute Oil & Mining Co
Signature of Applicant

RULES AND REGULATIONS

(Read Carefully)

This application blank is to be used only for temporary change of point of diversion, place or nature of use for a definitely fixed period not to exceed one year. If a permanent change is desired, request proper application blanks from the State Engineer.

Application for temporary change must be filed in duplicate, accompanied by a filing fee of $7.50. Where the water affected is under supervision of a Water Commissioner, appointed by the State Engineer, time will be saved if the Application is filed with the Commissioner, who will promptly investigate the proposed change and forward both copies with filing fee and his report to the State Engineer. Applications filed directly with the State Engineer will be mailed to the Water Commissioner for investigation and report. If there be no Water Commissioner on the source, the Application must be filed with the State Engineer.

When the State Engineer finds that the change will not impair the rights of others he will authorize the change to be made. If he shall find, either by his own investigation or otherwise, that the change sought might impair existing rights he shall give notice to persons whose rights might be affected and shall give them opportunity to be heard before acting upon the Application. Such notice shall be given five days before the hearing either by regular mail or by one publication in a newspaper. Before making an investigation or giving notice the State Engineer will require the applicant to deposit a sum of money sufficient to pay the expenses thereof.

Address all communications to:

State Engineer

State Capitol Building

Salt Lake City, Utah

STATE ENGINEER'S ENDORSEMENTS

(Not to be filled in by applicant)

Change Application No. ..... , ...
(River System)

1. .....Application received by Water Commissioner .....
(Name of Commissioner)

Recommendation of Commissioner .....

2. 7/12/84 Application received (over counter / by mail) ~~in~~ State Engineer's Office by TWB

3. .....Fee for filing application, $7.50 received by ..... ; Rec. No. .....

4 .....Application returned, with letter, to ...., for correction.

5. .....Corrected application resubmitted (over counter / by mail) to State Engineer's Office.

6. .....Fee for investigation requested $..... .

7. .....Fee for investigation $..... , received by ..... : Rec. No. .....

8. .....Investigation made by ..... ; Recommendations: .....

.....

9. .....Fee for giving notice requested $..... .

10. .....Fee for giving notice $..... , received by ..... : Rec. No.....

11. .....Application approved for advertising by (publication / mail) by .....

12. .....Notice published in.....

13. .....Notice of pending change application mailed to interested parties by .....as follows:

.....

.....

14. ..... Change application protested by .....
(Date Received and Name)

.....

15. .....Hearing set for ..... , at .....

16. July 12, 1984 Application recommended for (rejection / approval) by TWB

17. .....Change Application (rejected / approved) and returned to .....

THIS APPLICATION IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1. .....

2. .....

3. .....

Theodore M. Baldwin

For State Engineer

Form OGC-1b

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Paiute Oil & Mining Corp.

3. ADDRESS OF OPERATOR: 1901 Prospector Sq. P.O. Box 1329, Park City, Utah 84060

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: Sec. 13 T. 3 S. R. 5 W., Duchesne Co., Utah

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Paiute/Walker

9. WELL NO.: 13-ND-1

10. FIELD AND POOL, OR WILDCAT: Duchesne

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 13 T 3 S R 5 W USBM

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: API 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5898.6 GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF [ ]	PULL OR ALTER CASING [ ]	WATER SHUT-OFF [ ]	REPAIRING WELL [ ]
FRACTURE TREAT [ ]	MULTIPLE COMPLETE [ ]	FRACTURE TREATMENT [ ]	ALTERING CASING [ ]
SHOOT OR ACIDIZE [ ]	ABANDON* [ ]	SHOOTING OR ACIDIZING [ ]	ABANDONMENT* [ ]
REPAIR WELL [ ]	CHANGE PLANS [ ]	(Other) [ ]	
(Other)		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

7-31-84 Well spudded 2:00 P.M. 7-13-84. Currently drilling.

RECEIVED
AUG 13 1984
DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Donald J. Johnson TITLE Vice Pres. Oil & Gas Operations DATE 7-31-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Paiute/Walker

9. WELL NO.: 13-ND-1

10. FIELD AND POOL, OR WILDCAT: Duchesne

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 13 T 3 S R 5 W USBM

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Paiute Oil & Mining Corp.

3. ADDRESS OF OPERATOR: 1901 Prospector Sq. P.O. Box 1329, Park City, Utah 84060

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: Sec. 13 T. 3 S. R. 5 W., Duchesne Co., Utah

14. PERMIT NO.: API 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5898.6 GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

8-23-84 T.D. at 9234 ✓

8-31-84 Waiting on completion

18. I hereby certify that the foregoing is true and correct

SIGNED Donald J. Johnson (Donald J. Johnson) TITLE Vice Pres. Oil & Gas Operations DATE 8-31-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
INSPECTION RECORD

Operator Paiute-Walker Lease Fee

Contractor Rig # 58 (TWT)

Well No. 13-1-ND

Location Ne/Ne Sec. 13 T. 3s R. 5w

Field ND

County Duchesne State Utah

Operation: Drilling ✓
Workover
Completion
Abandonment
Producing
Other

Individual Well Inspection

General:

Well Sign
Housekeeping
10" BOP 3000#
Safety
Pollution control
Surface use ✓
Marker
Location ✓

Remarks: Rig drilling at 5369' doing bit change during inspection, drilling with fresh water, reserve pit is unlined. Well TD is 9800' date of inspection was 7-24-84

Lease and Facilities Inspection

Facilities inspected:

Identification
Housekeeping
Measurement facilities
Storage and handling facilities
Pollution control
Pits and ponds
Water disposal
Other

Remarks:

Action: Will recheck again after completion.

Name Jeannie Thompson Title inspector Date 8-8-84

Use: ✓ for yes or satisfactory
x for no or unsatisfactory
NA for not applicable

April 5, 1984

Form OGC-1b

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Paiute/Walker

9. WELL NO.: 13-ND-1

10. FIELD AND POOL, OR WILDCAT: Duchesne

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SEC 13 T 3 S R 5 W USBM

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Paiute Oil & Mining Corporation

3. ADDRESS OF OPERATOR: 1901 Prospector Sq., P. O. Box 1329, Park City, Utah 84060

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface:

SEC 13, T 3 S. R 5 W.
Duchesne County, Utah

14. PERMIT NO.: API 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5,898.6 GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]				
(Other)			[ ]	(Other)			[ ]

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

9-30-84 Waiting on completion

18. I hereby certify that the foregoing is true and correct

SIGNED Donald J. Johnson (Donald J. Johnson) TITLE Vice Pres., Oil & Gas Operations DATE 9-30-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

011505 Drlg.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
INSPECTION RECORD

Operator Paiute Walker Lease Fee

Contractor

Well No. 13-1 Paiute Walker 13-ND-1 30971

Location Ne/Ne Sec. 13 T. 3s R. 5w

Field Altamont

County Duchesne State Utah

Operation: Drilling ____ Workover ____ Completion New Abandonment ____ Producing ____ Other ____

Individual Well Inspection

General:

Well Sign	____	BOP	____	Pollution control	____	Marker	____
Housekeeping	____	Safety	____	Surface use	↘	Location	____

Remarks: Rig is layed down WOL. Don't know status, there was no one around.

Lease and Facilities Inspection

Facilities inspected: 9-19-84

Identification	~	Pollution control	~
Housekeeping	~	Pits and ponds	~
Measurement facilities	~	Water disposal	~
Storage and handling facilities	~	Other	~

Remarks:

Action: Will check back when well is completed.

Name Jasmine Thompson Title inspector Date 9-28-84

Use: ✓ for yes or satisfactory
x for no or unsatisfactory
NA for not applicable

April 5, 1984

Form OGC-1b

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Paiute Oil & Mining Corporation

3. ADDRESS OF OPERATOR: 1901 Prospector Sq., P. O. Box 1329, Park City, Utah 84060

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface:
SEC 13, T 3 S. R 5 W.
Duchesne County, Utah

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Paiute/Walker

9. WELL NO.: 13-ND-1

10. FIELD AND POOL, OR WILDCAT: Duchesne

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SEC 13 T 3 S R 5 W USBM

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: API 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5,898.6 GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

10-31-84 Waiting on completion

RECEIVED
FEB 15 1985
DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Donald J. Johnson (Donald J. Johnson) TITLE Vice Pres., Oil & Gas Operations DATE 10-31-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Paiute Oil & Mining Corporation

3. ADDRESS OF OPERATOR: 1901 Prospector Sq., P. O. Box 1329, Park City, Utah 84060

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: SEC 13, T 3 S. R 5 W. Duchesne County, Utah

14. PERMIT NO.: API 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5,898.6 GR

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Paiute/Walker

9. WELL NO.: 13-ND-1

10. FIELD AND POOL, OR WILDCAT: Duchesne

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SEC 13 T 3 S R 5 W USBM

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]				
(Other)			[ ]	(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

11-30-84 Waiting on completion.

RECEIVED
FEB 15 1985
DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Donald J. Johnson (Donald J. Johnson) TITLE Vice Pres., Oil & Gas Operations DATE 11-30-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Paiute Oil & Mining Corporation

3. ADDRESS OF OPERATOR: 1901 Prospector Sq., P. O. Box 1329, Park City, Utah 84060

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface:

SEC 13, T 3 S. R 5 W.
Duchesne County, Utah

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Paiute/Walker

9. WELL NO.: 13-ND-1

10. FIELD AND POOL, OR WILDCAT: Duchesne

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SEC 13 T 3 S R 5 W USBM

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: API 43-013-30971

15. ELEVATIONS (Show whether DF, RT, OR, etc.): 5,898.6 GR

16. Check Appropnate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]				
(Other)				(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

12-31-84 Waiting on completion

RECEIVED
FEB 15 1985
DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Donald J. Johnson TITLE Vice Pres., Oil & Gas Operations DATE 12-31-84

Donald J. Johnson

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1. OIL WELL [X] GAS WELL [ ] OTHER

8. FARM OR LEASE NAME: Paiute/Walker

2. NAME OF OPERATOR: Paiute Oil & Mining Corporation

9. WELL NO.: 13-ND-1

3. ADDRESS OF OPERATOR: 1901 Prospector Sq., P. O. Box 1329, Park City, Utah 84060

10. FIELD AND POOL, OR WILDCAT: Duchesne

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface

SEC 13, T 3 S. R 5 W.
Duchesne County, Utah

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SEC 13 T 3 S R 5 W USBM

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: API 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5,898.6 GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]				
(Other)			[ ]	(Other)			[ ]

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

1-31-85 Waiting on completion

RECEIVED
FEB 15 1985
DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Donald J. Johnson (Donald J. Johnson) TITLE Vice Pres., Oil & Gas Operations DATE 1-31-85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

February 8, 1985

Paiute Oil & Mining Corporation
1901 Prospector Square
Park City, Utah 84060

Gentlemen:

Re: Well No. 13-ND-1 - Sec. 13, T. 3S., R. 5W
Duchesne County, Utah - API #43-013-30971

Our records indicate that you have not filed drilling reports for the months of October to the completion on the above referred to well. Our rules and regulations stipulate that these reports be filed by the sixteenth of each month until the well is completed.

This letter is also to advise you that the "Well Completion or Recompletion Report and Log" for the above referred to well is due and has not been filed with this office as required by our rules and regulations.

Enclosed are forms for your convenience in filing the necessary reports as soon as possible but no later than March 7, 1985.

Thank you for your cooperation in this matter.

Sincerely,

Claudia L. Jones

Claudia L. Jones
Well Records Specialist

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File
0087S/29

Form OGC-1b

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Paiute Oil & Mining Corporation

3. ADDRESS OF OPERATOR: 1901 Prospector Sq., P. O. Box 1329, Park City, Utah 84060

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface:

SEC 13, T 3 S. R 5 W.
Duchesne County, Utah

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Paiute/Walker

9. WELL NO.: 13-ND-1

10. FIELD AND POOL, OR WILDCAT: Duchesne

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SEC 13 T 3 S R 5 W USBM

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: API 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5,898.6 GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]				
(Other)				(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Waiting on Completions

RECEIVED
APR 04 1985
DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Donald J. Johnson (Donald J. Johnson) TITLE Vice Pres., Oil & Gas Operations DATE 2-28-85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR
Paiute Oil & Mining Corporation

3. ADDRESS OF OPERATOR
1901 Prospector Sq., P. O. Box 1329, Park City, Utah 84060

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

SEC 13, T 3 S. R 5 W.
Duchesne County, Utah

5. LEASE DESIGNATION AND SERIAL NO.
FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Paiute/Walker

9. WELL NO.
13-ND-1

10. FIELD AND POOL, OR WILDCAT
Duchesne

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC 13 T 3 S R 5 W USBM

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

14. PERMIT NO.
API 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5,898.6 GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
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FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]				
(Other)				(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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Waiting on Completions

18. I hereby certify that the foregoing is true and correct

SIGNED Donald J. Johnson TITLE Vice Pres., Oil & Gas Operations DATE 3-31-85

Donald J. Johnson

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
JUN 07 1985
DIVISION OF OIL GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1. OIL WELL [X] GAS WELL [ ] OTHER

8. FARM OR LEASE NAME: Paiute/Walker

2. NAME OF OPERATOR: Paiute Oil & Mining Corporation

9. WELL NO.: 13-ND-1

3. ADDRESS OF OPERATOR: 1901 Prospector Sq., P. O. Box 1329, Park City, Utah 84060

10. FIELD AND POOL, OR WILDCAT: Duchesne

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface

SEC 13, T 3 S. R 5 W.
Duchesne County, Utah

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SEC 13 T 3 S R 5 W USBM

14. PERMIT NO.: API 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5,898.6 GR

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropnate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

WELL ON COMPLETION

18. I hereby certify that the foregoing is true and correct

SIGNED Donald J. Johnson (Donald J. Johnson) TITLE Vice Pres., Oil & Gas Operations DATE 4/30/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
JUN 07 1985
DIVISION OF OIL GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR
Paiute Oil & Mining Corporation

3. ADDRESS OF OPERATOR
1901 Prospector Sq., P. O. Box 1329, Park City, Utah 84060

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

SEC 13, T 3 S. R 5 W.
Duchesne County, Utah

14. PERMIT NO.
API 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5,898.6 GR

5. LEASE DESIGNATION AND SERIAL NO.
FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Paiute/Walker

9. WELL NO.
13-ND-1

10. FIELD AND POOL, OR WILDCAT
Duchesne

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC 13 T 3 S R 5 W USBM

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

16. Check Appropnate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]				
(Other)				(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

WELL ON COMPLETION

18. I hereby certify that the foregoing is true and correct

SIGNED Donald J. Johnson TITLE Vice Pres., Oil & Gas Operations DATE 5/31/85

Donald J. Johnson

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
AUG 09 1985
DIVISION OF OIL GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR
Paiute Oil & Mining Corporation

3. ADDRESS OF OPERATOR
1901 Prospector Sq., P. O. Box 1329, Park City, Utah 84060

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

SEC 13, T 3 S. R 5 W.
Duchesne County, Utah

14. PERMIT NO.
API 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5,898.6 GR

5. LEASE DESIGNATION AND SERIAL NO.
FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Paiute/Walker

9. WELL NO.
13-ND-1

10. FIELD AND POOL, OR WILDCAT
Duchesne

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC 13 T 3 S R 5 W USBM

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

16. Check Appropnate Box To Indicpte Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Waiting on Completions

18. I hereby certify that the foregoing is true and correct

SIGNED Donald J. Johnson (Donald J. Johnson) TITLE Vice Pres., Oil & Gas Operations DATE 7-31-85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
OCT 07 1985
DIVISION OF OIL, GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Paiute Oil & Mining Corporation

3. ADDRESS OF OPERATOR: 1901 Prospector Sq., P. O. Box 1329, Park City, Utah 84060

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface:
SEC 13, T 3 S. R 5 W.
Duchesne County, Utah

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Paiute/Walker

9. WELL NO.: 13-ND-1

10. FIELD AND POOL, OR WILDCAT: Duchesne

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SEC 13 T 3 S R 5 W USBM

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: API 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5,898.6 GR

16. Check Appropnote Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Waiting on Completions

18. I hereby certify that the foregoing is true and correct

SIGNED Donald J. Johnson (Donald J. Johnson) TITLE Vice Pres., Oil & Gas Operations DATE 8.30.85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Paiute Oil & Mining Corporation

3. ADDRESS OF OPERATOR: 1901 Prospector Sq., P. O. Box 1329, Park City, Utah 84060

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface:

SEC 13, T 3 S. R 5 W.
Duchesne County, Utah

14. PERMIT NO.: API 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5,898.6 GR

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Paiute/Walker

9. WELL NO.: 13-ND-1

10. FIELD AND POOL, OR WILDCAT: Duchesne

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SEC 13 T 3 S R 5 W USBM

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Waiting on Completions

RECEIVED
OCT 07 1985
DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Donald J. Johnson (Donald J. Johnson) TITLE Vice Pres., Oil & Gas Operations DATE 9-30-85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR
Paiute Oil & Mining Corporation

3. ADDRESS OF OPERATOR
1901 Prospector Sq., P. O. Box 1329, Park City, Utah 84060

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

SEC 13, T 3 S. R 5 W.
Duchesne County, Utah

5. LEASE DESIGNATION AND SERIAL NO.
FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Paiute/Walker

9. WELL NO.
13-ND-1

10. FIELD AND POOL, OR WILDCAT
Duchesne

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC 13 T 3 S R 5 W USBM

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

14. PERMIT NO.
API 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5,898.6 GR

16. Check Appropnote Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Waiting on Completions

RECEIVED
NOV 27 1985
DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Donald J. Johnson (Donald J. Johnson) TITLE Vice Pres., Oil & Gas Operations DATE 10-31-85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

December 30, 1985

Paiute Oil & Mining Corporation
1901 Prospector Sq.
P.O. Box 1329
Park City, Utah 84060

Dear Mr. Johnson:

RE: Well No. 13-ND-1 - Sec. 13, T. 3S, R. 5W,
Duchesne County, Utah - API #43-013-30971

This letter is to advise you that the "Well Completion or Recompletion Report and Log" for the above referenced well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, and forward it to this office as soon as possible, but not later than January 15, 1986.

Sincerely,

Tami Alexander
Well Records Specialist

Enclosure
cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

0320/4

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

April 3, 1986

Paiute Oil & Mining Corporation
1901 Prospector Square
P O Box 1329
Park City, Utah 84060

Gentlemen:

Re: Well No. Paiute-Walker #13-ND-1 - Sec. 13, T. 3S, R. 5W
Duchesne County, Utah - API #43-013-30971

Rule 312 of the Oil and Gas Conservation General Rules requires that Form DOGM-3 "Well Completion or Recompletion Report and Log", along with copies of logs and tests run, be filed with this office not later than 90 days after drilling operations have ceased.

Please complete and return the enclosed Form DOGM-3 or the equivalent federal form, including copies of logs and tests which may have been run on the referenced well, not later than April 21, 1986. Address the response to:

Utah Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
Attention: Well Records Suspense File - Norm Stout

Respectfully,

Norman C. Stout
Records Manager

ta
cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File
0385/5

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 12, 1986

RETURN RECEIPT REQUESTED
P 168 903 926

2nd NOTICE

Paiute Oil & Mining Corporation
1901 Prospectors Square
P O Box 1329
Park City, Utah 84060

Gentlemen:

Re: Well No. Paiute-Walker #13-ND-1 - Sec. 13, T. 3S, R. 5W
Duchesne County, Utah - API #43-013-30971

Rule 312 of the Oil and Gas Conservation General Rules requires that Form DOGM-3 "Well Completion or Recompletion Report and Log", along with copies of logs and tests run, be filed with this office not later than 90 days after drilling operations have ceased.

Please complete and return the enclosed Form DOGM-3 or the equivalent federal form including copies of logs and tests which may have been run on the referenced well to the address listed below, at your earliest convenience, but not later than August 28, 1986.

Utah Division of Oil, Gas, and Mining
Attention: Suspense File - Norm Stout
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Respectfully,

Norman C. Stout
Records Manager

ts
cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
Well File
Suspense File
0448S/23

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

September 10, 1986

RETURN RECEIPT REQUESTED
P 168 903 937

2nd NOTICE

Paiute Oil & Mining Corporation
1901 Prospectors Square
P. O. Box 1329
Park City, Utah 84060

Gentlemen:

Re: Well No. Paiute-Walker #13-ND-1 - Sec. 13, T. 3S, R. 5W
Duchesne County, Utah - API #43-013-30971

A records review indicates that no required reports for the referenced well have been filed since October 31, 1985. Monthly drilling reports must be submitted to account for the time between spudding and well completion.

Rule 312 of the Oil and Gas Conservation General Rules requires that Form DOGM-3 "Well Completion or Recompletion Report and Log " or copy of the equivalent federal form, along with copies of logs and tests run, be filed with this office not later than 90 days after drilling operations have ceased.

Please use the address listed below to provide the required information at your earliest convenience, but not later than September 30, 1986.

Utah Division of Oil, Gas and Mining
Attention: Suspense File - Norm Stout
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Respectfully,

Norman C. Stout
Records Manager

ts
cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
Well File
Suspense File
0448S/29

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

092521

September 22, 1987

TO: Well File

THROUGH: John Baza JRB

FROM: Jim Thompson

RE: Well No. 13-1, Sec. 13, T. 3S, R. 5W, Duchesne County, Utah

Gavilan Petroleum was contacted concerning the reserve pit on the 13-1 location. It was asked that the pit remain open for the time being, because the well is scheduled to be completed later on this year.

The okay was given by Jim Thompson with the understanding that it would be backfilled on completion of the well.

JT/sb
9695T

Form OGC-1b

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
JAN 20 1988
DIVISION OF OIL, GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Gavilan Petroleum, Inc.

3. ADDRESS OF OPERATOR: 1680 West Hwy. 40 #1230

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: Sec. 13, T3S., R5W.

5. LEASE DESIGNATION AND SERIAL NO: FEE Ord.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Minerals - Ute Tribe 012503

7. UNIT AGREEMENT NAME: Unknown

8. FARM OR LEASE NAME: Unknown

9. WELL NO.: N.D. 13-1

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 13, T3S., R5W.

14. PERMIT NO.: 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5898.6 GR

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Status Report			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS: (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Please be advised that subject well does not have an operator as of this date. This Sundry is for information only. Subject well is now proceeding through past Paiute Oil and Mining Chapter Seven bankruptcy. Please advise if further information is necessary.

18. I hereby certify that the foregoing is true and correct

SIGNED Scott J. Seely TITLE Operations Manager DATE January 18, 1988

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

***See Instructions on Reverse Side**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

COMPANY: Gasilan UT ACCOUNT # N2275 SUSPENSE DATE: 12-22-87

WELL NAME:

API #:

SEC, TWP, RNG:

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: Joann Riddle

CONTACT TELEPHONE NO.: 789-4666 Vernal

SUBJECT: Gasilan acquired 13-ND-1 & EG2-1A & RU #12 from a bankruptcy court. They sold them 11-87. She will send sundry notifying us of chg.

(Use attachments if necessary)

~~RESULTS~~:

13-ND-1	RU #12	EG2-1A
43013 30971	43047 31427	43047 31431
3S 5W 13	1S 1E 20	6S 20E 2

(Use attachments if necessary)

CONTACTED BY: VC - DS

DATE: 12-8-87

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

April 13, 1988

To: Ron Firth, John Baza, Gil Hunt, Steve Schneider, Arlene Sollis, Jim Thompson

From: Don Staley

Re: Well Review Committee

rescheduled Held May 4, 1989

A Well Review Committee meeting has been scheduled for Friday, April 28, at 2:00 pm. Attached is a list of five wells for review.

Also attached are (1) a list of all wells we have reviewed and (2) notes from previous meetings on unresolved wells. These are taken from my new Well Review Committee dBase file.

attachments
cc: D. R. Nielson
WE75/8

an equal opportunity employer

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
OCT 31 1989
DIVISION OF OIL, GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Paiute Oil & Mining Corporation

3. ADDRESS OF OPERATOR: 1901 Prospector Square, Park City, Utah 84060

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface: NE/4 NE/4 Sec. 13, T3S, R5W

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: North Duchesne

9. WELL NO.: 13-1

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 13, T3S, R 5W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Change of Operator			[X]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Be advised that Gavilan Petroleum, Inc. is considered to be the operator of the North Duchesne # 13-1 well; NE/4NE/4 Section 13, Township 3 South, Range 5 West, Duchesne County, Utah; and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Effective 10/25/89

OIL AND GAS	
DRN	RJF
JRB	GLH
2. DTS	SLS
1-TAS	
3. MICROFILM	
4. FILE	

18. I hereby certify that the foregoing is true and correct

SIGNED Bob Lovett TITLE Production Accountant DATE 10/30/89

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

***See Instructions on Reverse Side**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

- WELL REVIEW COMMITTEE -
NOTES OF MEETINGS HELD

PLEASE PLACE IN WELL FILE

Well Name	Operator	API Number	SC	TWP	RNG	Meeting Notes
PAIUTE-WALKER 13-ND-1	PAIUTE OIL & MINING	43-013-30971	13	03S	05W	FROM APD DATA BASE - SPUDDED BUT NOT COMPLETED 5-4-89 DTS WILL CHECK TO SEE IF WE HAVE A BOND FROM GAVILAN ON THIS WELL. JLT WILL CHECK TO SEE WHO HOLDS THE MINERAL LEASE. IF GAVILAN IS LISTED AS THE LESSEE, WE SHOULD ASSUME THAT THEY ARE THE OPERATOR.

WELL REVIEW COMMITTEE

APRIL 18, 1989

Sept 1987 prod. report sent in by Gavilan — no prod. noting in files to indicate operator change.

PAIUTE OIL & MINING - Paiute Walker #13-ND-1, Sec. 13, T. 3S, R. 5W, Duchesne County - API #43-013-30971. Paiute Bond was changed to Gavilan Petroleum, Inc. for $50,000. APD approved 7-3-84. Well Spudded 7-13-84. Drilled to 9234'. Sundries dated from 8-84 thru 10-85 states that they are waiting on completion of the well. Letter's sent 12-30-85, 4-3-86, 8-12-86, and 9-10-86 regarding the Well Completion Report that has not been filed with this office or the well. Memo to file dated 9-22-87 from Jim Thompson giving okay for the reserve pit to remain open at this time. The well is scheduled to be completed later on this year. Gavilan Petroleum phoned into Well Records to advise the Division that they (Gavilan) has acquired 13-ND-1 from a bankruptcy court. Gavilan Petroleum sold this well in 11-87. They stated they would send in a Sundry Notice notifying us of the change. Inspection by Frank Matthews on 3-29-89, stated that the reserve pit is not covered and has oil in the bottom of the pit which has been burned. Frank could not determine whether or not a 7" casing was run per APD. Completion Report is needed.

Fee Lease per Gavilan & Sundry 1-18-88, well does not have an operator

PAIUTE OIL & MINING - Paiute-Walker #25-7, Sec. 25, T. 3S, R. 5W, Duchesne County - API #43-013-30972. Pauite Bond was changed to Gavilan Petroleum, Inc. for $50,000. APD approved 7-6-84. Well spudded 7-13-84. Sundry Notices dated 8-84 thru 10-85, states they are waiting on rig, working on load and legal problems and waiting on completion. Letters sent 12-85, 4-86 and 8-86 regarding the Well Completion Report that has not been filed with this office or the well. Inspections by Jim Thompson on 8-84 and 9-84, stated that they had spudded, reserve pit dug not lined, cellar and conductor pipe are still in the same place. Inspection by Bill Moore on 9-86 states the reserve pit is still open and unused, the surface casing set, hole left open. Inspection by Glenn Goodwin on 9-87 states that the pit is still open, conductor set, plate welded on top. Memo to file dated 9-87 from Jim Thompson, contacting Mr. Seeby concerning the present future of the well. Gavilan does not intend to drill this well in the near future, so it was asked that the cellar be back filled until drilling operations commence. Jim Thompson gave okay that the reserve pit be back filled upon completion of the well. Mr. Seeby said the cellar would be taken care of as soon as possible. No further information.

Fee Lease

UTEX OIL - Echeverria #2-17B5, Sec. 17, T. 2S, R. 5W, Duchesne County, - API #43-013-31157. Blanket Bond $50,000. APD approved 1-22-86. Well spudded 2-1-86. Inspection by Dorothy Swindel on 3-4-86, states the rig is stacked on location, has not been rigged up, tank grade is built above steep bank, reserve pit has no liner, conductor pipe set. Letter sent 9-17-86, regarding required reports for the well from the time between the spud and the well completion inspection by Jim Thompson on 8-6-86, states the well is spudded, cellar and conductor pipe set, reserve pit is dug and tank grade set. Jim spoke with Utex concerning the well, there is no immediate plans to drill this well. Sundry Notice dated 9-26-86, states the location was built and conductor pipe set, however never spudded with a drilling rig, at this time there are no plans to drill this well. Inspection by Bill Moore on 10-28-86 states, the location built, surface casing set, pit built, not used, unlined, tank grade built. On 4-30-87, Bill Moore contacted Steve Tipton of Utex concerning status on the well, Mr. Tipton said Utex is keeping the well under there bond in operation suspended status for now. No further information.

Fee Lease

Fee Lease

phone doc. form of 4-12-89 states that B. Skeen will send WCR. Not yet recd 5-4-89

WESGRA CORPORATION - Goodridge Estate #19, Sec. 8, T. 42S, R. 19E, San Juan County, - API #43-037-31343. Letter of Credit for $[illegible]0,000. APD approved 9-14-87. Well spudded 9-14-87. Location drilling assessment was done by Chip Hutchinson on 9-15-87. No further information.

Fee Lease

drilled ca. oct-nov 73

APD was for "re-working" Utah Parks 1/d 2 - wells already in existence - #2 well proposed TD = 574' depth

ZION OIL CO. - Utah Parks Petroleum #1, Sec. 13, T. 41S, R. 12W, Washington County, - API #43-053-30010. No Bond. APD received 10-31-73. There is no APD approval. Inspection by Jack Feight on 11-20-73, states the well has been worked over and there is 35' of fluid in the hole. At the time of the visit they had moved in a pump jack to pump out the fluid. Letter and Designation of Agent form dated 6-4-74, terminates Howard Albrecht as designated agent and appoints Mr. Murel Goodell as the designated agent. Letter sent 9-22-76, regarding required reports which need to be filed on the well. Letter received on 10-4-76 from Sonja McCormick representing Zion Oil Co., states that pursuant to the letter sent to Zion Oil Co., on 9-22-76, designated agent Mr. Murel Goodell states, that his well does ~~not~~ exist, but that there has never been any work done on the well since acquisition. Letter sent on 2-1-77 to Mr Howard Albrecht, was sent back, unable to locate current operator or collect any well data on this well. Inspection by Bill Moore on 3-17-87 states, open deep well casing. No further information.

Goodell = President of Zion Canada Oil Company

1977 letter said he was [redacted] agent for Zion Oil (see 1974 letter above)

1985 note from Norm Stout said Wes Pettingill would investigate the possibility of Del Rio now operating the leases

BLD
OI69/1-2

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

JAN 23 1991

DIVISION OF OIL, GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Gavilan Petroleum, Inc.

3. ADDRESS OF OPERATOR: 3030 South Main, Suite 500, Salt Lake City, UT 84115

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NENE/4 Sec. 13, T3S., R5W

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: North Duchesne

9. WELL NO.: 13-1

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 13, T3S,R5W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: API# 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.):

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) for information only			[XX]
(Other)	[ ]		[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spud well 7/13/84, TWT rig #58. Drilled 12 1/4" hole and set 9 5/8" 36# surface casing at 2014'. Cemented back to surface with 520 sacks class H cement, 1/4#/sack of Flocele w/2% calcium chloride. Drilled 8 1/2" hole to TD on 8/20/84 and set 7" 29# N-80 casing at 9234'. Cemented with 435 sacks 50/50 Pozolan, 0.6% Halad9, 10% salt, 1/4#/sack Flocele. Ran mud log from 3200' to 9234' (only log ran-no open hole logs). Casing was not perforated. Well was not completed. Released rig 8/22/84.

18. I hereby certify that the foregoing is true and correct

SIGNED Bob Swett TITLE Accountant DATE 1/25/91

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001 makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NORTH DUCHESNE 13-1
SEC. 13, T3S,R5W
DUCHESNE COUNTY

9 5/8 36# CSG @ 2014
CMT TO SURFACE

7" 29 # CSG SET @ 9234'
EST CMT TOP @ 4900'

Division of Oil, Gas and Mining

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

[] **Well File** No. Duchesne #13-1
(Location) Sec 13 Twp 3S Rng 5W
(API No.) _____

[] **Suspense**
(Return Date) _____
(To - Initials) _____

[] **Other** _____

1. Date of Phone Call: 2-1-91 Time: 9:30

2. DOGM Employee (name) Frank Matthews (Initiated Call [])
Talked to:
Name Bob Jewett (Initiated Call [X]) - Phone No. (801) 466-8960
of (Company/Organization) Gavilon Petroleum

3. Topic of Conversation: The possible plugging of the well. No info in file on casing depths

4. Highlights of Conversation: Bob researched well and came up with casing & cementing information. Said last time we talked really needed to know about plugging so they could get bond lowered. They would ask for a smaller bond on this well; however Ponte 25-7 has still not been cleaned up that is top soil spread cellar filled etc. Ponte 25-7 is P & A'd.

Form 3160-5
(November 1983)
(Formerly 9-331)

UNI[illegible]D STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLI[illegible]
(Other instructions [illegible] reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Gavilan Petroleum, Inc.

3. ADDRESS OF OPERATOR: 3030 South Main, Suite 500, Salt [illegible]ke City, UT 84115

4. LOCATION OF WELL (Report location clearly and in accordance with [illegible] State requirements.* See also space 17 below.) At surface: NENE/4 Sec. 13, T3S., R5W

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: North Duchesne

9. WELL NO.: 13-1

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 13, T3S, R5W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. [illegible]MIT NO.: A[illegible]3-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.):

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INT[illegible]TION TO:

[illegible]	[ ]
PULL OR AL[illegible]	[ ]
MULTIPLE COMPLETE	[ ]
ABANDON*	[ ]
CHANGE PLANS	[ ]

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
(Other) for information only			XX

(NOTE: Report results of multiple completion on Well Completion or Re[illegible]pletion Report and Log form.)

17. [illegible] OPERATIONS (Clearly state all pertinent details, and give pertin[illegible]tes, including estimated date of starting any [illegible] [illegible]onally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-

[illegible], TWT rig #58. Drilled 12 1/4" hole and set 9 5/[illegible] [illegible] at 201[illegible] Cemented back to surface with 520 sacks [illegible] [illegible]ack of Flocele w/[illegible] calcium chloride. Drilled 8 1/2[illegible] [illegible]4 and set 7" 29# N-8[illegible] casing at 9234'. Cemented with 4[illegible] [illegible]n, 0.6% Halad9, 10% salt, 1/4#/sack Flocele. Ran mud log [illegible] only log ran-no open hole logs). Casing was not pa[illegible] [illegible]ompleted. Released rig 8/22/84.

TOC @ appr. 4800'
Calculated [illegible]

18. [illegible]tify that the foregoing is true and correct

[illegible] TITLE Accountant DATE 1/2[illegible]

[illegible] Federal or State office [illegible]

APPROVED [illegible] DATE [illegible]
CONDI[illegible] IF ANY

[illegible] Side

Blue Bench 13-1
4301330971

2. Information derived from well logs, including certain information in completion reports, stratigraphic cross sections, bottomhole pressure data, and other appropriate data provided in R649-3-35-1 will be held confidential in accordance with R649-2-11 at the request of the operator.

3. The division shall review the submitted information and advise the operator and the State Tax Commission of its decision regarding the wildcat well designation as related to Section 59-5-102(2)(d).

4. The division is responsible for approval of a request for designation of a well as a wildcat well. If the operator disagrees with the decision of the division, the decision maybe appealed to the board. Appeals of all other tax-related decisions concerning wildcat wells should be made to the State Tax Commission.

R649-3-36. Shut-in and Temporarily Abandoned Wells.

1. Wells may be initially shut-in or temporarily abandoned for a period of twelve (12) consecutive months. At the end of each twelve month period the operator must file a Sundry Notice providing the following information:

1.1. Reasons for shut-in or temporarily abandonment of the well, and

1.2. The length of time the well will be shut-in or temporarily abandoned.

2. Proof of casing integrity shall be a requirement to continue the shut-in or temporarily abandonment status.

3. After five (5) years of nonactivity or nonproductivity, the well shall be plugged in accordance with R649-3-24, unless approval for extended shut-in time is given by the Division upon a showing of good cause by the operator.

4. If after a five (5) year period the well is ordered plugged by the Division, and the operator does not comply, the operator shall forfeit the drilling and reclamation bond and the well shall be properly plugged and abandoned under the direction of the Division.

1994 **40-6-1 et seq.**

R649-5. Underground Injection Control of Recovery Operations and Class II Injection Wells.

R649-5-1. Requirements For Injection Of Fluids Into Reservoirs.
R649-5-2. Requirements For Class II Injection Wells Including Water Disposal, Storage And Enhanced Recovery Wells.
R649-5-3. Noticing And Approval Of Injection Wells.
R649-5-4. Aquifer Exemption.
R649-5-5. Testing And Monitoring Of Injection Wells.
R649-5-6. Duration Of Approval For Injection Wells.
R649-5-7. Unit or Cooperative Development Or Operation.

R649-5-1. Requirements For Injection Of Fluids Into Reservoirs.

1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the board after notice and hearing.

2. A petition for authority for the injection of gas, liquefied petroleum gas, air, water, or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:

2.1. The name and address of the operator of the project.

2.2. A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile radius of the project area.

2.3. A full description of the particular operation for which approval is requested.

2.4. A description of the pools from which the identified wells are producing or have produced.

2.5. The names, description and depth of the pool or pools to be affected.

2.6. A copy of a log of a representative well completed in the pool.

2.7. A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.

2.8. A list of all operators or owners and surface owners within a one-half mile radius of the proposed project.

2.9. An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.

2.10. Any additional information the board may determine is necessary to adequately review the petition.

3. Applications as required by R649-5-2 for injection wells which are located within the project area, may be submitted for board consideration and approval with the request for authorization of the recovery project.

4. Established recovery projects may be expanded and additional wells placed on injection only upon authority from the board after notice and hearing or by administrative approval.

5. If the proposed injection interval can be classified as an USDW, approval of the project is subject to the requirements of R649-5-4.

R649-5-2. Requirements For Class II Injection Wells Including Water Disposal, Storage And Enhanced Recovery Wells.

1. Injection wells shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.

2. The application for an injection well shall include a properly completed UIC Form 1 and the following: OK

2.1. A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed well, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.

2.2. Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper, and porosity.

2.3. A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.

2.4. Copies of logs already on file with the division should be referenced, but need not be refiled.

2.5. A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.

2.6. A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.

2.7. Standard laboratory analyses of (1) the fluid to be injected, (2) the fluid in the formation into which the fluid is being injected, and (3) the compatibility of the fluids.

2.8. The proposed average and maximum injection pressures.

2.9. Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.

2.10. Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent; also information relative to geologic structure near the proposed well which may effect the conveyance and/or storage of the injected fluids.

2.11. A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter improper intervals.

2.12. An affidavit certifying that a copy of the application has been provided to all operators, owners, and surface owners within a one-half mile radius of the proposed injection well.

2.13. Any other additional information that the board or division may determine is necessary to adequately review the application.

3. Applications for injection wells which are within a recovery project area will be considered for approval:

3.1. Pursuant to R649-5-1-3.

3.2. Subsequent to board approval of a recovery project pursuant to R649-5-1-1.

4. Approval of an injection well is subject to the requirements of R649-5-4, if the proposed injection interval can be classified as an USDW.

5. In addition to the requirements of this section, the provisions of R649-3-1, R649-3-4, R649-3-24, R649-3-32, and R649-8-1 and R649-10 shall apply to all Class II injection wells.

R649-5-3. Noticing And Approval Of Injection Wells.

1. Applications for injection wells submitted pursuant to R649-5-1-3 shall be noticed in conformance with the procedural rules of the board as part of the hearing for the recovery project. Any person desiring to object to approval of such an application for an injection well shall file the objection in conformance with the procedural rules of the board.

2. The receipt of a complete and technically adequate application, other than an application submitted pursuant to R649-5-3-1, shall be considered as a request for agency action by the Division and shall be published in a daily newspaper of general circulation in the city and county of Salt Lake and in a newspaper of general circulation in the county where the proposed well is located. A copy of the notice of agency action shall also be sent to all parties including government agencies. The notice of agency action shall contain at least the following information:

2.1. The applicant's name, business address, and telephone number.

2.2. The location of the proposed well.

2.3. A description of proposed operation.

3. If no written objection to the application for administrative approval of an injection well is received by the division within 15 days after publication of the notice of agency action, or an aquifer exemption is not required in accordance with R649-5-4, and a board hearing is not otherwise required, the application may be considered and approved administratively.

4. If a written objection to an application for administrative approval of an injection well is received by the division within 15 days after publication of the notice of application, or if a hearing is required by these rules or deemed advisable by the director, the application shall be set for notice and hearing by the board.

5. The director shall have the authority to grant an exception to the hearing requirements of R649-5-1.1 for conversion to injection of additional wells which constitute a modification or expansion of an authorized project provided that any such well is necessary to develop or maintain thorough and efficient recovery operations for any authorized project and provided that no objection is received pursuant to R649-5-3-3.

6. The director shall have authority to grant an exception to the hearing requirements of R649-5-1-1 for water disposal wells provided disposal is into a formation or interval that is not currently nor anticipated to be an underground source of drinking water and provided that no objection is received pursuant to R649-5-3-3.

R649-5-4. Aquifer Exemption.

1. The board may, after notice and hearing and subject to the EPA approval, authorize the exemption of certain aquifers from classification as an USDW based upon the following findings:

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
JAN 28 1991
DIVISION OF OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL [X] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Gavilan Petroleum, Inc.

8. FARM OR LEASE NAME: North Duchesne

3. ADDRESS OF OPERATOR: 3030 South Main, Suite 500, Salt Lake City, UT 84115

9. WELL NO.: 13-1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NENE/4 Sec. 13, T3S., R5W

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 13, T3S, R5W

14. PERMIT NO.: API# 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
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(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Spud well 7/13/84, TWT rig #58. Drilled 12 1/4" hole and set 9 5/8" 36# surface casing at 2014'. Cemented back to surface with 520 sacks class H cement, 1/4#/sack of Flocele w/2% calcium chloride. Drilled 8 1/2" hole to TD on 8/20/84 and set 7" 29# N-80 casing at 9234'. Cemented with 435 sacks 50/50 Pozolan, 0.6% Halad9, 10% salt, 1/4#/sack Flocele. Ran mud log from 3200' to 9234' (only log ran-no open hole logs). Casing was not perforated. Well was not completed. Released rig 8/22/84.

TRM states in a note on a copy of this that TOC in 7" is calculated at ~4800'

18. I hereby certify that the foregoing is true and correct

SIGNED Bob Swett TITLE Accountant DATE 1/25/91

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

40 CFR 144.42

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001 makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

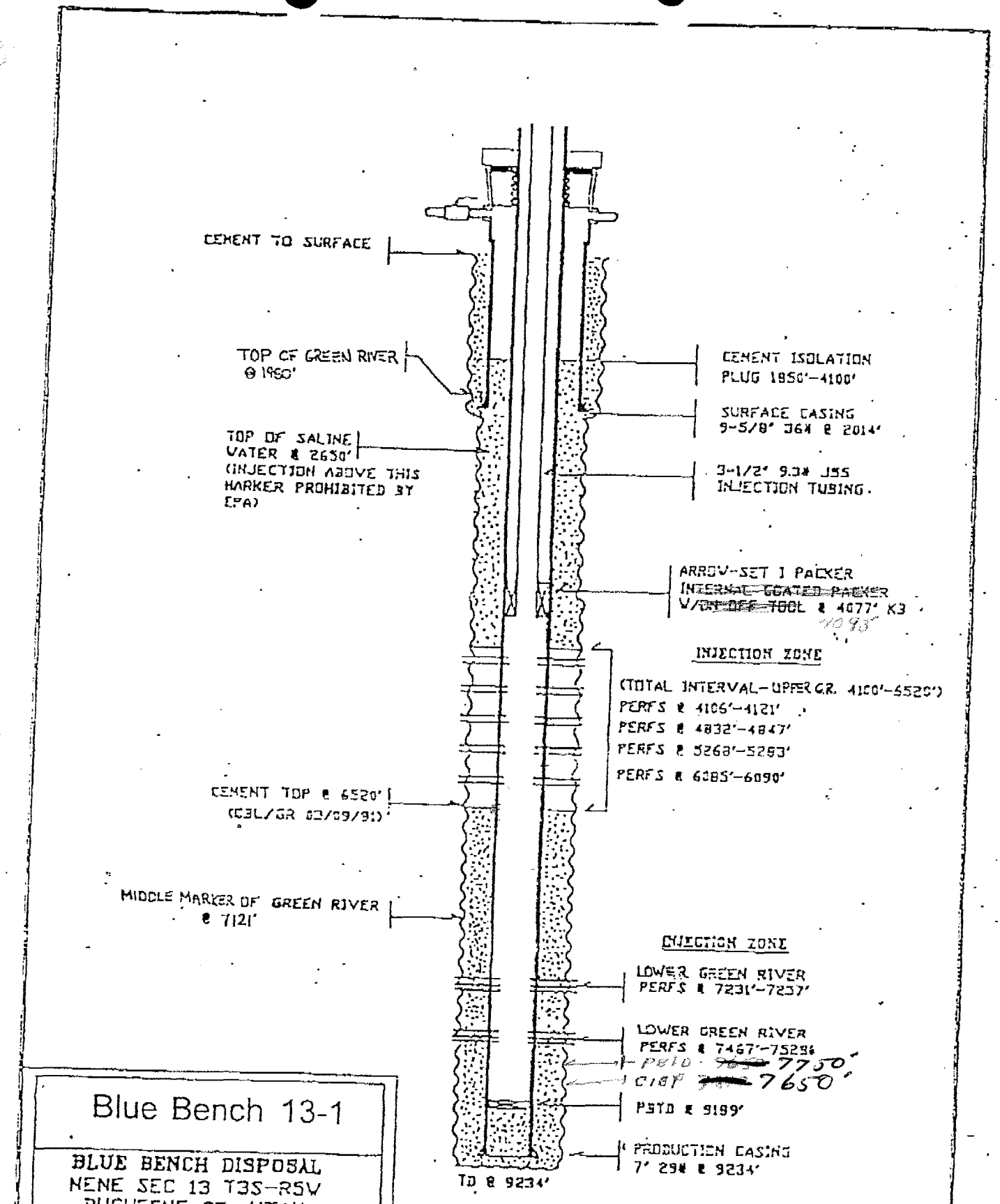


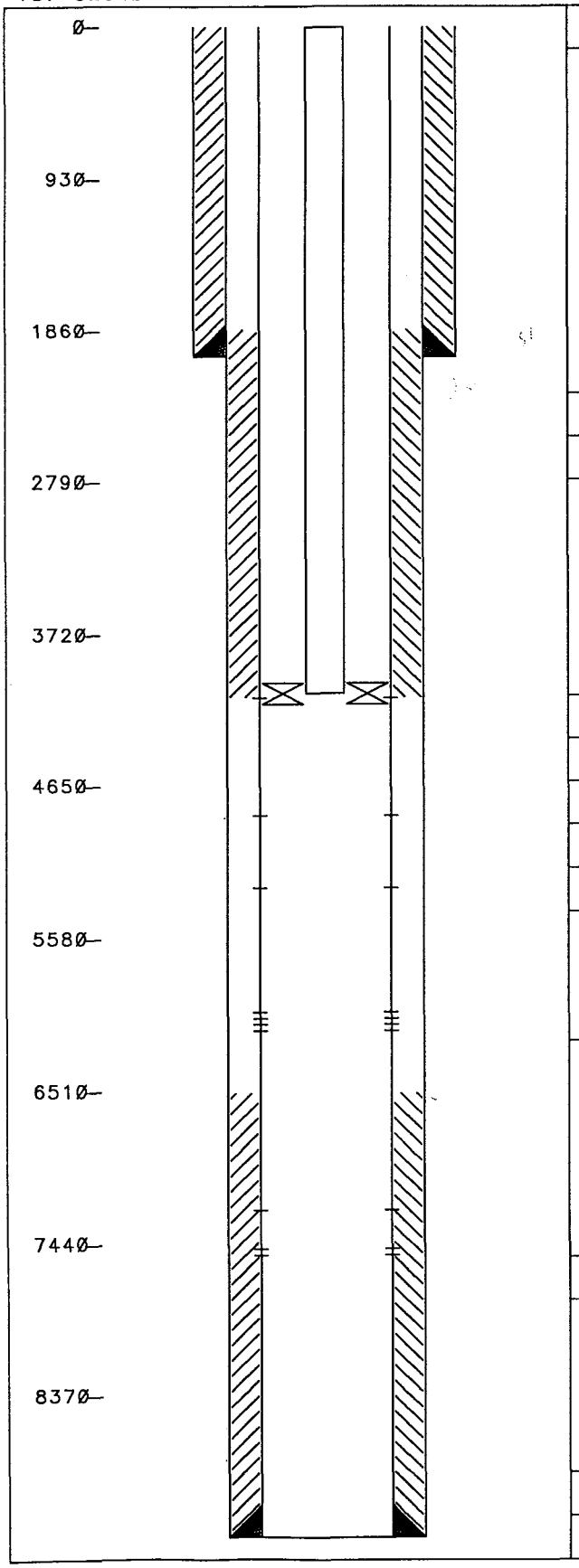
Figure 6A: Schematic

Lease:FEE
Well #:13-1

Spud Date: 07/13/1981
KB: 0
TD: 92340

Comp Date: 10/16/1991
ELEV: 5898
PBTD: 0

API #: 43-013-30971-
Location: Sec 13 Twn 3S Rng 5W
County: DUCHESNE
State: UT
Field: ALTAMONT
Operator: GENESIS



Start	End	Size / Length	Description
0.0	2014.0	12.250 / 2014.0	Hole: SURFACE
0.0	2014.0		Cement: 820 SXS
0.0	2014.0	9.625 / 2014.0	Casing: SURFACE
0.0	4077.0	3.500 / 4077.0	Tubing: J55
4077.0	4082.0	7.000 / 5.0	Packer: ARROW-SET I
1850.0	4100.0	2250.0	Cement: 715 SXS
4106.0	4121.0	15.0	Perf: L. UINTA
4832.0	4847.0	15.0	Perf: L. UINTA
5268.0	5283.0	15.0	Perf: L. UINTA
6085.0	6090.0	5.0	Perf: L. UINTA
7231.0	7257.0	26.0	Perf: U. GREEN RIVER
7467.0	7528.0	61.0	Perf: U. GREEN RIVER
2014.0	9234.0	8.750 / 7220.0	Hole: PRODUCTION
6520.0	9234.0	2714.0	Cement: 435 SXS
0.0	9234.0	7.000 / 9234.0	Casing: PRODUCTION

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [XX] GAS WELL [ ] OTHER

5. LEASE DESIGNATION AND SERIAL NO: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Gavilan Petroleum, Inc.

8. FARM OR LEASE NAME: North Duchesne

3. ADDRESS OF OPERATOR: 3030 South Main, Suite 500 Salt Lake City, UT 84115

9. WELL NO.: 13-1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NE/4 NE/4 Sec. 13, T3S, R5W

10. FIELD AND POOL, OR WILDCAT: ALtamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 13, T3S, R5W

14. PERMIT NO.: 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Change of Operator			[X]
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Be advised that Genesis Production Company is considered to be the operator of the North Duchesne #13-1 well; NE1/4 NE1/4 Section 13, Township 3 South, Range 5 West, Duchesne County, Utah; and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands upon posting the necessary bond.

Effective 3/22/91

Genesis Production Company
1675 Broadway, Suite 2340
Denver, CO 80202

(303) 825-1916

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE President DATE 3/22/91

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NOTIFICATION AFFIDAVIT

I CERTIFY THE ATTACHED LIST OF INDIVIDUALS AND COMPANIES HAVE BEEN NOTIFIED OF THE REQUEST BY GENESIS PRODUCTION COMPANY TO CONVERT THE PAIUTE WALKER #13-1 TO A CLASS II DISPOSAL WELL. NOTIFICATIONS WERE SENT VIA REGUALR FIRST CLASS MAIL ON MARCH 19,1991. THE LIST IS BELIEVED TO BE ACCURATE AND COMPLETE AND INCLUEDS ALL OPERATORS, SURFACE OWNERS, AND MINERAL OWNERS WITHIN A ONE HALF MILE RADIUS OF THE WELLBORE.

JOHN D. STEUBLE

AGENT

NOTARY PUBLIC
STEPHEN J. BURTON
7354 West Gettysburg
Magna, UT 84044
My Commission Expires
Nov. 3, 1993
STATE OF UTAH

Stephen J Burton
March 19, 1991

Capital Gardens Inc.
P.O. Box 9356
Salt Lake City, UT 84109

Lawrence McPeake
22185 Center, #53
Castro Valley, CA 94541

Burton O. Parker
6416 E. Washington
Las Vegas, NV 89110

Glendon E. Steiner
345 East 300 South
Salt Lake City, UT 84111

Rex N. Worthen
2294 East 2700 South
Salt Lake City, UT 84109

Q. Perry Hislop
660 South 200 East, Suite 306
Salt Lake City, UT 84111

Ellisa Molling
243 West 400 North
Orem, Utah 84057

Isidro Jiminez
4005 White Lane
Bakersfield, CA 93309

Greenwood Holding Company
Old river Road
Duchesne, UT 84021

Stephen K. Greenwood, as Trustee of the Jennie
B. Greenwood Family Trust
Old River Road
Duchesne, UT 84021

Stephen K. Greenwood
Doris W. Greenwood
Old River Road
Duchesne, UT 84021

ANR Production Company
600 17th Street, Suite 800
P.O. Box 749
Denver, CO 80201

CSX Oil and Gas Corporation
909 Fannin
Houston, TX 77010

Convest Production Company
2401 Fountain View, Suite 700
Houston, TX 77057

Forcenergy
640 Sunset Circle
Key Biscayne, FL 33149

G.I.D. Energy Development Company
965 East 4800 South, Suite 35
Salt Lake City, Utah 84117

Texas Gas Exploration Corporation
909 Fannin, Suite 2000
Houston, TX 77010

Lehndorf/LGB Minerals, Inc.
2501 Cedar Springs
Dallas, TX 75201

Covey Minerals, Inc.
3000 Conner Street, #13
Salt Lake City, UT 84109

First Interstate Bank
P.O. Box 30169
Salt Lake City, UT 84142

Croff Oil Company
216 Kearns Bldg.
Salt Lake City, UT 84111

Edwin J. Gregson
10889 Wilsher Blvd.
Los Angelos, CA 90807

Michael P. McDermott
1116 LaDera Dr.
Long Beach, CA 90807

Calvin P. Gaddis
1511 Jaren Circle
Salt Lake City, UT 84119

TST Partnership
216 Kearns Bldg.
Salt Lake City, UT 84111

Seneca Oil Company
216 Kearns Bldg.
Salt Lake City, UT 84111

Sabine Corporation
(Investors Royalty)
1309 Thompson Bldg.
Tulsa, OK 74103

The Wiser Oil Company
P.O. Box 192
Sisterville, WV 26175

John B. Milam
P.O. Box 26
Chelsea, OK 74016

William G. Milam II
P.O. Box 26
Chelsea, OK 74016

R.W. Slemaker
P.O. Box 3736
Tulsa, OK 74103

Evan B. White
4180 Santa Rita Rd.
El Sabrante, CA 90807

Elmer B. White
179 E. 2nd North
Spanish Fork, UT 84660

Leona White Bradford

890 S. Main
Spanish Fork, UT 84660

Pearl White Stott
3210 N. 175 E.
Provo, UT 84602

Mae White Keenan
4602 Fulton
Sherman Oaks, CA 90807

Norita B. White Hennings
P.O. Box 579
Burnie, Tasmania Australia

Lawrence E. Humberstone
1116 Dodson
El Monte, CA 90807

Alta K. Rowe, Trustee
of the Alta K. Rowe Trust
3112 Aloma
Wichita, KS

Keldon Oil Company
P.O. Box 6129
Abilene, TX 79608

Ladd Petroleum Corp.
370 17th Street, Suite 1700
Denver, CO 80202

Walter Duncan Heirs
1777 S. Harrison St.
Denver, CO 80210

Club Oil & Gas Ltd.
1777 S. Harrison St.
Denver, CO 80210

Raymond T. Duncan
1777 S. Harrison St.
Denver, CO 80210

The City of Duchesne
165 S. Center St.

Duchesne, Utah 84066

Clive Johnson & Mary D. Johnson
1343 S. 600 East
Salt Lake City, UT 84102

Patricia Ann Peterson
P.O. Box 1166
Afton, WY 83110

Mamie Boyland
245 N. 400.
Logan, UT 84321

Dixie Ann Mecham
Whitaker Burtoft
1231 E. 300 South
Salt Lake City, UT 84105

Leonard W. Sjoberg
Florence T. Sjoberg
1430 Kensington Ave.
Salt Lake City, UT 84105

John E. Lawton or
Amy S. Lawton
P.O. Box 3273
Englewood, CO 80155

Richard L. Stimson
2728 Highland Drive, #5
Salt Lake City, UT 84106

Cloyd Goates
P.O. Box 90
Salt Lake City, UT 84110

John R. Zackrison
1516 Caterbury Dr.
Salt Lake City, UT 84108

Brigham Young University
F.L. Orton Asst. Treasurer
D-148 ASB
Provo, UT 84602

Richard D. Ruckenbrod
57 W. 200 S., Suite 400
Salt Lake City, UT 84101

Robert C. Rodman
P.O. Box 680711
Park City, UT 84068

Ernest V. Fritz
113 27th St.
San Diego, CA 92102

Garth Bischoff
3140 Bermuda Dr.
Costa Mesa, CA 92626

John R. Matthews
919 Jefferson St.
Montpelier, ID 83254

D'Anne Keys
4347 South 1100 East
Salt Lake City, UT 84117

Georgia Mouritsen
3980 South 2700 West
Salt Lake City, UT 84119

Garnet T. Rich
1336 E. 17th South
Salt Lake City, UT 84010

Robert M. Whitman
770 Rosewood Lane
Layton, UT 84041

Pearl S. Schmoll
946 W. Marshall Blvd.
San Bernadino, CA 92405

Rubie S. Mattes
946 W. Marshall Blvd.
San Bernadino, CA 92405

Portia Winget
699 N. 1st West
Richfield, UT 84701

Herman W. Miller
3939 South State
Salt Lake City, UT 84107

J.O. Evans
2616 Wellington Ave.
Salt Lake City, UT 84010

Margery E. Evans
2616 Wellington Ave.
Salt Lake City, UT

Alice Kathleen Kelly
1209 Cheyenne Ct.
Boulder City, NV 89005

William R. Stockdale
2540 Eccles
Ogden,UT 84401

Mark L. Schoenfield, Jr.
3746 Market Street
Salt Lake City, UT 84119

John Sam
Rt. 3 Box 369
Chesterton, Indiana

Sara I. Tanner
515 South 10th East
Salt Lake City, UT 84102

C.P. Pederson
257 S. 300 West
Vernal, UT 84078

Henry A. Smith
9828 Miloann St.
Temple, CA 91780

Strasser Investments
1455 Uintah Cir.
Salt Lake City, UT 84108

Ralph D. Brinton
2175 County Club Rd.
Salt Lake City, UT 84109

June J. Anderson
329 E. 1850 South
Bountiful, UT 84010

Trina Clayton
1337 Bryan Ave.
Salt Lake City, UT 84105

John R. Moritz
7936 E. Plaza Ave.
Scottsdale, AR 85253

William W. Moore
789 E. 7800 South
Midvale, UT 84047

Hugh J. Hintze
1366 E. Murray-Holliday Rd.
Salt Lake City, UT 84117

Clarice E. Blechman
P.O. Box 184
Sun Valley, Idaho 83353

Oman Investment Company
592 Howard Dr.
Sandy, UT 84070

James P. Ellis
5630 Akkey Drive, APT 4D
Lisle, IL 60532

Della S. Miller
2219 Matthew Ave N.W
Albuquerque, NM 87104

Calvin W. Jackson
2970 E. 4310 South
Salt Lake City, UT 84124

The Ute Indian Tribe
Ft. Duchesne, Utah 84066

State of Utah
Department of Transportation
4501 South 2700 West
West Valley City, UT 84119

Winona Oil Company
1760 Broadway, Suite 1219
Denver, CO 80290

R. Earl Dillman
Boston Bldg., Suite 800
9 Exchange Place
Salt Lake City, UT 84111

Russell L. Miller
1730 San Remo Dr.
Pacific Palasades, CA 92803

Mary E. Miller
1730 San Remo Dr.
Pacific Palasades, CA 92803

Joseph Harris Cohen
Ben Van der Steen
P.O. Box 3969
Anaheim, CA 92803

Martinus B. Van der Steen
Katherine Marie Van der Steen
P.O. Box 3969
Anaheim, CA 92803

Martinus B. Van der Steen
P.O. Box 3969
Anaheim, CA 92803

Hazel M. Robertson
875 Donner Way, #703
Salt Lake City, UT 84108

Glen C. Bills Properties
1945 Scenic Dr.
Salt Lake City, UT 84010

Sam Oil Co.
P.O. Box 1030
Roosevelt, Utah 84066

US Land Development
P.O. Box 9356
Salt Lake City, UT 84109

LDS Church
50 E. North Temple
Salt Lake City, UT 84111

John B. Parkin
673 Wall St.
Salt Lake City, UT 84103

Bustar Becham
P.O. Box 729
Duchesne, UT 84021

Jack D. Weaver
24183 Chowcilla Blvd.
Chowchilla, CA 93610

Lopeti Leka
1454 West 6960 South
West Jordan, UT 84084

Arthur Vroman
Old 27
Wolverine, Michigan 49799

George F. Wise
P.O. Box 135
Duchesne, UT 84021

Charlotte Snyder
2569 S. Holly Place
Denver, CO 80222

E M Henderson
40 South 900 East
Salt Lake City, UT 84010

L. Johnson
601 Guaranty Bk Bldg.
Denver, CO 80202

Jess Cheney
2040 East 4800 South
Salt Lake City, UT 84117

Lorna Stringham
269 W. 300 S.
Vernal, UT 84078

Stephen Stringham
269 W. 300 S.
Vernal, UT 84078

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL [XX] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Gavilan Petroleum, Inc.

8. FARM OR LEASE NAME: North Duchesne

3. ADDRESS OF OPERATOR: 3030 South Main, Suite 500 Salt Lake City, UT 84115

9. WELL NO.: 13-1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NE/4 NE/4 Sec. 13, T3S, R5W

10. FIELD AND POOL, OR WILDCAT: ALtamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 13, T3S, R5W

14. PERMIT NO.: 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Change of Operator			[X]
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Be advised that Genesis Production Company is considered to be the operator of the North Duchesne #13-1 well; NE1/4 NE1/4 Section 13, Township 3 South, Range 5 West, Duchesne County, Utah; and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands upon posting the necessary bond.

Effective 3/22/91

Genesis Production Company
1675 Broadway, Suite 2340
Denver, CO 80202

(303) 825-1916

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE President DATE 3/22/91

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

***See Instructions on Reverse Side**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Direct Energy, Inc.
948 E. 7145 S. #C-107
Salt Lake City, Utah 84047

State of Utah
Division of Oil Gas and Mining
3 Triad Center Suite #350
Salt Lake City, Utah 84108-1203

Re: Change of Operator
Paiute Walker #13-1
Sec 13 T3S R5W
Duchesne County,Utah

Attn: Dan Jarvis

Dear Sir:

The enclosed document is the Designation of Operator you requested for the referenced well. Please forward the information to the necessary departments which require this to be properly recorded. Genesis has secured a bond and will be forwarding this in the near future.

Should you have any questions please feel to call me at 943-8144.

Sincerely,

John D. Steuble
Agent

RECEIVED
MAR 2 5 1991
DIVISION OF
OIL GAS & MINING

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

Routing:

1- LCR	
2- ~~DTS~~ TS	
3- VLC	✓
4- RJF	✓
5- RWM	✓
6- LCR	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

XX Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 3-22-91)

TO (new operator) GENESIS PRODUCTION COMPANY
(address) 1675 BROADWAY, SUITE 2340
DENVER, CO 80202

phone (303) 825-1916
account no. N7265 (3-27-91)

FROM (former operator) GAVILAN PETROLEUM INC.
(address) 3030 SOUTH MAINE, STE 500
SALT LAKE CITY, UT 84115
JAY MEALEY, PRES.
phone (801) 466-8960
account no. N 2275

Well(s) (attach additional page if needed):

Name: PAIUTE WALKER #13-ND-1	API: 4301330971 dkl	Entity: 10812	Sec 13	Twp 3S	Rng 5W	Lease Type: FEE
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:

OPERATOR CHANGE DOCUMENTATION

lcr 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (3-25-91)

lcr 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Req. 3-27-91, has been mailed) (Rec. 3-27-91)

lcr 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: ____. (3-27-91) Application filed per letter of 3-25-91.

N/A 4. **(For Indian and Federal Wells ONLY)** The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.

lcr 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (3-27-91)

lcr 6. Cardex file has been updated for each well listed above.

lcr 7. Well file labels have been updated for each well listed above.

lcr 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (3-27-91)

lcr 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

- OVER -

ATOR CHANGE WORKSHEET (CONTINUED) Initi[illegible]each item when completed. Write N/A [illegible]item is not applicable.

ITY REVIEW

1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

ND VERIFICATION (Fee wells only)

1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond. #760064 (20,000) Surety "Continental Casualty Company"

2. A copy of this form has been placed in the new and former operators' bond files. (Upon completion of routing)

3. The former operator has requested a release of liability from their bond (yes/no) No. Today's date March 27, 1991. If yes, division response was made by letter dated _____ 19__.

ASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated 4-17 19 91, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.

N/A 2. Copies of documents have been sent to State Lands for changes involving **State leases**.

LMING

All attachments to this form have been microfilmed. Date: April 19 1991.

LING

1. Copies of all attachments to this form have been filed in each well file.

2. The original of this form and the original attachments have been filed in the Operator Change file.

MMENTS

71/34-35

Direct Energy, Inc.
948 E. 7145 S. #C-107
Salt Lake City, Utah 84047
March 19, 1991

State of Utah
Division of Oil, Gas, and Mining
3 Triad Center Suite #350
Salt Lake City, Utah 84180-1203

Re: Permit Application
Paiute Walker #13-1
Section 13 T3S R5W
Duchesne County, Utah

Dear Sir:

Genesis Production Company is requesting the attached application be approved in order to initiate a commercial water disposal operation in the referenced well. An application has also been submitted to the Environmental Protection Agency as required by the federal regulations.

The well proposed for conversion was drilled in 1984 but never completed. Genesis is in the process of being assigned as operator of the well and is securing the necessary state bonds.

If questions arise please contact me at 801-943-8144. Thank you for your prompt attention to this application.

Regards,

John D. Steuble
Agent

RECEIVED
MAR 19 1991
DIVISION OF
OIL GAS & MINING

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

March 25, 1991

Uintah Basin Standard
268 South 200 East
Roosevelt, Utah 84066

Gentlemen:

Re: Cause No. UIC-124

Enclosed is a Notice of Agency Action before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

Lisa D. Clement

Lisa Clement
Administrative Secretary
Oil and Gas

ldc
Enclosure
HOI5/2

an equal opportunity employer

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

March 25, 1991

Newspaper Agency Corporation
Legal Advertising
157 Regent Street
Salt Lake City, Utah 84110

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Lisa D. Clement

Lisa Clement
Administrative Secretary
Oil and Gas

ldc
Enclosure
HOI5/3

an equal opportunity employer

MICROFILMED

Genesis
PRODUCTION COMPANY

March 25, 1991

Division of Oil, Gas & Mining
State of Utah
Ms. Lisha Romero
3 Triad Center Suite 350
Salt Lake City, Utah 84180-1203

RECEIVED
MAR 27 1991
DIVISION OF
OIL GAS & MINING

Re: Paiute - Walker ND #13-1
NeNe Section 13 T3S-R5W
Duchesne Co., Utah
Change of Operator

Dear Ms. Romero;

Pursuant to our telephone conversation this morning, enclosed is the required performance bond for the referenced well. Please be aware that this bond is being submitted in conjunction with a change of designated operator from Gavilan Petroleum, Inc. to Lynch - Wendt Management Services, Inc. dba Genesis Production Company. I understand that Gavilan has submitted the required Designation of Operator form.

We have contacted the Utah Department of Commerce and submitted the required application for registration of a foreign corporation.

Should you need additional information to complete this change, please contact me at (303) 825-1916.

Sincerely,

David D. Wendt
President

1675 Broadway, Suite 2340 • Denver, Colorado 80202 • (303) 825-1916

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL [X] GAS WELL [ ] OTHER: Cased & TA Well

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Lynch-Wendt Management Service, Inc. dba Genesis Production Co.

8. FARM OR LEASE NAME: Paiute-Walker

3. ADDRESS OF OPERATOR: 1675 Broadway, Suite 2340, Denver, CO 80202

9. WELL NO.: 13-1-ND

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NENE Sec. 13, T3S-R5W

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 13, T3S-R5W

14. PERMIT NO.: 43-013-30971

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5898.6 GR

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Change of Ownership			[X]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Please by advised that the referenced well was purchased by Lynch-Wendt Management Service, Inc., dba Genesis Production Company.
Effective March 22, 1991.

RECEIVED
MAR 29 1991
DIVISION OF
OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE President DATE March 27, 1991

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

---ooOoo---

IN THE MATTER OF THE APPLICATION OF GENESIS PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF THE PAIUTE-WALKER 13-1 WELL LOCATED IN SECTION 13, TOWNSHIP 3 SOUTH, RANGE 5 WEST, U.S.B. & M., DUCHESNE COUNTY, UTAH, AS A CLASS II INJECTION WELL	:	NOTICE OF AGENCY ACTION CAUSE NO. UIC-124

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of Genesis Production Company for administrative approval of the Paiute-Walker 13-1 Well, located in Section 13, Township 3 South, Range 5 West, Duchesne County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R.615-10, Administrative Procedures.

The proposed intervals to be selectively perforated for water disposal are from 3760'-6420' (Lower Uinta) and 7226'-7528' (Upper Green River). The average injection pressure is estimated to be 1000 psig or less with a maximum requested injection pressure of 1650 psig. The estimated injection volume will be 4500 barrels water per day. A step rate test will be conducted within six months after initial injection to determine the fracture pressure of the injection intervals.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days of the date of publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

DATED this 25th day of March, 1991.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

R.J. Firth
Associate Director, Oil and Gas

GENESIS PRODUCTION COMPANY
Paiute-Walker #13-1
Cause No. UIC-124

Publication Notices were sent to the following:

Newspaper Agency Corporation
Legal Advertising
157 Regent Street
Salt Lake City, Utah 84110

Uintah Basin Standard
268 South 200 East
Roosevelt, Utah 84066

Genesis Production Company
1675 Broadway Suite 2340
Denver, Colorado 80202

Bureau of Land Management
170 South 500 East
Vernal, Utah 84078

Jim Walker
Environmental Protection Agency
999 18th Street, Suite 500
Denver, Colorado 80202

Ute Tribe
P.O. Box 70
Fort Duchesne, Utah 84026

Lisa D. Clement

Lisa Clement
Administrative Secretary
Oil and Gas
March 25, 1991

143 SOUTH MAIN ST.
P.O. BOX 45838
SALT LAKE CITY, UTAH 84145
FED. TAX I.D. # 87-0217663

Newspaper Agency Corporation

The Salt Lake Tribune (NA) DESERET NEWS

LEGAL ADVERTISING INVOICE

CUSTOMER'S COPY

RECEIVED
APR 16 1991
DIVISION OF
OIL GAS & MINING

COPY

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	BILLING DATE
DIV. OF OIL, GAS/MINING 355 W. N. TEMPLE, #350 SALT LAKE CITY, UT 84180	LE-5385340	04/09/91

FOR BILLING INFORMATION
CALL (801) 237-2822

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF NOTICE OF AGENCY ACTIONCAUSE NO. UIC-124BEFOR FOR DIV. OF OIL, GAS/MINING WAS PUBLISHED BY THE NEWSPAPER AGENCY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCURATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON APR 09 1991

SIGNATURE Kim Lubbers

DATE 04/09/91

NOTARY PUBLIC
KIM LUBBERS
143 South Main
Salt Lake City, Utah 84111
My Commission Expires
November 15 1993
STATE OF UTAH

NOTICE OF AGENCY ACTION
CAUSE NO. UIC-124
BEFORE THE DIVISION OF
OIL, GAS AND MINING
DEPARTMENT OF
NATURAL RESOURCES
STATE OF UTAH
IN THE MATTER OF THE APPLICATION OF GENESIS PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF THE PAIUTE-WALKER 13-1 WELL LOCATED IN SECTION 13 TOWNSHIP 3 SOUTH, RANGE 5 WEST, USB & M., DUCHESNE COUNTY, UTAH AS A CLASS II INJECTION WELL
THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER
Notice is hereby given that [illegible] commencing an [illegible] cative proceeding to [illegible] the application [illegible] for [illegible] of the [illegible] well, located in [illegible] Township 3 South, [illegible] Duchesne [illegible] information to [illegible] in accordance [illegible] flood-ing.
The [illegible] to be [illegible] water [illegible] its own [illegible] a [illegible] of [illegible] this proceeding, must file a written protest or notice of intervention with the Division within fifteen days of the date of publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.
DATED: this 26th day of March, 1991
STATE OF UTAH
DIVISION OF OIL, GAS & MINING
/s/ J.J. Firth
Associate Director, Oil and Gas
45710140

ACCOUNT NAME	TELEPHONE
. OF OIL, GAS/MINING	801-538-5340
SCHEDULE	AD NUMBER
PR 09 1991	45710140

UST. REF. NO.	CAPTION	MISC. CHARGES
E #UIC-124	NOTICE OF AGENCY ACTIONCAUSE NO. UIC-124BEFOR	.00

SIZE	TIMES	RATE	AD CHARGE
3 LINES 1 COLUMN	1	1.64	119.72
AND PAYABLE ON RECEIPT OF THIS INVOICE		TOTAL AMOUNT DUE	119.72

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WITH YOUR PAYMENT IN THE ENCLOSED ENVELOPE

LEGAL ADVERTISING ADV06-NT

ACCOUNT NUMBER	AD NUMBER	BILLING DATE	PAY THIS AMOUNT
LE-5385340	45710140	04/09/91	119.72

LEGAL ADVERTISING

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NEWSPAPER AGENCY CORPORATION P.O. BOX 45838 SALT LAKE CITY, UTAH 84145-0838

MAKE CHECKS PAYABLE TO:
NEWSPAPER AGENCY CORPORATION

DIV. OF OIL, GAS/MINING
355 W. N. TEMPLE, #350
SALT LAKE CITY, UT 84180

COPY

07646567610140800000000000011972187576787212519111111111111122083

UNDERGROUND INJECTION CONTROL
CLASS II TYPE D
PERMIT APPLICATION
GENESIS PRODUCTION COMPANY
Paiute-Walker #13-1

R615-5-2-2.1

Attached as separate sheet Exhibit I. No other wells within 1/2 mile radius of proposed injection well. Owners within the 1/2 mile radius attached to Exhibit I.

R615-5-2-2.2

Well was drilled during summer of 1984. Casing was run and cemented. No open hole logs were run. A Gamma Ray log was run and correlations made with a well 2 miles north.

R615-5-2-2.3

Copy of Cement Bond Log and Gamma Ray enclosed with this application.

R615-5-2-2.4

No logs previously filed with division.

R615-5-2-2.5

Casing is 7" 29# N-80 set at 9234'. Casing pressure tested to 1000 psig on March 9, 1991. Casing will be retested during perforating operations.

R615-5-2-2.6

Water produced from oil and gas wells in the Uintah Basin will be injected. Estimated daily injection will be 4500 BWPD. The maximum injection rate will be limited by the injection pressure.

R615-5-2-2.7

Water analysis for injection fluid is not αavailable until actual injection is commenced. A representative sample will be submitted within one month of initial injection.

No fluid from the proposed injection interval is available. When the injection zones are perforated the well will be swabbed and a representative water sample will be taken from the injection zones and an analysis will be submitted.

Compatibility tests will be forwarded with the injection fluid analysis. Other wells injecting in the same geologic intervals show no compatibility problems.

R615-5-2-2.8

Average injection pressure is estimated to be 1000 psig or less. Maximum requested injection pressure is 1650 psig.

R615-5-2-2.9

A step rate test will be conducted within six months of the initial injection date to determine the fracture pressure of the injection zones.

R615-5-2-2.10

Injection Interval:	7467'-7528'
Formation:	Upper Green River
Geologic Description:	Sandstone, white to light gray,very fine grain,silty,fair sorting,angular to sub rounded,argillaceous,slightly calcareous
Confining Zone (upper):	40' shale
Confining Zone (lower):	10' shale

Injection Interval:	7226'-7263'
Formation:	Upper Green River
Geologic Description:	Sandstone,light to medium gray,very fine grain,fair sorting,sub angular to sub rounded
Confining Zone (upper):	30' shale
Confining Zone (lower):	20' shale

Injection Interval:	3760'-6420'
Formation:	Lower Uinta
Geologic Description:	Sandstones,light brown to white,very fine grain,frosted,sub angular to sub rounded,slightly silty, argillaceous, slightly calcareous
Confining Zone (upper):	60' shale
Confining Zone (lower):	50' shale

R615-5-2-2.11

The conversion of the well will include placement of a 200 foot cement plug in the annular space between the well casing and the formation above the perforated injection interval. A cement bond log will be run to insure adequate bonding. Shown on Exhibit 2.

No other wells are within the 1/2 mile radius.

R615-5-2-2.12

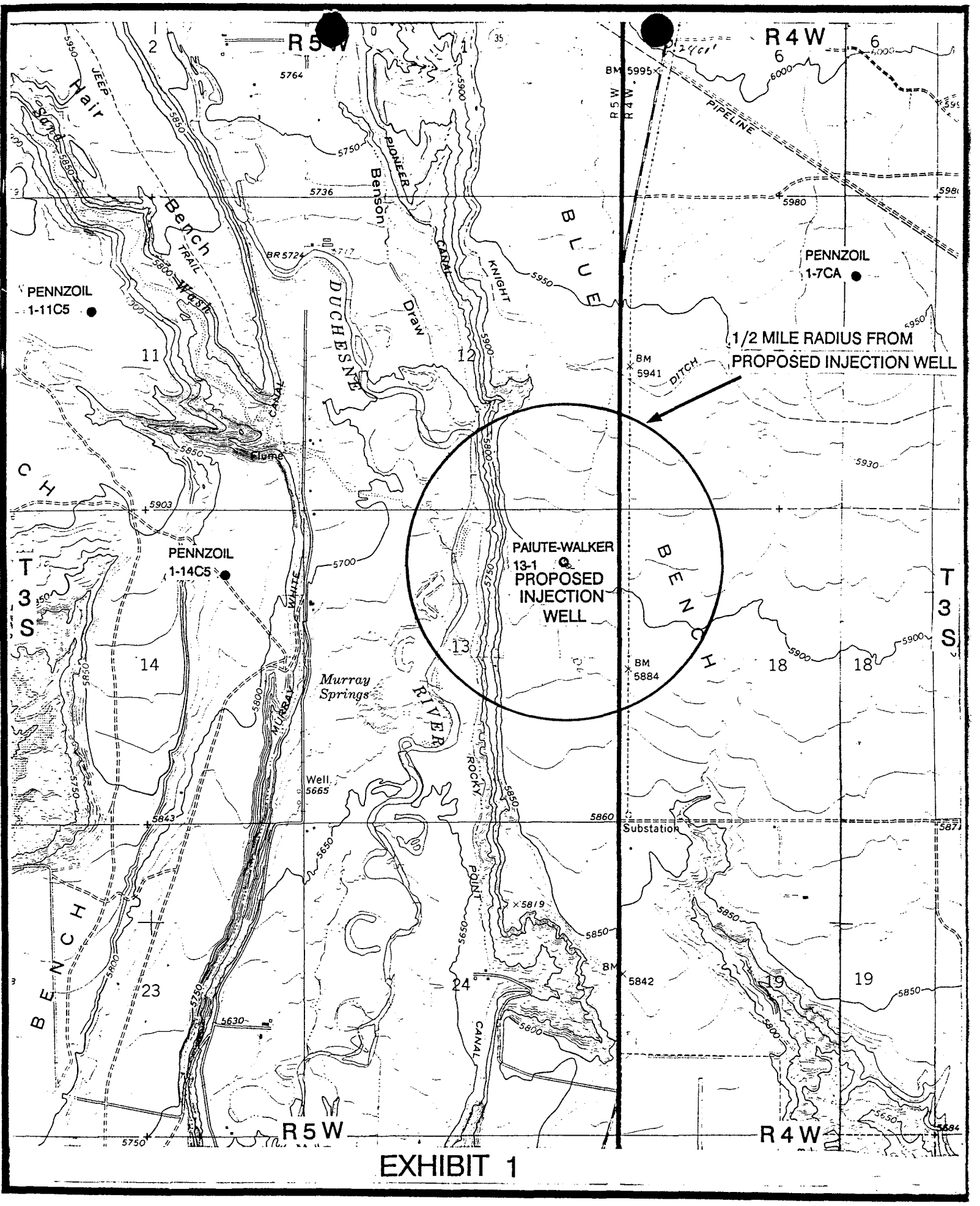
Affidavit attached.

R615-5-2-2.13

There have been no identified USDW in this area. State of Utah Department of Natural Resources Technical Publication No.92 and U.S. Geological Survey Open-File Report 87-394 states that the base of the moderately saline ground water is approximately ~~2160~~ 2468 feet from surface.

The injection water will be delivered to the facility via trucking companies either commercial or privately owned. The water will be pumped into storage tanks allowing separation of any hydrocarbons or solid materials. See Exhibit 3. The water will then be injected into the well with a triplex pump. The injection intervals will be isolated from the upper portion of the wellbore with a packer. Fresh water treated for oxygen, bacteria, and scale will be installed in the casing/tubing annular space. Liquid metering and pressure recording devices will be installed at the appropriate locations to provide accurate injection information.

In the event of a well failure such as a packer leak or tubing leak the equipment will be repaired within 30 days of discovery. In the event of a casing failure injection will be terminated immediately and the failure will be repaired prior to resuming injection.


R 5 W
R 4 W
T 3 S
PENNZOIL
1-11C5
PENNZOIL
1-7CA
PENNZOIL
1-14C5
PAIUTE-WALKER
13-1
PROPOSED
INJECTION
WELL
1/2 MILE RADIUS FROM
PROPOSED INJECTION WELL
Hair
Bench
Wash
TRAIL
JEEP
Benson
Draw
PIONEER
CANAL
KNIGHT
DUCHESNE
CANAL
Flume
WHITE
MURRAY
Murray
Springs
RIVER
ROCKY
POINT
CANAL
BLUE
BENCH
DITCH
PIPELINE
Substation
Well
5665
BM 5995
BM 5941
BM 5884
BM 5842
5764
5736
5903
5843
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5819
5980
5930
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EXHIBIT 1

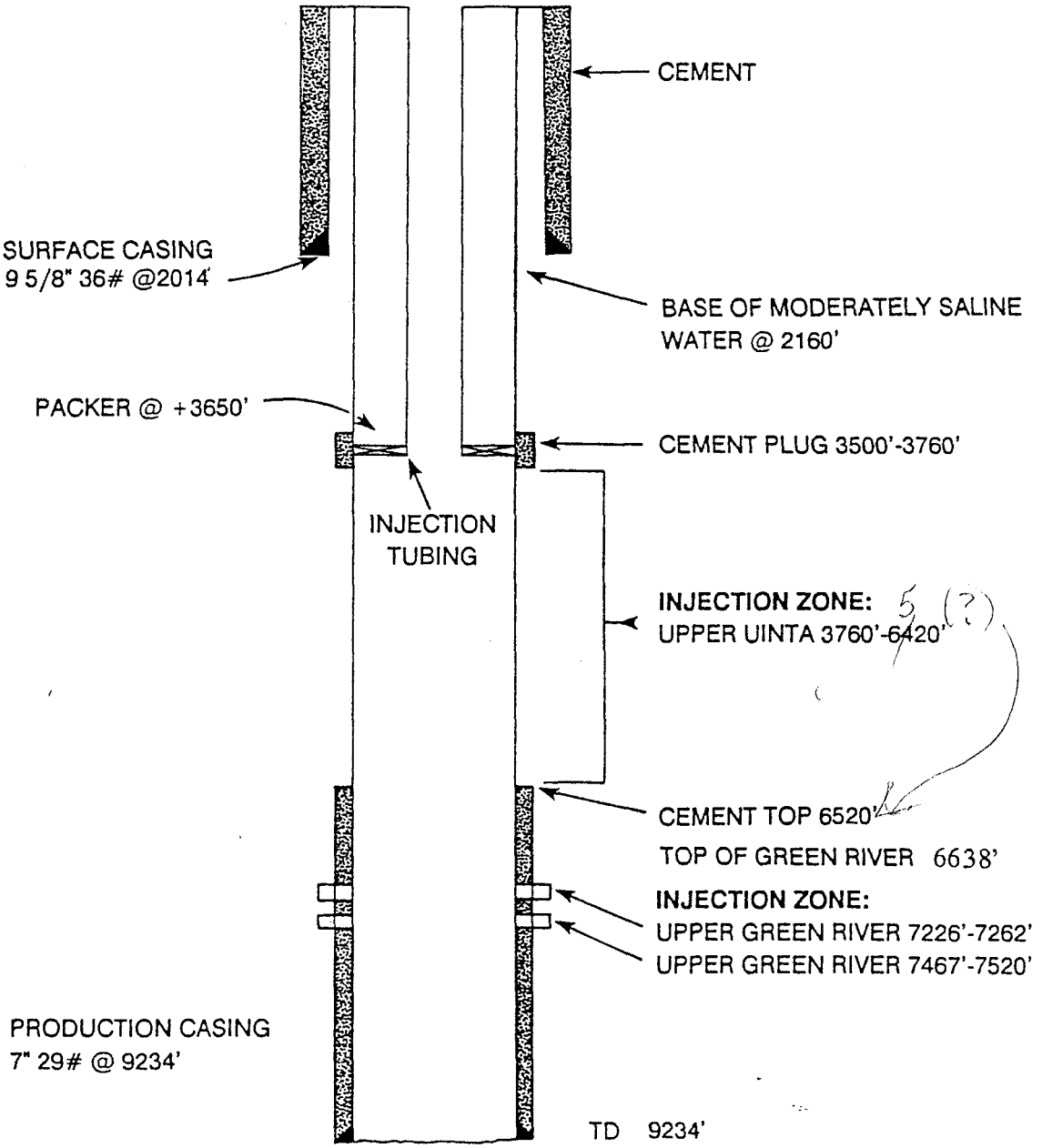

EXHIBIT 2
PAIUTE-WALKER #13-1
WELLBORE SCHEMATIC

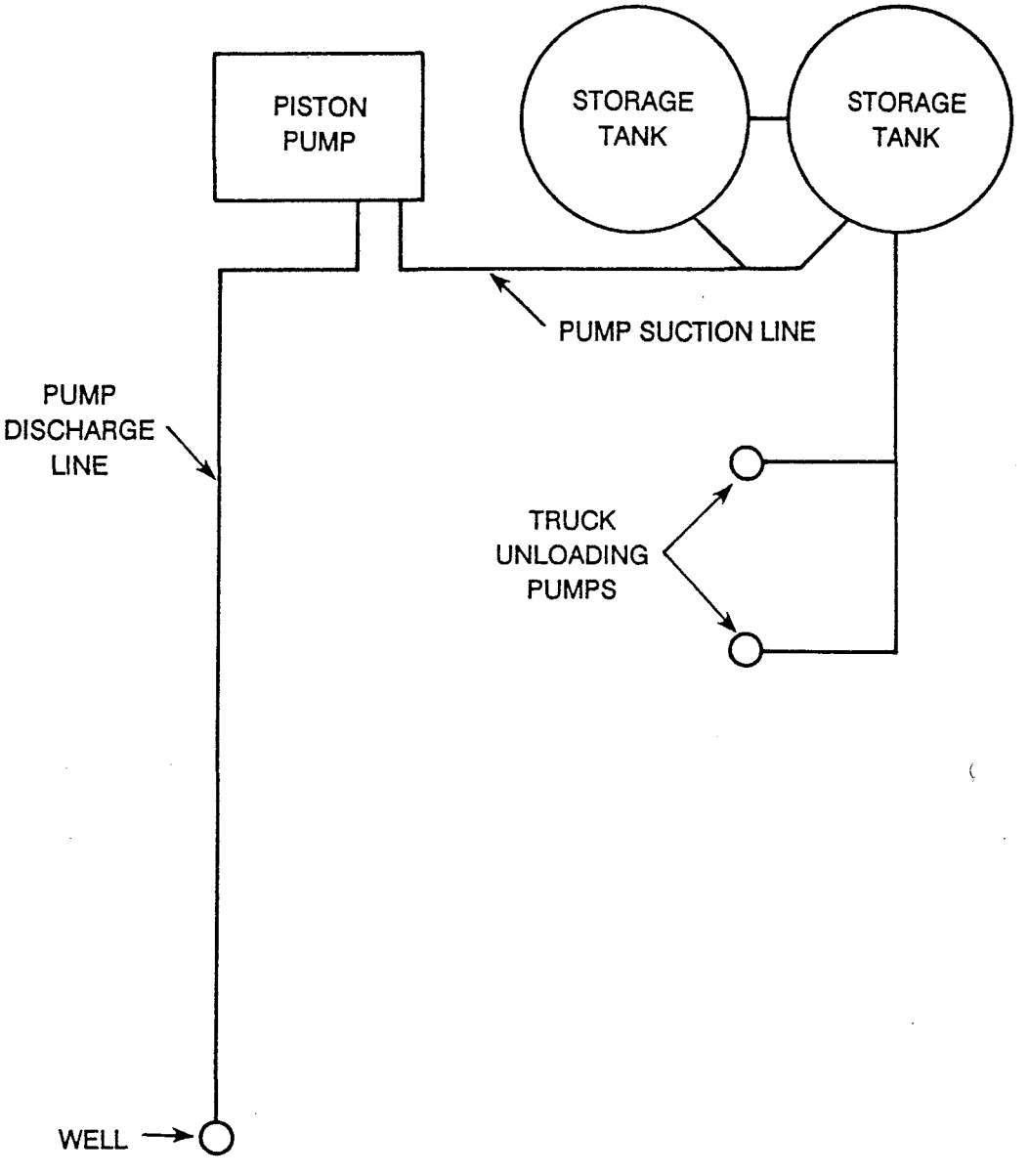

EXHIBIT 3
SURFACE FACILITY SCHEMATIC

Direct Energy, Inc.
948 E. 7145 S. #C-107
Salt Lake City, Utah 84047

State of Utah
Division of Oil Gas and Mining
3 Triad Center Suite #350
Salt Lake City, Utah 84108-1203

Re: Change of Operator
Paiute Walker #13-1
Sec 13 T3S R5W
Duchesne County,Utah

Attn: Dan Jarvis

Dear Sir:

The enclosed document is the Designation of Operator you requested for the referenced well. Please forward the information to the necessary departments which require this to be properly recorded. Genesis has secured a bond and will be forwarding this in the near future.

Should you have any questions please feel to call me at 943-8144.

Sincerely,

John D. Steuble
Agent

COPY

AFFIDAVIT OF PUBLICATION

County of Duchesne, } ss.
STATE OF UTAH }

I, Craig Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue of such newspaper for one consecutive issues, and that the first publication was on the Tenth day of April, 1991, and that the last publication of such notice was in the issue of such newspaper dated the 10 day of April, 1991.

Subscribed and sworn to before me this 10 day of April, 1991

Diane Fenn
Notary Public.

My commision expires October 1, 1994

Publication fee, $.....

DIANE FENN
NOTARY PUBLIC • STATE of UTAH
c/o UINTAH BASIN STANDARD
268 S. 200 E. ROOSEVELT, UT 84066
COMM. EXP. OCT-1-94

NOTICE OF AGENCY ACTION

BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH, IN THE MATTER OF THE APPLICATION OF GENESIS PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF THE PAIUTE-WALKER 13-1 WELL LOCATED IN SECTION 13, TOWNSHIP 3 SOUTH, RANGE 5 WEST, U.S.B. & M., DUCHESNE COUNTY, UTAH, AS A CLASS II INJECTION WELL, CAUSE NO. UIC-124.

THE STATE OF UTAH TO ALL PERSONS INTERESTED INN THE ABOVE ENTITLED MATTER.

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DATED this 25th day of March, 1991.

STATE OF UTAH, DIVISION OF OIL, GAS AND MINING

R. J. Firth, Associate Director, Oil and Gas

Published in the Uintah Basin Standard April 10, 1991.

COPY

GENESIS DISPOSAL
4 Mile Radius Wells

TWN	RNG	SEC	QTR/Q	43-013	Well	Comp	WO	Perfs
2S	4W	30	NW/NE	30220	Lawrence 1-30B4	10/18/73		10333-12441
2S		31	NW/NE	30198	Christman Blann 1-31B4	8/28/73		10409-11545
2S		32	C/NE	30308	Lindsay Russell 1-32B4	5/6/74		10309-12058
2S		33	NW/NE	30288	Griffiths 1-33B4	8/8/74		12105-11512

GENESIS DISPOSAL
4 Mile Radius Wells

TWN	RNG	SEC	QTR/Q	43-013	Well	Comp	WO	Perfs
3S	4W	3	SE/NW	30065	Duchesne County Tribal 1-3C4	1/7/71	10/17/89	10216-10763
3S		5	SE/NE	30532	1-5C4	11/18/80	9/15/87	9505-12216 7742-9144 NOTE: Wasatch Perfs isolated
3S		6	SW/NE	30573	Geritz Murphy 1-6C4	9/27/81	11/25/90	10564-10780 8107-8790 NOTE: CIBP @ 8970 ON 11/25/90
3S		7	C/NE	30116	Blue Bench 1-7C4	8/20/72		9804-12269
3S		9	NE/NE	30318	Duchesne County Snider 1-9C4	6/27/75		8874-8812
3S		17	NW/NE	30410	Duchesne County 1-17C4	2/3/77		4394-5560 5900-5986 NOTE: GR COMPLETION ONLY
3S		20	C/NE	30170	Ute County 1-20C4	4/16/73		7828-9598
3S		28	SW/NE	30628	County 1-28C4	6/3/82		8988-9753 NOTE: WELL P&A
3S		29	SW/NE	30087	Ute 1-29C4	1/20/72	1/11/89	8816-8845 7612-8574

GENESIS DISPOSAL
4 Mile Radius Wells

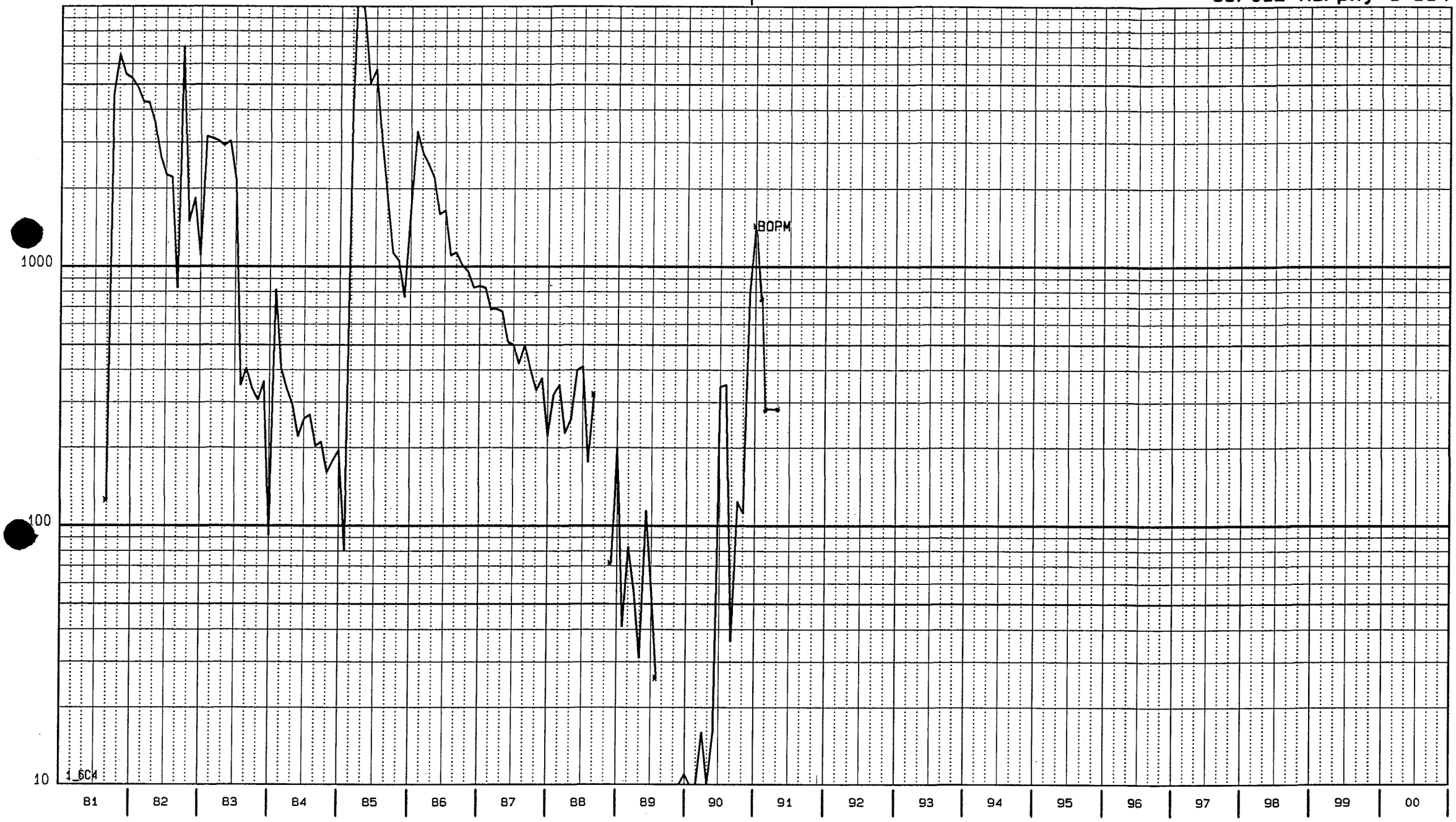
TWN	RNG	SEC	QTR/Q	43-013	Well	Comp	WO	Perfs
3S	5W	1	SW/NE	30914	Paiute Walker 1-7	10/31/84		8690-9745 9973-89 9991-97 10011-17 10034-40 10051-57
3S		2	NW/NW	30392	Ute 1-2C5	7/15/77		9807-11635
3S		3	NE/NW	30333	Phillips Ute 1-3C5	6/27/75	6/1/88	9130-9502 9550-10690 11066-156 9576-12020
3S		4	NW/NE	30283	Voda Ute 1-4C5	7/30/74	10/25/89	9808-11829 9298-9463
3S		9	SW/NE	30316	Smith Brdhead 1-9C5	11/9/74		9577-11438
3S		10	NW/NE	30393	Shrine Hospital 1-10C5	12/22/75	11/18/77	9546-11468 8089-8690 8944-9320 9546-9895 10031-10324 10407-10812 11093-11468
3S		11	SE/NW	30402	Fortune Ute Fed 1-11C5	12/31/76	12/9/84	9464-11387
3S		14	NW/NE	30980	Smith 1-14C5	10/30/84		8866-10644
3S		15	SW/NE	30651	White 1-15C5	4/26/83	1/28/88	8867-9123 9130-10629
3S		16	SE/NW	30374	Rachel Jensen 1-16C5	12/30/75	1/17/78	9296-9672 9906-11080 5300-37 7476-8055 8225-8500 8612-9506 Note: WORKOVER UNSUCCESSFUL WELL HAS BEEN SHUT IN
3S			NE/NW	30912	Rachel Jensen 2-16C5	8/5/84		9334-11194
3S		21	NE/SW	30448	Ute 1-21C5	5/19/79		8842-9591
3S		26	SW/NE	30620	State 1-26C5	3/18/82	4/24/89	8798-9782 8112-9822

GENESIS DISPOSAL
4 Mile Radius Wells

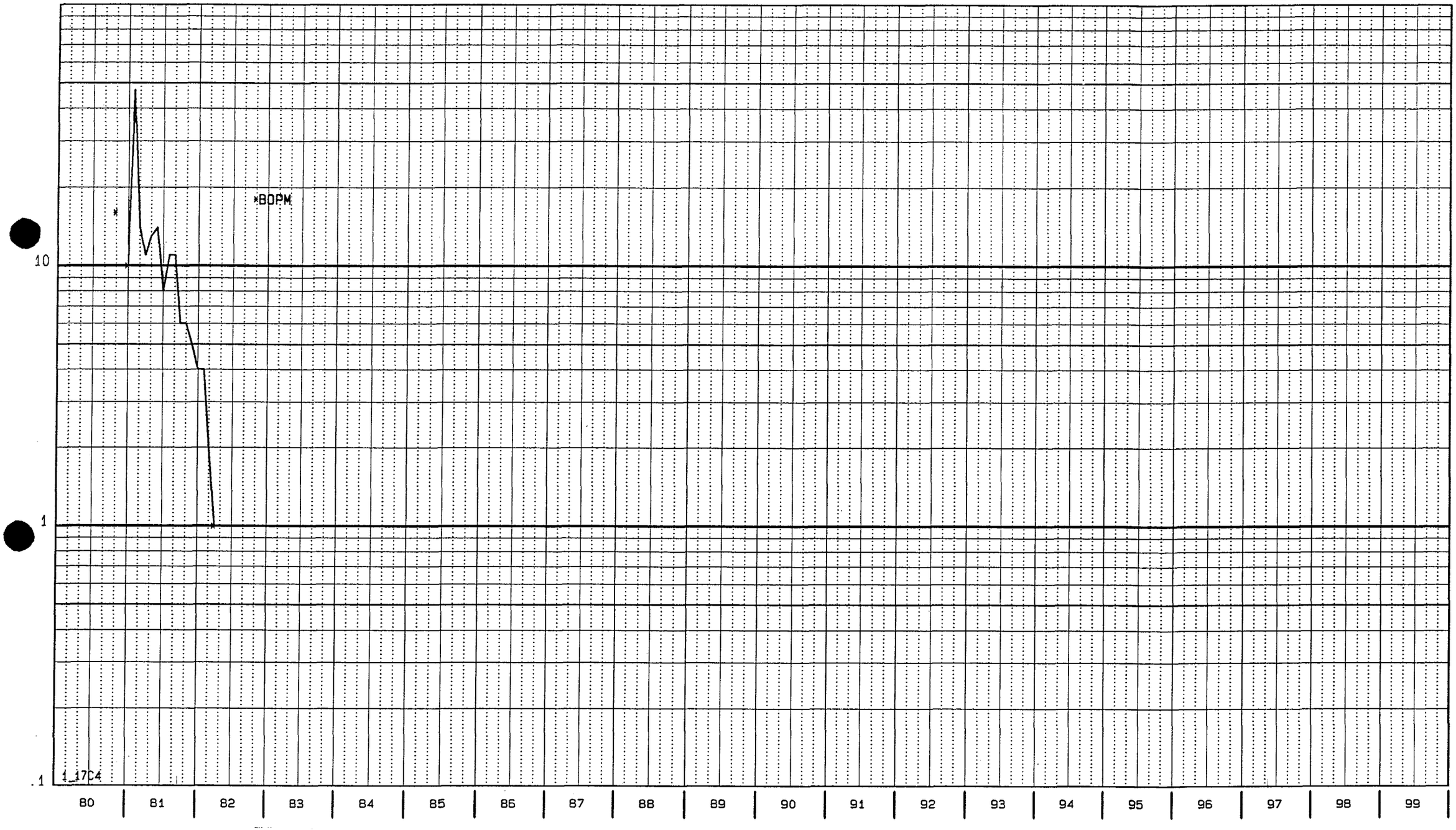
TWN	RNG	SEC	QTR/Q	43-013	Well	Comp	WO	Perfs
2S	5W	25	NE/NE	30247	Murdock 1-25B5	12/28/73		10625-12192
2S		26	SW/SW	31124	Murdock 2-26B5	12/2/85	1/14/89	10010-12756 9735-12730
2S			NW/NE	30049	Murdock 1-26B5	4/27/71	8/26/77	11155-11200 11182-12127
								10795-11095
2S		34	NE/SW	31132	Murdock 2-34B5	3/19/86		9320-12102
2S			SW/NE	30230	Murdock 1-34B5	11/21/73		9979-11603
2S		35	SE/NW	30908	Brotherson 2-35B5	6/22/84		10502-12444
2S			NE/NE	30155	Rhoades Moon 1-35B5	2/26/73		10496-11700
2S		36	NE/NE	30289	Rhoades Moon 1-36B5	7/4/74		10669-11691

→ 8107'-8790'

Gertiz Murphy 1-6C4

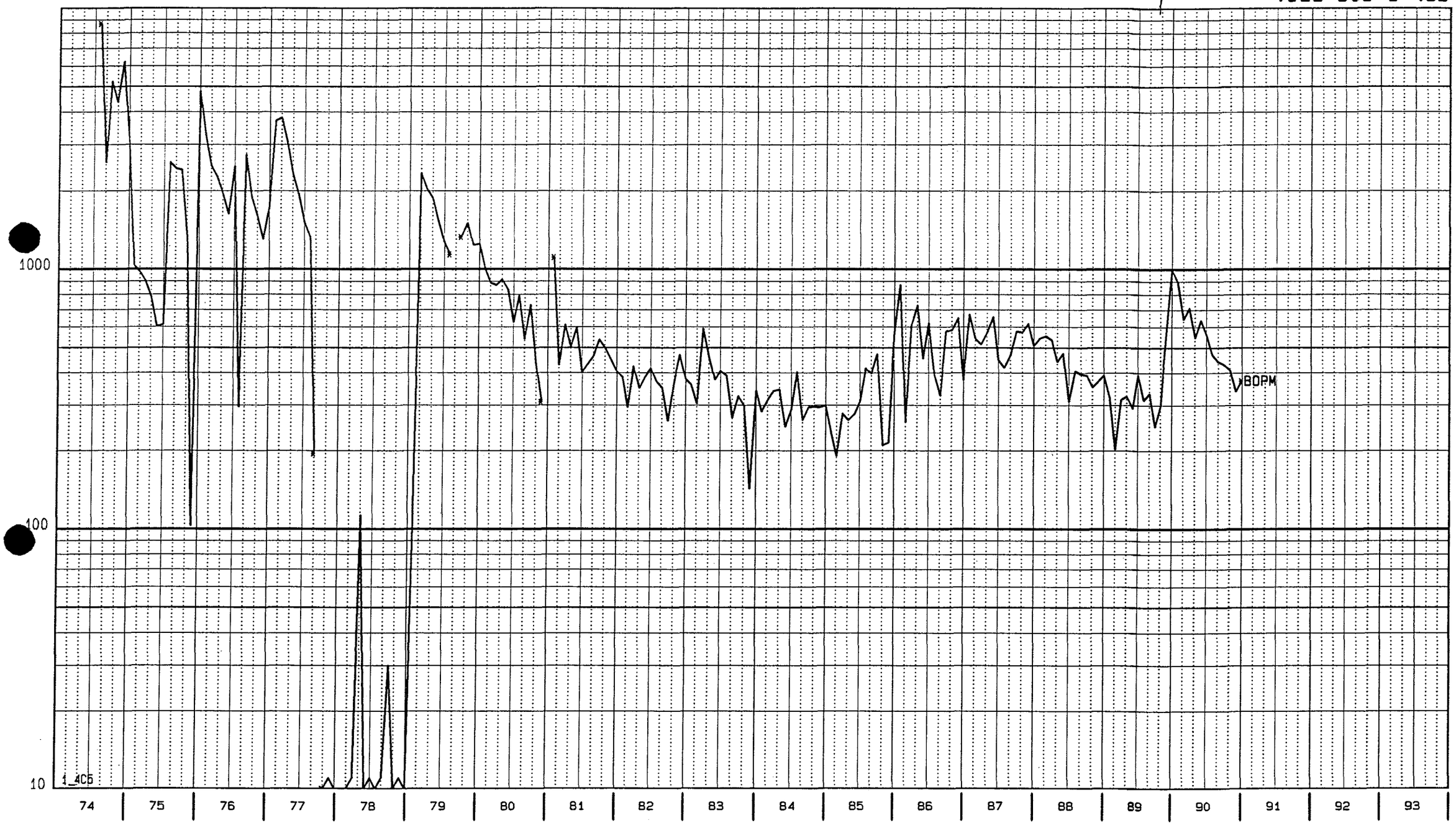


Duchesne 1-17C4

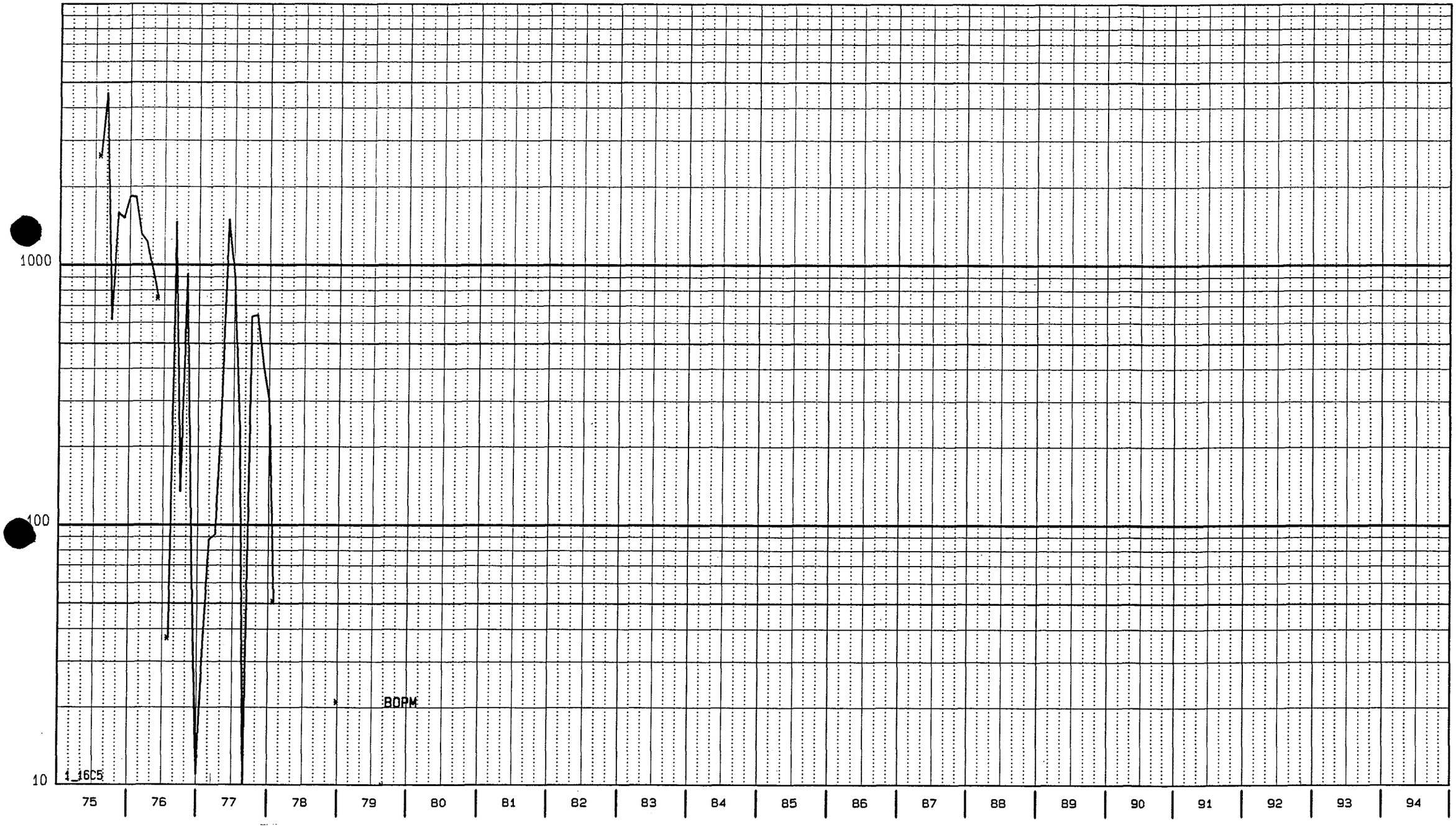


WC-929E-9432

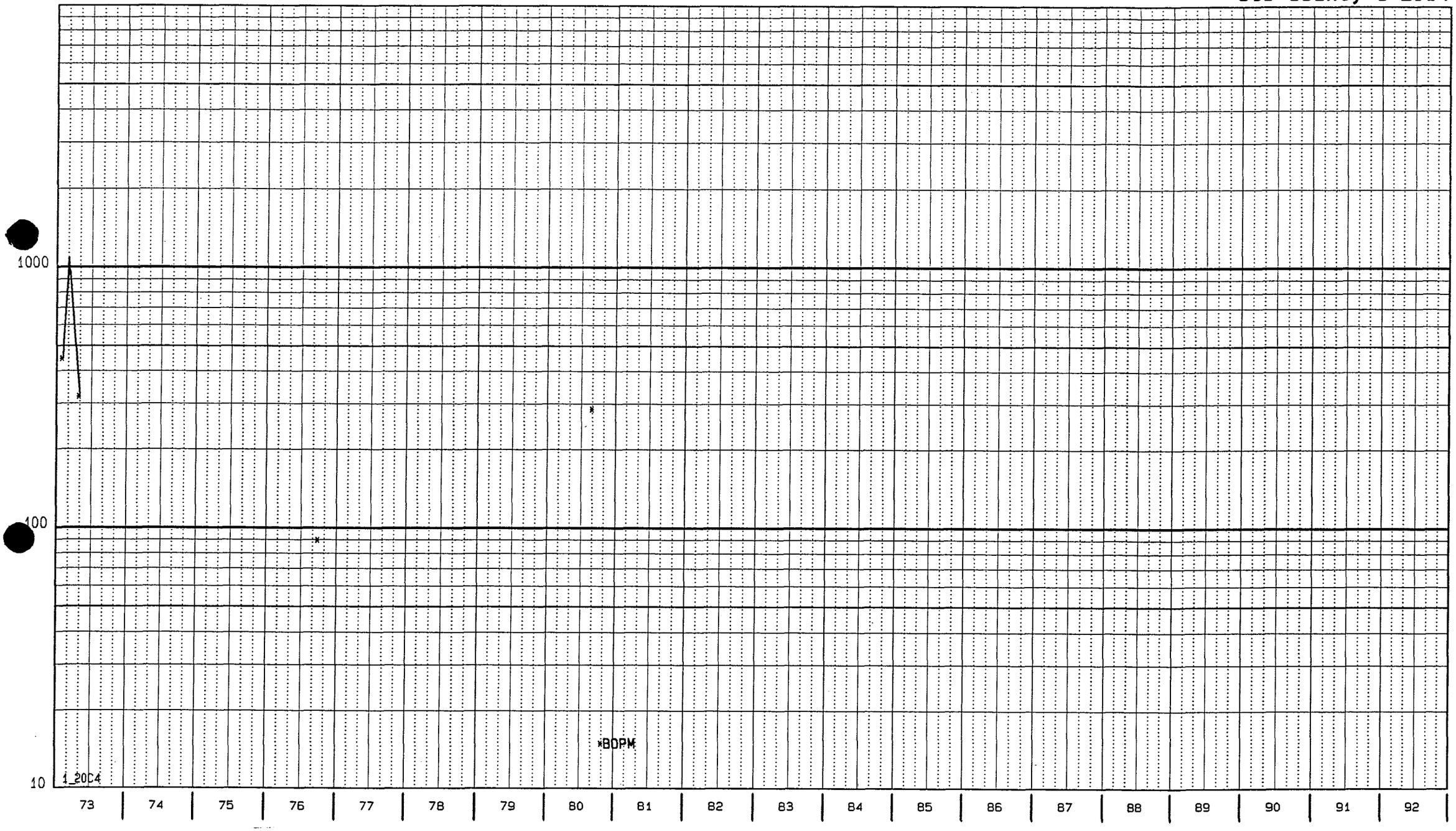
Voda Ute 1-4C5

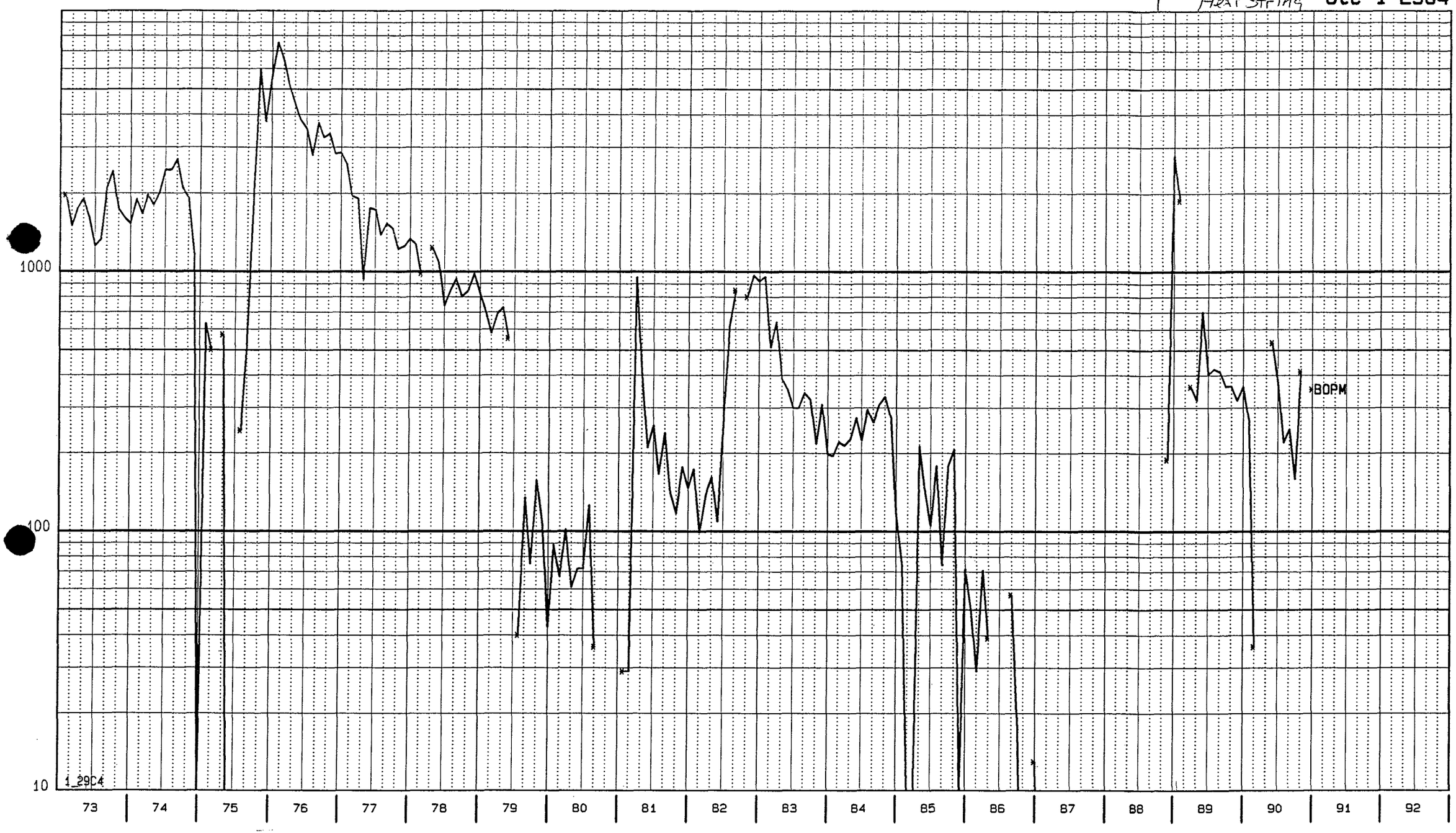


Rachel Jensen 1-16C5



Ute County 1-20C4




7612-8574'
Heat String
Ute 1-29C4
1000
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BOPM
1_29C4
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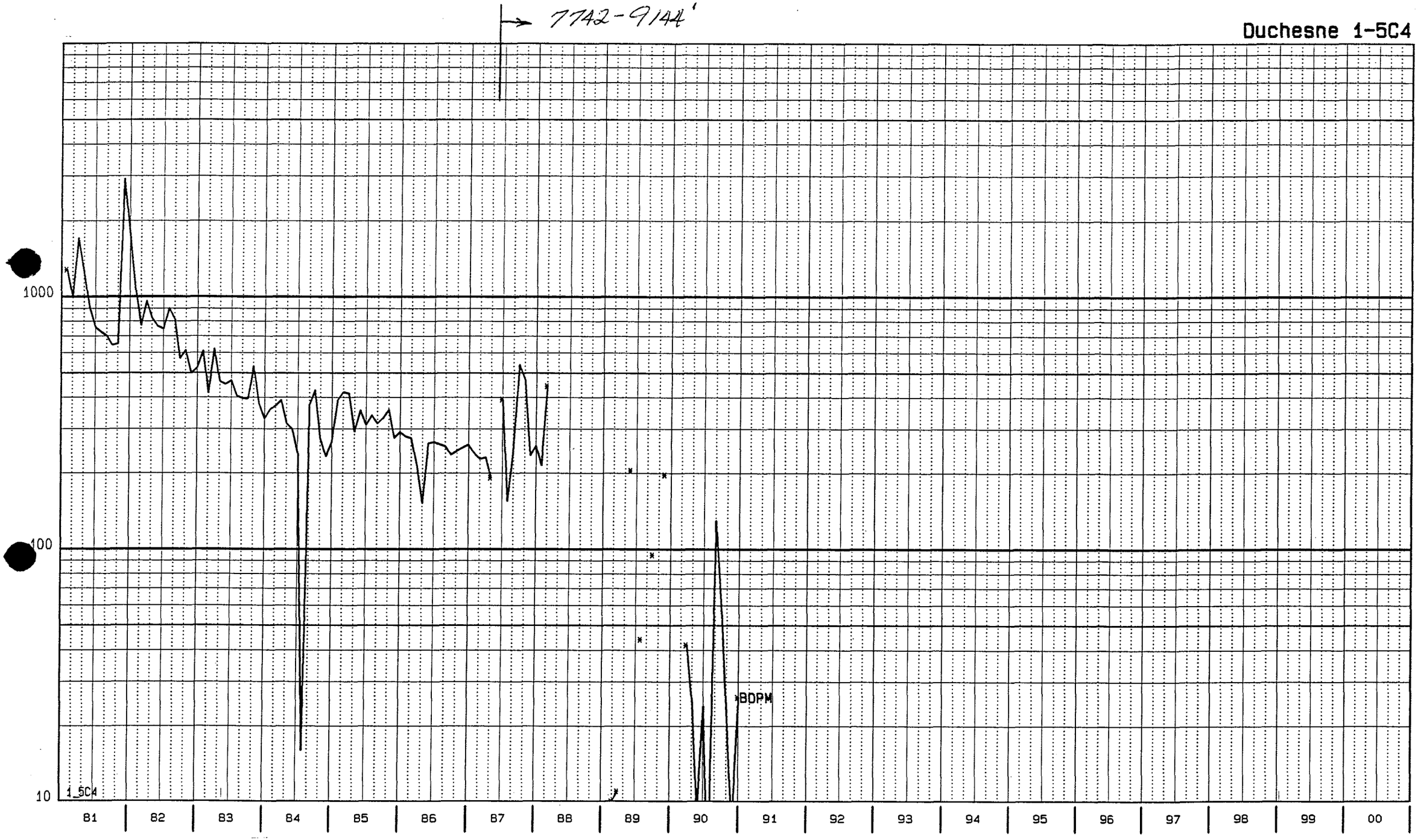
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100
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1_5C4
BDPM
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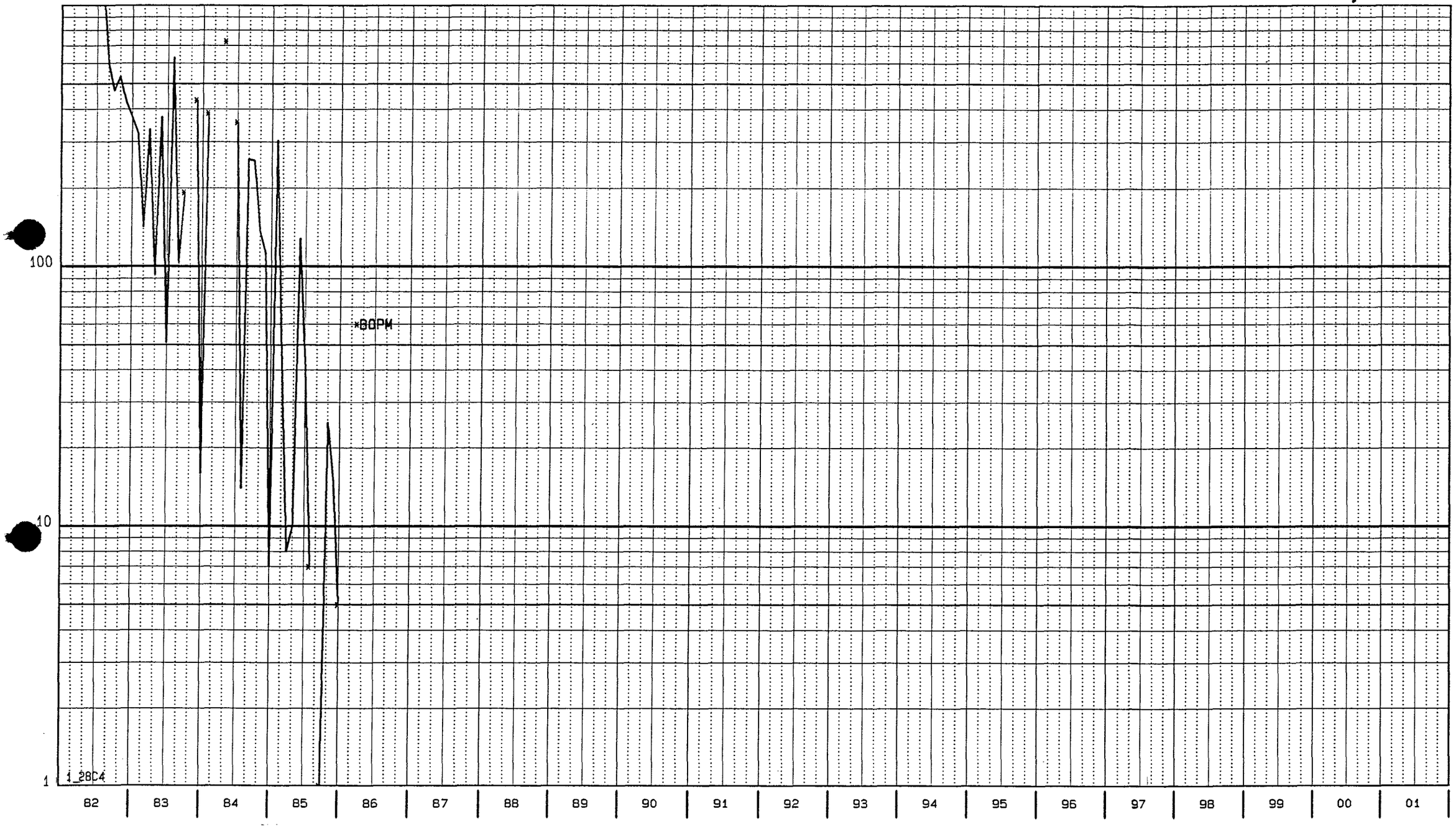
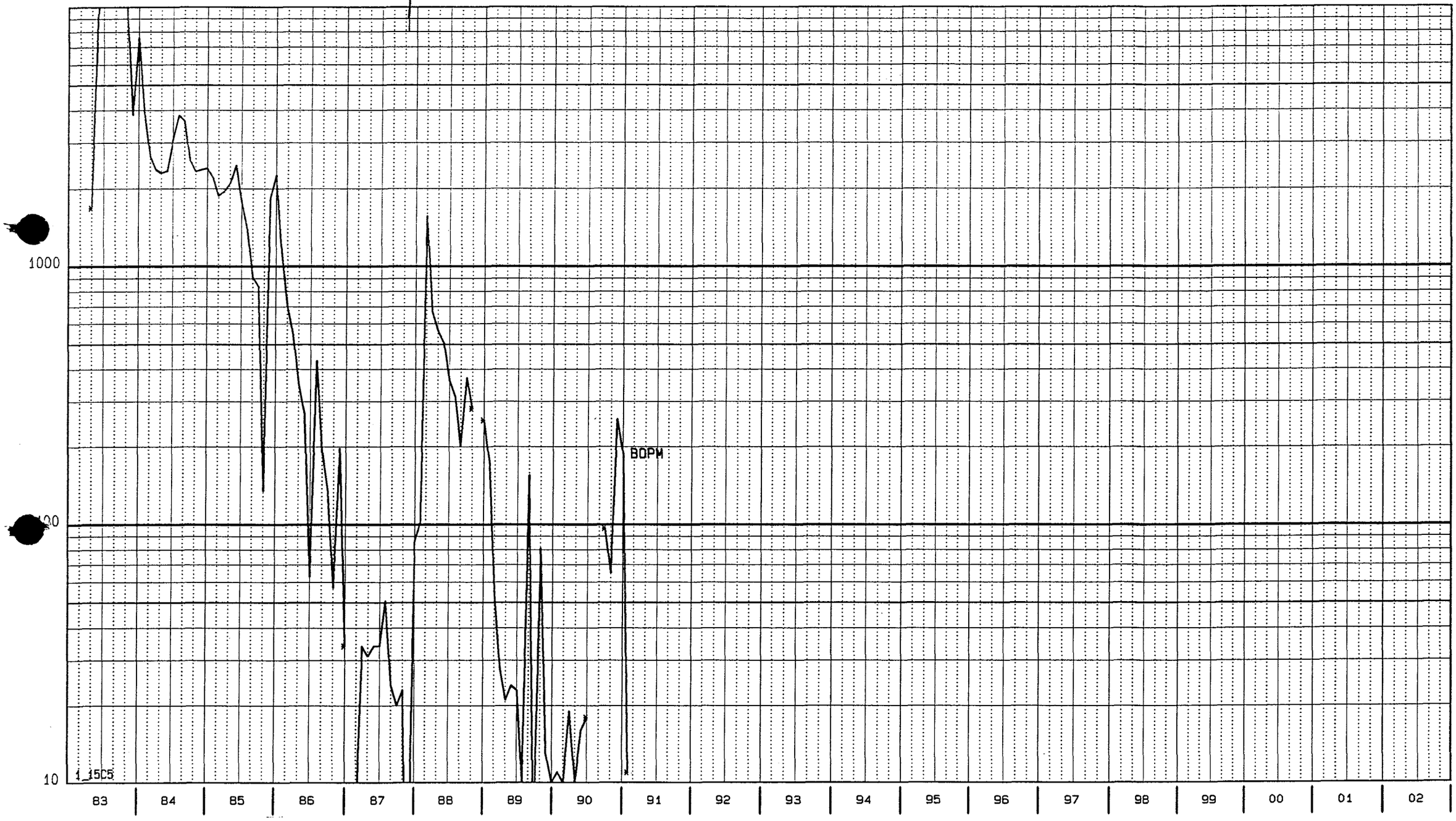
County 1-28C4



→ 8867-9704

White 1-15C5



SAM OIL INC.
P.O. Box 1030 Roosevelt, Utah 84066
Steven A. Malnar

Office
ZIONS BANK BUILDING
SUITE 3
ROOSEVELT, UTAH
Phone (801) 722-3344

April 12, 1991

J.R. Firth, Director
Oil and Gas Division

RE: Paiute Walker 13-1 Well
T3S, R5W, Duchesne Co., Utah
Class 2 Injection Well

Dear Ron,

Sam Oil is a mineral owner and also has an overriding royalty pertaining to the above referenced oil and gas well. As a mineral owner, I object to turning this well into a water disposal well. If this well had produced oil and the life of the wellbore had expired, I would have no objection.

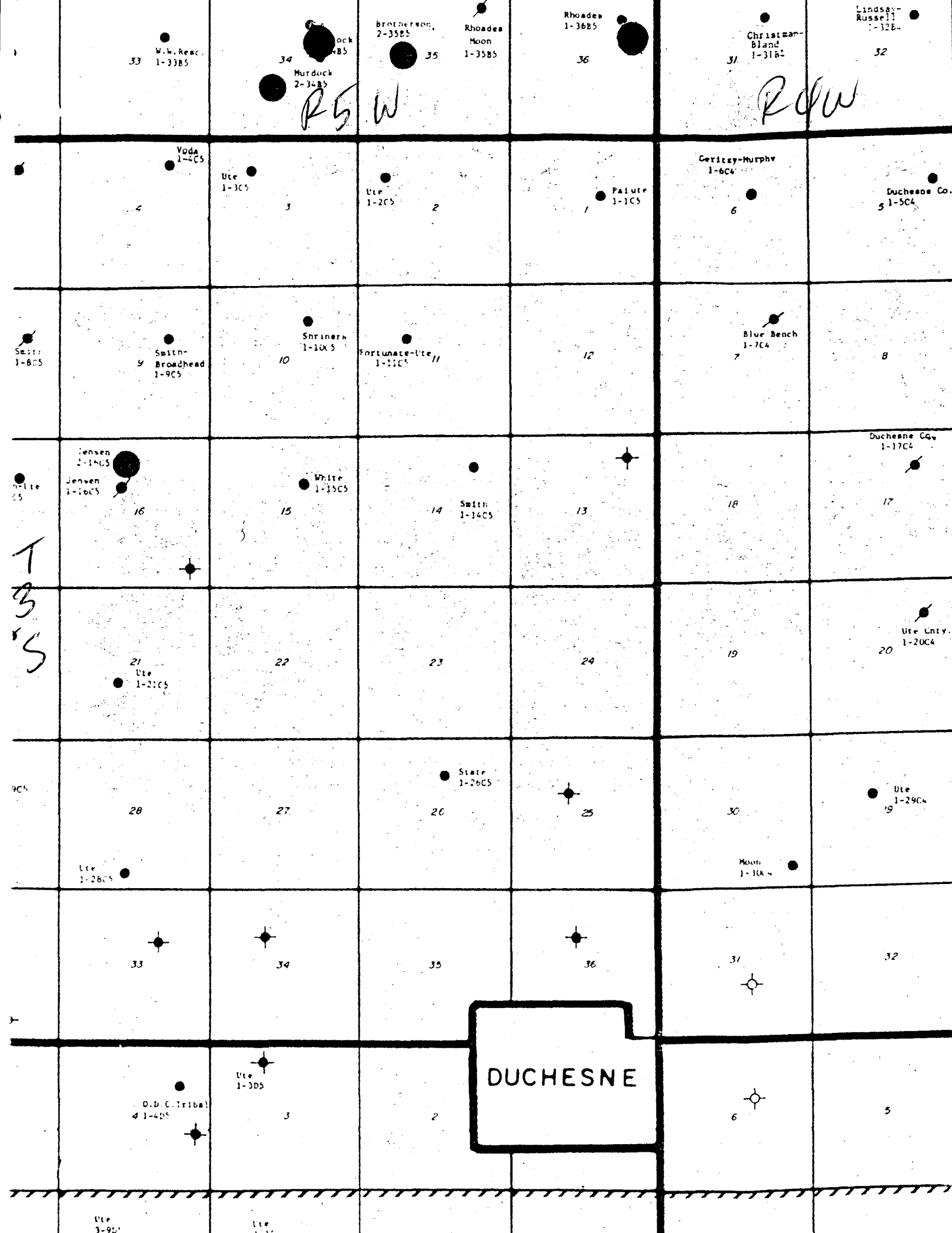
I feel there is great potential of having this well or a new well producing oil and gas. I also feel that the formation has little space for water.

A hearing must be held on this matter so all information can be discussed.

Sincerely,

Steven A. Malnar
President

RECEIVED
APR 18 1991
DIVISION OF
OIL GAS & MINING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2-35B5
Rhoades
Moon
1-35B5
Rhoades
1-36B5
Christman-
Bland
1-31B4
Lindsay-
Russell
1-32B4
Murdock
2-34B5
R5W
R6W
Voda
1-4C5
Ute
1-3C5
Ute
1-2C5
Paiute
1-1C5
Gerrity-Murphy
1-6C4
Duchesne Co.
1-5C4
Smith
1-8C5
Smith-
Broadhead
1-9C5
Shriners
1-10C5
Fortunate-Ute
1-11C5
Blue Bench
1-7C4
Jensen
2-16C5
Jensen
1-16C5
White
1-15C5
Smith
1-14C5
Duchesne Co.
1-17C4
T
3
S
Ute
1-21C5
Ute Cnty.
1-20C4
State
1-26C5
Ute
1-29C4
Ute
1-28C5
Moon
1-30C4
DUCHESNE
Ute
1-3D5
O.D.C. Tribal
4 1-4D5

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

April 17, 1991

Mr. Jay Mealey
Gavilan Petroleum, Inc.
3030 South Main, Suite 500
Salt Lake City, Utah 84115

Dear Mr. Mealey:

Re: Notification of Sale or Transfer of Lease Interest - Paiute Walker 13-ND-1 Well, Section 13, Township 3S, Range 5W, Duchesne County, Utah, API No. 43-013-30971

The division has received notification of a change of operator from Gavilan Petroleum, Inc., to Genesis Production Company for the referenced well which is located on a fee lease.

Rule R615-2-10, of the Utah Oil and Gas Conservation General Rules, requires that the owner of a lease provide notification to any person with an interest in such lease, when all or part of that interest in the lease is sold or transferred.

This letter is written to advise Gavilan Petroleum, Inc. of its responsibility to notify all individuals with an interest in this lease of the change of operator. Please provide written documentation of this notification to the division no later than May 7, 1991.

Sincerely,

Don Staley
Administrative Supervisor
Oil and Gas

ldc
cc: R.J. Firth
Well file
WOI201

an equal opportunity employer

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

dil

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Dianne R. Nielson, Ph.D.
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State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

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3030 South Main, Suite 500
Salt Lake City, Utah 84115

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Don Staley
Administrative Supervisor
Oil and Gas

ldc
cc: R.J. Firth
Well file
WOI201

an equal opportunity employer

APR 18 1991

Norman H. Bangerter
Governor
Dee C. Hansen
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Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

JMT
File
13-1

April 17, 1991

RECEIVED
MAY 16 1991
DIVISION OF
OIL GAS & MINING

Mr. Jay Mealey
Gavilan Petroleum, Inc.
3030 South Main, Suite 500
Salt Lake City, Utah 84115

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Sincerely,

Don Staley

Don Staley
Administrative Supervisor
Oil and Gas

ldc
cc: R.J. Firth
Well file
WOI201

an equal opportunity employer

GAVILAN PETROLEUM, INC.

3030 South Main, Suite 500
Salt Lake City, UT 84115
(801) 466-3960

May 15, 1991

RECEIVED
MAY 16 1991
DIVISION OF
OIL GAS & MINING

State of Utah
Division of Oil, Gas and Mining
355 West North Temple
Suite 350
Salt Lake City UT 84180-1203

Attn: Don Staley

RE: Change of Operator - Paiute Walker 13-ND-1

Per your notification by letter dated April 17, 1991, (copy attached), this letter serves as confirmation that all royalty owners in the above referenced well have been notified of the change in operator from Gavilan Petroleum, Inc. to Genesis Production Company.

For your reference, attached are copies of the mailing labels used for the royalty owners. If I can be of further assistance please advise.

Sincerely,

Bob Jewett

Bob Jewett

D'Anne Keys
4347 South 1100 East
Salt Lake City, UT 84117

Georgia Mouritsen
3980 South 2700 West
Salt Lake City, UT 84119

Garnet T. Rich
1336 E. 17th South
Salt Lake City, UT 84010

Robert M. Whitman
770 Rosewood Lane
Layton, UT 84041

Pearl S. Schmoll
946 W. Marshall Blvd.
San Bernadino, CA 92405

Rubie S. Mattes
946 W. Marshall Blvd.
San Bernadino, CA 92405

Portia Winget
699 N. 1st West
Richfield, UT 84701

Herman W. Miller
3939 South State
Salt Lake City, UT 84107

J.O. Evans
2616 Wellington Ave.
Salt Lake City, UT 84010

Margery E. Evans
2616 Wellington Ave.
Salt Lake City, UT

John E. Lawton or
Amy S. Lawton
P.O. Box 3273
Englewood, CO 80155

Richard L. Stimson
2728 Highland Drive, #5
Salt Lake City, UT 84106

Cloyd Goates
P.O. Box 90
Salt Lake City, UT 84110

John R. Zackrison
1516 Caterbury Dr.
Salt Lake City, UT 84108

Brigham Young University
F.L. Orton Asst. Treasurer
D-148 ASB
Provo, UT 84602

Richard D. Ruckenbrod
57 W. 200 S., Suite 400
Salt Lake City, UT 84101

Robert C. Rodman
P.O. Box 680711
Park City, UT 84068

Ernest V. Fritz
113 27th St.
San Diego, CA 92102

Garth Bischoff
3140 Bermuda Dr.
Costa Mesa, CA 92626

John R. Matthews
919 Jefferson St.
Montpelier, ID 83254

R.W. Slemaker
P.O. Box 3736
Tulsa, OK 74103

Evan B. White
4180 Santa Rita Rd.
El Sabrante, CA 90807

Elmer B. White
179 E. 2nd North
Spanish Fork, UT 84660

Leona White Bradford
890 S. Main
Spanish Fork, UT 84660

Pearl White Stott
3210 N. 175 E.
Provo, UT 84602

Mae White Keenan
4602 Fulton
Sherman Oaks, CA 90807

Norita B. White Hennings
P.O. Box 579
Burnie, Tasmania Australia

Lawrence E. Humberstone
1116 Dodson
El Monte, CA 90807

Alta K. Rowe, Trustee
of the Alta K. Rowe Trust
3112 Aloma
Wichita, KS

Keldon Oil Company
P.O. Box 6129
Abilene, TX 79608

Stephen K. Greenwood
Doris W. Greenwood
Old River Road
Duchesne, UT 84021

ANR Production Company
600 17th Street, Suite 800
P.O. Box 749
Denver, CO 80201

CSX Oil and Gas Corporation
909 Fannin
Houston, TX 77010

Convest Production Company
2401 Fountain View, Suite 700
Houston, TX 77057

Forcenergy
640 Sunset Circle
Key Biscayne, FL 33149

G.I.D. Energy Development Company
965 East 4800 South, Suite 35
Salt Lake City, Utah 84117

Texas Gas Exploration Corporation
909 Fannin, Suite 2000
Houston, TX 77010

Lehndorf/LGB Minerals, Inc.
2501 Cedar Springs
Dallas, TX 75201

Covey Minerals, Inc.
3000 Conner Street, #13
Salt Lake City, UT 84109

First Interstate Bank
P.O. Box 30169
Salt Lake City, UT 84142

Croff Oil Company
216 Kearns Bldg.
Salt Lake City, UT 84111

Edwin J. Gregson
10889 Wilsher Blvd.
Los Angelos, CA 90807

Michael P. McDermott
1116 LaDera Dr.
Long Beach, CA 90807

Calvin P. Gaddis
1511 Jaren Circle
Salt Lake City, UT 84119

TST Partnership
216 Kearns Bldg.
Salt Lake City, UT 84111

Seneca Oil Company
216 Kearns Bldg.
Salt Lake City, UT 84111

Sabine Corporation
(Investors Royalty)
1309 Thompson Bldg.
Tulsa, OK 74103

The Wiser Oil Company
P.O. Box 192
Sisterville, WV 26175

John B. Milam
P.O. Box 26
Chelsea, OK 74016

William G. Milam II
P.O. Box 26
Chelsea, OK 74016

Ladd Petroleum Corp.
370 17th Street, Suite 1700
Denver, CO 80202

Walter Duncan Heirs
1777 S. Harrison St.
Denver, CO 80210

Club Oil & Gas Ltd.
1777 S. Harrison St.
Denver, CO 80210

Raymond T. Duncan
1777 S. Harrison St.
Denver, CO 80210

The City of Duchesne
165 S. Center St.
Duchesne, Utah 84066

Clive Johnson & Mary D. Johnson
1343 S. 600 East
Salt Lake City, UT 84102

Patricia Ann Peterson
P.O. Box 1166
Afton, WY 83110

Mamie Boyland
245 N. 400.
Logan, UT 84321

Dixie Ann Mecham
Whitaker Burtoft
1231 E. 300 South
Salt Lake City, UT 84105

Leonard W. Sjoberg
Florence T. Sjoberg
1430 Kensington Ave.
Salt Lake City, UT 84105

Sam Oil Co.
P.O. Box 1030
Roosevelt, Utah 84066

US Land Development
P.O. Box 9356
Salt Lake City, UT 84109

LDS Church
50 E. North Temple
Salt Lake City, UT 84111

John B. Parkin
673 Wall St.
Salt Lake City, UT 84103

Alice Kathleen Kelly
1209 Cheyenne Ct.
Boulder City, NV 89005

William R. Stockdale
2540 Eccles
Ogden,UT 84401

Mark L. Schoenfield, Jr.
3746 Market Street
Salt Lake City, UT 84119

John Sam
Rt. 3 Box 369
Chesterton, Indiana

Sara I. Tanner
515 South 10th East
Salt Lake City, UT 84102

C.P. Pederson
257 S. 300 West
Vernal, UT 84078

Henry A. Smith
9828 Miloann St.
Temple, CA 91780

Strasser Investments
1455 Uintah Cir.
Salt Lake City, UT 84108

Ralph D. Brinton
2175 County Club Rd.
Salt Lake City, UT 84109

June J. Anderson
329 E. 1850 South
Bountiful, UT 84010

Trina Clayton
1337 Bryan Ave.
Salt Lake City, UT 84105

John R. Moritz
7936 E. Plaza Ave.
Scottsdale, AR 85253

William W. Moore
789 E. 7800 South
Midvale, UT 84047

Hugh J. Hintze
1366 E. Murray-Holliday Rd.
Salt Lake City, UT 84117

Clarice E. Blechman
P.O. Box 184
Sun Valley, Idaho 83353

Oman Investment Company
592 Howard Dr.
Sandy, UT 84070

James P. Ellis
5630 Akkey Drive, APT 4D
Lisle, IL 60532

Della S. Miller
2219 Matthew Ave N.W
Albuquerque, NM 87104

Calvin W. Jackson
2970 E. 4310 South
Salt Lake City, UT 84124

The Ute Indian Tribe
Ft. Duchesne, Utah 84066

State of Utah
Department of Transportation
4501 South 2700 West
West Valley City, UT 84119

Winona Oil Company
1760 Broadway, Suite 1219
Denver, CO 80290

R. Earl Dillman
Boston Bldg., Suite 800
9 Exchange Place
Salt Lake City, UT 84111

Russell L. Miller
1730 San Remo Dr.
Pacific Palasades, CA 92803

Mary E. Miller
1730 San Remo Dr.
Pacific Palasades, CA 92803

Joseph Harris Cohen
Ben Van der Steen
P.O. Box 3969
Anaheim, CA 92803

Martinus B. Van der Steen
Katherine Marie Van der Steen
P.O. Box 3969
Anaheim, CA 92803

Martinus B. Van der Steen
P.O. Box 3969
Anaheim, CA 92803

Hazel M. Robertson
875 Donner Way, #703
Salt Lake City, UT 84108

Glen C. Bills Properties
1945 Scenic Dr.
Salt Lake City, UT 84010

Jetco Chemicals, Inc.
A Procter & Gamble Co.

P.O. Box 217
Roosevelt, Utah 84066

Office (801) 722-5066
Fax (801) 722-5727

WATER ANALYSIS REPORT

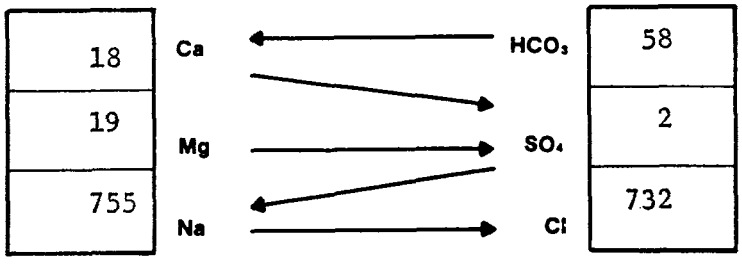
COMPANY Genesis Production Company ADDRESS 1600 Stout St. #720 Denver CO 80202 DATE: 10-14

SOURCE Sample #2 DATE SAMPLED _____ ANALYSIS NO. _____

	Analysis	Mg/l (ppm)		*Meq/l	
1. PH	7.9				
2. H_2S (Qualitative)	.5				
3. Specific Gravity	1.043				
4. Dissolved Solids		47,585			
5. Suspended Solids					
6. Anaerobic Bacterial Count	CI C/Ml				
7. Methyl Orange Alkalinity ($CaCO_3$)					
8. Bicarbonate (HCO_3)	HCO_3	3,540	÷61	58	HCO_3
9. Chlorides (Cl)	Cl	26,000	÷35.5	732	Cl
10. Sulfates (SO_4)	SO_4	90	÷48	2	SO_4
11. Calcium (Ca)	Ca	360	÷20	18	Ca
12. Magnesium (Mg)	Mg	230	÷12.2	15	Mg
13. Total Hardness ($CaCO_3$)		1,850			
14. Total Iron (Fe)		4.0			
15. Barium (Qualitative)					
16. Phosphate Residuals					

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	18	1458
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	19	1390
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	21	1764
Na_2SO_4	71.03	2	142
NaCl	58.46	732	42,793

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Swab sample from injection zone.

Condition not met for permit issuance:

-Injected wastes must not migrate to an underground source of drinking water (USDW) through the "confining zone"in the area of review.

-Permittee has failed to demonstrate that the upper confining zone is unfractured in the area of review of the injection well. No open hole logs were run on the Blue Bench 13-1 injection well (other than a mud log), and no drill stem tests nor cores were made of the confining zone in the area of review.

Arguments supporting confining layer integrity:

-The absence of oil and gas seeps at the surface.

-Applicant claims shales in confining zone are ductile and calcareous (i.e. self-healing).

-Applicant states that 10,000 mg/l total dissolved solids (TDS) isocon in area is due to surface water recharge through the saline facies, and not due to upward migration of brine through confining zone.

-The Parachute Creek geologic unit is assumed to be a basin wide confining unit responsible for trapping recoverable oil.

Arguments indicating lack of confining layer integrity:

-The lack of oil and gas seeps at the surface in the area of the well does not indicate lack of fracturing. It may instead be due to lack of a significant hydrocarbon reservoir immediately below the confining zone. (In support of this, the injection well mud log directly beneath the Parachute Creek unit did not indicate the presence of oil. It did indicate the presence of gas above, below, and in the confining zone, which implies a certain degree of permeability.)

-The applicant's claims of ductile, self-healing shales in the confining zone is not supported by any evidence. However, there is evidence that the shales in the confining zone are hard and brittle, which is conducive to fracturing.

-The 10,000 mg/l TDS isocons above the Parachute Creek confining unit suggest vertical flow is part of the cause of high TDS above the unit. Since the confining zone is part of the saline facies which contains water soluble evaporite minerals, how do the "salts" get vertically leached out if the zone is so "tight"?

-USGS publication states that changes in salinity in Uinta Basin oil/gas production zones may be due to vertical flow through fractures.

-Many published articles discuss widespread fracturing in the Uinta Basin and some in the Parachute Creek in particular.

-The nearby County Pool oil field was completed in fractured shales and mudstones in the Upper Green River Formation. The Parachute Creek member of the Upper Green River Formation is comprised of similar shales and mudstones.

-The injection zone and the confining zone are both known to be fractured within the Duchesne Fault Zone a few miles south of the area of review.

-At least one gas reservoir in the Uinta Basin is found above the Parachute Creek unit, which indicates the presence of significant fractures allowing the gas to escape the source rock.

Information that can shed light on area of disagreement:

-Cores.
-Open hole logs
-Ground water samples

11/26/97

Dennis Frederick
Jerry Jackson
Fred Person
Paul Osborn
D. Jarvis

1) Relative Permeability.

2) Corrective Action

3) Travel Time

4) Similar Experience

5) Additional Data

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May 21, 1991

Dr. Dianne R. Neilson
Director
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180

Re: Cause No. UIC 124

Dear Dr. Neilson:

The Ute Indian Tribe ("Tribe") is informed that Genesis Production Company ("Genesis") has sought administrative approval to convert the Paiute-Walker 13-1 Well (the "Paiute-Walker"), located in Section 13, Township 3 South, Range 5 West, U.S. B&M, from an oil and gas operation to a Class II injection well. The Tribe is the owner of the W/2 E/2 of Section 13, and would have participated in any production accruing from the Paiute-Walker. This letter is to express the Tribe's opposition to that action requested by Genesis until such time as the subject well is determined to be incapable of producing oil or gas in paying quantities.

Evidence available to the Tribe indicates that although drilled, the Paiute-Walker was not completed. Apparently, the financial exigencies of the well's operators precluded them from completing the well or otherwise taking steps to establish production. The Tribe is, therefore, concerned that the well possesses production potential which would be irreparably damaged by its conversion to a disposal facility.

The Tribe, accordingly, requests that the Utah Board of Oil, Gas & Mining postpone action on the application of Genesis pending an evaluation of the well's potential to produce oil or gas. The Tribe believes it can arrive at such a conclusion within the coming sixty (60) days.

The Tribe apologizes for the lateness of its comments on the Genesis application, but, like other interests in Section 13, was not supplied with personal notice of Genesis' intentions. If the

From: <OSBORNE.PAUL@EPAMAIL.EPA.GOV>
To: INET.MAIL("MINTER.DOUGLAS@EPAMAIL.EPA.GOV")
Date: 12/1/97 2:24pm
Subject: Issues relating to Blue Bench #13-1

Douglas:

I wanted to take the opportunity to articulate my thoughts relating to the Utah DEQ questions regarding the permitting of the Blue Bench #13-1 to accept non-hazardous waste. After reviewing our permit file and the information and questions developed by the DEQ, I continue to believe that our original decision to proceed with permitting this well a number of years ago was correct. I continue to believe that the confining zone within the area of review of the injection well is adequate to contain the injected fluid in the injection reservoir. Although additional data is always nice, I do not see a need to require test coring or even additional well drilling. I have several comments relating to the confining layer issue.

1. The confining layer above the injection zone is composed of 1,450 feet of silty calcareous shales with interbedded sands and limestones before USDWs are encountered. This is the best type of confining zone because the sand layers will act as pressure dissapators if the injection pressure was high enough to penetrate the first clay layer.

I am not convinced that the clay layers in the basin are brittle. I understand that the mud log submitted with the application indicates the presence of brittle clay. I believe that portion of the log is misleading because of the nature of the way the mud logs are made. The ground up nature of the cutting makes it very difficult to place much faith on such a determination. Based on information from other operators in the area, I would conclude that the clay does have plastic properties.

2. Although there may be a tendency for some of the sand layers such as the Horse bench sandstone to take a large portion of the injection stream during the initial stages of the operation, I do not see this as a long term problem. As any one zone takes a large amount of water, the pressure in that zone will become higher than adajacent zones which take less water. This will result in a reduction in inflow to the initially prevelent sand unit. Because of the increased pressure in the high water zone, the other sand units will now begin taking more water resulting in an equalization of pressure and water take. This process should occur throughout the life of the project. It is important to also remember that there will be vertical movement of fluid into the less porous and permeable zones which seperate the various sand units. The vertical bleedoff will lead to overall pressure reduction at the wellbore.

An important factor in the amount of long term pressure buildup that one might expect is the rate and duration of injection. If the well has significant periods of shut-in, there will be less buildup of pressure. This is because the fluids have time to bleed-off both latterly and vertically. In looking at the present injection history for the Blue Bench Class II operation, the well has been shut-in for significant periods.

3. If the assumption of equal injected volume per foot of sand is correct

over the long term is correct, the radius of the injected waste front can be calculated (assuming 100% displacement) using the formula below.

r2= (5.61xV)/3.14xhxporosity).

so r2=(5.61x4500x365x100/(3.14x1304x.15)

so r2=(5.61x16,425,000)/614.18=150028

so r=387 ft.

Exxon has looked at the issue of mixing and empherically has determined that a mixed zone of about 40% is not unreasonable. This would add an additional 154 feet for a total of about 550 feet over the 10 year life of the well. As I indicated, this may be less for many of the individual sand units because of bleedoff into adjacent lower permeability units. The presence of sands which have a higher permeability will, of course, provide for a wider extent of migration and mixing. I do not, however, expect this to be a major issue. Given the environment these units were laid down in, I expect that the permeability of most of the sands units will be in the same order of magnitude. Thus, pressure equalization will occur over time.

4. I ran some pressure buildup calculations for the blue bench well assuming a continuous injection rate of 4500 bbls/day with flow only occuring into the 1304 feet of good porosity sand and an average permeablity of 25 md. Over the 10 year life of the well, the estimated pressure increase at 2 miles is about 20 psi. The estimated pressure increase at a six mile radius is about 5 psi.

It is important to note that the 1304 feet of high porosity sand is contained in an interval of 2500 feet of interbedded sands and silts. The lower permeability silts have some porosity (4 to 5%) and will take significant amounts of fluid from the sand units over time. This will result in a decrease in the rate of pressure buildup away from the wellbore. This will especially be the case if the injection well experiences shut-in periods of several days duration. Based on the experience at the Sucla Farms facility in Colorado and the experience at the existing Blue Bench Class II facility, I would anticipate significant shut-in periods which will result in fluid bleedoff from the perforated sand intervals. Thus, I would anticipate a much lower pressure buildup at distance from the well. It would surprise me if there was any pressure increase at a six mile radius as a result of injection.

5. As I indicated during our initial conversation with Jerry Jackson, the movement of injected fluid away from the well will be very slow and the nature of the reservoir will enhance mixing as the radius of movement increases. During the life of the project, my estimates indicate that fluid movement should not occur outside a 1/4 mile radius. Over a long period of time injected fluid will move beyond the 1/4 of a mile, but the mixing will be such that it would be impossible to detect the characteristics of the injected fluid at any great distance from the well. As a case in point, I would not support requiring monitoring well in the vicinity of the Duchesne fault. The injected fluid could not migrate that distance in 10 years even if the Horse Bench Sand takes a significant amount of fluid relative to other sands which I believe is unlikely (see explanation above). Additionally, any pressure measurements at this location would not have any statistical validity because the natural variation in fluid levels would most likely exceed the anticipated pressure change over the life of the project.

I have similiar concerns with monitoring wells between the injection well and the City of Duchesne well field. This well field is simply to far away to be affected by injection fluid over the life of the project. The likelyhood of the well field being impacted by other surface or near surface activities is far greater. My major concern with this monitoring would be the establishment of meaningful criteria for determining that the monitoring indicates non-compliance.

Although I also have doubts regarding the usefullness of a monitoring well within 100 feet of the injection well, I do believe that the drilling of such a well could provide some very good information on: 1) the actual depth of the base of USDWs; 2) log data which could be used to back calculate formation factors for resistivity calculations to provide information for more precise calculation of TDS using available logs from other wells in the vicinity of the well; and 3) (depending on the depth of the well) information on the nature of the top of the clays in the non-USDW sequence.

6. I continue to believe that most of the potential short-term and long-term compliance issues can be addressed using three techniques which are not extremely expensive. These techniques are:1) the temperature log, involving both injection and shut-in logs; 2) the Radioactive tracer log (RATS), involving the use of stationary monitoring of an injected slug and the tracking of a slug with the detector while the slug moves down hole; and 3) the obtaining of pressure falloff curves at specified intervals during the life of the well. The temperature log and RATS results could be used to provide information on which zones are presently taking fluids as a result of the Class II activities. The temperature log results (which includes a profile during injection and several shut-in profiles) would provide a very clear picture of the ability of the clays to confine the fluids in the injection reservoir. If this material is fractured sufficient to allow fluid movement, the fluid will be moving near the wellbore because that is where the most driving force is located (i.e. injection pressure). The Temperature survey will detect the signature of the injected fluid in the zone. The longer the time of the shut-in profiles; the more resolution the survey has to detect fluid movement.

The pressure falloff tests are mainly usefull during well operation to determine if there are major changes in the flow pattern of the reservoir over time. For instance, the falloff test would provide a mechanism for detecting reservoir boundaries which have been reached by the pressure wave.

7. There has been some discussion regarding the potential for a large zone of endangering influence. I have not run such a calculation because the data at the site regarding the actual location of the base of USDWs and the associated head is unknown. Making such calculations without good data, in my mind, is very speculative. It should be noted, however, that data in the Class II file indicated that the injection zone was found to be underpressured when the well was converted. A pressure bomb survey was run on the well (October 14-15, 1991) and the pressure at 7500 feet was 3295 psi. Thus the pressure gradient is about 0.423 psi/foot which is less than the standard gradient of 0.433 psi/foot. Given that the density of the reservoir fluid is about 0.443, the fluid level in the well would be about 60 feet below ground surface. This ties in with information on initial injection tests. Once the well was cleaned up the injection pressure dropped to a maximum of less than 350 psi at the surface. Based on this information, there is a good chance that the zone of endangering influence would not be large.

8. A great deal of emphasis has been placed on the USGS document which delineates the base of USDWs in the Unitah basin for the purpose of making inferences regarding the confining zone. This was not the purpose of the document which was to provide an estimate of the relative location of USDWs at a specific well location for the purpose of locating surface casing depth and other site specific purposes. The purpose was not for making regional interputations of hydrologic flow conditions. In order to use the resistivity log technique to develop regional guesses on what is happening in the vicinity of the Blue Bench, it would be necessary to collect the most recent logs and recent water analyses to develop more site specific correlation coefficients for the equations to estimate TDS. Than it would be possible to develop a more accurate picture of the 10,000 mg/liter contour by making new calculations using all available logs in the area, old and new. It would then be necessary to recontour the 10,000 mg/ liter contour. Even than the level of available water quality data and logs would be such that the contour information might not be accurate for the purpose of evaluating the confining zone.

CC: NRDOMAIN.NROGM(GHUNT),INET.MAIL("JACKSON.DAN@EPAMA...

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

RECEIVED
JUL 31 1991
DIVISION OF
OIL GAS & MINING

UNDERGROUND INJECTION CONTROL PROGRAM

Final Permit

Class II Salt Water Disposal Well

Permit No. UT2582-03533

Well Name: Paiute-Walker #13-1

Field Name: Altamont

County & State: Duchesne, Utah

issued to:

Genesis Production Company
1675 Broadway, Suite 2340
Denver, CO 80202

Date Prepared: July 1991

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PART I. AUTHORIZATION TO CONVERT AND INJECT

Pursuant to the Underground Injection Control Regulations of the U. S. Environmental Protection Agency codified at Title 40 of the Code of Federal Regulations, Parts 124, 144, 146, and 147,

Genesis Production Company
1675 Broadway, Suite 2340
Denver, CO 80202

is hereby authorized to convert a temporarily abandoned well to a Class II commercial salt water disposal well, commonly known as Paiute-Walker #13-1 located in the NE 1/4 of the NE 1/4 (820 feet from the north line and 932 feet from the east line) of Section 13, Township 3 South, Range 5 West, in Duchesne County, Utah. Injection shall be for the purpose of disposing of produced water from Green River - Wasatch oil wells (Altamont oil field), in accordance with conditions set forth herein.

Injection activities shall not commence until the operator has fulfilled all applicable conditions of this permit and has received written authorization from the Director. "Prior to Commencing Injection" requirements are set forth in Part II, Section C. 1., of this permit.

All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations and are regulations that are in effect on the date that this permit becomes effective.

This permit consists of a total of 34 pages and includes all items listed in the Table of Contents. Further, it is based upon representations made by the permittee and on other information contained in the administrative record.

This permit and the authorization to inject are issued for the operating life of the well, unless terminated (Part III, Section B), or except upon automatic expiration due to prolonged postponement of conversion/construction (Part II, Section A. 6.). The permit will be reviewed by EPA at least every five (5) years to determine whether action under 40 CFR 144.36 (a) is warranted. The permit will expire upon delegation of primary enforcement responsibility for the UIC Program to the State of Utah, Division of Oil, Gas, and Mining, or the Uintah-Ouray Indian Tribal Government, unless either the State or the Indian Tribal Government has adequate authority, and choose, to adopt and enforce this permit as a State permit or Tribal Government permit.

Issued this 16th day of July, 1991.

This permit shall become effective July 16, 1991.

* Max H. Dodson, Director
Water Management Division

* NOTE: The person holding this title is referred to as the "Director" throughout this permit.

PART II. SPECIFIC PERMIT CONDITIONS

A. WELL CONVERSION REQUIREMENTS

1. Casing and Cementing. The conversion details submitted with the application are hereby incorporated into this permit as Appendix A, and shall be binding on the permittee. Cement bonds between the wellbore and casing are as follow: (1) 1st stage cement extends from the base of the 7 inch long string casing up to an estimated top of 6520 feet kelly bushing (KB); and (2) cement extends from the base of the 9-5/8 inch surface casing to the surface.

2. Tubing and Packer Specifications. A tubing of two and seven-eighths (2-7/8) inches or three and one-half (3-1/2) inches diameter (depending on injection rate) shall be utilized with a packer placed at a depth of approximately 3650 feet kelly bushing (KB). The permittee is required to set the packer at a distance of no more than 100 feet above the top of the perforations. Injection between the outer-most casing protecting underground sources of drinking water (USDWs) and the well bore is prohibited.

3. Monitoring Devices. The operator shall provide and maintain in good operating condition:

(a) a tap on the suction line, for the purpose of obtaining representative samples of the injection fluids;

(b) two (2), one-half (1/2) inch Female Iron Pipe (FIP) fittings, isolated by plug or globe valves, and located: 1) at the wellhead on the tubing; and 2) on the tubing/casing annulus, and positioned to allow attachment of 1/2 inch Male Iron Pipe (MIP) gauges;

(c) pressure gauges attached to the FIP fittings of the: 1) tubing/casing annulus to allow for monitoring of the annulus fluid pressure; and 2) the tubing to allow injection pressure monitoring. The gauges shall be designed to operate at a certified accuracy of at least ninety-five (95) percent, throughout the range of anticipated injection pressures; and

(d) a flow meter with cumulative volume recorder that is certified for at least ninety-five (95) percent accuracy, throughout the range of injection rates allowed by the permit.

4. Proposed Changes and Workovers. The permittee shall give advance notice to the Director, as soon as possible, of any planned physical alterations or additions to the permitted well. Major alterations or workovers of the permitted well shall meet all conditions as set forth in this permit. A major alteration/workover shall be considered any work performed, which affects casing, packer(s), or tubing.

Demonstration of mechanical integrity shall be performed within thirty (30) days of completion of workovers/alterations and prior to injection activities, in accordance with Part II, Section C. 2.

The permittee shall provide all records of well workovers, logging, or other test data to EPA within sixty (60) days of completion of the activity. Appendix B contains samples of the appropriate reporting forms.

5. Formation Testing. When the injection zones are perforated the well will be swabbed and a representative water sample will be taken from the injection zones. The permittee is required to determine the injection zone fluid pore pressure (static bottom-hole pressure). For the purpose of identifying the current formation fracture pressure, an appropriate and documented step-rate injectivity test will be performed by the permittee in the Uinta-Green River injection zone(s) when stabilized injection rate conditions have been attained and using fluids normally being injected. This step-rate test will be run within six months of the initial injection date.

6. Postponement of Conversion. If the well is not converted to injection status within one (1) year from the effective date of this permit, the permit will automatically expire, unless the permittee requests an extension. The request shall be made to the Director in writing, in lieu of the annual reporting requirements of Part II, Section D. 4., and shall state the reasons for the delay in conversion and confirm the protection of all USDWs. The extension under this section may not exceed one (1) year.

Financial responsibility shall be maintained during the period of inactivity in accordance with Part II, Section F. Once a permit expires under this part, the full permitting process, including opportunity for public comment, must be repeated before authorization to inject will be re-issued.

B. CORRECTIVE ACTION

The applicant is not required to take any corrective action since the subject well is the only well within the 1/4-mile are of review (AOR). The conversion of the well will include placement of a 200 foot cement plug (3560'-3760') in the annular

space between the well casing and the formation above the perforated injection interval. A Cement Bond Log (CBL) will be run during the conversion of the subject well to determine adequate bonding for preventing upward movement of injection fluid through casing and/or wellbore.

C. WELL OPERATION

1. Prior to Commencing Injection. Injection operations may not commence until the permittee has complied with (a), and (b) as follows:

(a) Conversion is complete (according to the requirements in Part II. Section A. & B.), and the permittee has submitted a Well Rework Record (Form 7520-12 in Appendix B); and

(i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the permit; or

(ii) The permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within thirteen (13) days of the date of receipt by the Director of the Well Rework Record in paragraph (a) of this permit condition in which case prior inspection or review is waived and the permittee may commence injection. [Note: However, in all circumstances, item (b) below must also be satisfied].

(b) The permittee completes the requirements for Formation Testing (Part II. Section A. 5. above) and demonstrates that the well has mechanical integrity in accordance with 40 CFR 146.8 and Part II, C. 2. below, and has received written notice from the Director that such a demonstration is satisfactory. The EPA has also received and approved an Cement Bond Log to insure adequate bonding above the 3760 foot squeezed zone.

2. Mechanical Integrity Demonstration.

(a) Method of Demonstrating Mechanical Integrity. A demonstration of the absence of significant leaks in the casing, tubing and/or packer must be made by performing a tubing/casing annulus pressure test. This test shall be for a minimum of forty-five (45) minutes at: (1) a pressure of 300

pounds per square inch gauge (psig) measured at the surface, if the well is shut-in; or (2) a pressure differential of 200 psig, if injection activities are continued during the test. The tubing/casing annulus shall be filled with non-corrosive fluid (either a non-toxic liquid or the injection liquid) at least twenty-four (24) hours in advance of the test. Pressure values shall be recorded at five (5) minute intervals. A well passes the mechanical integrity test if there is less than a ten (10) percent decrease or increase in pressure over the forty-five (45) minute period.

(b) Schedule for Demonstration of Mechanical Integrity A demonstration of mechanical integrity shall be made at regular intervals, no less frequently than every five (5) years from the effective date of this permit, in accordance with 40 CFR 146.8 and paragraph (a) above, unless otherwise modified. Initiation of mechanical integrity demonstrations will be according to the following provisions:

(i) It shall be the permittee's responsibility to arrange and conduct the routine five-year tubing/casing annulus pressure test demonstration. The permittee shall notify the Director of his intent to demonstrate mechanical integrity at least thirty (30) days prior to such demonstration. Results of the test shall be submitted to the Director as soon as possible but no later than sixty (60) days after the demonstration.

(ii) In addition to any demonstration made under paragraph (i) above, the Director may require a demonstration of mechanical integrity at any time during the permitted life of the well.

(c) Loss of Mechanical Integrity. If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity as defined by 40 CFR 146.8 becomes evident during operation, the permittee shall notify the Director in accordance with Part III, Section E. 10. of this permit. Furthermore, injection activities shall be terminated immediately; and operations shall not be resumed until the permittee has taken necessary actions to restore integrity to the well and EPA gives approval to recommence injection.

3. Injection Intervals. As identified in Appendix A, injection shall be limited to the gross subsurface interval, (3760'-6520') and (7226'-7528') within the Lower Uinta and the Upper Green River Formations. Additional perforations within the gross intervals, may be added later and reported on EPA Form 7520-12.

The confining zones for the Lower Uinta perforations (3760'-6520') to the base of the surface casing (2014') is 1746'. The majority of this interval is predominately silty, calcareous shales with interbedded siliceous sands and limestones which should provide an effective barrier to upward movement of disposed waters. In addition, the conversion of the well will include a 200 foot cement plug in the annular space between the well casing and the formation above the top perforated injection interval.

4. Injection Pressure Limitation.

(a) Injection pressure, measured at the surface, shall not exceed 1128 psig.

(b) The pressure limit in paragraph (a) may be increased by the Director if the permittee demonstrates that the proposed increase in surface injection pressure will not exceed the fracture pressure of the injection zone. This demonstration shall be made by performing a step rate injection test, using fluid normally injected, to determine both the instantaneous shut-in pressure (ISIP) and the formation breakdown pressure. The Director will determine any allowable increase based upon the test results and other parameters reflecting actual injection operations; or

(c) The permittee shall give thirty (30) days advance notice to the Director if the increase in paragraph (b) will be sought. Details of the proposed test shall be submitted at least seven (7) days in advance of the proposed test date so that the Director has adequate time to review and approve the test procedures. Results of all tests shall be submitted to the Director within ten (10) days of the test. Injection at the increased pressure must be approved by the Director, in writing, before the permittee may begin continuous operation at that pressure.

(d) Any approval granted by the Director for the increased pressure limitations as stated in paragraph (b) shall be made part of this permit by minor modification without further opportunity for public comment.

5. Injection Volume Limitation. There is no limitation on the number of barrels of water per day (BWPD) that shall be injected into this well, provided further that in no case shall injection pressure exceed that limit shown in Part II, Section C. 4. (a) of this permit.

6. Injection Fluid Limitation. The permittee shall not inject any hazardous substances, as defined by 40 CFR 261, at any time during the operation of the facility; and further, no substances other than those produced brines from oil production in the Altamont field.

7. Annular Fluid. The annulus between the tubing and the casing shall be filled with fresh water treated with a corrosion inhibitor, a scale inhibitor, and an oxygen scavenger; or other fluid as approved, in writing, by the Director.

D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Injection Well Monitoring Program. Samples and measurements shall be representative of the monitored activity. The permittee shall utilize the applicable analytical methods described in Table 1 of 40 CFR 136.3, or in Appendix III of 40 CFR Part 261, or in certain circumstances, by other methods that have been approved by the EPA Administrator. Monitoring shall consist of:

(a) Analysis of the injection fluids, performed:

(i) annually for Total Dissolved Solids, pH, Specific Conductivity, and Specific Gravity, from the common facility; however, if injection is maintained from more than one well from each common facility, then only one annual analysis is required for that facility.

(ii) whenever there is a change in the source of injection fluids. A comprehensive water analysis shall be submitted to the Director within thirty (30) days of any change in injection fluids.

(b) Weekly observations of flow rate, injection pressure and annulus pressure, and cumulative volume. Observation of each shall be recorded monthly.

2. Monitoring Information. Records of any monitoring activity required under this permit shall include:

(a) The date, exact place, the time of sampling or field measurements;

(b) The name of the individual(s) who performed the sampling or measurements;

(c) The exact sampling method(s) used to take samples;

(d) The date(s) laboratory analyses were performed;

(e) The name of the individual(s) who performed the analyses;

(f) The analytical techniques or methods used by laboratory personnel; and

(g) The results of such analyses.

3. Recordkeeping.

(a) The permittee shall retain records concerning:

(i) the nature and composition of all injected fluids until three (3) years after the completion of plugging and abandonment which has been carried out in accordance with the Plugging and Abandonment Plan shown in Appendix C, and is consistent with 40 CFR 146.10.

(ii) all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit for a period of at least five (5) years from the date of the sample, measurement or report throughout the operating life of the well.

(b) The permittee shall continue to retain such records after the retention period specified in paragraphs (a) (i) and (a) (ii) unless he delivers the records to the Director or obtains written approval from the Director to discard the records.

(c) The permittee shall maintain copies (or originals) of all pertinent records at the office of Texaco Inc., Watford City, North Dakota.

4. Reporting of Results. The permittee shall submit an Annual Report to the Director summarizing the results of the

monitoring required by Part II, Section D. 1. (a) and (b) of this permit. Copies of all monthly records on injected fluids, and any major changes in characteristics or sources of injected fluid shall be included in the Annual Report.

The first Annual Report shall cover the period from the effective date of the permit through December 31, of that year. Subsequently, the Annual Report shall cover the period from January 1 through December 31, and shall be submitted by February 15 of the following year. Appendix B contains Form 7520-11 which may be copied and used to submit the annual summary of monitoring.

E. PLUGGING AND ABANDONMENT

1. Notice of Plugging and Abandonment. The permittee shall notify the Director forty-five (45) days before conversion, or abandonment of the well.

2. Plugging and Abandonment Plan. The permittee shall plug and abandon the well as provided in the Plugging and Abandonment Plan, Appendix C. This plan incorporates information supplied by the permittee and may contain a clarification by the EPA. The EPA reserves the right to change the manner in which the well will be plugged if the well is modified during its permitted life or if the well is not made consistent with EPA requirements for construction and mechanical integrity. The Director may require the permittee to update the estimated plugging cost periodically. Such estimates shall be based upon costs which a third party would incur to plug the well according to the plan.

3. Cessation of Injection Activities. After a cessation of operations of two (2) years, the permittee shall plug and abandon the well in accordance with the Plugging and Abandonment Plan, unless the permittee:

(a) has provided notice to the Director; and

(b) has demonstrated that the well will be used in the future; and

(c) has described actions or procedures, satisfactory to the Director, that will be taken to ensure that the well will not endanger underground sources of drinking water during the period of temporary abandonment.

4. Plugging and Abandonment Report. Within sixty (60) days after plugging the well, the permittee shall submit a report on Form 7520-13 to the Director. The report shall be certified as accurate by the person who performed the plugging operation and the report shall consist of either: (1) a statement that the

well was plugged in accordance with the plan; or (2) where actual plugging differed from the plan, a statement that specifies the different procedures followed.

F. FINANCIAL RESPONSIBILITY

1. Demonstration of Financial Responsibility. The permittee is required to maintain continuous financial responsibility and resources to close, plug and abandon the injection well as provided in the plugging and abandonment plan.

(a) The permittee shall submit financial statements and other information annually, or as required by EPA, in order to demonstrate that its financial position remains sound, and that it continues to have adequate financial resources, as determined by the EPA, to close, plug, and abandon the injection wells in accordance with the approved plugging and abandonment plan.

(b) If financial statements or other information indicate that the permittee no longer has financial resources, according to EPA criteria, to assure that the injection wells will be properly plugged and abandoned, then the permittee must make an alternate showing of financial responsibility. This showing must be acceptable to the Director and must be submitted within sixty (60) days after having been notified by EPA of the necessity for making an alternate showing of financial responsibility.

(c) The permittee may upon his own initiative and upon written request to EPA, change the method of demonstrating financial responsibility from financial statement coverage to a financial instrument such as a bond, letter of credit, or trust fund. Any such change must be approved by the Director.

2. Insolvency of Financial Institution. In the event that an alternate demonstration of financial responsibility has been approved under (b) or (c), above, the permittee must submit an alternate demonstration of financial responsibility acceptable to the Director within sixty (60) days after either of the following events occur:

(a) The institution issuing the trust or financial instrument files for bankruptcy; or

(b) The authority of the trustee institution to act as trustee, or the authority of the institution issuing the financial instrument, is suspended or revoked.

PART III. GENERAL PERMIT CONDITIONS

A. EFFECT OF PERMIT

The permittee is allowed to engage in underground injection in accordance with the conditions of this permit. The permittee, as authorized by this permit, shall not construct, operate, maintain, convert, plug, abandon, or conduct any other injection activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR, Part 142 or otherwise adversely affect the health of persons. Any underground injection activity not authorized in this permit or otherwise authorized by permit or rule is prohibited. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment for any imminent and substantial endangerment to human health, or the environment, nor does it serve as a shield to the permittee's independent obligation to comply with all UIC regulations.

B. PERMIT ACTIONS

1. Modification, Reissuance, or Termination. The Director may, for cause or upon a request from the permittee, modify, revoke and reissue, or terminate this permit in accordance with 40 CFR Sections 124.5, 144.12, 144.39, and 144.40. Also, the permit is subject to minor modifications for cause as specified in 40 CFR Section 144.41. The filing of a request for a permit modification, revocation and reissuance, or termination or the notification of planned changes or anticipated noncompliance on the part of the permittee does not stay the applicability or enforceability of any permit condition.

2. Conversions. The Director may, for cause or upon a request from the permittee allow conversion of the well from a Class II injection well to a non-Class II well. Requests to convert the injection well from its Class II status to a non-Class II well, such as, a production well, must be made in writing to the Director. Conversion may not proceed until a permit modification indicating the conditions of the proposed conversion is received by the permittee. Conditions of the modification may include such items as, but is not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, and well specific monitoring and reporting following the conversion.

3. Transfers. This permit is not transferrable to any person except after notice is provided to the Director and the

requirements of 40 CFR 144.38 are complied with. The Director may require modification, or revocation and reissuance, of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the SDWA.

4. Operator Change of Address. Upon the operator's change of address, notice must be given to the following EPA office:

U. S. Environmental Protection Agency
Region VIII, UIC Section (8WM-DW)
999 18th Street, Suite 500
Denver, CO 80202-2405

C. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR 144.5, any information submitted to EPA pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the permittee; and
- Information which deals with the existence, absence, or level of contaminants in drinking water.

E. GENERAL DUTIES AND REQUIREMENTS

1. Duty to Comply. The permittee shall comply with all conditions of this permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit. Any permit noncompliance constitutes a violation of the SDWA and is grounds for enforcement action, permit termination, revocation and reissuance, or modification. Such noncompliance may also be grounds for enforcement action under the Resource Conservation and Recovery Act (RCRA).

2. Penalties for Violations of Permit Conditions. Any person who violates a permit requirement is subject to civil penalties, fines, and other enforcement action under the SDWA and may be subject to such actions pursuant to the RCRA. Any person who willfully violates permit conditions may be subject to criminal prosecution.

3. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

4. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

5. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up, or auxiliary facilities or similar systems, only when necessary, to achieve compliance with the conditions of this permit.

6. Duty to Provide Information. The permittee shall furnish the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

7. Inspection and Entry. The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

(d) Sample or monitor, at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA any substances or parameters at any location.

8. Records of Permit Application. The permittee shall maintain records of all data required to complete the permit application and any supplemental information submitted for a period of five (5) years from the effective date of this permit. This period may be extended by request of the Director at any time.

9. Signatory Requirements. All reports or other information requested by the Director shall be signed and certified according to 40 CFR 144.32.

10. Reporting of Noncompliance.

(a) Anticipated Noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than thirty (30) days following each schedule date.

(c) Twenty-four Hour Reporting.

(i) The permittee shall report to the Director any noncompliance which may endanger health or the environment. Information shall be provided orally within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning EPA at (303) 293-1436 (during normal business hours) or at (303) 293-1788 (for reporting at all other times). The following information shall be included in the verbal report:

(A) Any monitoring or other information which indicates that any contaminant may cause endangerment to an underground source of drinking water.

(B) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

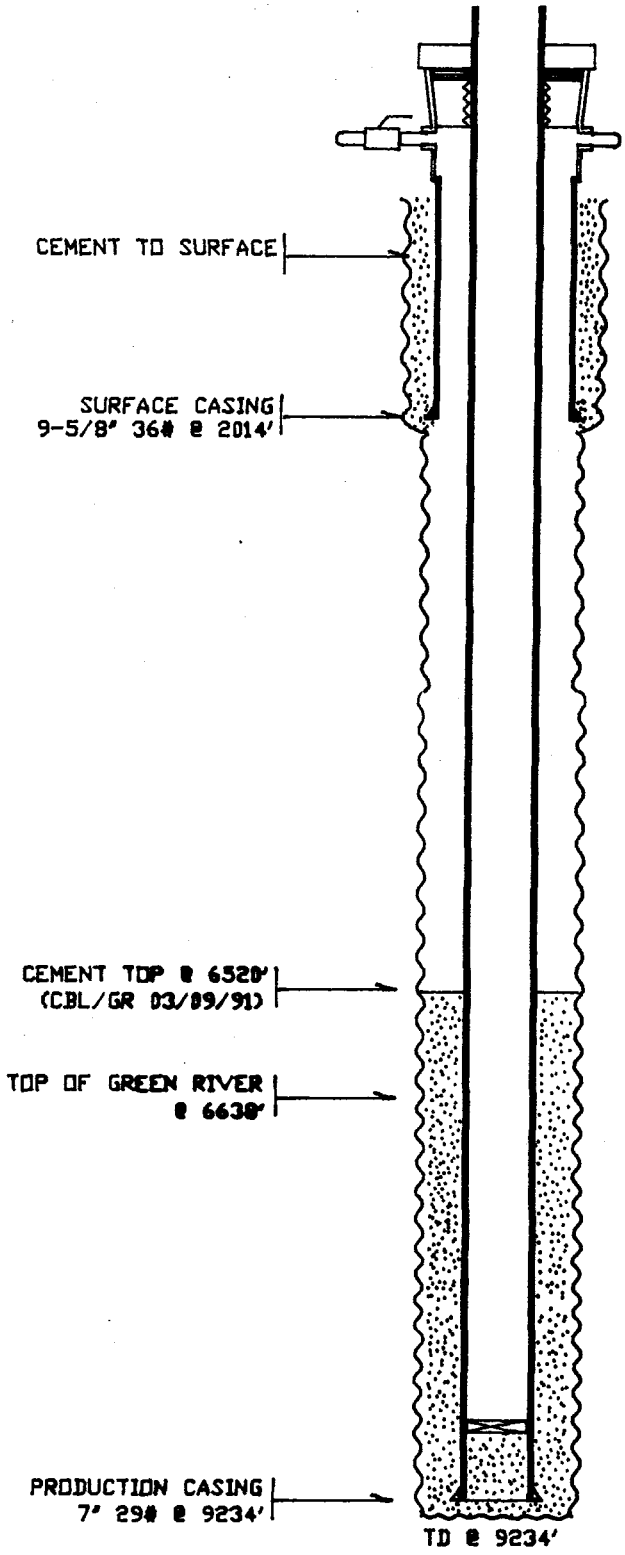
(ii) A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

(d) Other Noncompliance. The permittee shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted. The reports shall contain the information listed in Part III, Section E. 10. (C) (ii) of this permit.

(e) Other Information. Where the permittee becomes aware that he failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the permittee shall submit such correct facts or information within two (2) weeks of the time such information became known to him.

APPENDIX A

(Conversion Details)



GENESIS PRODUCTION COMPANY 1675 BROADWAY SUITE 2340 DENVER, COLORARD 80202	
PAIUTE-WALKER #13-1 NENE SEC 13 T3S-R5W DUCHESNE CO., UTAH	
DRAWN BY: DDW	DATE: APRIL 6, 1991
WELLBORE SCHEMATIC EXHIBIT 2A CURRENT WELLBORE CONDITION	

UPON REENTRY OF THIS TEMPORARILY ABANDONED WELL, THE CONVERSION TO A SALT WATER DISPOSAL WELL WILL BE AS FOLLOWS:

(1) MIRUSU, install BOP and RU rig pump, PU casing scraper, PU 2-7/8 inch tubing and RIH to ±7600 feet, POOH with tubing and scraper.

(2) PU retrievable Bridge Plug (RBP), RIH with RBP and set at ±4000 feet, circulate sand to bottom and cap RBP with 20 feet. POOH with tubing.

(3) RU wireline truck, RIH with Casing Collar Locator (CCL) and perforating gun, perforate with 4 shots at 3760 feet, POOH with wireline and rig down (RD) wireline truck.

(4) RIH with tension packer and tubing, set packer at ±3970 feet, pressure test tubing and RBP to 1500 psi, establish circulation with water, cement squeeze with 40 sacks Type V cement with 2% CaCl, monitor bradenhead for returns during squeeze.

(5) WOC overnight, release packer and POOH, RIH with 5-7/8 inch bit and tubing, clean out RBP, pressure test to 1500 psi, POOH with tubing and bit.

(6) RIH with casing scraper across squeeze interval, POOH with tubing and scraper.

(7) RU wireline unit and run Cement Bond Log (CBL) across squeeze interval, POOH and RD wireline unit.

(8) Repeat squeeze procedure if bonding not adequate.

(9) RIH with tubing and release RBP and POOH.

(10) RU wireline unit, RIH with CCL and perforating gun, pressure casing to 1000 psi and perforate 7467-7528 feet with 2 shots per foot (spf), monitor casing for pressure changes, POOH with wireline.

(11) Establish injection rate at 1000 psig.

(12) Break down perforations as follows, if required:
   a. RIH with tubing and packer
   b. Set packer at 7400' and establish injection rate
   c. Open bypass and circulate acid down tubing
   d. Close bypass and pressure annulus to 1000 psi
   e. Pump 1500 gallons 15% pad acid with 180 balls
   f. Surge ball off perfs
   g. Release packer and trip in across perfs
   h. Set packer and establish injection rate
   i. POOH with tubing and packer

NOTE: MAXIMUM PRESSURE IS 3000 PSIG

(13) RIH with tubing and RBP, set RBP at 7400 feet, circulate sand to bottom and cap RBP with 20 feet, POOH with tubing.

(14) RU wireline unit, RIH with CCL and perforating gun, pressure casing to 1000 psi and perforate 7226-7263 feet with 2 spf, (monitor casing for pressure changes) POOH with wireline

(15) Establish injection rate at 1000 psig, break down perforations as follows, if required:
- a. RIH with tubing and packer
- b. Set packer at 7150 feet
- c. Open bypass and circulate acid down tubing
- d. Close bypass and pressure annulus to 1000 psi
- e. Pump 1000 gallons 15% Pad acid with 110 balls
- f. Surge ball off perfs
- g. Release packer and tip in across perfs
- h. Set packer and establish injection rate
- i. POOH with tubing and packer

NOTE: MAXIMUM PRESSURE IS 3000 PSIG

(16) RIH and circulate sand off RBP, release RBP and POOH to 6600 feet and RBP, circulate sand to bottom and cap RBP with 20 feet, pressure test to 1000 psi, swab down to 6000 feet, POOH with tubing.

(17) RU wireline unit, RIH with CCL and perforating gun, perforate as follows with 2 spf:
- a. 6085-6090'
- b. 5268-5283'
- c. 4832-4837'
- d. 4106-4121'
- e. 3845-3860'

POOH with wireline, RD wireline unit.

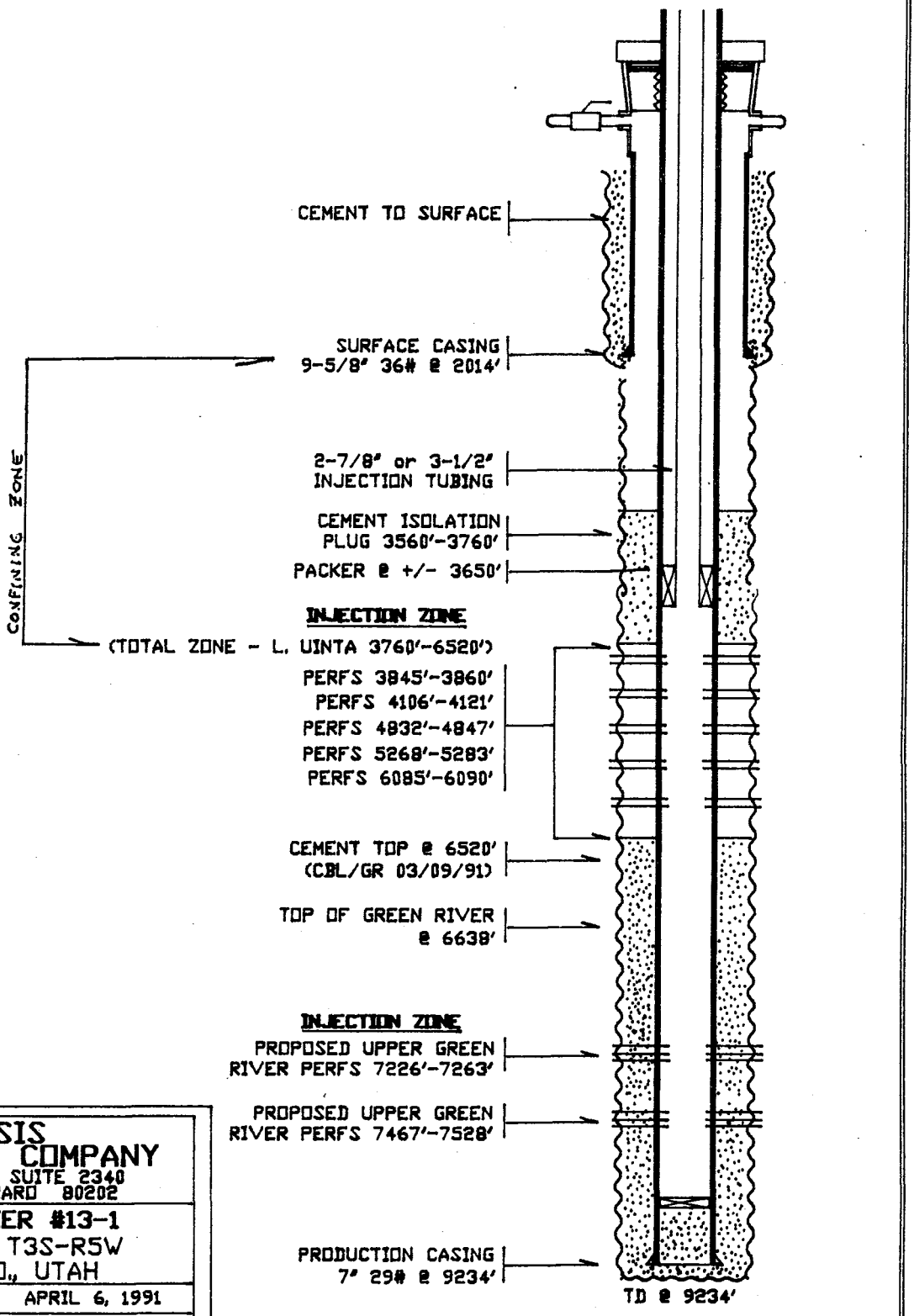
(18) RIH with tubing 5000 feet, swab well to obtain water sample, TOOH.

(19) RIH and circulate sand off RBP, POOH laying down tubing and RBP.

(20) RIH with injection packer and coated tubing to ±3650', set packer and open bypass, circulate packer fluid down casing, close bypass and land tubing, RDSU and release service unit.

(21) Place well on SWD status upon approval from the EPA.

The construction of the well complies with the UIC requirements and is incorporated into the permit.



GENESIS PRODUCTION COMPANY 1675 BROADWAY SUITE 2340 DENVER, COLORADO 80202	
PAIUTE-WALKER #13-1 NENE SEC 13 T3S-R5W DUCHESNE CO., UTAH	
DRAWN BY: DDW	DATE: APRIL 6, 1991
WELLBORE SCHEMATIC EXHIBIT 2B PROPOSED WELLBORE COMPLETION	

NOTE: REVISED 04/06/91

APPENDIX B

(Reporting Forms)

1. EPA Form 7520- 7: APPLICATION TO TRANSFER PERMIT
2. EPA Form 7520-10: COMPLETION REPORT FOR BRINE DISPOSAL WELL
3. EPA Form 7520-11: ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT
4. EPA Form 7520-12: WELL REWORK RECORD
5. EPA Form 7520-13: PLUGGING RECORD

Form Approved. OMB No. 2000-0042. Approval expires 9-30-86

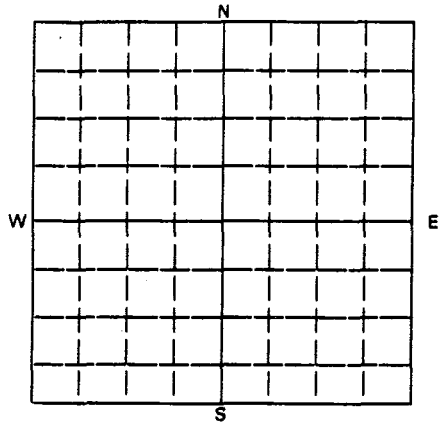
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

APPLICATION TO TRANSFER PERMIT

NAME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ____ ft. from (N/S) ____ Line of quarter section

and ____ ft. from (E/W) ____ Line of quarter section

WELL ACTIVITY	WELL STATUS	TYPE OF PERMIT
☐ Class I	☐ Operating	☐ Individual
☐ Class II	☐ Modification/Conversion	☐ Area
☐ Brine Disposal	☐ Proposed	Number of Wells ____
☐ Enhanced Recovery		
☐ Hydrocarbon Storage		
☐ Class III		
☐ Other		

Lease Name Well Number

NAME(S) AND ADDRESS(ES) OF NEW OWNER(S)	NAME AND ADDRESS OF NEW OPERATOR

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the director.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

Well Class and Type Codes

Class I	Wells used to inject waste below the deepest underground source of drinking water.
Type "I"	Nonhazardous industrial disposal well
"M"	Nonhazardous municipal disposal well
"W"	Hazardous waste disposal well injecting below USDW's
"X"	Other Class I wells (not included in Type "I," "M," or "W")
Class II	Oil and gas production and storage related injection wells.
Type "D"	Produced fluid disposal well
"R"	Enhanced recovery well
"H"	Hydrocarbonn storage well (excluding natural gas)
"X"	Other Class II wells (not included in Type "D," "R," or "H")
Class III	Special process injection wells.
Type "G"	Solution mining well
"S"	Sulfur mining well by Frasch process
"U"	Uranium mining well
"X"	Other Class III wells (not included in Type "G," "S," or "U")
Other Classes	Wells not included in classes above.
	Class V wells which may be permitted under §144.12
	Wells not currently classified as Class I, II, III, or V.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

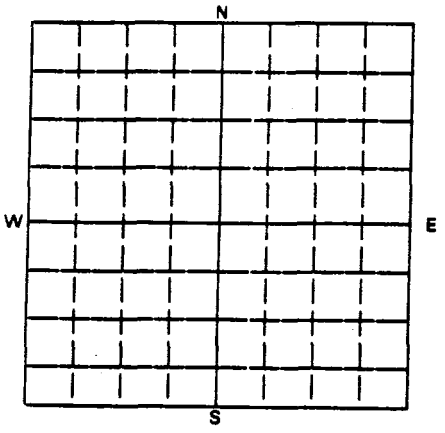
COMPLETION REPORT FOR BRINE DISPOSAL, HYDROCARBON STORAGE, OR ENHANCED RECOVERY WELL

Form Approved
OMB No. 2040-0042
Approval expires 9-30-86

NAME AND ADDRESS OF EXISTING PERMITTEE

NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE | COUNTY | PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY

- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT

- ☐ Individual
- ☐ Area

Number of Wells _____

Estimated Fracture Pressure of Injection Zone

Anticipated Daily Injection Volume (Bbls)		Injection Interval	
Average	Maximum	Feet	to Feet
Anticipated Daily Injection Pressure (PSI)		Depth to Bottom of Lowermost Freshwater Formation (Feet)	
Average	Maximum		

Type of Injection Fluid *(Check the appropriate block(s))*

- ☐ Salt Water
- ☐ Brackish Water
- ☐ Fresh Water
- ☐ Liquid Hydrocarbon
- ☐ Other

Lease Name | Well Number

Name of Injection Zone

Date Drilling Began | Date Well Completed

Permeability of Injection Zone

Date Drilling Completed

Porosity of Injection Zone

CASING AND TUBING			CEMENT		HOLE	
OD Size	Wt/Ft — Grade — New or Used	Depth	Sacks	Class	Depth	Bit Diameter

INJECTION ZONE STIMULATION		WIRE LINE LOGS, LIST EACH TYPE	
Interval Treated	Materials and Amount Used	Log Types	Logged Intervals

Complete Attachments A — E listed on the reverse.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)* | | DATE SIGNED

ATTACHMENTS

A. Present a schematic or other appropriate drawings of the surface and subsurface construction details of the well as built.

B. Describe the method and results of mechanical integrity testing.

C. Present the results of that portion of those logs, tests, and cores which specifically relate to (1) underground sources of drinking water and the confining zone(s) and (2) the injection *and adjacent formations.*

D. Present the status of corrective action on defective wells in the area of review.

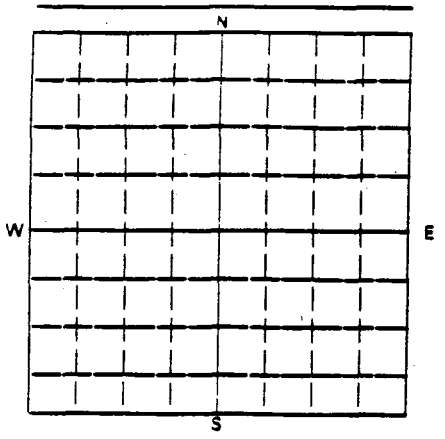
E. Provide to EPA, with the completion report, one final print of all geophysical logs run.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

NAME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ____ ft. from (N/S) ____ Line of quarter section

and ____ ft. from (E/W) ____ Line of quarter section

WELL ACTIVITY

- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT

- ☐ Individual
- ☐ Area

Number of Wells ____

Lease Name Well Number

	INJECTION PRESSURE		TOTAL VOLUME INJECTED		TUBING — CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
MONTH YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

EPA Form 7520-11 (2-84)

PAPERWORK REDUCTION ACT NOTICE

Public reporting burden for this collection of information is estimated at an average of 16 hours per operator, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency 401 M Street, SW, Washington, DC 20460, and to the Office of Management and Budget, Paperwork Reduction Project, Washington, DC 20503.

Form Approved. OMB No. 2000-0042. Approval expires 9-30-86

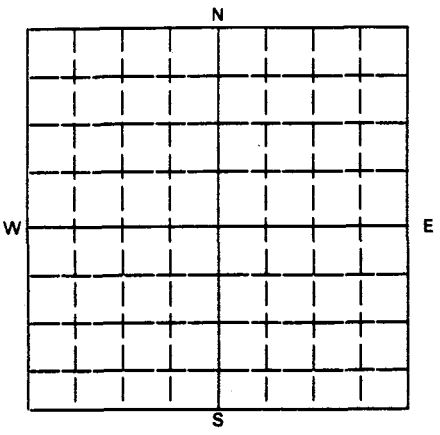
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE	NAME AND ADDRESS OF CONTRACTOR

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ____ ft. from (N/S) ____ Line of quarter section

and ____ ft. from (E/W) ____ Line of quarter section

WELL ACTIVITY		TYPE OF PERMIT
☐ Brine Disposal ☐ Enhanced Recovery ☐ Hydrocarbon Storage	Total Depth Before Rework	☐ Individual ☐ Area Number of Wells ____
	Total Depth After Rework	
Lease Name	Date Rework Commenced	Well Number
	Date Rework Completed	

WELL CASING RECORD — BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture
Size	Depth	Sacks	Type	From	To	Treatment Record

WELL CASING RECORD — AFTER REWORK *(Indicate Additions and Changes Only)*

Casing		Cement		Perforations		Acid or Fracture
Size	Depth	Sacks	Type	From	To	Treatment Record

DESCRIBE REWORK OPERATIONS IN DETAIL USE ADDITIONAL SHEETS IF NECESSARY	WIRE LINE LOGS, LIST EACH TYPE	
	Log Types	Logged Intervals

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

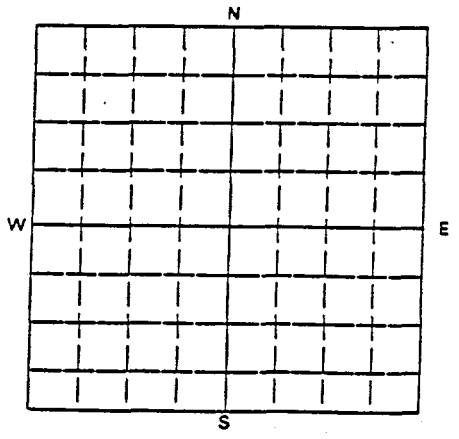
EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

PLUGGING RECORD

NAME AND ADDRESS OF PERMITTEE	NAME AND ADDRESS OF CEMENTING COMPANY

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ____ ft. from (N/S) ____ Line of quarter section

and ____ ft. from (E/W) ____ Line of quarter section

TYPE OF AUTHORIZATION

- ☐ Individual Permit
- ☐ Area Permit
- ☐ Rule

Number of Wells ____

Lease Name

Describe in detail the manner in which the fluid was placed and the method used in introducing it into the hole

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE

WELL ACTIVITY

- ☐ CLASS I
- ☐ CLASS II
  - ☐ Brine Disposal
  - ☐ Enhanced Recovery
  - ☐ Hydrocarbon Storage
- ☐ CLASS III

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☐ The Balance Method
- ☐ The Dump Bailer Method
- ☐ The Two-Plug Method
- ☐ Other

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)							
Depth to Bottom of Tubing or Drill Pipe (ft.)							
Sacks of Cement To Be Used (each plug)							
Slurry Volume To Be Pumped (cu. ft.)							
Calculated Top of Plug (ft.)							
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type Cement or Other Material (Class III)							

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

From	To	From	To

Signature of Cementer or Authorized Representative

Signature of EPA Representative

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (REF. 40 CFR 122.22)

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

APPENDIX C (PLUGGING & ABANDONMENT PLAN)

Plugging and Abandonment Plan
Plugging and Abandonment Form
Plugging and Abandonment Diagram

PLUGGING AND ABANDONMENT PLAN

Plug #1: Move in and rig up service unit, release BOP and RU rig pump, release packer and POOH laying down tubing. Within the seven (7) inch production casing place a balanced plug from 6520' to 6720' using 36 sacks of Type V cement.

Plug #2: POOH laying down tubing to 3560', spot a 200' balanced plug with 36 sacks Type V cement.

Plug #3: Rig up (RU) wireline, RIH and perforate 4 shots at 2070', or 50' below surface casing shoe, for a cement squeeze. Set packer at 1800' and squeeze with 34 sacks of Type V cement leaving 5 sacks inside the casing.

Plug #4: POOH laying down tubing to 50', circulate 9 sacks of Type V cement to surface, POOH with tubing, remove wellhead, PU 1" pipe and run in 50' between 7" X 9-5/8" casings, circulate 7 sacks Type V cement to surface, POOH with 1" pipe, rig down service unit and release rig.

Install dry hole marker and restore location.

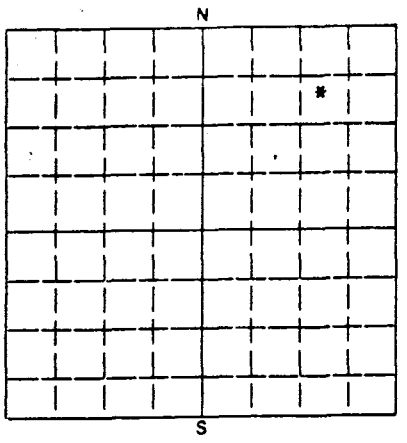
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA PLUGGING AND ABANDONMENT PLAN

NAME AND ADDRESS OF FACILITY
GENESIS PRODUCTION COMPANY
1675 BROADWAY SUITE #2340
DENVER, CO 80202

NAME AND ADDRESS OF OWNER/OPERATOR
GENESIS PRODUCTION COMPANY
1675 BROADWAY SUITE #2340
DENVER, CO. 80202

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER
UTAH	DUCHESNE	

SURFACE LOCATION DESCRIPTION
SW ¼ OF NE ¼ OF NE ¼ SECTION 13 TOWNSHIP 3S RANGE 5W

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location 820 ft. from (N/S) ____ Line of quarter section
and 932 ft. from (E/W) ____ Line of quarter section

TYPE OF AUTHORIZATION
- [*] Individual Permit
- [ ] Area Permit
- [ ] Rule

Number of Wells 1

WELL ACTIVITY
- [ ] CLASS I
- [*] CLASS II
  - [ ] Brine Disposal
  - [ ] Enhanced Recovery
  - [ ] Hydrocarbon Storage
- [ ] CLASS III

Lease Name Paiute Walker

Well Number 13-1

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
9 5/8	36	0	2014	12¼
7	29	0	9234	8½

METHOD OF EMPLACEMENT OF CEMENT PLUGS
- [*] The Balance Method
- [ ] The Dump Bailer Method
- [ ] The Two-Plug Method
- [ ] Other

#4

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2		PLUG #	PLUG #	PLUG #	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	7	7		7-9 5/8	7	7-9 5/8	
Depth to Bottom of Tubing or Drill Pipe (ft.)	6920	3760		2070	50	50	
Sacks of Cement To Be Used (each plug)	36	36		34	9	7	
Slurry Volume To Be Pumped (cu. ft.)	42	42		40	11	8	
Calculated Top of Plug (ft.)	6520	3560		1870	0	0	
Measured Top of Plug (if tagged ft.)	---	---		---	---	---	
Slurry Wt. (Lb./Gal.)	15.6	15.6		15.6	15.6	15.6	
Type Cement or Other Material (Class III)	Class V	Class V		Class V	Class V	Class V	

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED *(If any)*

From	To	From	To

Estimated Cost to Plug Wells

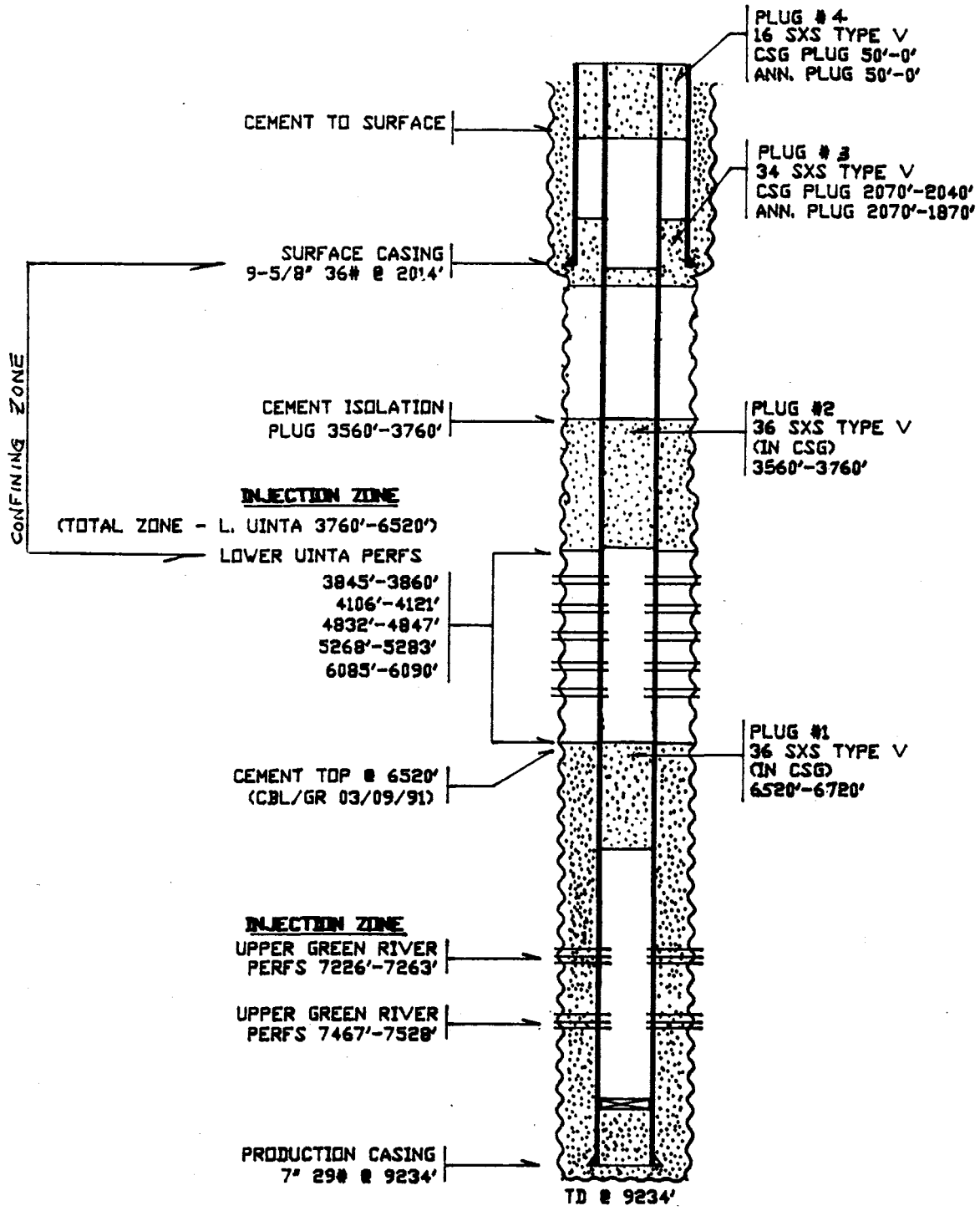
$9250.00

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED
JOHN D. STEUBLE AGENT	John D. Steuble	4/15/91

EPA FINAL Permit No. UT2582-03533



GENESIS PRODUCTION COMPANY 1675 BROADWAY SUITE 2340 DENVER, COLORARO 80202	
PAIUTE-WALKER #13-1 NENE SEC 13 T3S-R5W DUCHESNE CO., UTAH	
DRAWN BY: DDW	DATE: APRIL 6, 1991
WELLBORE SCHEMATIC EXHIBIT 2C PROPOSED ABANDONMENT CONDITIONS	

NOTE: REVISED 04/06/91

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

JUL 22 1991

Ref: 8WM-DW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RECEIVED
JUL 31 1991
DIVISION OF
OIL GAS & MINING

Mr. David D. Wendt
Genesis Production Company
1675 Broadway, Suite 2340
Denver, CO 80202

RE: UNDERGROUND INJECTION CONTROL (UIC)
Final Permit
Paiute-Walker #13-1
EPA Permit No. MT2582-03533
Duchesne County, Utah
43-013-30971
Sec. 13, T. 3S, R. 5W

Dear Mr. Wendt:

Enclosed is a Final Underground Injection Control Permit for the proposed salt water disposal well, the Paiute-Walker #13-1 Altamont Field, Duchesne County, Utah. A Statement of Basis is also enclosed which discusses the development of the permit.

The public comment period ended on July 5, 1991. There were no comments from either the general public nor the land owners who may be affected by the proposed action. We also did not receive any comments from you concerning our actions.

Following conversion, but prior to injection, Genesis Production Company (Genesis) must meet the requirements outlined in Part II, Section C. 1., Prior to Commencing Injection.

It is Genesis' responsibility to be familiar with, and to comply with, all conditions contained in this permit.

If you have any questions on this action please contact Chuck Williams at (303) 293-1550. Also direct all correspondence and/or reports to **ATTENTION: CHUCK WILLIAMS AT MAIL CODE 8WM-DW**. Thank you for your continued cooperation.

Sincerely,

for Max H. Dodson, Director
Water Management Division

Enclosures: Final Permit
Statement of Basis

David D. Wendt
Genesis Production Company
UT2582-03533

cc: Ferron Secakuku
Ute Indian Tribe

Charles Cameron
Bureau of Indian Affairs

Jerry Kenszka
Bureau of Land Management

Gilbert Hunt
State of Utah
Department of Natural Resources
Division of Oil, Gas, and Mining

Mr. John Steuble
Direct Energy, Inc.

RECEIVED
JUL 3 1 1991
DIVISION OF
OIL GAS & MINING

STATEMENT OF BASIS

GENESIS PRODUCTION COMPANY

PAIUTE-WALKER #13-1

EPA PERMIT NUMBER: UT2582-03533

CONTACT: Charles E. Williams
U. S. Environmental Protection Agency
UIC Implementation Section, 8WM-DW
999 18th Street, Suite 500
Denver, Colorado 80202-2405
Telephone: (303) 293-1550

DESCRIPTION OF FACILITY AND BACKGROUND INFORMATION:

On March 19, 1991, Genesis Production Company (Genesis) made application for a commercial underground injection permit for the disposal of produced Green River-Wasatch Formation brine fluids (a sample of the injected waters is not available until disposal operations commence) from the surrounding Altamont Field. This permit application is for the conversion of a temporarily abandoned well, Paiute Walker #13-1 to a commercial salt water disposal well.

The area covered by the application is in a portion of the Altamont Field which lies within the exterior boundary of the Uintah-Ouray Indian Reservation. The Paiute-Walker #13-1 is located in the NE 1/4 of the NE 1/4, Section 13 - T3S - R5W, Duchesne County, Utah. The permittee has sent notices to all surface landowners within one-quarter (1/4) mile of the proposed disposal well.

An Aquifer Exemption for a one-quarter (1/4) mile radius around the well will not be required because the proposed injection intervals (3760'-7520') are below the top of the saline water facies (2650'); see Technical Publication No. 92 as submitted with the permit application.

A casing/tubing annulus pressure test must be performed and witnessed by representatives of the EPA prior to commencement of injection. The Paiute-Walker #13-1 must pass the test, thereby demonstrating the absence of leaks in the casing, packer, and/or tubing. Written authorization to inject will be given subsequent to the mechanical integrity demonstration and submission of a Well Rework Record (EPA Form 7520-12). EPA also requires that the

permittee monitor the surface pressure, and the tubing X 7 inch casing annulus pressure.

Genesis has submitted all required information and data necessary for permit issuance in accordance with 40 CFR Parts 144, 146 and 147, and a draft permit has been prepared.

The permit will be issued for the operating life of the well from the effective date of this permit, therefore, no reapplication will be necessary unless the permit is terminated for reasonable cause (40 CFR 144.39, 144.40, and 144.41). However, the permit will be reviewed every five (5) years.

This Statement of Basis gives the derivation of the site specific permit conditions and reasons for them, on the basis of the direct implementation regulations promulgated for the Uintah-Ouray Indian Tribal lands in the State of Utah, under the Underground Injection Control (UIC) program provisions for the Safe Drinking Water Act (SDWA). The referenced sections and conditions correspond to the sections and conditions in permit UT2582-03533. The general permit conditions for which the content is mandatory and not subject to site specific differences (based on 40 CFR Parts 144, 146 and 147), are not included in the discussion.

PART II, Section A WELL CONVERSION REQUIREMENTS

Casing and Cementing (Condition 1)

The well was drilled, cased and cemented, but never completed during August 1984. A casing and cementing plan was submitted with the permit application and construction is as follows:

(1) Surface casing (9-5/8 inch) is set in a 12-1/4 inch diameter hole to a depth of 2,014 feet kelly bushing (KB). The casing is secured with 250 sxs of Class 'G' cement which was circulated to the surface, isolating the casing from the wellbore.

(2) Long string casing (7 inch) is set in an 8-1/2 inch diameter hole to a depth of 9,234 feet KB. This casing is secured with cement from total depth, up to a depth of 6,520 feet KB as calculated by a Cement Bond Log (CBL).

UPON REENTRY OF THIS TEMPORARILY ABANDONED WELL, THE CONVERSION TO A SALT WATER DISPOSAL WELL WILL BE AS FOLLOWS:

(1) MIRUSU, install BOP and RU rig pump, PU casing scraper, PU 2-7/8 inch tubing (work string) and RIH to ±7600 feet, POOH with tubing and scraper.

(2) PU retrievable Bridge Plug (RBP), RIH with RBP and set at ±4000 feet, circulate sand to bottom and cap RBP with 20 feet. POOH with tubing.

(3) RU wireline truck, RIH with Casing Collar Locator (CCL) and perforating gun, perforate with 4 shots at 3760 feet, POOH with wireline and rig down (RD) wireline truck.

(4) RIH with tension packer and tubing, set packer at ±3650 feet, pressure test tubing and RBP to 1500 psi, establish circulation with water, cement squeeze with 40 sacks Type V cement with 2% CaCl, monitor bradenhead for returns during squeeze.

(5) WOC overnight, release packer and POOH, RIH with 5-7/8 inch bit and tubing, clean out RBP, pressure test to 1500 psi, POOH with tubing and bit.

(6) RIH with casing scraper across squeeze interval, POOH with tubing and scraper.

(7) RU wireline unit and run Cement Bond Log (CBL) across squeeze interval, POOH and RD wireline unit.

(8) Repeat squeeze procedure if bonding not adequate.

(9) RIH with tubing and release RBP and POOH.

(10) RU wireline unit, RIH with CCL and perforating gun, pressure casing to 1000 psi and perforate 7467-7528 feet with 2 shots per foot (spf), monitor casing for pressure changes, POOH with wireline.

(11) Establish injection rate at 1000 psig.

(12) Well conversion modifications, if required, may also include acidizing the Upper Green River Formation perforations with 1500 gallons of 15% pad acid with ball action.

NOTE: MAXIMUM PRESSURE IS 3000 PSIG

(13) RIH with tubing and RBP, set RBP at 7400 feet, circulate sand to bottom and cap RBP with 20 feet, POOH with tubing.

(14) RU wireline unit, RIH with CCL and perforating gun, pressure casing to 1000 psi and perforate 7226-7263 feet with 2 spf, (monitor casing for pressure changes) POOH with wireline.

(15) Establish injection rate at 1000 psig, break down perforations with 1000 gallons 15% pad acid with ball action, if required, release packer and trip in across perfs, set packer and establish injection rate, POOH with tubing and packer.

NOTE: MAXIMUM PRESSURE IS 3000 PSIG

(16) RIH and circulate sand off RBP, release RBP and POOH to 6600 feet and set RBP, circulate sand to bottom and cap RBP with 20 feet, pressure test to 1000 psi, swab down to 6000 feet, POOH with tubing.

(17) RU wireline unit, RIH with CCL and perforating gun, perforate as follows with 2 spf:

a. 6085-6090'
b. 5268-5283'
c. 4832-4847'
d. 4106-4121'
e. 3845-3860'

POOH with wireline, RD wireline unit.

(18) RIH with tubing 5000 feet, swab well to obtain water sample, TOOH.

(19) RIH and circulate sand off RBP, POOH laying down tubing and RBP.

(20) RIH with injection packer and coated tubing to ±3650', set packer and open bypass, circulate packer fluid down casing, close bypass and land tubing, RDSU and release service unit.

(21) Place well on SWD status upon approval from the EPA.

The construction of the well complies with the UIC requirements and is incorporated into the permit.

Logs from an offset well (Smith 1-14C5) located in Section 14, T3S, R5W have been obtained and evaluated for NaCl concentrations. This well is located approximately one mile west of the Paiute-Walker #13-1. A summary of the calculations covering intervals from 1540' to 3142' note the NaCl concentrations are all above the 10,000 ppm figure. Therefore, all possible USDWs located in the Paiute-Walker #13-1 well are protected by 2014 feet of surface casing cemented to surface.

Tubing and Packer Specifications (Condition 2)

The 2-7/8 inch or 3-1/2 inch tubing (depending on injection rates) information submitted by the applicant is incorporated into the permit and shall be binding on the permittee. The packer will be set at a depth of approximately 3,650 feet KB, or no more than 100 feet above the top perforations.

Monitoring Devices (Condition 3)

For the purposes of taking tubing and tubing/long string casing annulus pressure measurements, the EPA is requiring that the permittee install 1/2 inch fittings with cut-off valves at the well head on the tubing, and on the tubing/ casing annulus. EPA is

further requiring the permittee to install a sampling tap on the line to the injection well and a flow meter that will be used to measure cumulative volumes of injected fluid. The permittee shall be required to maintain these devices in good operating condition.

Formation Testing

When the injection zones are perforated, the well will be swabbed and a representative water sample will be taken from the injection zones. The permittee is required to determine the injection zone fluid pore pressure (static bottom-hole pressure). For the purpose of identifying the current formation fracture pressure, an appropriate and documented step-rate injectivity test will be performed by the permittee in the Uinta-Green River injection zone(s) when stabilized injection rate conditions have been attained and using fluids normally being injected. This step-rate test will be run within six months of the initial injection date.

PART II, Section B CORRECTIVE ACTION

The applicant submitted the required Area of Review (AOR) information with the permit application. The applicant is not required to take any corrective action since the subject well is the only well within the 1/4-mile area of review (AOR).

PART II, Section C WELL OPERATION

Prior To Commencing Injection (Condition 1)

Injection for the Paiute-Walker #13-1 will not commence until the permittee has fulfilled all applicable conditions of the permit and has received written authorization from the Director as to the following: (1) the permittee has determined the injection zone fluid pore pressure; (2) submitted a Cement Bond Log (CBL) for approval to insure adequate bonding; (3) submitted an analysis of the water from the injection zones following perforations; (4) a mechanical integrity pressure test (MIT) has been performed and witnessed according to the guidelines discussed in the permit; and (5) submitted a Well Rework Record (EPA Form 7520-12) following conversion.

Mechanical Integrity (Condition 2)

A tubing/casing annulus pressure test must be conducted at least once every five (5) years to demonstrate continued tubing, packer, and casing integrity by using an EPA approved method.

Injection Interval (Condition 3)

Injection will be limited to the gross Lower Uinta - Upper Green River Formations (3,760'-6,520') and (7,226'-7,528'). The permittee may find it necessary to perforate additional

intervals within the above gross intervals. These additional perforations may be added later and reported on EPA Form 7520-12.

The confining zones for the Lower Uinta perforations (3,760'-6,520') to the base of the surface casing (2,014') is 1,746'. The majority of this interval is predominately silty, calcareous shales with interbedded siliceous sands and limestones which should provide an effective barrier to upward movement of disposed waters. In addition, the conversion of the well will include a 200 foot cement plug in the annular space between the well casing and the formation above the top perforated injection interval.

Injection Pressure Limitation (Condition 4)

The permittee has requested a maximum surface injection pressure of 1,650 pounds per square inch gauge (psig), with an average of 1,000 psig. The permittee did not supply site specific fracture pressure data to support requested pressures, therefore, based on 40 CFR 147.1353 is a value for wellhead pressure calculated by using the following formula:

$$Pm = [0.733 - 0.433\ Sg]d$$

Where: Pm = maximum pressure at wellhead in pounds per square inch
Sg = specific gravity of injected fluid (unitless), assume 1.00
d = depth to injection zone = 3760 feet

or $Pm = [0.733 - 0.433\ (1.00)]\ 3760 = 1128$ psig

The permittee shall limit the maximum surface injection pressure to 1128 psig, until such time as operator shall request an increase in the injection pressure. Permit provisions have been made that allows the operator to request an increase in the injection pressure. This request must be accompanied with the results of a step rate test showing that the new requested pressure will not exceed the formation breakdown pressure.

Injection Volume Limitation (Condition 5)

There is no limitation on the number of barrels of water per day (BWPD) that shall be injected into the Paiute-Walker #13-1, provided that in no case shall injection pressure exceed that limit shown in Part II, Section C. 4., of this permit. Injected fluids shall be limited to that which is produced in association with oil and gas from the Green River - Wasatch Formations in the Altamont Field.

PART II, Section D MONITORING, RECORDKEEPING AND REPORTING OF RESULTS

Injection Well Monitoring Program (Condition 1)

The permittee is required to monitor water quality of the injected fluids at annual intervals for total dissolved solids, pH, specific conductivity, and specific gravity. Any time there is a change in the source of injection fluid, a new water quality analysis is required.

In addition, weekly observations of flow rate, injection pressure, annulus pressure and cumulative volume will be made. Observation of each will be recorded on a monthly basis.

The permittee shall maintain copies (or originals) of all pertinent records at the office of Direct Energy, Inc., Salt Lake City, Utah.

PART II, Section E PLUGGING AND ABANDONMENT

Plugging and Abandonment Plan (Condition 1)

The plugging and abandonment plan submitted by the applicant (Appendix C of the Permit) consists of four (4) plugs with the following specifications. This plan has been reviewed and approved by the EPA. It is consistent with UIC requirements.

Plug #1: Move in and rig up service unit, release BOP and RU rig pump, release packer and POOH laying down tubing. Within the seven (7) inch production casing place a balanced plug from 6520' to 6720' using 36 sacks of Type V cement.

Plug #2: POOH laying down tubing to 3560', spot a 200' balanced plug with 36 sacks Type V cement.

Plug #3: Rig up (RU) wireline, RIH and perforate 4 shots at 2070', or 50' below surface casing shoe, for a cement squeeze. Set packer at 1800' and squeeze with 34 sacks of Type V cement leaving 5 sacks inside the casing.

Plug #4: POOH laying down tubing to 50', circulate 9 sacks of Type V cement to surface, POOH with tubing, remove wellhead, PU 1" pipe and run in 50' between 7" X 9-5/8" casings, circulate 7 sacks Type V cement to surface, POOH with 1" pipe, rig down service unit and release rig.

Install dry hole marker and restore location.

PART II, Section F FINANCIAL RESPONSIBILITY

Demonstration of Financial Responsibility (Condition 1)

Genesis Production Company has chosen to demonstrate financial responsibility through a Certificate of Deposit (CD) and a Standby Trust Agreement that has been reviewed and approved by the EPA.

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

INJECTION WELL - PRESSURE TEST
****

TEST DATE: 10-16-91 WELL OWNER/OPERATOR: Lynch-Wendt Management Services Inc.

DISPOSAL WELL: ✓ ENHANCED RECOVERY WELL: _____ OTHER: _____

API NO: 43-013-30971 WELL NAME/NUMBER: Paiute-Walker 13-ND-1

SECTION: 13 TOWNSHIP: 35 RANGE: 5W

INITIAL CONDITIONS:

TUBING - rate: 0 pressure: 0

CASING/TUBING ANNULUS - pressure: 0

CONDITIONS DURING TEST:

TUBING pressure: OPEN psi for 15 minutes

CASING/TUBING ANNULUS pressure: 1600 psi

annulus pressure drop during test: None psi

CONDITIONS AFTER TEST:

TUBING pressure: 0 psi

CASING/TUBING ANNULUS pressure: 1600 - 0 psi

REMARKS: Cmt. 4100-1850 PKR Set w/16,000 [illegible]
Arrow set ONE PKR.
Cmt 200 ft up in Surface Pipe

John Steed
OPERATOR REPRESENTATIVE

John L. Baker
DOGM WITNESS

Sun Oilfield Service, Inc.

SUB-SURFACE SURVEY

Company BLUE BENCH WATER DISP. WELL Field ALTAMONT Lease and Well # 13-1

County DUCHESNE State UTAH Date OCTOBER 14/15, 1991

T. D. ..... Formation .....

Elevation GL Casing .....

Perforation ..... Tubing .....

Datum Point 7500'

19 HR. BHP BUILDUP SURVEY (7500')

TIME(HOURS)	PRESSURE(PSI)	
TOP(IN)	0	
00:00	3288	-- BOMB ON BOTTOM AT 3:30PM, 10-14-91.
00:15	3290	
00:30	3293	
00:45	3293	
01:00	3295	
02:00	3295	
03:00	3295	
04:00	3295	
05:00	3295	
06:00	3295	
08:00	3295	
10:00	3295	
12:00	3295	
14:00	3295	
16:00	3295	
18:00	3295	
19:00	3295	-- BOMB OFF BOTTOM AT 10:30AM,10-15-91.

19 HR. STATIC GRADIENT SURVEY

DEPTH(FEET)	PRESSURE(PSI)	GRADIENT(#/FT.)
TOP	0	
2000	884	.442
4100	1821	.446
5200	2308	.487
5800	2567	.432
6500	2868	.430
7200	3168	.429
7500	3295	.423

REMARKS:

1. AMERADA INSTRUMENT #52316, 5000 PSI, 24 HR. CLOCK.
2. TEMPERATURE AT 7500', 182 oF.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Genesis Production Company
ADDRESS 1675 Broadway Suite 2340
Denver, CO 80202

Well name and number: Paiute-Walker #13-1

Field or Unit name: Altamont Lease no.

Well location: QQ NENE section 13 township 3S range 5W county Duchesne

Is this application for expansion of an existing project? . . Yes [ ] No [X]

Will the proposed well be used for: Enhanced Recovery? . . Yes [ ] No [ ]
Disposal? . . . . . Yes [X] No [ ]
Storage? . . . . . Yes [ ] No [ ]

Is this application for a new well to be drilled? . . . . . Yes [ ] No [X]

If this application is for an existing well,
has a casing test been performed on the well? . . . . . Yes [X] No [ ]
Date of test: #?(#?(?(! 3/9/91
API number: 43-013-30971

Proposed injection interval: from 3760'- to 7528'

Proposed maximum injection: rate 10,000 BBL/d pressure 1650# (1500) psig

Proposed injection zone contains [ ] oil, [ ] gas, and/or [ ] fresh water within ½ mile of the well.

IMPORTANT: Additional information as required by R615-5-2 should accompany this form.

List of Attachments: Permit with exhibits.

I certify that this report is true and complete to the best of my knowledge.

Name John D. Steuble
Title AGENT
Phone No. (801) 943-8144

Signature John D. Steuble
Date 5/19/91

(State use only)
Application approved by _____ Title _____
Approval Date _____

Comments:

(3/89)

Tribe can provide additional information or respond to questions, please so advise.

Respectfully,

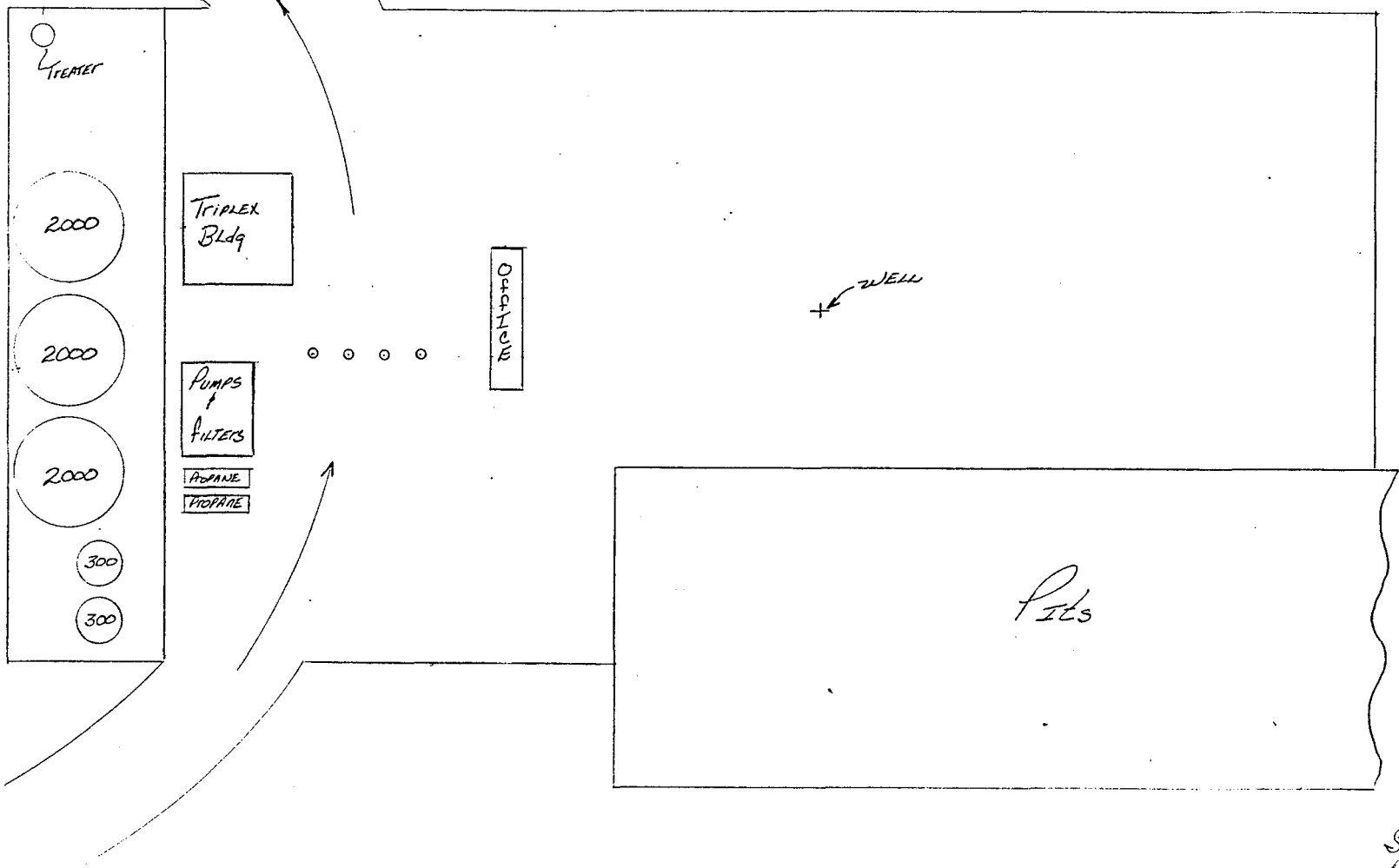
Robert S. Thompson, III

RST:dk

cc: Business Committee
Ferron Secakuku

General Layout

Genesis Production Company
Paiute - Walker # 13-1
Duchesne Co, Utah

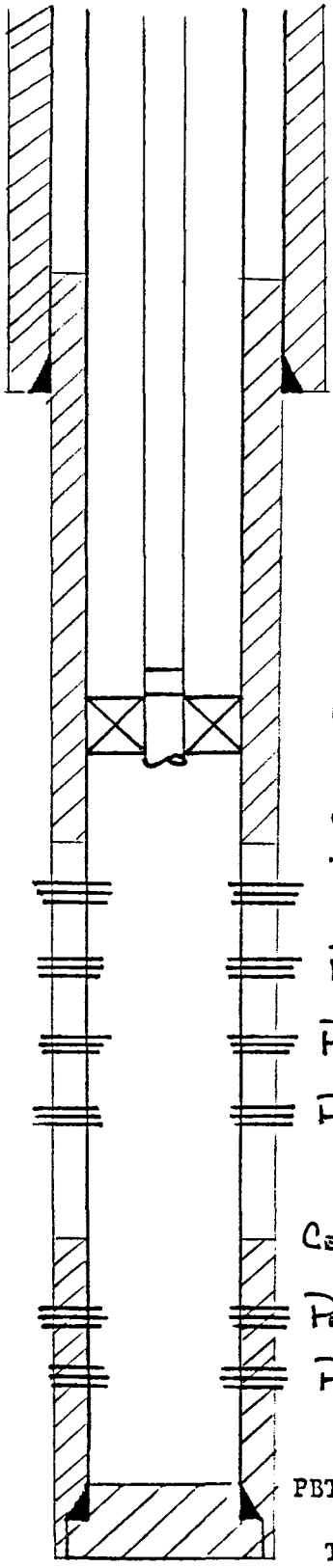


Scale 1:30
Page 1
Dec 9, 1991

LOCATION SW-NE-NE 13 -T3S -R5W, DUCHESNE COUNTY, UTAH

ZONE U. GREEN RIVER / L. UINTA FUNCTION SALT WATER DISPOSAL

DATUM GROUND LEVEL G.L. 5898



SURFACE CASING

Size 9 5/8 In. Weight 36 Lb.

Set at 2014 Ft. with 820 Sx.

PRODUCTION CASING

Size 7 In. Weight 29 Lb.

Set at 9234 Ft. with 435 Sx.

9 5/8" CASING IS CEMENTED TO SURFACE

3 1/2" 9.3 #/FT J55 TUBING - HYDROTESTED TO 6300 psi
(TUBING HAS FIBERGLASS LINING)

ON-OFF TOOL

MOUNTAIN STATES ARROW-SET I PACKER @ 4077'

CEMENT ISOLATION PLUG - 1850' - 4100' (715 SACKS)

PERFS (L. UINTA) 4106' - 4121 (2 jspf - 31 HOLES)

PERFS (L. UINTA) 4832' - 4847' (2 jspf - 31 HOLES)

PERFS (L. UINTA) 5268' - 5283' (2 jspf - 31 HOLES)

PERFS (L. UINTA) 6085' - 6090' (2 jspf - 11 HOLES)

CEMENT TOP (PRIMARY) @ 6520'

PERFS (U. GREEN RIVER) 7231' - 7257' (2 jspf - 53 HOLES)

PERFS (U. GREEN RIVER) 7467' - 7528' (2 jspf - 123 HOLES)

PBTD 9189 Ft.

TD 9234 Ft.

DRAWN 12-9-91

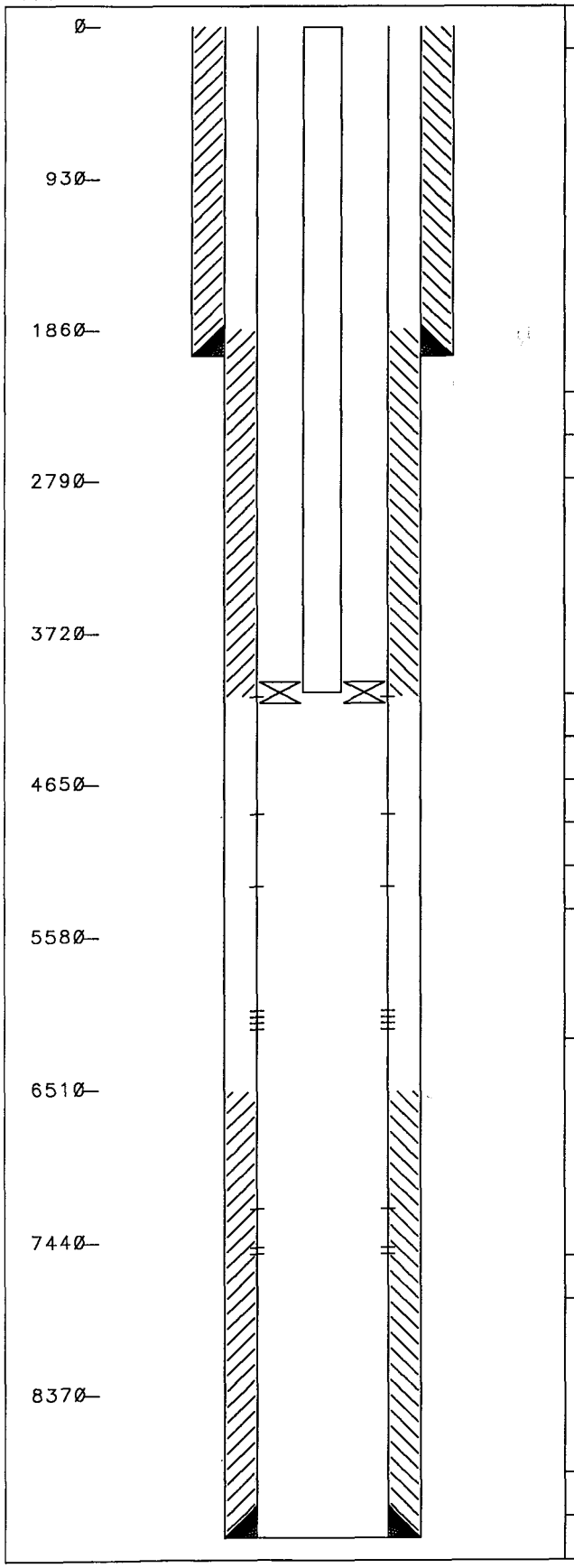
DDW

Lease:FEE
Well #:13-1

Spud Date: 07/13/1981
KB: 0
TD: 9234'

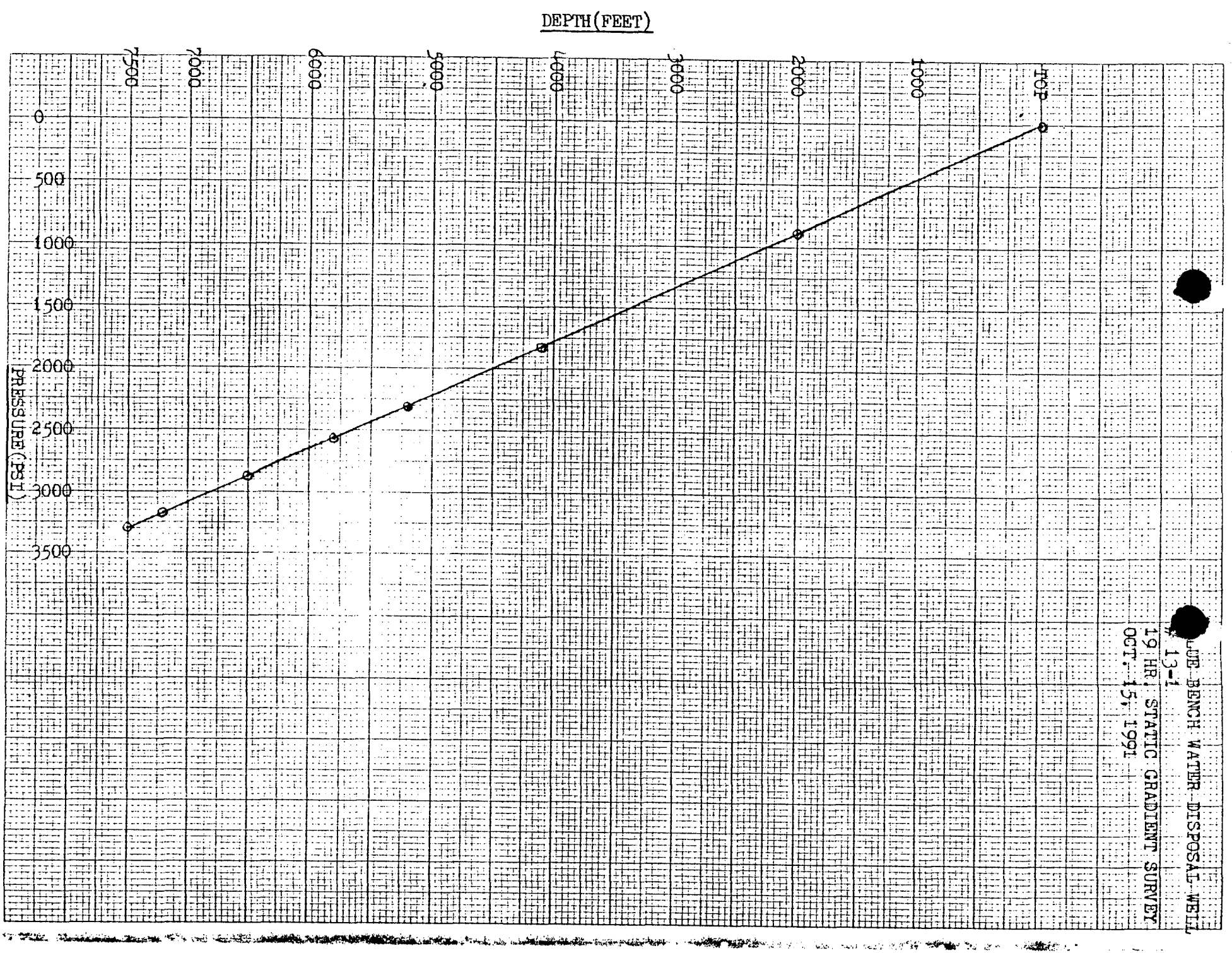
Comp Date: 10/16/1991
ELEV: 5898
PBTD: 0

API #: 43-013-30971-
Location: Sec 13 Twn 3S Rng 5W
County: DUCHESNE
State: UT
Field: ALTAMONT
Operator: GENESIS



Start	End	Size / Length	Description
0.0	2014.0	12.250 / 2014.0	Hole: SURFACE
0.0	2014.0	/ 2014.0	Cement: 820 SXS
0.0	2014.0	9.625 / 2014.0	Casing: SURFACE
0.0	4077.0	3.500 / 4077.0	Tubing: J55
4077.0	4082.0	7.000 / 5.0	Packer: ARROW-SET I
1850.0	4100.0	/ 2250.0	Cement: 715 SXS
4106.0	4121.0	/ 15.0	Perf: L. UINTA
4832.0	4847.0	/ 15.0	Perf: L. UINTA
5268.0	5283.0	/ 15.0	Perf: L. UINTA
6085.0	6090.0	/ 5.0	Perf: L. UINTA
7231.0	7257.0	/ 26.0	Perf: U. GREEN RIVER
7467.0	7528.0	/ 61.0	Perf: U. GREEN RIVER
2014.0	9234.0	8.750 / 7220.0	Hole: PRODUCTION
6520.0	9234.0	/ 2714.0	Cement: 435 SXS
0.0	9234.0	7.000 / 9234.0	Casing: PRODUCTION

K+E 10 X 10 TO ½ INCH 7 X 10 INCHES
KEUFFEL & ESSER CO MADE IN U.S.A.



ATTACHMENTS

A. Present a schematic or other appropriate drawings of the surface and subsurface construction details of the well as built.

B. Describe the method and results of mechanical integrity testing.

C. Present the results of that portion of those logs, tests, and cores which specifically relate to (1) underground sources of drinking water and the confining zone(s) and (2) the injection and adjacent formations.

D. Present the status of corrective action on defective wells in the area of review.

E. Provide to EPA, with the completion report, one final print of all geophysical logs run.

R 6 W

R 5 W

R 4 W

T 1 S

T 2 S

T 3 S

GENESIS PRODUCTION

AREA WELL PLOT BASE
WITHIN FOUR MILE
RADIUS OF
PAIUTE-WALKER 13-1
WEST ALTAMONT FIELD
DUCHESNE CO., UTAH

C

2-35A5

2-11B5

2-27B5

2-23B4

B'

2-32B4

1-6C4

1-17C4

1-20C4

1-29C4

A'

1-A

B

1

2-17C5

1-16C5

A

1-14C5

13-1

C'

WASHINGTON, DC 20460

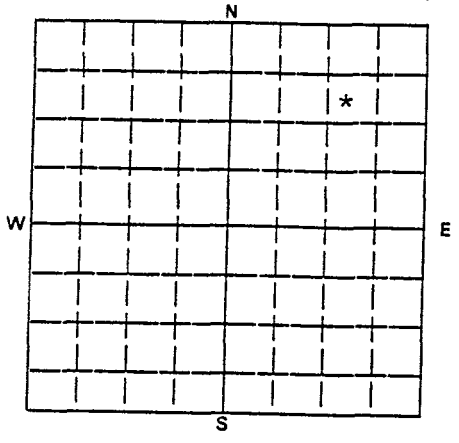
Form Approved
OMB No. 2040-0042
Approval expires 9-30-86

EPA COMPLETION REPORT FOR BRINE DISPOSAL, HYDROCARBON STORAGE, OR ENHANCED RECOVERY WELL

NAME AND ADDRESS OF EXISTING PERMITTEE
Genesis Production Company
1600 Stout Street Suite 720
Denver CO 80202

NAME AND ADDRESS OF SURFACE OWNER
Jeff Anderson c/o West One Bank
888 East 4500 South
Murray UT 84107

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER
UTAH	Duchesne	UT2582-03533

SURFACE LOCATION DESCRIPTION
SW ¼ OF NE ¼ OF NE ¼ SECTION 13 TOWNSHIP 3S RANGE 5W

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT
Surface Location 820 ft. from (N/S) N Line of quarter section
and 932 ft. from (E/W) E Line of quarter section

WELL ACTIVITY
- [X] Brine Disposal
- [ ] Enhanced Recovery
- [ ] Hydrocarbon Storage

TYPE OF PERMIT
- [X] Individual
- [ ] Area

Number of Wells ____

Estimated Fracture Pressure of Injection Zone: 1600

Anticipated Daily Injection Volume (Bbls)		Injection Interval	
Average	Maximum	Feet	to Feet
5000	10,000	4106	7528

Anticipated Daily Injection Pressure (PSI)		Depth to Bottom of Lowermost Freshwater Formation (Feet)
Average	Maximum	Top of Saline Faces at 2650
600	1200	

Type of Injection Fluid *(Check the appropriate block(s))*
- [X] Salt Water
- [X] Brackish Water
- [X] Fresh Water
- [ ] Liquid Hydrocarbon
- [ ] Other

Lease Name	Well Number
Paiute-Walker	#13-1

Name of Injection Zone: L. Uinta - U. Green River

Date Drilling Began	Date Well Completed
7-13-84	10-16-91

Permeability of Injection Zone: Not Available

Date Drilling Completed: 8-22-84

Porosity of Injection Zone: Not Available

CASING AND TUBING

OD Size	Wt/Ft — Grade — New or Used	Depth
9 5/8	36# J55 New	2014'
7	29# N80 New	9234'
3 ½	9.3# J55 Used	4077'

CEMENT / HOLE

Sacks	Class	Depth	Bit Diameter
820	Class H	2015	12 ¼
435	50-50 Poz	9235	8 3/4
-	-	-	-

INJECTION ZONE STIMULATION

Interval Treated	Materials and Amount Used
7231-7528	3700 Gal 15% HCL
4106-6090	None

WIRE LINE LOGS, LIST EACH TYPE

Log Types	Logged Intervals
Cement Bond-GR-CCL	7800 - 3500
Cement Bond-GR	4210 - 3050
Cement Bond-GR	4100 - 1750

Complete Attachments A — E listed on the reverse.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*		DATE SIGNED
David D. Wendt President	David D Wendt	12-9-91

EPA Form 7520-10 (2-84)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

DEC 16 1991

Ref: 8WM-DW

RECEIVED
DEC 19 1991
DIVISION OF
OIL GAS & MINING

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. David D. Wendt
Genesis Production Company
1600 Stout Street, Suite 720
Denver, CO 80202

RE: UNDERGROUND INJECTION CONTROL (UIC)
Authorization to Inject
Paiute-Walker #13-1
EPA Permit No. UT2582-03533
Duchesne County, Utah

Dear Mr. Wendt:

Thank you for the recently submitted information pertaining to the above-referenced injection well. The well Completion Report, well schematic, water analysis of the injection zones, injection zone fluid pore pressure survey, Cement Bond Log and demonstration of Mechanical Integrity have been reviewed and approved. Genesis has complied with all, except the step-rate test which will be run within six (6) months of the initial injection date, of the pertinent permit conditions (Part II, Section C. 1.) for the Paiute-Walker #13-1 salt water disposal well.

Pleased be advised that administrative approval has been granted for water injection into the above referenced well. Please also be aware of the Monitoring, Recordkeeping and Reporting requirements described in Part II, Section D of the permit and that the current maximum surface injection pressure is limited to 1128 psig. Please direct all correspondence to the attention of Chuck Williams at the above letterhead **(MAIL CODE 8WM-DW)** or contact Chuck at (303) 293-1550. Thank you for your continued cooperation.

Sincerely,

Max H. Dodson, Director
Water Management Division

cc: Mr. John Steuble
Direct Energy, Inc.

David D. Wendt
Genesis Production Company
Permit UT2582-03533

cc: Ferron Secakuku
Ute Indian Tribe

Charles Cameron
Bureau of Indian Affairs

Jerry Kenszka
Bureau of Land Management

Gilbert Hunt
State of Utah
Department of Natural Resources
Division of Oil, Gas, and Mining

Form OGC-1b

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER Blue Water Injection Well

2. NAME OF OPERATOR
Lynch-Wendt Management dba Genesis Production Company

3. ADDRESS OF OPERATOR
1600 Stout Street Suite 720 Denver CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface
NENE Sec. 13, T3S-R5W

5. LEASE DESIGNATION AND SERIAL NO.
Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Paiute-Walker

9. WELL NO.
13-1-ND

10. FIELD AND POOL, OR WILDCAT
Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 13, T3S-R5W

14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH	13. STATE
43-013-30971	5898.6 GR	Duchesne	Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other) Change of Well Name	XX			(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Main Genesis wishes to change well name from Paiute-Walker to Blue Bench #13-1.

Well has been completed, first injection took place 1-7-92.

RECEIVED
JAN 13 1992
DIVISION OF
OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Donna Thompson TITLE Administrative Asst. DATE January 10, 1992

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

PARALLAX ENGINEERING
591 25 Road #A3
Grand Junction, Colorado 81505
(303) 243-0070

June 30,1992

State of Utah
Division of Oil, Gas, and Mining
3 Triad Center Suite 350
Salt Lake City, Utah 84180-1203

RE: Blue Bench #13-1
Duchesne County, Utah

Attn: Mr. Dan Jarvis

Dear Sir:

During the permitting process Genesis stated the intention to conduct a step rate test within the first six months of operation. This was based on an anticipated injection pressure of 1000 psig. Due to the low injection pressures encountered and the anticipated costs involved to generate enough volume and pressure increase the test will be deferred until such time as the formation reaches a more stabilized pressure. Presently the average pressure of injection is near 400 psig which is approximately the calculated tubing friction pressure.

Thank you for your assistance in this matter. Should you have any questions please feel free to call me at (303) 243-0070.

Regards,

John D. Steuble
Agent

cc: Genesis Production Co.
Hudson Bay Centre
1600 Stout Street #720
Denver, Colorado 80202

RECEIVED
JUL 10 1992
DIVISION OF
OIL, GAS & MINING

PARALLAX ENGINEERING
591 25 Road #A3
Grand Junction, Colorado 81505
(303) 243-0070

Vault Water 825-1916

July 28,1992

RECEIVED
JUL 29 1992
DIVISION OF OIL GAS & MINING

U. S. Environmental Protection Agency
Region VIII, UIC Section (8WM-DW)
999 18th Street Suite 500
Denver, Colorado 80202-2405

RE: Blue Bench #13-1
Class I Nonhazardous
Permit Application
43-013-30971
Sec 13, T3S, R5W

Attn: Mr. Chuck Williams

Dear Sir:
Enclosed is a permit application for the referenced well in which Genesis Production Company is requesting an additional permit to allow injection of Class I nonhazardous fluids. As stated in the application Genesis prefers to have both the Class I and Class II permits in effect simultaneously.

I believe this application is complete but should you have any questions regarding the information provided please feel free to call me at (303) 243-0070. Thank you for your assistance in this matter.

Regards,

John D. Steuble
Agent

cc: Genesis Production Co.
Hudson Bay Centre
1600 Stout Street #720
Denver, Colorado 80202

RECEIVED
AUG 0 3 1992
DIVISION OF
OIL GAS & MINING

Form Approved. OMB No. 2040-0042. Expires 9-30-86

Form 4 UIC

EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

UNDERGROUND INJECTION CONTROL PERMIT APPLICATION

(Collected under the authority of the Safe Drinking Water Act, Sections 1421, 1422, 40 CFR 144)

EPA ID NUMBER: U UT 2582-03533 (T/A: C)

READ ATTACHED INSTRUCTIONS BEFORE STARTING

FOR OFFICIAL USE ONLY

Application approved mo	day	year	Date Received mo	day	year	Permit/Well Number	Comments
			7	30	92	UT 1641-03726	(existing Class II well)

II. FACILITY NAME AND ADDRESS

Facility Name: Genesis Production Company

Street Address: 1600 Stout Street #720

City: Denver | State: Co. | ZIP Code: 80202

III. OWNER/OPERATOR AND ADDRESS

Owner/Operator Name: Genesis Production Company

Street Address: 1600 Stout Street #720

City: Denver | State: Co. | ZIP Code: 80202

IV. OWNERSHIP STATUS (Mark 'x')

☐ A. Federal ☐ B. State ☒ C. Private

☐ D. Public ☐ E. Other (Explain)

V. SIC CODES

VI. WELL STATUS (Mark 'x')

☒ A. Operating — Date Started: mo 01 | day 06 | year 92

☒ B. Modification/Conversion ☐ C. Proposed

VII. TYPE OF PERMIT REQUESTED (Mark 'x' and specify if required)

☒ A. Individual ☐ B. Area

Number of Existing wells	Number of Proposed wells	Name(s) of field(s) or project(s)
1		N/A

VIII. CLASS AND TYPE OF WELL (see reverse)

A. Class(es) (enter code(s))	B. Type(s) (enter code(s))	C. If class is "other" or type is code 'x,' explain	D. Number of wells per type (if area permit)
1	I		

IX. LOCATION OF WELL(S) OR APPROXIMATE CENTER OF FIELD OR PROJECT

C	A. Latitude Deg	Min	Sec	B. Longitude Deg	Min	Sec	Township and Range Twsp	Range	Sec	¼ Sec	Feet from	Line	Feet from	Line
I							3S	5W	13	NE	820	N	932	E

X. INDIAN LANDS (Mark 'x')

☐ Yes ☒ No

XI. ATTACHMENTS

(Complete the following questions on a separate sheet(s) and number accordingly; see instructions)

FOR CLASSES I, II, III (and other classes) complete and submit on separate sheet(s) Attachments A — U (pp 2-6) as appropriate. Attach maps where required. List attachments by letter which are applicable and are included with your application:

XII. CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

A. Name and Title (Type or Print): David D. Wendt, President

B. Phone No. (Area Code and No.): 303-825-1916

C. Signature: David D. Wendt

D. Date Signed: 7-30-92

EPA Form 7520-6 (2-84)

UNDERGROUND INJECTION CONTROL
CLASS I NONHAZARDOUS
PERMIT APPLICATION
GENESIS PRODUCTION COMPANY
BLUE BENCH #13-1
JULY 22,1992

PERMIT Requirements per CFR 40 Subpart D 144.31 (e)

(1) Activities conducted by applicant requiring permit
Genesis Production Company currently operates this well as a Class II commercial salt water disposal facility for oil field related waters. This permit is requested for an additional Class I nonhazardous disposal designation. Genesis requests to have both permits in effect simultaneously.

This permit application is for a Class I well, which will authorize the Blue Bench #13-1 to dispose of nonhazardous industrial fluids. These fluids will consist of reclaimed water associated with the removal of underground fuel storage tanks, water from surface pit operations, contaminated waters from construction and operational sites, stored fuels, Class II fluids, and other nonhazardous industrial waste fluids.

(2) Name, mailing address, and location of facility
Facility location: NE/NE Section 13 T3S R5W
Duchesne County, Utah

Mailing address: Genesis Production Company
Hudson Bay Centre
1600 Stout Street #720
Denver, Colorado 80202

(3) SIC codes which best reflect principal service of facility
Unknown to permittee.

(4) Operator's name, address, telephone number, and ownership status
Genesis Production Company
Hudson Bay Centre
1600 Stout Street #720
Denver, Colorado 80202

Telephone: (303) 825-1916
Ownership: Privately held corporation

(5) Is facility on Indian Lands
Facility is located on privately owned lands within the exterior tribal boundaries of the Uintah/Ouray Indian Reservation.

(6) A listing of all permits or construction approvals received or applied
Federal EPA UIC permit #UT2582-03533 Class II Approved
State of Utah UIC Class II Permit Approved
Duchesne County Health Department Approved

(7) A topographic map extending one mile beyond property boundaries
Attached Exhibit I

(8) Description of the nature of the business
The facility will be used to dispose of fluids listed in item (1) above.

(9) List of names and addresses of all owners of record of land within 1/4 mile of the facility
Attached Exhibit II. All parties have been sent a notification as to our permit request.

PERMIT REQUIREMENTS per CFR 40 Subpart B 146.14

(1) Information required in 40 CFR 144.31
See previous items 1-9

(2) Map showing the injection well and area of review
Attached Exhibit I

(3) Tabulation of all wells within area of review
No other wells within the area of review.

(4) Maps and cross sections indicating the general vertical and lateral limits of all USDW's within the area of review
There have been no identified USDW's in this area. The State of Utah Department of Natural Resources Technical Publication No. 92 and U.S. Geological Survey Open-File Report 87-394 (enclosed with application) states that the top of the saline ground water (10,000-35,000 TDS mg/l) is approximately 2650 feet from surface in the Blue Bench #13-1. The attached publication details these findings. The map enclosed in the publication has been marked as to the Blue Bench #13-1 location.

(5) Maps and cross sections detailing structure of the local area
Shown on Exhibit III.

(6) Generalized maps and cross sections illustrating the regional geologic setting
Shown on Exhibit IV, Exhibit V and Exhibit VI.

(7) Proposed operating data

(i) Average and maximum daily rate and volume of fluid
Average injectivity is estimated to be 4500 barrels per day. The maximum injectivity will be limited by the maximum allowable pressure.

(ii) Average and maximum injection pressure
Average injection pressure is currently +/- 400 psig at the surface. The anticipated average pressure is expected to climb to +/- 1000 psig during the life of the permit.

The maximum injection pressure requested is based on 40 CFR 147.1353 plus the pressure required to overcome friction losses in the tubing. This calculation is shown below:

$$Pm=[(0.733 - 0.433*Sg)*d] + Fl$$

Pm = maximum wellhead pressure (psig)
Sg = specific gravity of injected fluid (estimated at 1.02)
d = depth to injection zone (4100')
Fl = friction loss in tubing
= [f * tl * W * v^2]/[25.8 * id]
f = fanning friction number based on Renyolds Number (0.00375)
tl = length of tubing string (4077')
w = weight of injected fluids (8.5 pounds/gallon)
v = velocity of injected fluids down tubing (13.09 feet/second)
id = internal diameter of tubing (2.56 inches)
25.8 = constant for units conversion

$$\begin{aligned} Pm &= [(0.733 - 0.433*1.02)*4100] + Fl \\ &= [(0.733 - 0.442)*4100] + Fl \\ &= [(0.291)*4100] + Fl \\ &= 1193 + Fl \\ &= 1193 + [.00375*4077*8.5*13.1^2]/[25.8*2.56] \\ &= 1193 + [22301.5]/[66.0] \\ &= 1193 + 338 \\ &= 1531 \text{ psig} \end{aligned}$$

A step rate test will be run should additional pressure be required. The method will be approved by the EPA prior to commencing the test. This step rate test will be undertaken when the stabilized surface injection pressure reaches 75% or the maximum allowable injection pressure.

(iii) Source and analysis of injection fluids

Class II and UST fluids

A list of Class II sources is shown on Exhibit VII. No UST fluid sources are listed is this application. Additions for both Class II and UST sources is proposed as follows:

a) Request for a new source of fluid to be accepted for disposal will be delivered to the EPA via telephone, fax transmission or mail. The information will include the source name, location, operator and type of operation.

b) The request shall be accompanied by a water analysis consisting of Total Dissolved Solids, pH, Specific Gravity and Specific Conductivity.

c) Any approval for injection may be granted verbally, with subsequent written approval from the Director.

d) Approval or denial of the request will be made in a timely manner.

Class I nonhazardous fluids

A list of Class I sources is shown on Exhibit VIII. Additions of new sources to this list is proposed as follows:

a) Request for a new source of fluid to be accepted for disposal will be delivered to the EPA via telephone, fax transmission or mail. The information will include the source name, location, operator and type of operation.

b) Since these wastes may not be exempted, an analysis of the fluid will include the following: BTEX, EP Corrosivity, EP Toxicity using the Toxicity Characteristic Leaching Procedure (TCLP), EP Ignitability, and EP Reactivity.

c) Any approval for injection may be granted verbally, with subsequent written approval from the Director.

d) Approval or denial of the request will be made in a timely manner.

(8) Proposed formation testing program
An analysis of the formation water is shown on Exhibit IX. The static bottom hole pressure is shown on Exhibit X. A mechanical integrity test was conducted on October 16,1991 and witnessed by the State of Utah Division of Oil, Gas, and Mining inspector Mr. John Berrier. A copy of his report is attached as Exhibit XI. All the aforementioned test were conducted during the original completion to a Class II well. No further testing is planned.

At the present time the average injection pressure is near the calculated friction pressure of the fluids in the tubing. Due to this low pressure required for injection a step rate test will be deferred until the surface injection pressure reaches a stabilized pressure equal to 75% of the maximum allowable injection pressure. Using the requested pressure in item 7 (ii) above this is 1148 psig.

(9) Proposed stimulation program
No additional stimulation program is planned.

(10) Proposed injection procedure
No alterations to the gross injection interval of 3760'-6520'and 7226'-7528' within the Lower Uinta and the Upper Green River formations is requested. This interval is consistent with that previously approved by the EPA.

The fluids to be injected are trucked into the facility via a contract carrier with the possibility of some of the Class II waters being pipelined into the facility. All fluids are placed is a common holding tank and then filtered prior to injection. Once filtered the fluids are injected via a triplex pump into the formation. The injected fluids are treated with a scale inhibitor, corrosion inhibitor and oxygen scavanger prior to being injected.

(11) Schematics of the surface and subsurface construction details
Attached as Exhibit XII and Exhibit XIII.

(12) Contingency plans to cope with shut-ins and well Failures
In the event of a well failure such as a packer leak or a tubing leak the problem will be corrected within 30 days of discovery. In the event of a casing failure, injection will be terminated immediately and the failure will be repaired prior to resuming injection.

(13) Plans for meeting the monitoring requirements in 146.13 (b)

(1) Analysis of injected fluids with sufficient frequency to yield representative data of their characteristics

Class II and UST fluids will be analyzed for the following items: Total Dissolved Solids, pH, Specific Gravity, and Specific Conductivity.

Class I fluids will be sampled and tested for the following: BTEX, EP Corrosivity, EP Toxicity using the Toxicity Characteristic Leaching Procedure (TCLP), EP Ignitability, And EP Reactivity prior to being place in the onsite storage tanks using one of the following criteria:

1) Single loads: Each load will be sampled as to the criteria listed above.

2) Multiple loads from the same source in a storage tank capable of being sealed: The entire stored volume will be sampled as to the criteria listed above. Each time a load is removed the seal numbers will be recorded to assure no additional fluid has been added. The tank will be gauged before and after each volume removal.

3) Multiple loads form a source where the process is not likely to vary in chemical composition: The fluids will be sampled and analyzed as to the criteria listed above at least once per month on a random basis. If the analysis of the monthly samples shows variability in chemical composition the frequency of the analyses may be increased by the Director.

4) Multiple loads form a source which may vary in chemical composition: The fluids will be sampled and analyzed for every load. If the analyses of four (4) loads from the same source indicated the material is not hazardous and the quality has little variability, the Director may waive the requirement for analyzing every load. Subsequent to this waiver, a minimum of one load in six must be analyzed.

(2) **Installation and use of continuous recording devices to monitor injection pressure, flow rate and volume, and the pressure on the annulus between the tubing and the long string of casing**
The injected fluids are measured with a turbine flow meter and recorded on a digital readout as to cumulative volume and flow rate. Neither readings are of a non resettable nature. If required a continuous recording flow meter will be installed. Injection pressure is recorded on a standard pressure recording chart equipped with a 7 day chart. Annular pressure will also be recorded with the same instrument on the same 7 day chart. Genesis is currently evaluating the feasibility of recording the flow rate and pressures on a computerized system.

(14) Corrective actions for wells within area of review
No other wells are within the area of review.

(15) Construction procedures of the wellbore

(1) Surface casing (9 5/8 inch) is set in a 12 1/4 inch diameter hole to a depth of 2014 feet KB. The casing is secured with 250 sacks of Class 'G' cement which was circulated to the surface.

(2) Long string casing (7 inch) is set in an 8 1/2 inch diameter hole to a depth of 9234 feet KB. This casing is secured with cement form total depth, up to a depth of 6520 feet KB and from 4100 feet KB to a depth of 1850 feet KB as calculated by a Cement Bond Log (CBL).

(3) 3 1/2 inch tubing is connected to a packer at 4077 feet KB. The annular space between the 3 1/2" tubing and the 7" casing is filled with a fresh water treated with a scale inhibitor, corrosion inhibitor and oxygen scavenger.

(4) Perforations are as follows:
4106'-4121', 4832'-4847', 5268'-5283', 6085'-6090', 7231'-7257' and 7467'-7528'.

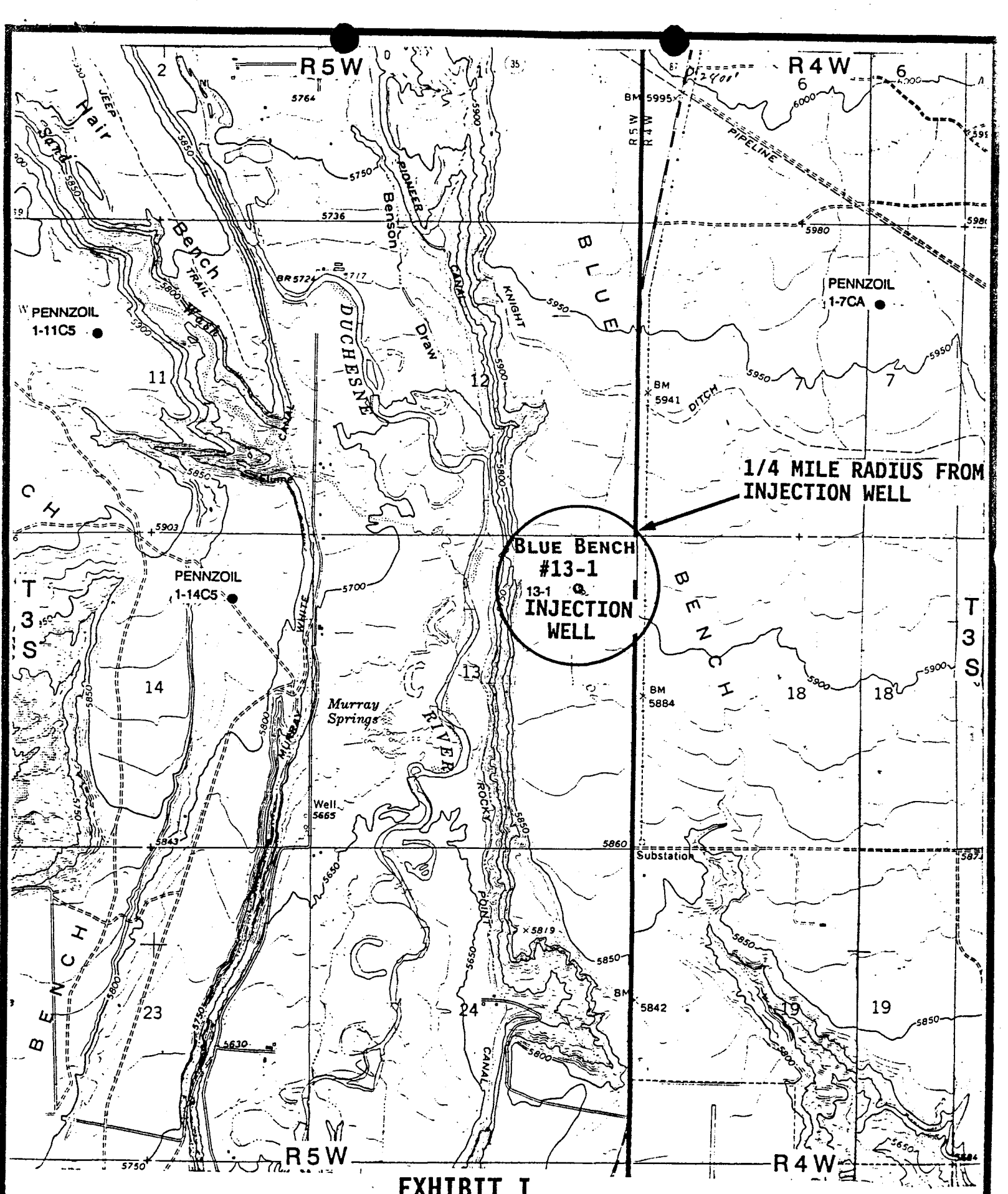
A well bore schematic is attached as Exhibit XIII. No additional changes are anticipated.

(16) Financial responsibility

Genesis Production Company has chosen to demonstrate financial responsibility through a Certificate of Deposit and a Standby Trust Agreement that has been reviewed and approved by the EPA.

OTHER INFORMATION PROVIDED

1. P&A detail sheet EPA form #7520-14
2. P&A Procedure
3. P&A Wellbore Schematic


R5W
R4W
T3S
PENNZOIL
1-11C5
PENNZOIL
1-7CA
PENNZOIL
1-14C5
1/4 MILE RADIUS FROM
INJECTION WELL
BLUE BENCH
#13-1
13-1
INJECTION
WELL
Murray
Springs
Well
5665
Substation
BLUE
BENCH
DUCHESNE
RIVER
Benson
Draw
PIONEER
CANAL
KNIGHT
DITCH
PIPELINE
JEEP
TRAIL
Hair
Sand
Wash
Bench
WHITE
MURRAY
ROCKY
POINT
CANAL
BM 5995
BM 5941
BM 5884
BM 5842
5764
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5903
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5900
5950
5980
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1
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24

EXHIBIT I

Surface Owners
within
1/4 mile Radius
of
Blue Bench #13-1

Capital Gardens Inc.
P.O. Box 9356
Salt Lake City, Ut 84109

Lawrence McPeake
22185 Center #53
Castro Valley, Ca 94541

Burton O. Parker
6416 E. Washington
Las Vegas, Nv 8911

Rex N. Worthen
2294 East 2700 South
Salt Lake City, Ut 84111

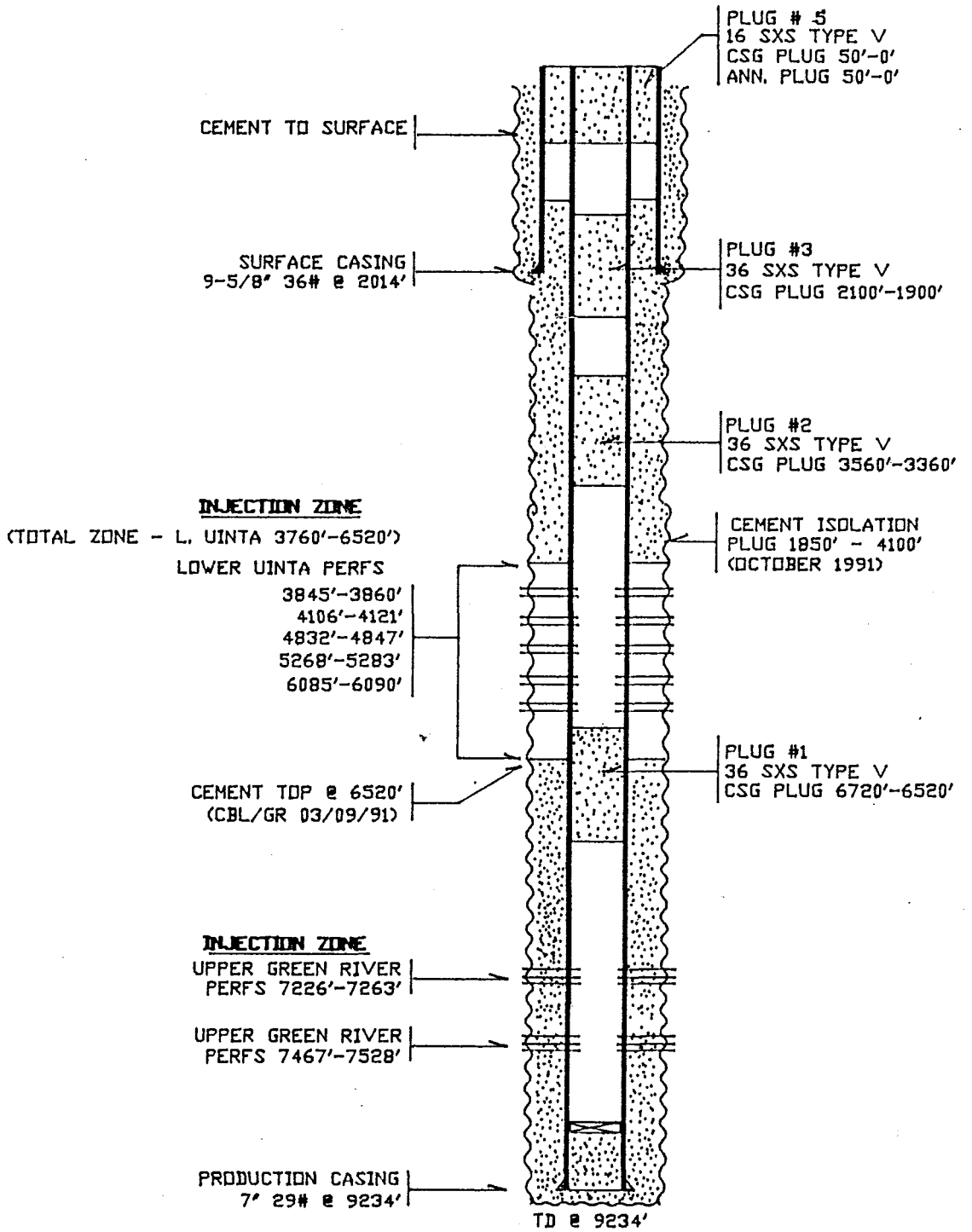
Q. Perry Hislop
660 South 200 East Suite 306
Salt Lake City, Ut 84111

Greenwood Holding Company
Old River Road
Duchesne, Ut 84021

Jeffrey D. Anderson
P.O. Box 520876
Salt Lake City, Ut 84152

Gavilan Petroleum
3030 S. Main #500
Salt Lake City, Ut 84115

EXHIBIT II



GENESIS PRODUCTION COMPANY
BLUE BENCH DISPOSAL #13-1 NENE SEC 13 T3S-R5W DUCHESNE CO., UTAH
DRAWN BY: DDW | DATE: JULY 8, 1992
WELLBORE SCHEMATIC EXHIBIT PROPOSED ABANDONMENT CONDITIONS

DATE: 06/02/92

WELLS BY FIELD

FLD NUM	FIELD NAME	ACCT NUM	COMPANY NAME	WELL NAME	TOWN SHIP	RANGE	SEC	Q-Q	STATUS	API NUMBER	PROD ZONE	ENTITY
50	CLAY BASIN	N1070	WEXPRO COMPANY	CLAY BASIN UNIT #51-S	N030	E240	21	SENW	GSW	4300930047	DKTA	1025
				CLAY BASIN UNIT 60-S	N030	E240	21	SWSW	GSW	4300930056	DKTA	1025
				CLAY BASIN 28-S	N030	E240	22	NWSE	GSW	4300930021	DKTA	1025
				CLAY BASIN UNIT 32-S	N030	E240	22	NWSW	GSW	4300930023	DKTA	1025
				CLAY BASIN UNIT 54-S	N030	E240	22	SESE	GSW	4300930050	DKTA	1025
				CLAY BASIN UNIT 10(#1 C.L	N030	E240	23	SWSE	GSW	4300915634	FR-DK	1025
				CLAY BASIN UNIT 29-S	N030	E240	23	NESW	GSW	4300930020	DKTA	1025
				CLAY BASIN UNIT 44-S	N030	E240	23	SESW	GSW	4300930040	DKTA	1025
				CLAY BASIN UNIT 57-S	N030	E240	24	SWSW	GSW	4300930053	DKTA	1025
				CLAY BASIN UNIT 41-S	N030	E240	26	NWNE	GSW	4300930032	DKTA	1025
				CLAY BASIN UNIT 43-S	N030	E240	26	NENW	GSW	4300930039	DKTA	1025
				CLAY BASIN UNIT 55-S	N030	E240	26	SWNE	GSW	4300930051	DKTA	1025
				CLAY BASIN UNIT #4(E.S. L	N030	E240	27	NWNW	GSW	4300915628	FR-DK	1025
				CLAY BASIN UNIT 37-S	N030	E240	27	NENW	GSW	4300930028	DKTA	1025
				CLAY BASIN UNIT 47-S	N030	E240	27	NENW	GSW	4300930043	DKTA	1025
		N1145	VAN RYAN, L O	BETTY BEE #1	N030	E230	24	NWSE	PGW	4300930012	DKTA	395
		N4850	CELSIUS ENERGY COMPA	CELSIUS FED #25-1	N030	E240	25	NWNE	PA	4300930059	FRTR	9980
		N1070	WEXPRO COMPANY	CLAY BASIN UNIT #8	N030	E240	19	SENE	TA	4300915632	DKTA	1025
				CLAY BASIN UNIT #61	N030	E240	20	NESE	PGW	4300930060	FRTR	1025
				CLAY BASIN UNIT #62	N030	E240	21	SESE	PGW	4300930061	FRTR	1025
				CLAY BASIN UNIT #65	N030	E240	23	SWNE	PA	4300930063		99998
				CLAY BASIN UNIT #5	N030	E240	20	SWNE	GSW	4300915629	DKTA	1025
				CLAY BASIN UNIT #1	N030	E240	22	SWNW	SGW	4300915625	FRTR	1025
				CLAY BASIN UNIT #9	N030	E240	15	NESW	PGW	4300915633	FRTR	1025
				CLAY BASIN UNIT #22	N030	E240	16	NWSE	PGW	4300930010	FRTR	1025
				CLAY BASIN UNIT 53-S	N030	E240	16	SWSE	GSW	4300930049	DKTA	1025
				CLAY BASIN UNIT #8	N030	E240	19	NENE	PGW	4300915632	FRTR	1025
				CLAY BASIN UNIT 40-S	N030	E240	20	NENE	GSW	4300930031	DKTA	1025
				CLAY BASIN UNIT #2	N030	E240	21	NENE	GSW	4300915626	FR-DK	1025
				CLAY BASIN UNIT #7	N030	E240	21	SESW	PGW	4300915631	FRTR	1025
				CLAY BASIN UNIT #7	N030	E240	21	SESW	PA	4300915631	DKTA	1025
				CLAY BASIN 30-S	N030	E240	21	SWNE	GSW	4300930019	DKTA	1025
				CLAY BASIN UNIT #13	N030	E240	21	SENW	PGW	4300915637	FRTR	1025
				CLAY BASIN UNIT 39-S	N030	E240	21	NESW	GSW	4300930030	DKTA	1025
				CLAY BASIN UNIT 50-S	N030	E240	21	NENW	GSW	4300930046	DKTA	1025
				CLAY BASIN UNIT #58-S	N030	E240	21	SENE	GSW	4300930054	DKTA	1025
				CLAY BASIN UNIT #11(R.D.	N030	E240	22	SENW	GSW	4300915635	FRTR	1025
				CLAY BASIN UNIT #23	N030	E240	26	SENW	PGW	4300930009	FRTR	1025
				CLAY BASIN UNIT 42-S	N030	E240	26	NWNW	GSW	4300930033	DKTA	1025
				CLAY BASIN UNIT 46-S	N030	E240	26	SWNW	GSW	4300930042	DKTA	1025
				CLAY BASIN UNIT 56-S	N030	E240	26	NENE	GSW	4300930052	DKTA	1025
				CLAY BASIN UNIT #17	N030	E240	27	NWNE	PGW	4300930004	FRTR	1025
				CLAY BASIN UNIT 34-S	N030	E240	27	NENE	GSW	4300930025	DKTA	1025
				CLAY BASIN UNIT 38-S	N030	E240	27	NWNE	GSW	4300930029	DKTA	1025
				CLAY BASIN UNIT 36-S	N030	E240	22	SWSW	GSW	4300930027	DKTA	1025
				CLAY BASIN UNIT 6 (R.D. M	N030	E240	23	NWSW	GSW	4300915630	FR-DK	1025
				CLAY BASIN UNIT 31-S	N030	E240	23	SWSW	GSW	4300930022	DKTA	1025

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SEP 0 2 1992
DIVISION OF
OIL GAS & MINING

FLD NUM	FIELD NAME	ACCT NUM	COMPANY NAME	WELL NAME	TOWNSHIP	RANGE	SEC	Q-Q	STATUS	API NUMBER	PROD ZONE	ENTITY
50	CLAY BASIN	N1070	WEXPRO COMPANY	CLAY BASIN UNIT 45-S	N030	E240	23	SESE	GSW	4300930041	DKTA	1025
				CLAY BASIN UNIT #20	N030	E240	22	NWNW	PGW	4300930007	FRTR	1025
		N0680	MOUNTAIN FUEL SUPPLY	CLAY BASIN UNIT #21	N030	E240	19	SESE	PA	4300930011		99998
		P0070	SPENCER, P C	#1	N030	E240	20	NWNW	PA	4300920250		99998
		N0680	MOUNTAIN FUEL SUPPLY	B.Z. KASTLER FEDERAL #1	N030	E240	25	NWSE	PA	4300930002		99998
		N1070	WEXPRO COMPANY	CLAY BASIN UNIT #64	N030	E240	15	NESE	LA	4300930062		99998
55	ALTAMONT	N0675	ANR PRODUCTION COMPA	MILES 1-35A4	S010	W040	35	SWNE	POW	4301330029	GR-WS	1965
				MURDOCK 1-26B5	S020	W050	26	NWNE	PA	4301330049	GR-WS	1530
				BLEAZARD 1-18B4	S020	W040	18	SWNE	POW	4301330059	GR-WS	1565
				FARNSWORTH 1-07B4	S020	W040	7	SENE	POW	4301330097	GR-WS	1600
				HANSON TRUST 1-05B3	S020	W030	5	NENE	POW	4301330109	GR-WS	1635
				BROTHERSON 1-10B4	S020	W040	10	SWNE	POW	4301330110	GR-WS	1614
		N2885	PENNZOIL EXPLOR & PR	BLUE BENCH UTE 1-7C4	S030	W040	7	C-NE	PA	4301330116	GR-WS	5280
		N0675	ANR PRODUCTION COMPA	ELLSWORTH 1-09B4	S020	W040	9	SENE	POW	4301330118	GR-WS	1660
				SHELL TEW 1-09B5	S020	W050	9	SENE	PA	4301330121	GR-WS	1675
				ELLSWORTH 1-17B4	S020	W040	17	NENE	POW	4301330126	GR-WS	1695
				HANSON TRUST 1-09B3	S020	W030	9	SWNE	POW	4301330144	GR-WS	1740
		N9523	LINMAR PETROLEUM COM	RHOADES MOON 1-35B5	S020	W050	35	NENE	SOW	4301330155	GR-WS	4715
		N0675	ANR PRODUCTION COMPA	BROTHERSON 1-15B4	S020	W040	15	SENE	PA	4301330159	GR-WS	1770
		N5050	MEDALLION EXPLORATIO	JENSEN FENZEL #1	S030	W050	20	SWNE	TA	4301330177	GR-WS	4524
		N1040	UTEX OIL COMPANY	LINDSAY 2-1B5	S020	W050	1	SWSW	LA	4301331156		99998
		N0675	ANR PRODUCTION COMPA	SHELL TEW 1-10B5	S020	W050	10	SWNE	PA	4301330178	GR-WS	1755
		N2885	PENNZOIL EXPLOR & PR	MYRIN RANCH 1-13B4	S020	W040	13	NENE	POW	4301330180	GR-WS	1775
		N9523	LINMAR PETROLEUM COM	BROTHERSON 1-27B4	S020	W040	27	NWNE	POW	4301330185	GR-WS	4735
		N0675	ANR PRODUCTION COMPA	HANSON TRUST 1-08B3	S020	W030	8	SENE	PA	4301330201	GR-WS	1805
				BABCOCK 1-18B3	S020	W030	18	SWNE	PA	4301330219	GR-WS	1855
				BROADHEAD 1-32B5	S020	W050	32	SWNE	POW	4301330221	GR-WS	1795
				BROTHERSON 1-24B4	S020	W040	24	SWNE	POW	4301330229	GR-WS	1865
				TEW 1-1B5	S020	W050	1	SENE	POW	4301330264	GR-WS	1870
		N0275	UTE INDIAN TRIBE	UTE 1-12B6	S020	W060	12	SENE	SOW	4301330268	GR-WS	1866
		N5050	MEDALLION EXPLORATIO	UTE TRIBAL K-#1	S030	W060	1	NWSE	TA	4301330280	GR-WS	4530
		N1195	FLYING J INC	A. RUST #2	S010	W040	22	NENE	POW	4301330290	GR-WS	745
		N1040	UTEX OIL COMPANY	LINDSAY 2-6B4	S020	W040	6	SESW	LA	4301331155		99998
		N2885	PENNZOIL EXPLOR & PR	SMITH BRDHEAD 1-9C5	S030	W050	9	SWNE	POW	4301330316	GR-WS	5500
		N0675	ANR PRODUCTION COMPA	WHITEHEAD 1-22A3	S010	W030	22	SWNE	SOW	4301330357	GR-WS	1885
		N2885	PENNZOIL EXPLOR & PR	RACHEL JENSEN 1-16C5	S030	W050	16	SENW	SOW	4301330374	GR-WS	5375
		N0815	SFEOP	B.H. TRIBAL FED 1-26	S030	W060	26	SWNE	POW	4301330412	GR-WS	10701
		N5050	MEDALLION EXPLORATIO	TRIBAL FED 1-3C6	S030	W060	3	SWSE	SOW	4301330415	GR-WS	10702
				TRIBAL FED 1-4C6	S030	W060	4	NWSE	POW	4301330416	GR-WS	10703
				TRIBAL FED 1-36	S030	W060	36	NENE	POW	4301330422	GR-WS	10706
		N7228	HADDEN & HARRISON	GULF TRIBAL 15-1	S040	W060	15	NENE	POW	4301330429	GR-WS	10958
		N0675	ANR PRODUCTION COMPA	BROTHERSON 2-10B4	S020	W040	10	SESW	SOW	4301330443	GR-WS	1615
		N0210	CHEVRON USA INC	SKITZY CYN UTE 1-22-2A	S040	W060	22	NWNE	PA	4301330444	GR-WS	5615
		N0675	ANR PRODUCTION COMPA	1-21C5	S030	W050	21	NESW	PA	4301330448	GR-WS	2320
		N7228	HADDEN & HARRISON	BATES 9-1	S040	W060	9	SENE	POW	4301330469	GR-WS	530
		N5050	MEDALLION EXPLORATIO	UTE TRIBAL E-2	S030	W060	12	SWSW	POW	4301330500	GR-WS	4531
		N0275	UTE INDIAN TRIBE	1-31C5	S030	W050	31	SENW	SOW	4301330501	GR-WS	2330

FLD NUM	FIELD NAME	ACCT NUM	COMPANY NAME	WELL NAME	TOWNSHIP	RANGE	SEC	Q-Q	STATUS	API NUMBER	PROD ZONE	ENTITY
55	ALTAMONT	N1725	SHOGUN OIL INC	1-19B5	S020	W050	19	SENE	SOW	4301330509	GR-WS	2340
		N0675	ANR PRODUCTION COMPA	TEW 1-15A3	S010	W030	15	NENE	POW	4301330529	GR-WS	1945
		N5050	MEDALLION EXPLORATIO	UTE TRIBAL 2-13C6	S030	W060	13	NESW	POW	4301330530	GR-WS	4528
				UTE TRIBAL 2-23C6	S030	W060	23	NESW	POW	4301330537	GR-WS	4534
		N2885	PENNZOIL EXPLOR & PR	SMITH ALBERT 2-8C5	S030	W050	8	NESW	POW	4301330543	GR-WS	5495
		N0675	ANR PRODUCTION COMPA	BODRERO 1-15B3	S020	W030	15	SENW	POW	4301330565	GR-WS	2360
		N2885	PENNZOIL EXPLOR & PR	MOON TRIBAL 1-30C4	S030	W040	30	SESE	TA	4301330576	WSTC	5440
		N1040	UTEX OIL COMPANY	COUNTY #1-28C4	S030	W040	28	SWNE	PA	4301330628	GR-WS	2380
				MILES 2-3B3	S020	W030	3	NESW	LA	4301331154		99998
		N0845	SHELL OIL COMPANY	SHELL FEE #2-34A4	S010	W040	27	SWSW	LA	4301330239		99998
		N0675	ANR PRODUCTION COMPA	FARNSWORTH 1-12B5	S020	W050	12	SWNE	POW	4301330124	GR-WS	1645
		N1040	UTEX OIL COMPANY	WILSON 1-34C4	S030	W040	34	NWNW	PA	4301330544	GR-WS	2311
		N5670	FUEL EXPLOR INC (FUE	BROTHERSON 1-34B4	S020	W040	34	NENE	SOW	4301330309	GR-WS	291
		N0675	ANR PRODUCTION COMPA	BROTHERSON 2-2B4	S020	W040	2	NESW	POW	4301330855	GR-WS	8420
				BURTON 1-15B5	S020	W050	15	NWNE	PA	4301330128	GR-WS	8421
				UTE UNIT 1-36A4	S010	W040	36	NENE	POW	4301330069	GR-WS	1580
				UTE UNIT 1-34A4	S010	W040	34	SWNE	POW	4301330076	GR-WS	1585
		N2885	PENNZOIL EXPLOR & PR	SALERATUS W/U 1-7C5	S030	W050	7	SWNE	POW	4301330098	GR-WS	5480
		N0675	ANR PRODUCTION COMPA	POWELL 1-33A3	S010	W030	33	SENE	POW	4301330105	GR-WS	1625
				UTE UNIT 1-01B4	S020	W040	1	SENE	POW	4301330129	GR-WS	1700
				REMINGTON 1-34A3	S010	W030	34	NWNE	POW	4301330139	GR-WS	1725
		N1195	FLYING J INC	KNIGHT #1	S020	W030	28	SENW	POW	4301330184	GR-WS	1090
		N0675	ANR PRODUCTION COMPA	WINKLER 1-28A3	S010	W030	28	NWNE	POW	4301330191	GR-WS	1750
		N0135	GW PETROLEUM INC	RUST #1-13A5	S010	W050	13	NWNE	PA	4301330207	GR-WS	720
		N9523	LINMAR PETROLEUM COM	ERWIN 1-35B4	S020	W040	35	NENW	PA	4301330216	GR-WS	4750
		N0675	ANR PRODUCTION COMPA	LAWRENCE 1-30B4	S020	W040	30	NWNE	POW	4301330220	GR-WS	1845
				MURDOCK 1-34B5	S020	W050	34	SWNE	POW	4301330230	GR-WS	1786
				EVANS 1-19B3	S020	W030	19	NENE	POW	4301330265	GR-WS	1776
		N2885	PENNZOIL EXPLOR & PR	UTE TRIBAL 10-13A4	S010	W040	13	NWNE	POW	4301330301	GR-WS	5925
		N1195	FLYING J INC	REARY 1-X17A3	S010	W030	17	SWNE	SOW	4301330326	GR-WS	750
		N0675	ANR PRODUCTION COMPA	BROTHERSON 1-26B4	S020	W040	26	NWNE	POW	4301330336	GR-WS	1856
				UTE TRIBAL 1-20B5	S020	W050	20	SENE	POW	4301330376	GR-WS	1650
		N2885	PENNZOIL EXPLOR & PR	UTE 1-2C5	S030	W050	2	NWNW	POW	4301330392	GR-WS	5565
		N5930	GREAT WESTERN ENERGY	BIRCH 1-25	S010	W050	25	SWNE	SOW	4301330285	GR-WS	9050
				SORENSEN 1-6	S020	W050	6	SENE	SOW	4301330231	GR-WS	9152
		N7125	RAMCO OIL & GAS INC	UTE 1-33B6	S020	W060	33	SWSE	POW	4301330441	GR-WS	1230
		N0210	CHEVRON USA INC	SKITZY CNY UTE 1-20-3A	S040	W060	20	NWSE	PA	4301330452	GR-WS	5625
		N7228	HADDEN & HARRISON	REIMANN 10-1	S040	W060	10	NESW	POW	4301330460	GR-WS	6410
		N0675	ANR PRODUCTION COMPA	FARNSWORTH 2-07B4	S020	W040	7	SESW	POW	4301330470	GR-WS	1935
		N1725	SHOGUN OIL INC	BLACKJACK UTE 1-14D6	S040	W060	14	SWNE	SOW	4301330480	GR-WS	5275
		N5050	MEDALLION EXPLORATIO	1-28C5	S030	W050	28	SESW	SOW	4301330488	GR-WS	2325
		N0675	ANR PRODUCTION COMPA	UTE 1-36B6	S020	W060	36	SESE	POW	4301330502	GR-WS	1940
				UTE SMTH 1-30B5	S020	W050	30	NESE	POW	4301330521	GR-WS	1950
		N2885	PENNZOIL EXPLOR & PR	GERITZ MURPHY 1-6C4	S030	W040	6	SWNE	POW	4301330573	GR-WS	5350
		N9450	GRAHAM RESOURCES INC	NEIGHBORHOOD NURSERY 1-32	S020	W060	32	NWSE	PA	4301330591	GR-WS	1430
		N0675	ANR PRODUCTION COMPA	2-9B5	S020	W050	9	NESW	POW	4301330719	GR-WS	2410
				BROADHEAD 1-21B6	S020	W060	21	NWNE	POW	4301330100	GR-WS	1595

FLD NUM	FIELD NAME	ACCT NUM	COMPANY NAME	WELL NAME	TOWNSHIP	RANGE	SEC	Q-Q	STATUS	API NUMBER	PROD ZONE	ENTITY
55	ALTAMONT	N9523	LINMAR PETROLEUM COM	TIMOTHY 1-9A3	S010	W030	9	SWNE	SOW	4301330321	GR-WS	9115
				FISHER 1-16A4	S010	W040	16	NESE	TA	4301330737	GR-WS	9117
				OLSEN 1-27A4	S010	W040	27	NENE	POW	4301330064	GR-WS	9119
				BARRETT 1-34A5	S010	W050	34	NWNE	POW	4301330323	GR-WS	9121
				OMAN 2-4B4	S020	W040	4	NESW	POW	4301330645	GR-WS	9125
				BROTHERSON 1-25B4	S020	W040	25	NWNE	POW	4301330668	GR-WS	9126
				CARMEN 1-7B5	S020	W050	7	SWNE	SOW	4301330195	GR-WS	9128
				FLANIGAN 2-14B5	S020	W050	14	NESW	SOW	4301330757	GR-WS	9130
				UTE TRIBAL 2-14C6	S030	W060	14	SWSW	POW	4301330775	GR-WS	9133
				CARL SMITH 2-25A4	S010	W040	25	NWSW	POW	4301330776	GR-WS	9137
		N7280	HELD BY PRODUCTION I	BROTHERSON 2-34B4	S020	W040	34	NWNE	SOW	4301330857	GR-WS	289
		N9523	LINMAR PETROLEUM COM	JENSEN 2-29A5	S010	W050	29	SESW	POW	4301330974	GR-WS	10040
		N2275	GAVILAN PETROLEUM IN	PAIUTE WALKER 25-7	S030	W050	25	SWNE	PA	4301330972		99999
		N1780	BADGER OIL CORPORATI	JOSIE 1A-3B5	S020	W050	3	NESW	POW	4301330677	GR-WS	216
		N9523	LINMAR PETROLEUM COM	ELLSWORTH 2-8B4	S020	W040	8	NESW	SOW	4301330898	GR-WS	2418
				MORRIS 2-7A3	S010	W030	7	NWSW	POW	4301330977	GR-WS	10175
		N2885	PENNZOIL EXPLOR & PR	SMITH 1-14C5	S030	W050	14	NWNE	POW	4301330980	GR-WS	9770
		N9520	LINMAR ENERGY CORPOR	ALRED WDW 2-16	S010	W030	16	NENE	SDW	4301330361	UNTA	99996
		N9523	LINMAR PETROLEUM COM	JENKINS 3-16A3	S010	W030	16	SESW	POW	4301330877	GR-WS	9335
		N2885	PENNZOIL EXPLOR & PR	SALT WATER DISPOSAL 3-31A	S010	W030	31	NENE	WDW	4301330368	DUCHR	99996
		N9523	LINMAR PETROLEUM COM	JESSEN 1-15A4	S010	W040	15	SWNE	POW	4301330817	GR-WS	9345
				BIRCH WDW 2-35	S010	W050	35	NENE	WDW	4301330362	DUCHR	99996
		N0675	ANR PRODUCTION COMPA	G. HANSON #2-4B3 SWD	S020	W030	4	SESW	SDW	4301330337	UNTA	99996
		N9523	LINMAR PETROLEUM COM	CHRISTENSEN #2-8B3	S020	W030	8	NESW	POW	4301330780	GR-WS	9355
		N0675	ANR PRODUCTION COMPA	L.D.S. CHURCH 2-27B5	S020	W050	27	SWSE	SDW	4301330340	UNTA	99996
		N2885	PENNZOIL EXPLOR & PR	SALERATUS WASTE DISPOSAL	S030	W050	17	NWNE	SDW	4301330388	GRRV	99996
		N5050	MEDALLION EXPLORATIO	ALTAMONT SWD #1	S030	W060	24	SWNE	WDW	4301330372	UNTA	99990
		N9523	LINMAR PETROLEUM COM	FISHER #2-6A3	S010	W030	6	SESE	POW	4301330984	GR-WS	10480
		N0675	ANR PRODUCTION COMPA	BROTHERSON 2-14B4	S020	W040	14	NESW	TA	4301330815	MVRD	10450
		N8160	LEHNDORFF/LGB MINERA	JENSEN 1-32A5	S010	W050	32	SWNE	SOW	4301330899	GR-WS	10080
		N0230	COASTAL OIL & GAS CO	UTE TRIBAL 2-4	S010	W030	4	SWSW	POW	4301330950	GR-WS	9252
		N9523	LINMAR PETROLEUM COM	CHANDLER 2-5B4	S020	W040	5	SWSW	POW	4301331000	GR-WS	10075
				FORD 2-36A5	S010	W050	36	SESW	POW	4301330911	GR-WS	9406
				EDWARDS 2-4B5	S020	W050	4	SESW	PA	4301330901	GR-WS	9407
				BELCHER 2-33B4	S020	W040	33	SWNW	POW	4301330907	GR-WS	9865
				CHRISTENSEN 2-26A5	S010	W050	26	SESW	POW	4301330905	GR-WS	9630
				FIELDSTED 2-27A4	S010	W040	27	NWSE	POW	4301330915	GR-WS	9632
				WIMMER 2-27B4	S020	W040	27	NWNW	POW	4301330941	GR-WS	9625
				JESSEN 1-11A4	S010	W040	11	NESE	PA	4301330936	GR-WS	10482
				OMAN 2-32A4	S010	W040	32	SWSW	POW	4301330904	GR-WS	10045
				MILTZ 2-8B5	S020	W050	8	NWSW	SOW	4301330906	GR-WS	10712
				BROTHERSON 2-35B5	S020	W050	35	SENW	POW	4301330908	GR-WS	9404
		N0130	BOW VALLEY PETROLEUM	LAMB #1	S010	W040	2	NENE	PA	4301330259		99994
		N7265	GENESIS PRODUCTION C	BLUE BENCH #13-1	S030	W050	13	NENE	WDW	4301330971	GRRV	10812
		N0135	GW PETROLEUM INC	TIDWELL #1	S010	W040	3	SENE	PA	4301330208	GR-WS	725
		N9523	LINMAR PETROLEUM COM	BROWN 2-28B5	S020	W050	28	NESW	POW	4301330718	GR-WS	9131
		N9720	WESTERN ALLIANCE PET	MOLLY 1-36-B4	S020	W040	36	SWNE	OPS	4301330937		11197

FLD NUM	FIELD NAME	ACCT NUM	COMPANY NAME	WELL NAME	TOWN SHIP	RANGE	SEC	Q-Q	STATUS	API NUMBER	PROD ZONE	ENTITY
55	ALTAMONT	N9523	LINMAR PETROLEUM COM	TIMOTHY 3-18A3	S010	W030	18	SENW	POW	4301330940	GR-WS	9633
		N0675	ANR PRODUCTION COMPA	POWELL 2-33A3	S010	W030	33	NESW	POW	4301330704	GR-WS	2400
		N2070	D & J OIL CO	UTE #B-2	S010	E010	20	NESW	LA	4304731132		99998
		N2885	PENNZOIL EXPLOR & PR	1-15C5	S030	W050	15	SWNE	POW	4301330651	GR-WS	2405
		N9523	LINMAR PETROLEUM COM	GOODRICH 1-24A4	S010	W040	24	NWNE	POW	4301330760	GR-WS	9136
		N0730	PAGE PETROLEUM INC	UTE #2-24-C6	S030	W060	24	NESW	LA	4301330549		99998
		N0675	ANR PRODUCTION COMPA	BLEAZARD #2-18B4	S020	W040	18	SWSW	POW	4301331025	GR-WS	1566
		N9523	LINMAR PETROLEUM COM	UTE TRIBAL #2-5A3	S010	W030	5	NESW	POW	4301331024	GR-WS	10245
				UTE TRIBAL #2-3A3	S010	W030	3	SESW	POW	4301331034	GR-WS	10261
		N0675	ANR PRODUCTION COMPA	BROADHEAD #2-32B5	S020	W050	32	NENW	POW	4301331036	GR-WS	10216
		N0580	LOMAX EXPLORATION CO	COYOTE UTE TRIBAL #7-3	S040	W040	3	SWNE	LA	4301331037		99998
		N7590	GRAHAM ENERGY LTD	UTE TRIBAL C-1	S030	W060	11	NENE	PA	4301330241	GR-WS	4522
		N9523	LINMAR PETROLEUM COM	CLARK 2-9A3	S010	W030	9	NWSW	POW	4301330876	GR-WS	9790
		N2885	PENNZOIL EXPLOR & PR	EVANS-UTE #2-17-B3	S020	W030	17	NESW	POW	4301331056	GR-WS	5336
		N0675	ANR PRODUCTION COMPA	RUST #3-4B3	S020	W030	4	SESW	POW	4301331070	GR-WS	1576
		N9210	AMTECH ENERGY INC	PAIUTE WALKER 1-7	S030	W050	1	SWNE	POW	4301330914	GR-WS	9825
		N9520	LINMAR ENERGY CORPOR	STEVENSON #2-30A4	S010	W040	30	SWSW	LA	4301331076		99998
		N2885	PENNZOIL EXPLOR & PR	RACHEL JENSEN 2-16C5	S030	W050	16	NENW	POW	4301330912	GR-WS	9895
		N0210	CHEVRON USA INC	SKITZY CYN UTE 1-28-2C	S040	W060	28	SENE	PA	4301330457		5635
		N0675	ANR PRODUCTION COMPA	BROTHERSON #2-11B4	S020	W040	11	SESW	POW	4301331078	GR-WS	1541
		N2885	PENNZOIL EXPLOR & PR	HANSON TRUST #2-5B3	S020	W030	5	NESW	POW	4301331079	GR-WS	1636
		N0675	ANR PRODUCTION COMPA	EHRICH #3-11B5	S020	W050	11	NESW	POW	4301331080	GR-WS	1691
		N5050	MEDALLION EXPLORATIO	UTE TRIBAL 2-2C6	S030	W060	2	SWSW	POW	4301330531	GR-WS	4523
		N0675	ANR PRODUCTION COMPA	BROTHERSON #2-22B4	S020	W040	22	NESW	POW	4301331086	GR-WS	1782
				MILES #2-35A4	S010	W040	35	NWSW	POW	4301331087	GR-WS	1966
		N2885	PENNZOIL EXPLOR & PR	FORTUNE UTE FED 1-11C5	S030	W050	11	SENW	POW	4301330402	GR-WS	5340
				SMITH UTE 1-18C5	S030	W050	18	NWNE	POW	4301330142	GR-WS	5515
		N0675	ANR PRODUCTION COMPA	ELLSWORTH #2-17B4	S020	W040	17	NESW	POW	4301331089	GR-WS	1696
				ELLSWORTH #2-20B4	S020	W040	20	NWSW	SOW	4301331090	GR-WS	1902
				REMINGTON #2-34A3	S010	W030	34	NESW	POW	4301331091	GR-WS	1736
		N2885	PENNZOIL EXPLOR & PR	SP-H-U TRIBAL 2-34Z3	N010	W030	34	NESW	PA	4301330234	GR-WS	5255
		N7120	PERRY, HAL & QUACKEN	COUNTY FEE #1	S030	W050	25	SENW	PA	4301310486		99998
		N0675	ANR PRODUCTION COMPA	BROTHERSON 2-15B4	S020	W040	15	SWSW	POW	4301331103	GR-WS	1771
				ELLSWORTH #2-19B4	S020	W040	19	NESW	POW	4301331105	GR-WS	1761
				BABCOCK 2-12B4	S020	W040	12	SWSW	POW	4301331005	GR-WS	10215
				WINKLER #2-28A3	S010	W030	28	SESW	POW	4301331109	GR-WS	1751
		N5050	MEDALLION EXPLORATIO	UTE TRIBAL E-1	S030	W060	12	SWNE	TA	4301330068	GR-WS	8400
		N0675	ANR PRODUCTION COMPA	FARNSWORTH #2-12B5	S020	W050	12	SWSW	POW	4301331115	GR-WS	1646
				HUNT #2-21B4	S020	W040	21	SESW	POW	4301331114	GR-WS	1839
				EVANS #2-19B3	S020	W030	19	NESW	POW	4301331113	GR-WS	1777
		N1040	UTEX OIL COMPANY	BROTHERSON 2-1B4	S020	W040	1	NWSW	LA	4301331153		99998
		N0675	ANR PRODUCTION COMPA	POTTER #2-24B5	S020	W050	24	NWSW	POW	4301331118	GR-WS	1731
		N1195	FLYING J INC	E. FISHER #2-26A4	S010	W040	26	NWSE	POW	4301331119	GR-WS	890
		N0675	ANR PRODUCTION COMPA	UTE #2-22B5	S020	W050	22	SWSW	POW	4301331122	GR-WS	10453
				ELLSWORTH #2-16B4	S020	W040	16	NWSW	POW	4301331046	GR-WS	10217
				MURDOCK #2-26B5	S020	W050	26	SWSW	POW	4301331124	GR-WS	1531
		N2885	PENNZOIL EXPLOR & PR	UTE 1-4A3	S010	W030	4	NENE	SOW	4301330306	GR-WS	5575

FLD NUM	FIELD NAME	ACCT NUM	COMPANY NAME	WELL NAME	TOWN SHIP	RANGE	SEC	Q-Q	STATUS	API NUMBER	PROD ZONE	ENTITY
55	ALTAMONT	N9523	LINMAR PETROLEUM COM	STATE 1-8A3	S010	W030	8	SWNE	POW	4301330286	GR-WS	9114
		N0675	ANR PRODUCTION COMPA	BIRCH #3-27B5	S020	W050	27	NESW	POW	4301331126	GR-WS	1783
				ROBB 2-29B5	S020	W050	29	SESW	POW	4301331130	GR-WS	10454
		N9523	LINMAR PETROLEUM COM	ALLRED 1-16A3	S010	W030	16	NENE	SOW	4301330232	GR-WS	9116
				CHRISTMAN BLANN 1-31B4	S020	W040	31	NWNE	POW	4301330198	GR-WS	4745
				SORENSEN 1-8B5	S020	W050	8	NENE	POW	4301330270	GR-WS	9129
		N1040	UTEX OIL COMPANY	UTE TRIBAL 1-28B6	S020	W060	28	NWNE	TA	4301330510		11165
		N0675	ANR PRODUCTION COMPA	MURDOCK 2-34B5	S020	W050	34	NESW	POW	4301331132	GR-WS	10456
		N9523	LINMAR PETROLEUM COM	FISHER 1-19A3	S010	W030	19	SWNE	POW	4301330535	GR-WS	1435
		N2885	PENNZOIL EXPLOR & PR	B HARTMAN U 1-31A3	S010	W030	31	NENE	SOW	4301330093	GR-WS	5725
		N9523	LINMAR PETROLEUM COM	L R MARSHALL 1-20A3	S010	W030	20	NWNE	POW	4301330193	GR-WS	9340
		N0675	ANR PRODUCTION COMPA	MONSEN 1-21A3	S010	W030	21	SENE	POW	4301330082	GR-WS	1590
				HANSON 1-32A3	S010	W030	32	NWNE	POW	4301330141	GR-WS	1640
		N1620	AFE MANAGEMENT LIMIT	DENNIE RALPHS 1-1A4	S010	W040	1	SWNE	SOW	4301330164	GR-WS	210
		N1195	FLYING J INC	FARNSWORTH #1	S010	W040	18	SENE	SOW	4301330209	GR-WS	730
		N9523	LINMAR PETROLEUM COM	STATE 1-19A4	S010	W040	19	NENE	POW	4301330322	GR-WS	9118
		N1195	FLYING J INC	V. MILES #1	S010	W040	20	NWNE	SOW	4301330275	GR-WS	740
		N0675	ANR PRODUCTION COMPA	CHATWIN 1-21A4	S010	W040	21	SWNE	SOW	4301330101	GR-WS	1620
				BROTHERSON 1-28A4	S010	W040	28	NENE	POW	4301330292	GR-WS	1841
		N0210	CHEVRON USA INC	UTE 1-3A3	S010	W030	3	SENW	PA	4301330423	GR-WS	5570
		N2885	PENNZOIL EXPLOR & PR	CR AMES 1-23A4	S010	W040	23	SENE	POW	4301330375	GR-WS	5675
		N9523	LINMAR PETROLEUM COM	MILES 1-30A4	S010	W040	30	NENE	SOW	4301330300	GR-WS	9120
				EVANS UNIT 1-31A4	S010	W040	31	SWNE	POW	4301330067	GR-WS	1560
		N0675	ANR PRODUCTION COMPA	BROTHERSON 1-33A4	S010	W040	33	NENE	POW	4301330272	GR-WS	1680
				FIELDSTED 1-29A4	S010	W040	29	NENE	PA	4301330276	GR-WS	1831
		N1040	UTEX OIL COMPANY	FLANNIGAN 2-13B5	S020	W050	13	NWSE	LA	4301331159		99998
		N0675	ANR PRODUCTION COMPA	HANSON TRUST 1-29A3	S010	W030	29	NENE	PA	4301330314	GR-WS	1861
		N9523	LINMAR PETROLEUM COM	JESSEN 1-17A4	S010	W040	17	NENE	POW	4301330173	GR-WS	4725
				WARREN 1-32A4	S010	W040	32	SENE	POW	4301330174	GR-WS	4730
		N1040	UTEX OIL COMPANY	HORMEL 2-21B5	S020	W050	21	SESW	LA	4301331158		99998
		N0675	ANR PRODUCTION COMPA	HANSON 2-9B3	S020	W030	9	NESW	POW	4301331136	GR-WS	10455
		N1040	UTEX OIL COMPANY	UTE TRIBAL 3-1	S040	W050	3	NENW	PA	4301330079	GR-WS	2300
		N5050	MEDALLION EXPLORATIO	TRIBAL FED 1-4	S040	W050	4	SENE	POW	4301330424	GR-WS	10707
				UTE TRIBAL 5-1	S040	W050	5	SENW	POW	4301330081	GR-WS	2305
				UTE TRIBAL 3-9	S040	W050	9	SENW	POW	4301320179	GR-WS	475
				UTE TRIBAL 10-1	S040	W050	10	SENW	POW	4301330088	GR-WS	10700
		N7228	HADDEN & HARRISON	TRIBAL #11-1	S040	W060	11	NWSW	POW	4301330482	GR-WS	6415
		N2885	PENNZOIL EXPLOR & PR	UTE TRIBAL 1-16B2	S040	W060	16	NENE	PA	4301330481	GR-WS	5285
		N9523	LINMAR PETROLEUM COM	BIRCH #1-26A5	S010	W050	26	SWNE	PA	4301330153	GR-WS	4705
				JENSEN ET AL 1-29A5	S010	W050	29	SENE	PA	4301330154	GR-WS	4710
				JENSEN 1-31A5	S010	W050	31	SENE	POW	4301330186	GR-WS	4740
				BIRCH 1-35A5	S010	W050	35	NENE	SOW	4301330233	GR-WS	9122
		N0675	ANR PRODUCTION COMPA	LOTRIDGE GATES FEE 1-3B3	S020	W030	3	NENE	POW	4301330117	GR-WS	1670
		N2885	PENNZOIL EXPLOR & PR	UTE TRIBAL 1-6B3	S020	W030	6	NWNE	POW	4301330136	GR-WS	5705
				UTE TRIBAL U 6-7B3	S020	W030	7	SWNE	POW	4301330211	GR-WS	5700
				EVANS UTE 1-17B3	S020	W030	17	NWNE	POW	4301330274	GR-WS	5335
		N0675	ANR PRODUCTION COMPA	DOYLE 1-10B3	S020	W030	10	SENW	POW	4301330187	GR-WS	1810

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55	ALTAMONT	N9523	LINMAR PETROLEUM COM	LINMAR HANSEN 1-16B3	S020	W030	16	NESW	POW	4301330617	GR-WS	9124
		N1195	FLYING J INC	MYRIN RANCH #1	S020	W030	20	SWNE	SOW	4301330176	GR-WS	1091
		NO675	ANR PRODUCTION COMPA	2-21B3	S020	W030	21	NESE	POW	4301330589	GR-WS	2370
		N1195	FLYING J INC	DUSTIN #1	S020	W030	22	NESW	SOW	4301330122	GR-WS	1092
				K W CARRELL #1	S020	W030	27	SENW	SOW	4301330158	GR-WS	2307
		NO675	ANR PRODUCTION COMPA	2-27B3	S020	W030	27	SENE	TA	4301330644	GR-WS	2385
				BROTHERSON 1-02B4	S020	W040	2	SWNE	POW	4301330062	GR-WS	1570
				ELLSWORTH 1-08B4	S020	W040	8	SWNE	POW	4301330112	GR-WS	1655
				CHANDLER 1-05B4	S020	W040	5	SWNE	POW	4301330140	GR-WS	1685
				CROOK 1-06B4	S020	W040	6	SENE	POW	4301330213	GR-WS	1825
				BABCOCK 1-12B4	S020	W040	12	SENE	POW	4301330104	GR-WS	1630
				ELLSWORTH 1-16B4	S020	W040	16	SENE	POW	4301330192	GR-WS	1735
				ELLSWORTH 1-19B4	S020	W040	19	SWNE	POW	4301330183	GR-WS	1760
				BROTHERSON 1-11B4	S020	W040	11	SENE	SOW	4301330052	GR-WS	1540
				ELLSWORTH 1-20B4	S020	W040	20	SWNE	POW	4301330351	GR-WS	1900
				BROTHERSON 1-14B4	S020	W040	14	SENE	POW	4301330051	GR-WS	1535
				HUNT 1-21B4	S020	W040	21	SENE	POW	4301330214	GR-WS	1840
				BROTHERSON 1-23B4R	S020	W040	23	NWNE	POW	4301330483	GR-WS	8423
				BROTHERSON 1-22B4	S020	W040	22	SENE	POW	4301330227	GR-WS	1780
				YOUNG ETAL 1-29B4	S020	W040	29	SENE	POW	4301330246	GR-WS	1791
		N9523	LINMAR PETROLEUM COM	LINDSAY RUSSELL 1-32B4	S020	W040	32	C-NE	POW	4301330308	GR-WS	4770
				GRIFFITHS 1-33B4	S020	W040	33	NWNE	POW	4301330288	GR-WS	4760
		NO675	ANR PRODUCTION COMPA	EHRICH 1-11B5	S020	W050	11	SENE	POW	4301330157	GR-WS	1690
				FARNSWORTH 1-13B5	S020	W050	13	NWNE	POW	4301330092	GR-WS	1610
				POTTER 1-14B5	S020	W050	14	NENE	POW	4301330127	GR-WS	1665
				POTTER 1-02B5	S020	W050	2	SENE	POW	4301330293	GR-WS	1826
				BURTON 1-16B5	S020	W050	16	NWNE	PA	4301330238	GR-WS	1806
				REEDER 1-17B5	S020	W050	17	SENE	POW	4301330218	GR-WS	1710
		N9523	LINMAR PETROLEUM COM	CHENEY 1-4B5	S020	W050	4	SWNE	PA	4301330222	GR-WS	9127
		NO675	ANR PRODUCTION COMPA	SHELL UTE 1-21B5	S020	W050	21	SWNE	PA	4301330262	GR-WS	1860
		N5930	GREAT WESTERN ENERGY	SORENSEN 1-5	S020	W050	5	NENE	SOW	4301330296	GR-WS	9051
		NO675	ANR PRODUCTION COMPA	UTE UNIT 1-22B5	S020	W050	22	SENE	PA	4301330134	GR-WS	1715
				HANSKUTT 1-23B5	S020	W050	23	SWNE	PA	4301330172	GR-WS	1785
				POTTER 1-24B5	S020	W050	24	NENE	POW	4301330356	GR-WS	1730
		N5050	MEDALLION EXPLORATIO	1-5C4	S030	W040	5	SENE	POW	4301330532	GR-WS	2345
		NO675	ANR PRODUCTION COMPA	MURDOCK 1-25B5	S020	W050	25	NENE	PA	4301330247	GR-WS	1801
				ROBB 1-29B5	S020	W050	29	SWNE	POW	4301330135	GR-WS	1720
				SMITH 1-31B5	S020	W050	31	NWSE	POW	4301330577	GR-WS	1955
		N9523	LINMAR PETROLEUM COM	WILDLIFE RES. 1-33B5	S020	W050	33	SWNE	POW	4301330649	GR-WS	9132
				RHOADES MOON 1-36B5	S020	W050	36	NENE	POW	4301330289	GR-WS	4765
		N5050	MEDALLION EXPLORATIO	1-24B6	S020	W060	24	SWNE	POW	4301330518	GR-WS	2350
		NO675	ANR PRODUCTION COMPA	UTE 1-25B6	S020	W060	25	SWNE	POW	4301330439	GR-WS	1930
				SHELL UTE 1-28B5	S020	W050	28	NWNE	PA	4301330179	GR-WS	1815
		N5050	MEDALLION EXPLORATIO	TRIBAL FED 1-34B6	S020	W060	34	SWSE	POW	4301330431	GR-WS	10708
		N2885	PENNZOIL EXPLOR & PR	DUCHESNE COUNTY SNIDER 1-	S030	W040	9	NENE	SOW	4301330318	GR-WS	5320
		NO275	UTE INDIAN TRIBE	1-35B6	S020	W060	35	NESE	SOW	4301330507	GR-WS	2335
		N2885	PENNZOIL EXPLOR & PR	DUCH CO 1-17C4	S030	W040	17	NWNE	SOW	4301330410	GR-WS	5325

FLD NUM	FIELD NAME	ACCT NUM	COMPANY NAME	WELL NAME	TOWNSHIP	RANGE	SEC	Q-Q	STATUS	API NUMBER	PROD ZONE	ENTITY
55	ALTAMONT	N2885	PENNZOIL EXPLOR & PR	DUCH CO TRIBAL U 1	S030	W040	3	SENW	POW	4301330065	GR-WS	5330
				PHILLIPS UTE 1-3C5	S030	W050	3	NENW	POW	4301330333	GR-WS	5455
		N2210	UINTA-TAYLOR FUND LT	UTEX 29-1	S030	W040	29	SENW	POW	4301330087	GR-WS	2310
		N2885	PENNZOIL EXPLOR & PR	UTE 1-5C5	S030	W050	5	NWNE	SOW	4301330260	GR-WS	5580
				VODA JSPHINE 1-19C5	S030	W050	19	SWNE	SOW	4301330382	GR-WS	5645
		N5050	MEDALLION EXPLORATIO	FEE 2-20C5	S030	W050	20	NESW	POW	4301330550	GR-WS	4527
		N2885	PENNZOIL EXPLOR & PR	SMITH ALBERT 1-8C5	S030	W050	8	SENE	SOW	4301330245	GR-WS	5490
		N0675	ANR PRODUCTION COMPA	1-26C5	S030	W050	26	SWNE	PA	4301330620	GR-WS	2375
				1-29C5	S030	W050	29	NWNE	PA	4301330449	GR-WS	2315
		N5050	MEDALLION EXPLORATIO	TRIBAL FEDERAL 1-30	S030	W050	30	SWNE	POW	4301330475	GR-WS	665
		N7590	GRAHAM ENERGY LTD	STEWART B-1	S030	W060	2	SWNE	PA	4301330085	GR-WS	8401
		N5050	MEDALLION EXPLORATIO	UTE TRIBAL 2-11C6	S030	W060	11	NESW	POW	4301330534	GR-WS	4532
				UTE TRIBAL F-1	S030	W060	13	NENE	POW	4301330103	GR-WS	4526
				UTE TRIBAL G-1	S030	W060	24	SWNE	POW	4301330298	GR-WS	4533
				UTE TRIBAL L-1	S030	W060	23	SWNE	POW	4301330310	GR-WS	8402
				B.H. TRIBAL FED 1-35	S030	W060	35	SWNE	POW	4301330419	GR-WS	10705
		N0815	SFEOP	H.B. TRIBAL FED 1-25	S030	W060	25	SWNE	POW	4301330417	GR-WS	10704
		N9523	LINMAR PETROLEUM COM	UTE ALLOTTED 2-18A3	S010	W030	18	NWNE	SOW	4301330354	GR-WS	5915
		N1040	UTEX OIL COMPANY	SANTIO 2-1B4	S020	W040	1	NESW	LA	4301331143		99998
		N2885	PENNZOIL EXPLOR & PR	SMITH JOSEPH 1-17C5	S030	W050	17	C-NE	POW	4301330188	GR-WS	5510
		N0815	SFEOP	UTE FEDERAL #2-25	S030	W060	25	NESW	POW	4301331093	GR-WS	10711
		N2885	PENNZOIL EXPLOR & PR	VODA UTE 1-4C5	S030	W050	4	NWNE	POW	4301330283	GR-WS	5655
				UTE COUNTY 1-20C4	S030	W040	20	C-NE	SOW	4301330170	GR-WS	5620
		N0675	ANR PRODUCTION COMPA	RUST 1-4B3	S020	W030	4	SENE	POW	4301330063	GR-WS	1575
				TEW 2-10B5	S020	W050	10	SWSW	POW	4301331125	GR-WS	1756
				MONSEN #2-27A3	S010	W030	27	NWSW	POW	4301331104	GR-WS	1746
				LAKE FORK #2-23B4	S020	W040	23	SWNE	SDW	4301330038	GR-WS	1970
		N2300	GRACE PETROLEUM CORP	GPC FEE 36-1	S020	W070	36	SENE	PA	4301330560	GR-WS	8130
		N9523	LINMAR PETROLEUM COM	PETERSON #1-5D6	S040	W060	5	SWNE	POW	4301331075	GR-WS	10311
		N2885	PENNZOIL EXPLOR & PR	HANSON TRUST 2-32A3	S010	W030	32	NWSW	POW	4301331072	GR-WS	1641
		N0675	ANR PRODUCTION COMPA	RUST #2-36A4	S010	W040	36	NESW	POW	4301331092	GR-WS	1577
		N9523	LINMAR PETROLEUM COM	BROTHERSON #2-3B4	S020	W040	3	SESW	POW	4301331008	GR-WS	10165
		N2885	PENNZOIL EXPLOR & PR	LAKE FORK #2-13B4	S020	W040	13	SWSW	POW	4301331134	GR-WS	10452
		N1590	GULF OIL CORPORATION	SPRING HOLLOW UNIT-TRIBAL	N010	W030	28	SENW	PA	4301330073	GR-WS	99998
				SPRING HOLLOW UNIT-TRIBAL	N010	W030	32	SWNE	PA	4301330284	GR-WS	99998
				UTE #1-3A3	S010	W030	3	SWNE	LA	4301330373		99998
		P0075	FLYING DIAMOND OIL C	REARY #1	S010	W030	17	SWNE	PA	4301330304		99998
		N0845	SHELL OIL COMPANY	HANSON TRUST #1-16B3	S020	W030	16	NENE	LA	4301330335		99998
		N0840	SWEPI/WESTERN DIVISI	SHELL-TENNECO-OMAN #1-4B4	S020	W040	4	SWNE	PA	4301330108	GR-WS	99998
		N0845	SHELL OIL COMPANY	BABCOCK #2-12B4	S020	W040	12	SWSW	LA	4301330474		99998
		N1030	UNION OIL CO OF CALI	LYTEL #1	S020	W050	9	NWSW	PA	4301311327		99998
		N0235	ANR LIMITED INC/COAS	SHELL-UTE #1-18B5	S020	W050	18	SWNE	PA	4301330058	GR-WS	99998
		N0210	CHEVRON USA INC	ROCK CREEK UNIT 34-19 A #	S020	W050	19	SWSE	PA	4301316521	GR-WS	99998
		N0840	SWEPI/WESTERN DIVISI	SHELL-UTE #1-13B6	S020	W060	13	NWNE	PA	4301330223	GR-WS	99998
		N0340	DIAMOND SHAMROCK EXP	SHELL-WRIGHT #1-15B6	S020	W060	15	NENE	LA	4301330269		99998
		N0845	SHELL OIL COMPANY	WRIGHT #1-15B6	S020	W060	15	NENE	LA	4301330504		99998
				UTE #1-16B6	S020	W060	16	SENE	LA	4301330497		99998

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55	ALTAMONT	N0840	SWEPI/WESTERN DIVISI	UTE #1-17B6	S020	W060	17	NWNE	PA	4301330498	GR-WS	99998
		N0845	SHELL OIL COMPANY	BROADHEAD #1-20B6	S020	W060	20	NENE	LA	4301330503		99998
		N0340	DIAMOND SHAMROCK EXP	UTE 1-22B6	S020	W060	22	NWNE	PA	4301330420	GR-WS	2027
		N1040	UTEX OIL COMPANY	TRIBAL #1-26B6	S020	W060	26	SENE	LA	4301330519		99998
		N1590	GULF OIL CORPORATION	HERRICK #1-8C4	S030	W040	8	SWNE	LA	4301330413		99998
		N0210	CHEVRON USA INC	UTE TRIBAL 1-1C4	S030	W040	1	SWNE	PA	4301330162	GR-WS	5600
		P0079	BRONCO OIL & GAS CO	FEE #6-7	S030	W040	6	SWNE	LA	4301330434		99998
		N1040	UTEX OIL COMPANY	HERRICK #1-8C4	S030	W040	8	NWNE	LA	4301330533		99998
		N1590	GULF OIL CORPORATION	DUCHESNE COUNTY #1-15C4	S030	W040	15	NWNE	LA	4301330377		99998
		P0037	HUMBLE OIL & REFININ	KERMIT POULSEN FEE #1	S030	W040	31	NWSE	PA	4301310492		99998
				JOSEPH SMITH - FEE #1	S030	W050	16	SESE	PA	4301310491	GR-WS	99998
		P0080	AMERICAN MINERALS MG	FENZL FEE #1	S030	W050	20	NWSW	LA	4301330032		99998
		P0081	BRINKERHOFF DRILLING	UTE TRIBAL #32-1	S030	W050	32	SWSE	PA	4301330077	GR-WS	99998
				UTE TRIBAL #33-1	S030	W050	33	SWNE	PA	4301330075	GR-WS	99998
				UTE TRIBAL #34-1	S030	W050	34	SENW	PA	4301330078	GR-WS	99998
		N0730	PAGE PETROLEUM INC	UTE 2-1C6	S030	W060	1	NESW	LA	4301330652		99998
		N0980	TEXACO INC	UTE TRIBAL D-1	S030	W060	14	SWNE	PA	4301330056	GR-WS	99998
		N7228	HADDEN & HARRISON	TEXACO TRIBAL 3-1	S040	W060	3	NWNE	POW	4301330468	GR-WS	10959
		N1040	UTEX OIL COMPANY	UTE TRIBAL #3-2	S040	W050	3	SESW	LA	4301330522		99998
		P0081	BRINKERHOFF DRILLING	UTE TRIBAL #4-1	S040	W050	4	NESE	PA	4301330080	GR-WS	99998
		N1040	UTEX OIL COMPANY	TRIBAL #5-2	S040	W050	5	SWSE	LA	4301330508		99998
		P0081	BRINKERHOFF DRILLING	UTE TRIBAL #6-1	S040	W050	6	SWNE	LA	4301330095		99998
		N0660	MONCRIEF OIL	ROWLEY #2-1	S040	W060	2	SENW	PA	4301330467	GR-WS	99998
				TEXACO TRIBAL #1-1	S040	W060	1	NENW	LA	4301330473		99998
		N0540	KOCH EXPLORATION CO	CEDAR RIM #21	S040	W060	4	SWNE	LA	4301330485		99998
				CEDAR RIM #22	S040	W060	5	SENE	LA	4301330484		99998
		N0660	MONCRIEF OIL	TEXACO TRIBAL #6-1	S040	W060	6	NENE	LA	4301330472		99998
				PENDER #8-1	S040	W060	8	NENE	PA	4301330471	GR-WS	99998
				UTE TRIBAL #12-1	S040	W060	12	NWNE	LA	4301330479		99998
		P0085	MIDWEST EXPLORATION	#1	S040	W060	13	SESW	PA	4301310725		99998
		N1590	GULF OIL CORPORATION	UTE TRIBAL #1-19	S040	W060	19	NWSW	LA	4301330456		99998
				SKITZY CANYON UTE 21 #1-2	S040	W060	21	NWSE	PA	4301330454	GR-WS	99998
				SKITZY CANYON UTE #2-22-2	S040	W060	22	SENE	LA	4301330489		99998
				SKITZY CANYON UTE #4-22-1	S040	W060	22	NWNW	LA	4301330492		99998
				SKITZY CANYON UTE #3-22-1	S040	W060	22	NENW	LA	4301330491		99998
				SKITZY CANYON UTE 23 #1-2	S040	W060	23	NENE	PA	4301330445	GR-WS	99998
				SKITZY CANYON UTE #2-23-1	S040	W060	23	NWNW	LA	4301330490		99998
				UTE TRIBAL #1-24	S040	W060	24	NESW	LA	4301330453		99998
				SKITZY CANYON UTE #1-25 (	S040	W060	25	NESW	PA	4301330462		99998
				SKITZY CANYON UTE #4-26-3	S040	W060	26	NWSE	LA	4301330461		99998
				SKITZY CANYON UTE #1-27-4	S040	W060	27	NESW	PA	4301330455	GR-WS	99998
				SKITZY CANYON UTE #3-29-2	S040	W060	29	SENE	PA	4301330458	GR-WS	99998
				UTE TRIBAL #j-30	S040	W060	30	NWSW	LA	4301330464		99998
				UTE TRIBAL #1-33	S040	W060	33	SENE	LA	4301330463		99998
				UTE TRIBAL #1-34	S040	W060	34	NENW	LA	4301330459		99998
				UTE TRIBAL #1-35	S040	W060	35	NESW	LA	4301330465		99998
		N1780	BADGER OIL CORPORATI	JOSIE 1-3B5	S020	W050	3	SENE	SOW	4301330273	GR-WS	215

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55	ALTAMONT	N1590	GULF OIL CORPORATION	SMITH UTE #1	S030	W050	6	SWSW	LA	4301330548		99998
				UTE TRIBAL #2	S040	W050	8	SENW	PA	4301320075	GR-WS	99998
		N1040	UTEX OIL COMPANY	UTE TRIBAL 1-27B6	S020	W060	27	SWNW	TA	4301330517		11166
		N5050	MEDALLION EXPLORATIO	UTE 2-3C-6	S030	W060	3	NENW	POW	4301330902	GR-WS	10710
		N0675	ANR PRODUCTION COMPA	LINDSAY 2-33A4	S010	W040	33	SESW	POW	4301331141	GR-WS	10457
		N9523	LINMAR PETROLEUM COM	CHRISTENSEN #3-4B4	S020	W040	4	SWSE	POW	4301331142	GR-WS	10481
		N2885	PENNZOIL EXPLOR & PR	E BENNION U 1-25A4	S010	W040	25	SENE	WDW	4301330060	GR-WS	5720
		N9523	LINMAR PETROLEUM COM	GEORGE FISHER 1-7A3	S010	W030	7	SWNE	SOW	4301330131	GR-WS	9113
		N0600	MAPCO OIL & GAS COMP	FISHER #1-12	S010	W040	12	NWNE	PA	4301330279	GR-WS	99998
		N9523	LINMAR PETROLEUM COM	ELLSWORTH #2-9B4	S020	W040	9	NESW	POW	4301331138	GR-WS	10460
		N0130	BOW VALLEY PETROLEUM	UTE UNIT 1-26A4	S010	W040	26	SWNE	PA	4301330057	GR-WS	890
		N0675	ANR PRODUCTION COMPA	HANSON TRUST 2-29A3	S010	W030	29	NESW	POW	4301331043	GR-WS	10205
				CHRISTENSEN 1-33A5	S010	W050	33	SENE	PA	4301330054	GR-WS	1545
				UTE 1-28B4	S020	W040	28	SWNE	POW	4301330242	GR-WS	1796
		N2885	PENNZOIL EXPLOR & PR	VODA JOSEPHINE 2-19C5	S030	W050	19	SESW	POW	4301330553	GR-WS	5650
		N9523	LINMAR PETROLEUM COM	MCFARLANE #1-4D6	S040	W060	4	SWNE	POW	4301331074	GR-WS	10325
		N1780	BADGER OIL CORPORATI	WILKINS 1-24A5	S010	W050	24	NWNE	POW	4301330320	GR-WS	205
				WALKER 2-24A5	S010	W050	24	SESW	SOW	4301331085	GR-WS	218
		N0675	ANR PRODUCTION COMPA	SHELL #2-27A4 (SWD)	S010	W040	27	SWSW	WDW	4301330266	UNTA	99996
		N1195	FLYING J INC	JESSEN #2-14A4	S010	W040	14	SWSW	POW	4301331160	GR-WS	10611
		N9523	LINMAR PETROLEUM COM	STEVENSON HEIRS 1-36A5	S010	W050	36	SWNE	POW	4301330196	GR-WS	9123
		N0600	MAPCO OIL & GAS COMP	DENNIE RALPHS #1-5	S010	W030	5	SWNE	PA	4301330165	GR-WS	99998
				DENNIE RALPHS #1-6	S010	W030	6	SWNE	PA	4301330166	GR-WS	99998
		N9523	LINMAR PETROLEUM COM	TEW #2-35A5	S010	W050	35	SESW	LA	4301331077		99998
		N9520	LINMAR ENERGY CORPOR	MAXFIELD #1-10A4	S010	W040	10	SENE	LA	4301331051		99998
		N1040	UTEX OIL COMPANY	ECHEVERRIA 2-17B5	S020	W050	17	SWNW	OPS	4301331157		11351
		N0675	ANR PRODUCTION COMPA	BROTHERSON 2-14B4	S020	W040	14	NESW	PGW	4301330815	GR-WS	10450
		N0085	ROONEY OPERATING CO	SAMUAL WILLIAMS FEE #1-21	S020	W030	21	NESW	PA	4301330146	GR-WS	2306
		N0675	ANR PRODUCTION COMPA	ERICH 2-11B5	S020	W050	11	NESW	SDW	4301330391	UNTA	99996
				UTE 2-34A-4	S010	W040	34	NWSW	POW	4301330978	GR-WS	10070
				BURTON #2-15B5	S020	W050	15	NWSW	POW	4301331044	GR-WS	10210
				HANSKUTT 2-23B5	S020	W050	23	SWSW	POW	4301330917	GR-WS	9600
		N5940	G W E CO	NEWQUARK #36-6	S030	W050	36	SENW	SOW	4301310490	GR-WS	10653
		N9523	LINMAR PETROLEUM COM	RUSSELL SWD 2-32B4	S020	W040	32	SENE	SDW	4301330371	UNTA	99996
		N0085	ROONEY OPERATING CO	SAMUAL WILLIAMS FEE #1-21	S020	W030	21	NESW	SDW	4301330146	UNTA	2306
		N9523	LINMAR PETROLEUM COM	POWELL 2-8A3	S010	W030	8	SWSW	POW	4301330979	GR-WS	10110
		N2885	PENNZOIL EXPLOR & PR	SHRINE HOSPITAL 1-10C5	S030	W050	10	NWNE	POW	4301330393	GR-WS	5485
		N0675	ANR PRODUCTION COMPA	ALLEN 2-3-B3	S020	W030	3	SWSW	LA	4301331193		99998
				UTE-JENKS #2-1-B4	S020	W040	1	SWSW	POW	4301331197	GR-WS	10844
		N1195	FLYING J INC	SHINER #1-14A4	S010	W040	14	SENE	SOW	4301330258	GR-WS	735
		N0675	ANR PRODUCTION COMPA	BIRCH 1-27B5	S020	W050	27	SENE	PA	4301330197	GR-WS	1781
		N2885	PENNZOIL EXPLOR & PR	P. BECKSTEAD U 1-30A3	S010	W030	30	SWNE	POW	4301330070	GR-WS	5920
				UTE 1-10A3	S010	W030	10	C-NE	POW	4301330319	GR-WS	10883
		N0675	ANR PRODUCTION COMPA	MONSEN 1-27A3	S010	W030	27	NENE	POW	4301330145	GR-WS	1745
		N2885	PENNZOIL EXPLOR & PR	SMITH DAVID U 1-6C5	S030	W050	6	C-NE	POW	4301330163	GR-WS	5505
		N9523	LINMAR PETROLEUM COM	PRIEST 2-7B5	S020	W050	7	NWSE	SOW	4301331001	GR-WS	10260
				JACOBSEN 2-12A4	S010	W040	12	SESW	POW	4301330985	GR-WS	10313

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55	ALTAMONT	N2885	PENNZOIL EXPLOR & PR	HARTMAN 2-31A3	S010	W030	31	NESW	POW	4301331243	GR-WS	11026
				MILES 7-7B3	S020	W030	7	SWNW	POW	4301331245	GR-WS	11025
		N0675	ANR PRODUCTION COMPA	POTTER 2-6B4	S020	W040	6	NESW	POW	4301331249	GR-WS	11038
				JESSEN 2-21A4	S010	W040	21	SESW	POW	4301331256	GR-WS	11061
				WHIGHT 2-13B5	S020	W050	13	NWSW	LA	4301331258		99998
				MILES 2-1B5	S020	W050	1	NESW	POW	4301331257	WSTC	11062
				MILES 2-3B3	S020	W030	3	NESW	POW	4301331261	WSTC	11102
		N1195	FLYING J INC	RUST #3-22-A-4	S010	W040	22	NESW	POW	4301331266	WSTC	11194
		N0675	ANR PRODUCTION COMPA	WRIGHT 2-13B5	S020	W050	13	SENW	POW	4301331267	GR-WS	11115
				MONSEN 2-22A3	S010	W030	22	SWSW	POW	4301331265	GR-WS	11098
				HANSON TRUST 1-29A3	S010	W030	29	NENE	PA	4301330314	GRRVL	1861
				BROTHERSON 1-3B4	S020	W040	3	SWNE	POW	4301330048	GR-WS	1525
				BROTHERSON 3-23B4	S020	W040	23	SWSW	POW	4301331289	WSTC	11141
		N2885	PENNZOIL EXPLOR & PR	REAY 11-13A4	S010	W040	13	NWNW	DRL	4301331291		11136
				SP-H-U TRIBAL 2-34Z3	N010	W030	34	NESW	POW	4301330234	GRRVU	5255
		N0675	ANR PRODUCTION COMPA	FIELDSTED 2-28A4	S010	W040	28	NESW	POW	4301331293	WSTC	11177
				TODD 2-21A3	S010	W030	21	NWSW	POW	4301331296	WSTC	11268
				WEIKART 2-29B4	S020	W040	29	SWNW	POW	4301331298	WSTC	11332
				MYRIN 2-18B3	S020	W030	18	NWSW	DRL	4301331297		99999
				BLEAZARD 2-28B4	S020	W040	28	NESW	DRL	4301331304		99999
				BROTHERSON 2-2B5	S020	W050	2	SWSE	POW	4301331302	WSTC	11342
				YOUNG 2-15A3	S010	W030	15	NESW	DRL	4301331301		11344
				CHRISTENSEN 2-29A4	S010	W040	29	NWSE	POW	4301331303	WSTC	11235
		N2885	PENNZOIL EXPLOR & PR	HARTMAN 4-31A3	S010	W030	31	SWNW	DRL	4301331308		99999
		N1195	FLYING J INC	REARY 2-17A3	S010	W030	17	NWSW	POW	4301331318	GR-WS	11251
		N2885	PENNZOIL EXPLOR & PR	DASTRUP 2-30A3	S010	W030	30	SWSW	DRL	4301331320	GR-WS	11253
				SMITH 2-9C5	S030	W050	9	SWSW	POW	4301331321	WSTC	11245
				UTE 2-6B3	S020	W030	6	NWSW	DRL	4301331325		99999
				SMITH 2-7C5	S030	W050	7	NESW	DRL	4301331327	GR-WS	11324
				SMITH 2-18C5	S030	W050	18	SWSE	DRL	4301331328		11336
				SMITH 2-6C5	S030	W050	6	SESW	DRL	4301331338		11367
		N0675	ANR PRODUCTION COMPA	UTEX #2-27B3	S020	W030	27	SENE	POW	4301330644	GRRVL	2385
		N2885	PENNZOIL EXPLOR & PR	MOON TRIBAL 1-30C4	S030	W040	30	SESE	POW	4301330576	GRRV	5440
		N9523	LINMAR PETROLEUM COM	FISHER 1-16A4	S010	W040	16	NESE	POW	4301330737	GRRVL	9117
		N1590	GULF OIL CORPORATION	UNIDENTIFIED	S030	W050	34	SENW	PA	4301331355		99998
60	ANTELOPE CREEK	N5090	COORS ENERGY	UTE TRIBAL #4-7	S050	W030	7	NESE	LA	4301331183		99998
				UTE TRIBAL 1-6	S050	W030	6	SESE	POW	4301330793	GRRV	9395
				UTE TRIBAL 1-7	S050	W030	7	SESW	POW	4301330788	GRRV	9392
				UTE TRIBAL 2-7	S050	W030	7	NENE	POW	4301330825	GRRV	9381
				UTE TRIBAL 2-9	S050	W030	9	NENE	TA	4301330789	GRRV	9393
				UTE TRIBAL 1-31	S050	W030	31	NWNE	PA	4301330827	GRRV	9382
				UTE TRIBAL 2-8	S050	W030	8	SWNW	POW	4301330826	GRRV	9386
				UTE TRIBAL 4-4	S050	W030	4	SWSW	POW	4301330848	GRRV	9375
				UTE TRIBAL 2-4	S050	W030	4	SWNE	WIW	4301330879	GRRV	9930
				UTE TRIBAL 2-20	S050	W030	20	SWNE	SOW	4301330882	GRRV	9377
				UTE TRIBAL 2-18	S050	W030	18	SENE	POW	4301330881	GRRV	9387
				UTE TRIBAL 3-5-E3	S050	W030	5	NWSE	POW	4301330938	GRRV	9785

FLD NUM	FIELD NAME	ACCT NUM	COMPANY NAME	WELL NAME	TOWNSHIP	RANGE	SEC	Q-Q	STATUS	API NUMBER	PROD ZONE	ENTITY
60	ANTELOPE CREEK	N5090	COORS ENERGY	UTE TRIBAL 1-10	S050	W030	10	NWSW	SOW	4301330805	GRRV	9378
				UTE TRIBAL 5-29-E3	S050	W030	29	SWNE	POW	4301330939	GRRV	9880
				UTE TRIBAL 1-16	S050	W030	16	SESE	POW	4301330804	GRRV	9398
				UTE TRIBAL 2-29	S050	W030	29	SESE	POW	4301330849	GRRV	9389
				UTE TRIBAL 4-29	S050	W030	29	NWNW	POW	4301330851	GRRV	10390
				UTE TRIBAL 1-30	S050	W030	30	SWNE	POW	4301330852	GRRV	9410
				UTE TRIBAL 1-32	S050	W030	32	SENE	POW	4301330853	GRRV	9411
				UTE TRIBAL 1-8	S050	W030	8	NWNW	POW	4301330759	GRRV	9386
				UTE TRIBAL 2-5	S050	W030	5	SWSW	POW	4301330824	GRRV	9380
				UTE TRIBAL 1-17	S050	W030	17	NENE	SOW	4301330790	GRRV	9394
				UTE TRIBAL 1-28	S050	W030	28	SWNW	POW	4301330802	GRRV	9396
				UTE TRIBAL #5-18	S050	W030	18	NESE	POW	4301331180	GRRV	9387
				UTE TRIBAL #3-9	S050	W030	9	SWSW	LA	4301331098		99998
				UTE TRIBAL #3-8	S050	W030	8	NENW	POW	4301331101	GRRV	9386
				UTE TRIBAL #4-18	S050	W030	18	NWNE	POW	4301331099	GRRV	9387
				UTE TRIBAL 1-33	S050	W030	33	NWNW	POW	4301330806	GRRV	9379
				UTE TRIBAL 1-19	S050	W030	19	SESE	POW	4301330803	GRRV	9397
		N0210	CHEVRON USA INC	ANTELOPE CREEK UNIT #2	S100	E150	30	C-NE	PA	4301310174		99998
		N5090	COORS ENERGY	UTE TRIBAL 3-29	S050	W030	29	SENW	POW	4301330850	GRRV	10390
				UTE TRIBAL 1-15	S050	W030	15	NWNW	POW	4301330880	GRRV	9412
				UTE TRIBAL #6-4	S050	W030	4	SESW	SOW	4301331100	GRRV	9375
				UTE TRIBAL 1-21	S050	W030	21	SWSW	POW	4301330883	GRRV	9985
		N0340	DIAMOND SHAMROCK EXP	PINON FEDERAL #1	S060	W030	5	NENW	PA	4301311008		99998
		P0047	AMERADA	UTE TRIBE "B" #1	S050	W030	9	SWNW	PA	4301320302		99998
		N5090	COORS ENERGY	UTE TRIBAL #4-8	S050	W030	8	NWSW	POW	4301331164	GRRV	9386
				UTE TRIBAL #2-16	S050	W030	16	SWSW	POW	4301331166	GRRV	9413
				UTE TRIBAL 3-4	S050	W030	4	NESW	POW	4301330878	GRRV	9375
				UTE TRIBAL 3-7	S050	W030	7	SENE	POW	4301330828	GRRV	9383
				UTE TRIBAL 1-5	S050	W030	5	SWNE	POW	4301330785	GRRV	9391
				UTE TRIBAL #3-18	S050	W030	18	SWSW	LA	4301331102		99998
				UTE TRIBAL #2-3	S050	W030	3	SESW	SOW	4301331097	GRRV	9384
				UTE TRIBAL 1-18	S050	W030	18	NENE	POW	4301330761	GRRV	9387
				UTE TRIBAL 1-20	S050	W030	20	NWNE	POW	4301330764	GRRV	9390
				UTE TRIBAL #4-9	S050	W030	9	SWSE	POW	4301331165	GRRV	9414
				STATE #2-6	S050	W030	6	NWSE	SOW	4301330891	GRRV	9399
				UTE TRIBAL 1-3	S050	W030	3	SWSW	POW	4301330823	GRRV	9384
				UTE TRIBAL 1-4	S050	W030	4	NENE	SOW	4301330762	GRRV	9388
				UTE TRIBAL 1-29	S050	W030	29	NESE	POW	4301330763	GRRV	9389
				UTE TRIBAL #3-20	S050	W030	20	SENW	POW	4301331175	GRRV	9377
				UTE TRIBAL #2-10	S050	W030	10	NENW	POW	4301331187	GRRV	9378
				UTE TRIBAL #2-31	S050	W030	31	NENW	POW	4301331188	GRRV	9382
				UTE TRIBAL #3-6	S050	W030	6	SENE	PA	4301331189		10766
				UTE TRIBAL 6-29	S050	W030	29	SENE	POW	4301331305	GRRV	9389
				UTE TRIBAL 4-5	S050	W030	5	SENE	POW	4301331306	GRRV	9391
				UTE TRIBAL 5-8	S050	W030	8	SENW	POW	4301331307	GRRV	9386
				UTE TRIBAL 7-29	S050	W030	29	NESE	DRL	4301331339		9389
				UTE TRIBAL #8-29	S050	W030	29	SENE	DRL	4301331353		99999

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65	BLUEBELL	N0210	CHEVRON USA INC	CHASEL MILLER 1-1A2	S010	W020	1	SENW	PA	4301330014	GR-WS	5776
		N2885	PENNZOIL EXPLOR & PR	DOUG BROWN 1-4A2	S010	W020	4	SENW	POW	4301330017	GR-WS	5840
				MOBIL-LAMI. UR 1-8A2	S010	W020	8	NWSW	TA	4301330036	GR-WS	5975
		N1195	FLYING J INC	K. SHISLER #1	S010	W010	9	SWSW	PA	4301330041	GR-WS	700
		N2885	PENNZOIL EXPLOR & PR	LAMICQ-URTY U 3-17A2	S010	W020	17	NWSE	POW	4301330099	GR-WS	5745
				WOODWARD FED 1-21A2	S010	W020	21	SWNE	POW	4301330130	GR-WS	5665
				LAMICQ 1-20A2	S010	W020	20	SWNE	POW	4301330133	GR-WS	5400
				UTE TRIBAL 1-21Z2	N010	W020	21	NESW	POW	4301330148	GR-WS	5610
				UTE TRIBAL 5-30A2	S010	W020	30	SENW	POW	4301330169	GR-WS	5910
		N0675	ANR PRODUCTION COMPA	JENKINS 1-1B3	S020	W030	1	SENW	POW	4301330175	GR-WS	1790
		N2885	PENNZOIL EXPLOR & PR	ROBERTSON 1-29A2	S010	W020	29	SENW	POW	4301330189	GR-WS	5465
				UTE TRIBAL 9-4B1	S020	W010	4	SENW	POW	4301330194	GR-WS	5715
				CHENEY 1-33A2	S010	W020	33	SWNE	POW	4301330202	GR-WS	5305
				UTE TRIBAL 7-24A3	S010	W030	24	NWSE	POW	4301330203	GR-WS	5730
		N9680	CHASEL ENERGY	UTE UNIT 1-07B2	S020	W020	7	SWNE	SOW	4301330206	GR-WS	1835
		N2885	PENNZOIL EXPLOR & PR	REESE ESTATE 1-10B2	S020	W020	10	SWNE	POW	4301330215	GR-WS	5460
				HARMSTON U 1-32A1	S010	W010	32	NESW	POW	4301330224	GR-WS	5770
				KARL SHISLER U 1-3B1	S020	W010	3	NWSE	SOW	4301330249	GR-WS	5930
				UTE TRIBAL 1-13B3	S020	W030	13	NESW	POW	4301330251	GR-WS	5605
		N0230	COASTAL OIL & GAS CO	UTE TRIBE 1-31	N010	W020	31	NWSE	POW	4301330278	GR-WS	4755
		N2885	PENNZOIL EXPLOR & PR	FRESTON ST 1-8B1	S020	W010	8	NESW	POW	4301330294	GR-WS	5345
				GEORGE MURRAY 1-16B1	S020	W010	16	SENW	POW	4301330297	GR-WS	5950
				MEAGHER EST 1-04B2	S020	W020	4	NWSE	POW	4301330313	GR-WS	1811
		N0675	ANR PRODUCTION COMPA	UTE TRBL 1-33Z2	N010	W020	33	SWNE	POW	4301330334	GR-WS	1851
		N2885	PENNZOIL EXPLOR & PR	UTE 1-20Z2	N010	W020	20	NWSE	POW	4301330378	GR-WS	5590
				MOBIL UTE TRBL 11-6A2	S010	W020	6	SENW	POW	4301330381	GR-WS	5835
				GOODRICH 1-18B2	S020	W020	18	SENW	POW	4301330397	GR-WS	1871
				UTE 1-2A3	S010	W030	2	SENW	POW	4301330409	GR-WS	5560
		N0675	ANR PRODUCTION COMPA	1-24B3	S020	W030	24	SENW	POW	4301330629	GR-WS	2390
				1-19B1	S020	W010	19	NWNW	POW	4301330688	GR-WS	2395
		N1195	FLYING J INC	LAWSON 1-21A1	S010	W010	21	NESW	SOW	4301330738	GR-WS	935
		N2885	PENNZOIL EXPLOR & PR	HATCH 2-3B1	S020	W010	3	SENW	POW	4301331147	GR-WS	10615
		N1780	BADGER OIL CORPORATI	EULA UTE #3-16A1	S010	W010	16	SWNW	LA	4301331161		99998
		N2885	PENNZOIL EXPLOR & PR	ST U 1-7B1E	S020	E010	7	NWSE	SOW	4304730180	GR-WS	5695
		N0210	CHEVRON USA INC	RASMUSSEN #1-17B1E	S020	E010	17	SENW	PA	4304730193	GR-WS	5690
		N2885	PENNZOIL EXPLOR & PR	TIMOTHY 1-08B1E	S020	E010	8	NWSE	POW	4304730215	GR-WS	1910
				UT ST FED 1-24B1	S020	W010	24	NWSE	POW	4304730220	GR-WS	5550
		N1195	FLYING J INC	UTE TRIBAL 1-16	S010	E010	16	SESE	SOW	4304730231	GR-WS	780
				DRY GULCH 1-36A1	S010	W010	36	NESW	POW	4304730569	GR-WS	820
				ROSEMARY LLOYD 1-24A1E	S010	E010	24	NESW	POW	4304730707	GR-WS	840
		N2885	PENNZOIL EXPLOR & PR	1-23B1	S020	W010	23	SENW	POW	4304730751	GR-WS	2355
		N1195	FLYING J INC	WALKER 1-14A1E	S010	E010	14	NWSE	POW	4304730805	GR-WS	855
		N2885	PENNZOIL EXPLOR & PR	SHAW #2-27A2	S010	W020	27	SESW	POW	4301331184	GR-WS	10753
		N9210	AMTECH ENERGY INC	UTE #1-19-A1E	S010	E010	19	NENW	POW	4304730902	GR-WS	1085
		N1195	FLYING J INC	TENNECO 21-19	S020	E010	19	SENW	PA	4304731004	GR-WS	201
				PRESCOTT 1-35Z1	N010	W010	35	NESW	POW	4304731173	GR-WS	1425
				UTE TRIBAL 2-22A1E	S010	E010	22	SWNE	POW	4304731265	WSTC	915

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65	BLUEBELL	N1195	FLYING J INC	BASTIAN 1-2A1	S010	W010	2	NESW	POW	4304731373	GR-WS	736
				CARSON 2-36A1	S010	W010	36	SWNE	POW	4304731407	GR-WS	737
		N0675	ANR PRODUCTION COMPA	LAMICQ 2-5B2	S020	W020	5	SESW	POW	4301330784	GR-WS	2302
		N2885	PENNZOIL EXPLOR & PR	MARGUERITE 2-8B2	S020	W020	8	SENW	POW	4301330807	GR-WS	2303
		N7280	HELD BY PRODUCTION I	ANDERSON 1A-30B1	S020	W010	30	NWNE	POW	4301330783	GR-WS	292
		N0230	COASTAL OIL & GAS CO	HORROCKS #2-V	S010	W010	20	SWNW	POW	4301330833	GR-WS	8301
				E. J. ASAY FEE #1	S010	W010	20	NWSE	POW	4301330102	GR-WS	8304
		N0390	BHP PETROLEUM/AMERIC	WASATCH #9	S010	E010	28	NENW	POW	4304731445	WSTC	221
		N2885	PENNZOIL EXPLOR & PR	DILLMAN 2-28A2	S010	W020	28	SWNE	POW	4301330821	GR-WS	5666
		N1780	BADGER OIL CORPORATI	MAXIMILLIAN-UTE 14-1	S010	W030	14	NWSE	POW	4301330726	GR-WS	8437
				BISEL GURR 11-1	S010	W010	11	NESW	POW	4304731213	GR-WS	8438
		N2885	PENNZOIL EXPLOR & PR	CADILLAC 3-6A1	S010	W010	6	SWSE	POW	4301330834	GR-WS	8439
		N1780	BADGER OIL CORPORATI	EULA-UTE 1-16A1	S010	W010	16	NWSE	POW	4301330782	GR-WS	8443
		N2885	PENNZOIL EXPLOR & PR	REESE 2-10B2	S020	W020	10	SENW	POW	4301330837	GR-WS	2416
		N1195	FLYING J INC	UTE TRIBAL #2	S010	W010	8	NWSW	SOW	4301330020	GR-WS	690
		N2885	PENNZOIL EXPLOR & PR	CHASEL # 1-18A1	S010	W010	18	NWNE	POW	4301330030	GR-WS	5805
				UTE TRIBAL U 2-12A3	S010	W030	12	SWSW	POW	4301330042	GR-WS	5735
				L BOREN U 5-22A2	S010	W020	22	SWNE	POW	4301330107	GR-WS	5900
				UTE TRIBAL 3-18A2	S010	W020	18	NESW	POW	4301330125	GR-WS	5890
				UTE TRIBAL 4-19A2	S010	W020	19	NWSE	POW	4301330147	GR-WS	5895
		N9523	LINMAR PETROLEUM COM	COLTHARP 1-27Z1	N010	W010	27	NESW	POW	4301330151	GR-WS	4700
		N1195	FLYING J INC	UTE TRIBAL 1-26B	N010	W020	26	SWNE	POW	4301330168	GR-WS	715
		N1780	BADGER OIL CORPORATI	LESLIE TAYLOR 2-24A1, UNI	S010	W010	24	SWNW	LA	4304731773		99998
		N0675	ANR PRODUCTION COMPA	RUDY 1-11B3	S020	W030	11	NWSE	POW	4301330204	GR-WS	1820
		N2885	PENNZOIL EXPLOR & PR	ROBERTSON UTE 1-2B2	S020	W020	2	NESW	POW	4301330225	GR-WS	5470
				L BOREN U 2-11A2	S010	W020	11	NESW	PA	4301330277	GR-WS	5870
				H.G. COLTHARP 1-15B1	S020	W010	15	SENW	POW	4301330359	GR-WS	5945
		N0675	ANR PRODUCTION COMPA	UTE #1-32Z2	N010	W020	32	SENW	POW	4301330379	GR-WS	1915
		N2885	PENNZOIL EXPLOR & PR	SP-H-U TRIBAL 4-36Z3	N010	W030	36	NESW	SOW	4301330398	GR-WS	5256
		N1195	FLYING J INC	HOUSTON 1-34Z1	N010	W010	34	SENW	POW	4301330566	GR-WS	885
		N1270	SONAT EXPLORATION CO	SONAT STRAND BARANGER #1-	S020	W020	23	NWNE	PA	4301330619	GR-WS	1100
		N1195	FLYING J INC	H.MARTIN 1-21Z1	N010	W010	21	NESW	POW	4301330707	GR-WS	925
		N9523	LINMAR PETROLEUM COM	JENSEN 1-29Z1	N010	W010	29	NWSE	POW	4301330725	GR-WS	9110
				CHASEL 2-17A1	S010	W010	17	NESW	POW	4301330732	GR-WS	9112
				UTE TRIBAL 1-18B1E	S020	E010	18	SENW	POW	4304730969	GR-WS	9135
		N9520	LINMAR ENERGY CORPOR	CHEVON WAINOCO HELEN LARS	S010	W010	5	SENW	PA	4301330536	GR-WS	9138
		N0865	MAXUS EXPLORATION CO	GULF-UTE 1-16	S020	W020	16	NWSE	PA	4301330061	GR-WS	1255
		N0130	BOW VALLEY PETROLEUM	FLY-DIA UTE 35, 1-35B	N010	W020	35	NESW	PA	4301330039	GR-WS	941
		N2885	PENNZOIL EXPLOR & PR	TODD USA ST 1-2B1	S020	W010	2	NWSE	POW	4304730167	GR-WS	5530
				MAY UTE FED 1-13B1	S020	W010	13	NWSE	POW	4304730176	GR-WS	5435
		N5050	MEDALLION EXPLORATIO	UTE TRIBAL P-1	S020	E010	3	SWNE	POW	4304730190	GR-WS	4536
		N1195	FLYING J INC	C.J. HACKFORD 1-23	S010	E010	23	SENW	POW	4304730279	GR-WS	790
		N0390	BHP PETROLEUM/AMERIC	ROOSEVELT A#7	S010	E010	19	SWNW	POW	4304731402	WSTC	221
		N0130	BOW VALLEY PETROLEUM	HARRISON 1-18A2E	S010	E020	18	NESW	PA	4304730593	GR-WS	825
		N1195	FLYING J INC	H.D.. LANDY 1-30A1E	S010	E010	30	SENW	POW	4304730790	GR-WS	845
				UTE TRIBAL 1-15A1E	S010	E010	15	NWSE	POW	4304730820	GR-WS	850
				UTE TRIBAL 1-25A1E	S010	E010	25	NESW	PA	4304730830	GR-WS	865

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65	BLUEBELL	N1195	FLYING J INC	UTE TRIBAL 1-29A1E	S010	E010	29	NWSW	POW	4304730937	GR-WS	895
		N2275	GAVILAN PETROLEUM IN	UTE TRIBAL #2 (RU #2)	S010	E010	21	NWSE	SOW	4304715551	GRRV	9303
		N0390	BHP PETROLEUM/AMERIC	WASATCH #10	S010	E010	21	SWNE	POW	4304731446	WSTC	221
		N2885	PENNZOIL EXPLOR & PR	JOHN 2-3-B2	S020	W020	3	NWNE	POW	4301330975	GR-WS	5387
				HAMBLIN 2-26-A2	S010	W020	26	SWNE	POW	4301330903	GR-WS	5361
		N1780	BADGER OIL CORPORATI	FRED BASSETT 1-22A1	S010	W010	22	NWSE	POW	4301330781	GR-WS	9460
		N1195	FLYING J INC	R. HOUSTON 1-22Z1	N010	W010	22	NESW	POW	4301330884	GR-WS	936
		N9523	LINMAR PETROLEUM COM	UTE TRIBAL 1-30Z1	N010	W010	30	NWSE	POW	4301330813	GR-WS	9405
		N1195	FLYING J INC	UTE TRIBAL 1-27A1E	S010	E010	27	NWSE	POW	4304730421	GR-WS	800
		N2885	PENNZOIL EXPLOR & PR	WATER DISPOSAL #1(44-3C)	S010	W020	3	SESE	SDW	4301330021	UNTA	99996
				LEONARD BORAN FEE 1-11A2	S010	W020	11	NWNW	SDW	4301320255	GRRV	99996
				L BOREN U 4-23A2	S010	W020	23	SENW	POW	4301330115	GR-WS	5905
				CENTRAL BLUEBELL 2-26A2	S010	W020	26	SESW	SDW	4301330389	WSTC	99996
				BLUEBELL SWD 2-28A2	S010	W020	28	NWSE	SDW	4301330346	DUCHR	99990
				SALT WATER DISPOSAL 2-10B	S020	W010	10	NWNW	SDW	4301330367	DUCHR	99996
		N9523	LINMAR PETROLEUM COM	LINMAR 1-19B2	S020	W020	19	SENW	POW	4301330600	GR-WS	9350
		N0675	ANR PRODUCTION COMPA	UTE UNIT 1-12B3	S020	W030	12	NESW	PA	4301330205	GR-WS	1830
		N9523	LINMAR PETROLEUM COM	LESLIE UTE 1-11A3	S010	W030	11	NESW	POW	4301330893	GR-WS	9401
				L.B. UTE 1-13A3	S010	W030	13	SWNE	POW	4301330894	GR-WS	9402
				LAUREN UTE 1-23A3	S010	W030	23	NESW	POW	4301330895	GR-WS	9403
		N1195	FLYING J INC	OBERHANSLY 2-31Z1	N010	W010	31	SWNE	POW	4301330970	GR-WS	9725
				D.R. LONG 2-19A1E	S010	E010	19	SWSE	POW	4304731470	GRRVL	9505
		N5005	JACKSON, WILLIAM A	BROWN #3-2	S010	W020	3	NWNW	PGW	4301330986	GR-WS	10290
		N2885	PENNZOIL EXPLOR & PR	HAMBLIN 1-26A2	S010	W020	26	NESW	SOW	4301330083	GR-WS	5360
		N9720	WESTERN ALLIANCE PET	WESTERN-JD #1-6-A1E	S010	E010	6	SENW	PA	4304731506		99998
		N1780	BADGER OIL CORPORATI	THE PERFECT "10" 1-10A1	S010	W010	10	SWSW	POW	4301330935	GR-WS	9461
				BADGER-SAM H.U. MONGUS 1-	S010	W010	15	NESW	POW	4301330949	GR-WS	9462
		N9523	LINMAR PETROLEUM COM	WILKERSON 1-20Z1	N010	W010	20	NWSE	POW	4301330942	GR-WS	10230
		N1195	FLYING J INC	O MOON 2-26Z1	N010	W010	26	SENW	POW	4304731480	GR-WS	10135
		N0130	BOW VALLEY PETROLEUM	UTE TRIBAL 2-16A1E	S010	E010	16	SWSW	LA	4304731418		99998
		N0390	BHP PETROLEUM/AMERIC	ROOSEVELT UNIT #5	S010	E010	20	SWSE	SOW	4304731447	WSTC	221
		N2885	PENNZOIL EXPLOR & PR	LAMICQ-ROBERTSON STATE #2	S020	W020	1	SWNE	POW	4301330995	GR-WS	5412
		N9450	GRAHAM RESOURCES INC	HORROCKS 1-19A2E	S010	E020	19	NESW	PA	4304730844	GR-WS	200
		N9523	LINMAR PETROLEUM COM	MURRAY 3-2A2	S010	W020	2	SENW	POW	4301330816	GR-WS	9620
		N9510	RIO BRAVO OIL COMPAN	ROOSEVELT UNIT 19-1	S010	E010	19	NWNE	LA	4304731443		99998
		N2275	GAVILAN PETROLEUM IN	ROOSEVELT UNIT #12 GR	S010	E010	20	SESW	POW	4304731427	GRRV	10814
				ROOSEVELT UNIT 20-2	S010	E010	20	NENW	SOW	4304731422	GRRV	9301
		N9510	RIO BRAVO OIL COMPAN	ROOSEVELT UNIT 24-1	S010	W010	24	SENE	LA	4304731434		99998
		N0772	PHILLIPS PETROLEUM C	ROOSEVELT B #8	S010	W010	13	SWSE	LA	4304731449		99998
		N2885	PENNZOIL EXPLOR & PR	LYN TIMOTHY U 1-10B1	S020	W010	10	NESW	POW	4301330287	GR-WS	5710
		N9995	QUINEX ENERGY CORP	MALNAR-PIKE #1	S010	E010	17	SWSW	POW	4304731714	GR-WS	10742
		N0840	SWEPI/WESTERN DIVISI	SANTIO 2-1B4	S020	W040	1	NESW	LA	4301330909		99998
		N2275	GAVILAN PETROLEUM IN	ROOSEVELT UNIT #11	S010	E010	21	SESE	SOW	4304731428	GRRV	9311
		N2885	PENNZOIL EXPLOR & PR	UTE TRIBAL #2-7A2	S010	W020	7	C-NE	POW	4301331009	GR-WS	5836
		N9720	WESTERN ALLIANCE PET	CHRISTIE #1-26B1	S020	W010	26	SENW	LA	4304731488		99998
		N9523	LINMAR PETROLEUM COM	HORROCKS 2-4A1	S010	W010	4	SWNE	POW	4301330954	GR-WS	9855
		N6670	LEAR PETROLEUM EXPLO	UTE TRIBAL A1E 9-12	S010	E010	9	NWSW	LA	4304731565		99998

FLD NUM	FIELD NAME	ACCT NUM	COMPANY NAME	WELL NAME	TOWNSHIP	RANGE	SEC	Q-Q	STATUS	API NUMBER	PROD ZONE	ENTITY
65	BLUEBELL	N1780	BADGER OIL CORPORATI	BADGER MR. BOOM BOOM #2-2	S010	W010	29	SENW	POW	4301331013	GR-WS	9463
		N0420	EXXON CORPORATION	ROOSEVELT UNIT #5	S010	E010	20	SWSE	LA	4304731254		99998
		N9520	LINMAR ENERGY CORPOR	HOOPES 1-19Z1	N010	W010	19	NWSE	PA	4301330820	GR-WS	9330
		N2885	PENNZOIL EXPLOR & PR	URRUTY 2-34A2	S010	W020	34	SWSW	POW	4301330753	GR-WS	2415
		N1780	BADGER OIL CORPORATI	BRADLEY 23-1	S010	W010	23	NESW	POW	4304731297	GR-WS	8435
		N9720	WESTERN ALLIANCE PET	WESTERN JD #1-6-A1E	S010	E010	6	NWSW	LA	4304731459		99998
		N2275	GAVILAN PETROLEUM IN	ROOSEVELT UNIT #9	S010	E010	28	NWNE	SOW	4304731384	GRRV	9308
		N9720	WESTERN ALLIANCE PET	NINA LOU #2-23Z1	N010	W010	23	NWSE	LA	4304731573		99998
		N2885	PENNZOIL EXPLOR & PR	E H BUZZI U 1-11B2	S020	W020	11	SENW	POW	4301330248	GR-WS	5960
				CHENEY #2-33-A2	S010	W020	33	NESW	POW	4301331042	GR-WS	5306
		N2275	GAVILAN PETROLEUM IN	ROOSEVELT UNIT #13	S010	W010	13	NESW	SOW	4304731414	GRRV	9312
		N2885	PENNZOIL EXPLOR & PR	STATE OF UTAH #1-26B3	S020	W030	26	SENE	POW	4301331048	GR-WS	9551
		N9523	LINMAR PETROLEUM COM	MOON 1-23Z1	N010	W010	23	NESW	POW	4304731479	GR-WS	10310
				HORROCKS FEE 1-3A1	S010	W010	3	SENW	SOW	4301330171	GR-WS	9139
		N9995	QUINEX ENERGY CORP	REDCAP J.D.C. #30-4-1A	S010	E020	30	NWNW	POW	4304731591	GR-WS	10345
		N0210	CHEVRON USA INC	FRESTON STATE #2-8B1	S020	W010	8	NENE	LA	4301331055		99998
		N2885	PENNZOIL EXPLOR & PR	ROBERTSON UTE 2-2-B2	S020	W020	2	NENE	POW	4301330921	GR-WS	5472
		N1195	FLYING J INC	BASTIAN #3-8A1	S010	W010	8	NWSE	POW	4301331181	GR-WS	10758
		N2885	PENNZOIL EXPLOR & PR	N KENDALL 1-12A2	S010	W020	12	SWSW	POW	4301330013	GR-WS	5875
		N2275	GAVILAN PETROLEUM IN	UTE TRIBAL #1 (RU #1)	S010	E010	21	NWSW	SOW	4304715550	GRRV	9302
				ROOSEVELT UNIT #10	S010	E010	21	SESW	POW	4304731429	GRRV	9309
		N1195	FLYING J INC	WISSE 1-28Z1	N010	W010	28	NWSE	POW	4301330609	GR-WS	905
				E. YUMP #1	N010	W010	31	NESW	SOW	4301330167	GR-WS	710
				UTE TRIBAL 1-32Z1	N010	W010	32	NESW	POW	4301330324	GR-WS	755
				SADIE BLANK 1-33Z1	N010	W010	33	NWSE	POW	4301330355	GR-WS	765
		N9523	LINMAR PETROLEUM COM	DYE 1-25Z2	N010	W020	25	NWSE	POW	4301330659	GR-WS	9111
		N1195	FLYING J INC	UTE TRIBAL 1-17A1E	S010	E010	17	NESE	POW	4304730829	GR-WS	860
				UTE TRIBAL 1-22A1E	S010	E010	22	NESW	SOW	4304730429	GRRVL	810
				UTE TRIBAL 1-34B	N010	W020	34	SWNE	SOW	4301310494	GR-WS	775
				UTE TRIBAL 2-35B	N010	W020	35	NWSE	POW	4301330106	GR-WS	705
		N2885	PENNZOIL EXPLOR & PR	UTE ALOTTED U 1-36Z2	N010	W020	36	NWSE	POW	4301330307	GR-WS	5785
		N0390	BHP PETROLEUM/AMERIC	WASATCH #6	S010	E010	20	SWSW	POW	4304731366	WSTC	221
		N1195	FLYING J INC	BOLTON 2-29A1E	S010	E010	29	NESE	POW	4304731112	GR-WS	900
				NELSON 1-31A1E	S010	E010	31	SENW	POW	4304730671	GR-WS	830
				MAGDALENE PAPADOPULOS 1-3	S010	E010	34	NESW	POW	4304730241	GR-WS	785
				LARSEN 1-25A1	S010	W010	25	NWSE	SOW	4304730552	GR-WS	815
		N5050	MEDALLION EXPLORATIO	ESTHER ARHI #1	S020	E010	5	NESW	POW	4304730205	GR-WS	590
				EARL GARDNER B-1	S020	E010	9	NESW	POW	4304730197	GR-WS	4539
				UTE TRIBAL 1-10B1E	S020	E010	10	SENW	TA	4304730881	GR-WS	4537
		N7590	GRAHAM ENERGY LTD	UTE TRIBAL #1-11-B1E	S020	E010	11	SWNE	PA	4304730673	GR-WS	4538
		N0275	UTE INDIAN TRIBE	UTE TRIBAL 1-14-B1E	S020	E010	14	NWNE	SOW	4304730774	GR-WS	4521
		N0420	EXXON CORPORATION	UTE TRIBAL UNIT #1A	S020	E010	15	NESW	PA	4304731035	GR-WS	605
		N1040	UTEX OIL COMPANY	UTE TRIBAL #1-34B1E	S020	E010	34	NWSE	PA	4304730198	GR-WS	1880
		N2885	PENNZOIL EXPLOR & PR	J ROBERTSN UTE 1-1B1	S020	W010	1	SWNE	POW	4304730174	GR-WS	5370
				UT ST L/B 1-11B1	S020	W010	11	NESW	POW	4304730171	GR-WS	5555
				RBRTSN UTE ST 1-12B1	S020	W010	12	SWNE	POW	4304730164	GR-WS	5475
		N9523	LINMAR PETROLEUM COM	STATE 1-14B1	S020	W010	14	SENW	POW	4304730818	GR-WS	1420

FLD NUM	FIELD NAME	ACCT NUM	COMPANY NAME	WELL NAME	TOWNSHIP	RANGE	SEC	Q-Q	STATUS	API NUMBER	PROD ZONE	ENTITY
65	BLUEBELL	N2885	PENNZOIL EXPLOR & PR	T HORROCKS 1-6A1	S010	W010	6	SENW	SOW	4301330390	GR-WS	5790
				CURTIS BASTIAN FEE #1 (3-	S010	W010	7	SWNE	SOW	4301330026	GR-WS	5800
				JOSEPH YACK U 1-7A1	S010	W010	7	NESW	POW	4301330018	GR-WS	5795
		N1195	FLYING J INC	WESLEY BASTIAN FEE #1	S010	W010	8	SWNE	SOW	4301310496	GR-WS	942
		N0230	COASTAL OIL & GAS CO	POWELL FEE 2-19K	S010	W010	19	SESW	POW	4301331149	GR-WS	8303
		N2885	PENNZOIL EXPLOR & PR	CLYDE MURRAY 1-2A2	S010	W020	2	SESW	SOW	4301330005	GR-WS	5876
				ROBERTSON 2-29A2	S010	W020	29	SESE	POW	4301331150	GR-WS	10679
				NORLING 2-9B1	S020	W010	9	SWSW	POW	4301331151	GR-WS	10616
				LAMICQ-URTY U 2-9A2	S010	W020	9	NESW	POW	4301330046	GR-WS	5855
		N9523	LINMAR PETROLEUM COM	CHASEL MILLER 2-1A2	S010	W020	1	SENW	POW	4301330360	GR-WS	5830
		N2875	CHRIS DENVER/JOHN CH	HELEN LARSEN 2-5A1	S010	W010	5	SENW	WDW	4301330920	GRRV	9138
		N0230	COASTAL OIL & GAS CO	JAMES POWELL #4	S010	W010	19	SENW	POW	4301330071	GR-WS	8302
		N0675	ANR PRODUCTION COMPA	LAWSON 1-28-A1	S010	W010	28	NWSE	POW	4301330358	GR-WS	1901
		N2885	PENNZOIL EXPLOR & PR	RG DYE U 1-29A1	S010	W010	29	NWSE	SOW	4301330271	GR-WS	5815
				L L PACK 1-33A1	S010	W010	33	NESW	SOW	4301330261	GR-WS	5825
		N9523	LINMAR PETROLEUM COM	LE BEAU 1-34-A1	S010	W010	34	NESW	POW	4301330590	GR-WS	1440
		N2885	PENNZOIL EXPLOR & PR	BLANCHARD FEE 1-3A2	S010	W020	3	NWSE	POW	4301320316	GR-WS	5877
				WH BLANCHARD 2-3A2	S010	W020	3	SESW	POW	4301330008	GR-WS	5775
				LAMICQ-URTY U 4-5A2	S010	W020	5	SENW	POW	4301330347	GR-WS	5845
				MORTENSEN 2-32-A2	S010	W020	32	NWSE	POW	4301330929	GR-WS	5452
				OLSEN U 1-12A2	S010	W020	12	SWNE	SOW	4301330031	GR-WS	5880
		N0230	COASTAL OIL & GAS CO	JAMES POWELL #3	S010	W020	13	SWSW	POW	4301330024	GR-WS	8305
		N7085	UTAH-WESTAR DRL VENT	ROOSEVELT UNIT 16-A1E	S010	E010	29	NENE	LA	4304731699		99998
		N2885	PENNZOIL EXPLOR & PR	STATE PICKUP 1-6B1E	S020	E010	6	NWSE	POW	4304730169	GR-WS	5970
		N9520	LINMAR ENERGY CORPOR	ROOSEVELT U BADGER A4-19A	S010	E010	19	NENE	LA	4304731660		99998
		N2885	PENNZOIL EXPLOR & PR	L BOREN U 6-16A2	S010	W020	16	NWSE	POW	4301330123	GR-WS	5750
				OWEN ANDERSON 1-28A2	S010	W020	28	NWSE	SOW	4301330150	GR-WS	5270
		N0675	ANR PRODUCTION COMPA	UTE TRIBAL 1-31A2	S010	W020	31	NESW	POW	4301330401	GR-WS	1925
		N2885	PENNZOIL EXPLOR & PR	MORTENSEN 1-32A2	S010	W020	32	SWNE	POW	4301330199	GR-WS	5450
				URRUTY 1-34A2	S010	W020	34	SWNE	SOW	4301330149	GR-WS	5545
		N1780	BADGER OIL CORPORATI	BADGER UTE H.E. MANN #2-2	N010	W020	28	SWSE	POW	4301331053	GR-WS	9459
		N2885	PENNZOIL EXPLOR & PR	ST UNIT 2-35A2	S010	W020	35	SENW	POW	4301330156	GR-WS	5765
		N0210	CHEVRON USA INC	FAY MECHAM FEE #1 (4-2C)	S010	W020	2	NWSE	PA	4301330001	GR-WS	99998
		P0037	HUMBLE OIL & REFININ	ROSEMARY LLOYD #1	S010	E010	24	NWSW	PA	4304710581	GRRV	99998
		N2885	PENNZOIL EXPLOR & PR	SUMMARELL E U 1-30A1	S010	W010	30	NWSE	POW	4301330250	GR-WS	5820
		N0675	ANR PRODUCTION COMPA	UTE TRIBAL 1-26A3	S010	W030	26	SENW	POW	4301330348	GR-WS	1890
				UTE TRIBAL 1-35A3	S010	W030	35	NWSE	PA	4301330181	GR-WS	1800
				SHELL UTE 1-36A3	S010	W030	36	NESW	PA	4301330263	GR-WS	1821
		N2885	PENNZOIL EXPLOR & PR	MCELPRANG 1-31A1	S010	W010	31	NWSE	SOW	4301330190	GR-WS	5425
		N0675	ANR PRODUCTION COMPA	SHELL UTE 1-08A1E	S010	E010	8	SWNE	POW	4304730173	GR-WS	1846
				UTE 2-31A2	S010	W020	31	NENE	POW	4301331139	GR-WS	10458
				UTE 2-6B2	S020	W020	6	NWNW	POW	4301331140	WSTC	11190
		N0980	TEXACO INC	UTE TRIBE "S" #1	S020	E010	10	SWNE	LA	4304730206		99998
		N2885	PENNZOIL EXPLOR & PR	C.B. HATCH 1-5B1	S020	W010	5	NESW	POW	4301330226	GR-WS	5935
				J LAMICQ ST 1-6B-1	S020	W010	6	SENW	SOW	4301330210	GR-WS	5405
				NORLING ST U 1-9B1	S020	W010	9	SWNE	SOW	4301330315	GR-WS	5940
		N0675	ANR PRODUCTION COMPA	GALLOWAY 1-18B1	S020	W010	18	SWNE	POW	4301330575	GR-WS	2365

FLD NUM	FIELD NAME	ACCT NUM	COMPANY NAME	WELL NAME	TOWN SHIP	RANGE	SEC	Q-Q	STATUS	API NUMBER	PROD ZONE	ENTITY
65	BLUEBELL	N2945	UINTA OIL & GAS	NIELSON #1-20B1	S020	W010	20	SWNE	POW	4301330740	GR-WS	673
		N1195	FLYING J INC	POWELL 1-21B1	S020	W010	21	NESW	POW	4301330621	GR-WS	910
		N0130	BOW VALLEY PETROLEUM	DCSD 1-22B1	S020	W010	22	SWNE	PA	4301330574	GR-WS	99998
		N2885	PENNZOIL EXPLOR & PR	LAMICO UTE 1-5B2	S020	W020	5	NWSE	SOW	4301330212	GR-WS	5415
		N0675	ANR PRODUCTION COMPA	UTE 1-06B2	S020	W020	6	NWSE	POW	4301330349	GR-WS	1895
		N2885	PENNZOIL EXPLOR & PR	MARQUERITE UTE 1-8B2	S020	W020	8	NWSE	SOW	4301330235	GR-WS	5430
				CAMPBELL UTE 1-12B2	S020	W020	12	SWNE	POW	4301330237	GR-WS	5300
		N0675	ANR PRODUCTION COMPA	ELDER 1-13B2	S020	W020	13	SWNE	POW	4301330366	GR-WS	1905
		N2885	PENNZOIL EXPLOR & PR	D.L. GALLOWAY 1-14B2	S020	W020	14	SWNE	POW	4301330564	GR-WS	5965
		N9720	WESTERN ALLIANCE PET	WESTERN-JD #1-6A1E	S010	E010	6	SENW	LA	4304731686		99998
		N7125	RAMCO OIL & GAS INC	GULF UTE 2-16B2	S020	W020	16	SWNE	POW	4301330432	GR-WS	10961
		N5020	CSX OIL & GAS CORP	HALL 1-24B2	S020	W020	24	SENW	PA	4301330765	GR-WS	2304
		N0675	ANR PRODUCTION COMPA	GOODRICH 1-2B3	S020	W030	2	NWSE	POW	4301330182	GR-WS	1765
				FLYING DIAMOND ROPER 1-14	S020	W030	14	SENW	POW	4301330217	GR-WS	1850
		N2885	PENNZOIL EXPLOR & PR	STATE 3-18A1	S010	W010	18	NESW	POW	4301330369	GR-WS	5810
		N1195	FLYING J INC	HANSEN #1	S020	W030	23	SENW	SOW	4301330161	GR-WS	1093
		N0130	BOW VALLEY PETROLEUM	UTE TRIBAL #1-28-B	N010	W020	28	NESW	PA	4301330096	GR-WS	99998
		N7085	UTAH-WESTAR DRL VENT	ROOSEVELT UNIT 17-A1E	S010	E010	27	NWNW	LA	4304731691		99998
		N9995	QUINEX ENERGY CORP	CHASEL-SPROUSE 1-18A1E	S010	E010	18	SWNW	POW	4304731695	GR-WS	10348
		N2885	PENNZOIL EXPLOR & PR	SPRGFLD M/B/U1-10A2	S010	W020	10	SWSW	POW	4301330012	GR-WS	5865
				MOBIL-UTE TRBL 1-7A2	S010	W020	7	NESW	SOW	4301330025	GR-WS	5850
				VICTOR C BROWN 1-4A2	S010	W020	4	NESE	POW	4301330011	GR-WS	5780
				VIRGIL B MECHAM U 1	S010	W020	11	NWNE	SOW	4301330009	GR-WS	5760
				L BOREN U 3-15A2	S010	W020	15	NESW	POW	4301330086	GR-WS	5755
				L BOREN U 1-24A2	S010	W020	24	NESW	POW	4301330084	GR-WS	5740
				CAMPBELL UTE ST 1-7B1	S020	W010	7	SENW	POW	4301330236	GR-WS	5295
				ST LND BRD UTE 1-35A1	S010	W010	35	SENW	POW	4304730182	GR-WS	5520
				L RBRTSN ST 1-1B2	S020	W020	1	NESW	POW	4301330200	GR-WS	5410
		N9995	QUINEX ENERGY CORP	SAM HOUSTON #24-4	S010	W010	24	NWSE	POW	4304731653	GR-WS	10346
		N2885	PENNZOIL EXPLOR & PR	VERL JOHNSON 1-27A2	S010	W020	27	SWNE	POW	4301330119	GR-WS	5390
				JOHN 1-3B2	S020	W020	3	NESW	POW	4301330160	GR-WS	5385
		N0675	ANR PRODUCTION COMPA	UTE TRIBAL 1-25A3	S010	W030	25	SWNE	POW	4301330370	GR-WS	1920
		N0230	COASTAL OIL & GAS CO	POWELL #2-13A2	S010	W020	13	NENE	POW	4301331120	GR-WS	8306
		N0085	ROONEY OPERATING CO	VICTOR BROWN FEE #1	S010	W020	3	SWNW	PA	4301310495	GR-WS	99998
		N2885	PENNZOIL EXPLOR & PR	MCELPRANG 2-31A1	S010	W010	31	NWSW	POW	4301330836	GR-WS	2417
		N0390	BHP PETROLEUM/AMERIC	ROOSEVELT "C" 11	S010	E010	18	NESW	POW	4304731500	WSTC	221
		N2885	PENNZOIL EXPLOR & PR	TOMLINSON FED 1-25A2	S010	W020	25	SENW	POW	4301330120	GR-WS	5535
				FLY/DIA L. BOREN 1-14A2	S010	W020	14	NWSW	POW	4301330035	GR-WS	5885
		N9720	WESTERN ALLIANCE PET	ZELMA #1-36Z1	N010	W010	36	NWSW	LA	4304731574		99998
		N9690	ALBRITTON RESOURCES	BROWN #3-3	S010	W020	3	SENW	LA	4301331050		99998
		N9995	QUINEX ENERGY CORP	QUINEX-CMS #1-13A1	S010	W010	13	NENW	POW	4304731711	GR-WS	10769
				QUINEX-BOWEN-BASTIAN #1-1	S010	W010	14	SESW	POW	4304731713	GR-WS	10720
				SILKA-KILLIAN 2-12	S010	W010	12	SESE	PA	4304731712		99998
		N2275	GAVILAN PETROLEUM IN	ROOSEVELT UNIT #4	S010	W010	13	SWSW	SOW	4304715549	GRRV	9300
				UTE TRIBAL #3 (RU #3)	S010	E010	28	SENE	POW	4304715552	GRRV	9304
				ROOSEVELT B2	S010	E010	20	NWSW	POW	4304731187	GRRV	9307
		N1195	FLYING J INC	MAGDALENE PAPDOPULOS 2-34	S010	E010	34	NESW	SGW	4304730683	GR-WS	10610

FLD NUM	FIELD NAME	ACCT NUM	COMPANY NAME	WELL NAME	TOWN SHIP	RANGE	SEC	Q-Q	STATUS	API NUMBER	PROD ZONE	ENTITY
65	BLUEBELL	N5050	MEDALLION EXPLORATIO	UTE TRIBE O-1	S020	E010	4	SENW	SOW	4304730183	GR-WS	4520
		N0275	UTE INDIAN TRIBE	BADGER UTE L.E. FONT #3-2	N010	W020	27	SESE	SOW	4301331052	GR-WS	9464
		N0675	ANR PRODUCTION COMPA	UTE TRIBAL #2-33Z2	N010	W020	33	SWSW	POW	4301331111	GR-WS	10451
		N1780	BADGER OIL CORPORATI	JENSEN #29-1	N010	W010	29	NWSE	LA	4301330708		99998
		N1590	GULF OIL CORPORATION	UTE TRIBAL #1-19Z2	N010	W020	19	SENE	LA	4301330256		99998
		P0075	FLYING DIAMOND OIL C	UTE INDIAN #1-27	N010	W020	27	NESW	PA	4301330305	GR-WS	99998
		N0130	BOW VALLEY PETROLEUM	UTE INDIAN #1-29	N010	W020	29	SESW	PA	4301330329	GR-WS	99998
		N1590	GULF OIL CORPORATION	UTE TRIBAL #1-30Z2	N010	W020	30	SENW	LA	4301330365		99998
		N0845	SHELL OIL COMPANY	UTE #1-33	N010	W020	33	SWSE	LA	4301330002		99998
		N1590	GULF OIL CORPORATION	SPRING HOLLOW UNIT-TRIBAL	N010	W030	25	SENW	LA	4301330430		99998
		N0210	CHEVRON USA INC	CLYDE R COX UNIT 1-6A1	S010	W010	6	NWSW	PA	4301330037	GR-WS	99998
		P0075	FLYING DIAMOND OIL C	UTE TRIBAL W-16	S010	W010	16	NWSW	PA	4301330044	GR-WS	99998
		N1780	BADGER OIL CORPORATI	BADGER-LAWSON #2-21A1	S010	W010	21	SENW	LA	4301331020		99998
		N0230	COASTAL OIL & GAS CO	LAWSON #2-28-1-1	S010	W010	28	SWSW	LA	4301330569		99998
		P0037	HUMBLE OIL & REFININ	BLUEBELL UNIT #1	S010	W020	6	SWNE	PA	4301310485		99998
		N0845	SHELL OIL COMPANY	BAUMAN STATE #1-10	S010	W020	10	SWNE	LA	4301330004		99998
		P0075	FLYING DIAMOND OIL C	E-13-15-2W	S010	W020	13	NENE	LA	4301320350		99998
		N0970	TETON ENERGY CO INC	UTE TRIBAL #13-1	S010	W030	13	SWNE	LA	4301330436		99998
				UTE TRIBAL #14-1	S010	W030	14	NWNE	LA	4301330437		99998
				UTE TRIBAL #23-1	S010	W030	23	NENW	LA	4301330438		99998
		N1590	GULF OIL CORPORATION	UTE #1-17B2	S020	W020	17	SENW	LA	4301330291		99998
		P0077	GAGON, FRED H	BOUNTIFUL FEE #1	S020	W010	22	NWSW	LA	4301330010		99998
		N1590	GULF OIL CORPORATION	MEAGHER UTE TRIBAL UNIT #	S020	W020	9	NWSE	LA	4301330072		99998
		N0980	TEXACO INC	LEONARD GOODRICH #1	S020	W020	22	SWNE	PA	4301330339	GR-WS	99998
		N2275	GAVILAN PETROLEUM IN	ROOSEVELT UNIT #15-A1E	S010	E010	28	SWNW	POW	4304731696	GRRV	10506
		N9680	CHASEL ENERGY	CHASEL MALNAR 4-13A1W	S010	W010	13	NWNE	LA	4304731460		99998
		P0075	FLYING DIAMOND OIL C	UTE TRIBAL #2-34-C	N010	W020	34	SWSW	LA	4301330023		99998
		N9715	SAM OIL INC	SAM BOWEN 1-15-A1	S010	W010	15	SWNE	LA	4301330916		99998
		N0675	ANR PRODUCTION COMPA	JENKINS #2-12B3	S020	W030	12	SENE	POW	4301331121	GR-WS	10459
		N0130	BOW VALLEY PETROLEUM	UTE TRIBAL #26-1	N010	W010	26	NESW	PA	4304730147		99998
				COX 1-13A1E	S010	E010	13	NESW	PA	4304730843	GR-WS	875
		P0098	CARTER OIL CO	UTE TRIBAL C-1	S010	E010	16	SWSW	PA	4304720350		99998
		P0037	HUMBLE OIL & REFININ	G E HOUSTON #1	S010	E010	18	SESW	PA	4304710576	GRRV	99998
		N9680	CHASEL ENERGY	CHASEL SPROUSE 1-18A1E	S010	E010	18	SENW	LA	4304731457		99998
		N9510	RIO BRAVO OIL COMPAN	ROOSEVELT UNIT #20-1	S010	E010	20	SENE	LA	4304731451		99998
		N0420	EXXON CORPORATION	ROOSEVELT UNIT #101 SWD	S010	E010	20	NESW	PA	4304710582	GRRV	99998
		P0109	WEIGHTMAN, J W	J W WEIGHTMAN ET AL #1	S010	E010	29	SENE	PA	4304720352		99998
		N0420	EXXON CORPORATION	FERN D MAXWELL #1	S010	E010	32	NESW	LA	4304730213		99998
		P0112	SYNDICATE OIL & MINI	SYNDICATE OIL & MINING CO	S010	E010	36		PA	4304720354	GRRV	99998
		N1780	BADGER OIL CORPORATI	MICHELLE UTE 2-7A1E	S010	E010	7	SWNE	LA	4304731720		99998
		N5050	MEDALLION EXPLORATIO	F.J. FENZEL #1	S020	W020	15	SWNE	PA	4301330311	GR-WS	4535
		N9523	LINMAR PETROLEUM COM	DUNCAN #3-1A2	S010	W020	1	SWSW	POW	4301331135	GR-WS	10484
		N2945	UINTA OIL & GAS	DYE-HALL #2-21A1	S010	W010	21	SENE	POW	4301331163	GR-WS	10713
		N1195	FLYING J INC	UTE TRIBAL #2-34Z2	N010	W020	34	SESW	POW	4301331167	GR-WS	10668
		N9523	LINMAR PETROLEUM COM	UTE TRIBAL 3-35Z2	N010	W020	35	SENE	POW	4301331133	GR-WS	10483
		N2885	PENNZOIL EXPLOR & PR	STATE 1-10A2 (3-10C)	S010	W020	10	SWNE	POW	4301330006	GR-WS	5860
		N0772	PHILLIPS PETROLEUM C	LEETON #1	S010	W010	24	NENE	PA	4304710917	GRRV	99998

FLD NUM	FIELD NAME	ACCT NUM	COMPANY NAME	WELL NAME	TOWNSHIP	RANGE	SEC	Q-Q	STATUS	API NUMBER	PROD ZONE	ENTITY
65	BLUEBELL	P0037	HUMBLE OIL & REFININ	WHITLOCK TAYLOR #1	S010	W010	24	NWSW	PA	4304710587	GRRV	99998
		N0210	CHEVRON USA INC	DRY GULCH 1-36A1	S010	W010	36	NESW	LA	4304730172		99998
		N0730	PAGE PETROLEUM INC	UTE #2-9B1E	S020	E010	9	SWNE	LA	4304731432		99998
		N0420	EXXON CORPORATION	UTE TRIBAL "C" #1	S020	E010	22	NESW	LA	4304730932		99998
				J NOBLE-TRIBAL #1	S020	E010	23	SWNE	LA	4304730935		99998
				UTE TRIBAL "F" #1	S020	E010	23	SENW	LA	4304731036		99998
				UTE TRIBAL "D" #1	S020	E010	27	NESW	LA	4304730933		99998
				UTE TRIBAL UNIT #1	S020	E010	15	NWSE	LA	4304730936		99998
		P0233	GEOTRONIC DEVELOPMEN	GEOTRONIC-STATE #1	S020	W010	2	SWSE	PA	4304710391	GRRV	99998
		P0112	SYNDICATE OIL & MINI	SYNDICATE OIL & MINING FE	S020	E020	19	SWNW	PA	4304720362	GRRV	99998
		N1780	BADGER OIL CORPORATI	BRADLEY 2-23A1	S010	W010	23	NWSE	LA	4304731734		99998
				BISEL-GURR 2-11A1	S010	W010	11	SWNE	LA	4304731733		99998
				BASSETT #2-22A1	S010	W010	22	SWNW	LA	4301331178		99998
				BADGER SAM-U-WELL #2-15A1	S010	W010	15	SWNE	LA	4301331177		99998
				BADGER TEN-FOR #2-10A1	S010	W010	10	NESE	LA	4301331176		99998
		N1195	FLYING J INC	L. BOLTON 1-12A1	S010	W010	12	NESW	POW	4304731295	GR-WS	920
		N5050	MEDALLION EXPLORATIO	F. J. FENZEL #1	S020	W020	15	SWNE	SOW	4301330311	GRRV	4535
		N9520	LINMAR ENERGY CORPOR	ROOSEVELT UNIT BADGER I1-	S010	W010	14	NESE	LA	4304731659		99998
		N1195	FLYING J INC	UTE TRIBAL 1-32A1E	S010	E010	32	SWNE	SOW	4304730676	GR-WS	835
		N9520	LINMAR ENERGY CORPOR	ROOSEVELT UNIT BADGER H-5	S010	E010	20	SENE	LA	4304731661		99998
				ROOSEVELT UNIT BADGER F-6	S010	E010	21	SENW	LA	4304731662		99998
		N2885	PENNZOIL EXPLOR & PR	MEAGHER TRBL 1-09B2	S020	W020	9	SENW	POW	4301330325	GR-WS	1816
				MAUREL TAYLOR FEE #1-36A2	S010	W020	36	NESW	POW	4301330143	GR-WS	5525
				LAMICQ 2-6B1	S020	W010	6	NWSE	POW	4301330809	GR-WS	2301
		N0420	EXXON CORPORATION	UTE TRIBAL G #1	S010	E010	29	SWNW	LA	4304731039		99998
		N9520	LINMAR ENERGY CORPOR	CHASEL 2-13A1	S010	W010	13	SWNW	LA	4304731325		99998
		N9680	CHASEL ENERGY	CHASEL ELVIN BASTIAN 1-14	S010	W010	14	SESW	LA	4304731461		99998
		N9715	SAM OIL INC	SAM PHILLIPS 400 1-24A1	S010	W010	24	NWSE	LA	4304731462		99998
		N7125	RAMCO OIL & GAS INC	GULF UTE 1-17B2	S020	W020	17	SENW	SOW	4301330440	GR-WS	1250
		N0210	CHEVRON USA INC	MS MCDONALD 1-17B1	S020	W010	17	SENW	PA	4301330400	GR-WS	5955
		N2275	GAVILAN PETROLEUM IN	ROOSEVELT UNIT #18-A1E	S010	E010	27	NWSW	POW	4304731687	GRRV	10505
		N0675	ANR PRODUCTION COMPA	UTE TRIBAL #2-32Z2	N010	W020	32	SWSW	PA	4301331110	GR-WS	1916
		N1195	FLYING J INC	BIRCHELL 1-27A1	S010	W010	27	SWNE	POW	4301330758	GR-WS	940
		N0230	COASTAL OIL & GAS CO	SWD WELL POWELL #3	S010	W020	13	SWSW	WDW	4301330478	UNTA	99996
		N0675	ANR PRODUCTION COMPA	JENKINS #2-1B3	S020	W030	1	SWSW	POW	4301331117	GR-WS	1792
		P0075	FLYING DIAMOND OIL C	CHASEL "E" #17	S010	W010	17	NWNE	PA	4301330027	GR-WS	99998
		N1780	BADGER OIL CORPORATI	GUSHER 2-17B1	S020	W010	17	NENE	POW	4301330846	GR-WS	8436
		N0085	ROONEY OPERATING CO	VICTOR BROWN FEE #1	S010	W020	3	SWNW	PA	4301310495		99990
		N2885	PENNZOIL EXPLOR & PR	BOREN 4-15A2	S010	W020	15	SENE	LA	4301331186		99998
				LAMICQ-URRITY 4-17A2	S010	W020	17	SENW	POW	4301331190	GR-WS	10764
		N1195	FLYING J INC	LILA D. #2-25A1	S010	W010	25	NENE	POW	4304731797	GR-WS	10790
				UTE TRIBAL 1-35A1E	S010	E010	35	SENW	POW	4304730286	GR-WS	795
		N2885	PENNZOIL EXPLOR & PR	LAMICQ #2-20A2	S010	W020	20	SESE	POW	4301331191	GR-WS	10794
				BOREN 3-11A2	S010	W020	11	SWSW	POW	4301331192	GR-WS	10785
		N0675	ANR PRODUCTION COMPA	MEAGHER EST 1-20B2E	S020	E020	20	NENE	PA	4304730186	GR-WS	1875
		N9995	QUINEX ENERGY CORP	LESLIE TAYLOR 24-5	S010	W010	24	SWNW	POW	4304731828	GR-WS	10879
		N0275	UTE INDIAN TRIBE	UTE TRIBAL COM #1	S020	E010	2	NESW	PA	4304730931	GR-WS	600

FLD NUM	FIELD NAME	ACCT NUM	COMPANY NAME	WELL NAME	TOWNSHIP	RANGE	SEC	Q-Q	STATUS	API NUMBER	PROD ZONE	ENTITY
65	BLUEBELL	N1195	FLYING J INC	DAVIS 1-33	S010	E010	33	SENW	POW	4304730384	GR-WS	805
		N0675	ANR PRODUCTION COMPA	UTE 2-36-A3	S010	W030	36	NWNE	LA	4301331210		99998
		N2885	PENNZOIL EXPLOR & PR	REYNOLDS 2-7B1E	S020	E010	7	SENE	POW	4304731840	GR-WS	10878
		N9995	QUINEX ENERGY CORP	MICHELLE UTE 7-1	S010	E010	7	NESW	POW	4304731390	GR-WS	10884
		N1195	FLYING J INC	FAUSETT 1-26A1E	S010	E010	26	NESW	SOW	4304730821	GR-WS	870
		N0390	BHP PETROLEUM/AMERIC	MARY-R.U. #278	S010	W010	13	NWSE	POW	4304731845	WSTC	221
		N2885	PENNZOIL EXPLOR & PR	WISSE 3-35A2	S010	W020	35	SWSW	POW	4301331215	GR-WS	10925
		N9995	QUINEX ENERGY CORP	JOHN 2-7B2	S020	W020	7	NWNW	POW	4301331216	GR-WS	10987
		N2885	PENNZOIL EXPLOR & PR	FRESTON 2-8B1	S020	W010	8	SWNE	POW	4301331203	GR-WS	10851
				UNTA OURAY TRBL 1-1A3	S010	W030	1	NWSE	POW	4301330132	GR-WS	5540
				MECCA 2-8A2	S010	W020	8	SESE	POW	4301331231	GR-WS	10981
				MARK 2-25A2	S010	W020	25	NWNE	POW	4301331232	GR-WS	10986
				DUNCAN 4-12A2	S010	W020	12	SWNW	PGW	4301331233	GRRVU	10990
		N9523	LINMAR PETROLEUM COM	CHASEL-HACKFORD 2-10-A1E	S010	E010	10	SESE	POW	4304731421	GR-WS	9400
		N2885	PENNZOIL EXPLOR & PR	SWYKES 2-21A2	S010	W020	21	NWNW	POW	4301331235	GR-WS	10998
				SHERMAN 2-12B2	S020	W020	12	SWSE	POW	4301331238	GR-WS	11009
		N9995	QUINEX ENERGY CORP	DEEP CREEK 2-19A2E	S010	E020	19	NWSW	POW	4304731874	WSTC	11200
		N0675	ANR PRODUCTION COMPA	GOODRICH 2-2B3	S020	W030	2	NENW	POW	4301331246	GR-WS	11037
		N9995	QUINEX ENERGY CORP	MERLENE 2-36A3	S010	W030	36	SESE	POW	4301331247	GR-WS	11078
				JODIE 3-36A3	S010	W030	36	NWNE	POW	4301331248	GR-WS	11118
		N0675	ANR PRODUCTION COMPA	UTE 2-26A3	S010	W030	26	SWSW	LA	4301331253		99998
		N9995	QUINEX ENERGY CORP	ALLRED 2-32A1E	S010	E010	32	SESW	POW	4304731889	WSTC	11117
		P0075	FLYING DIAMOND OIL C	UTE TRIBAL W-4	S010	W010	4	SWSW	PA	4301330034	GR-WS	99998
		N1195	FLYING J INC	FOWLES 1-26A1	S010	W010	26	NWSE	POW	4304731296	GR-WS	930
		N2885	PENNZOIL EXPLOR & PR	DUNCAN 4-2A2	S010	W020	2	NESE	DRL	4301331276	GRRVU	11258
				HAMBLIN 3-9A2	S010	W020	9	SENE	PGW	4301331278	GRRVU	11094
		N1195	FLYING J INC	LANDY 2-30A1E	S010	E010	30	SWSE	POW	4304731895	GR-WS	11127
		N2885	PENNZOIL EXPLOR & PR	DUNCAN 3-7A1	S010	W010	7	NWNW	DRL	4301331285		11249
				BAR-F 2-5B1	S020	W010	5	SWSE	POW	4301331286	GR-WS	11113
		N9523	LINMAR PETROLEUM COM	DUNCAN 4-1A2	S010	W020	1	SWSW	LA	4301331287		99998
		N0675	ANR PRODUCTION COMPA	UTE 2-35A3	S010	W030	35	NENE	POW	4301331292	WSTC	11222
		N1195	FLYING J INC	BASTIAN 4-8A1	S010	W010	8	SWSE	LA	4301331295		99998
		N2885	PENNZOIL EXPLOR & PR	UTE TRIBAL 3-12A3	S010	W030	12	SESE	DRL	4301331294		11209
		N9995	QUINEX ENERGY CORP	STATE 1-4B1E	S020	E010	4	SWSW	POW	4304731940	WSTC	11329
		N2885	PENNZOIL EXPLOR & PR	CORNABY 2-14A2	S010	W020	14	NENE	PGW	4301331299	GRRVU	11228
				MITCHELL 2-4B1	S020	W010	4	SESW	POW	4301331317	WSTC	11231
				LORANGER 2-24A2	S010	W020	24	NENE	POW	4301331322	WSTC	11244
		N0675	ANR PRODUCTION COMPA	POWELL 4-13A2	S010	W020	13	NENE	PA	4301331319		11263
		N2885	PENNZOIL EXPLOR & PR	HUSTON 2-32A1	S010	W010	32	SESE	DRL	4301331323		99999
				BOREN 4-15A2	S010	W020	15	SWNE	LA	4301331324		99998
				MCELPRANG 2-30A1	S010	W010	30	SWSW	POW	4301331326	GR-WS	11252
				UTE 5-19A2	S010	W020	19	NWNW	DRL	4301331330	GR-WS	11277
				UTE 2-24A3	S010	W030	24	SWNW	DRL	4301331329		11339
				EDWARDS 3-10B1	S020	W010	10	SWSW	DRL	4301331332	GR-WS	11264
				SUNDANCE 4-15A2	S010	W020	15	SWNE	POW	4301331333	GR-WS	11269
				LAMICQ-URRUTY 1-8A2	S010	W020	8	NWSW	PGW	4301330036	GRRVU	11262
				LORANGER 6-22A2	S010	W020	22	SWSW	DRL	4301331334		11335

FLD NUM	FIELD NAME	ACCT NUM	COMPANY NAME	WELL NAME	TOWNSHIP	RANGE	SEC	Q-Q	STATUS	API NUMBER	PROD ZONE	ENTITY
65	BLUEBELL	N2885	PENNZOIL EXPLOR & PR	COX 2-36A2	S010	W020	36	NWNW	DRL	4301331335	GR-WS	11330
		N0230	COASTAL OIL & GAS CO	POWELL 4-13A2A	S010	W020	13	NENE	PGW	4301331336	GRRV	11270
		N0675	ANR PRODUCTION COMPA	UTE 2-26A3	S010	W030	26	SWSW	DRL	4301331340		11349
		N2885	PENNZOIL EXPLOR & PR	FRESTON 2-7B1	S020	W010	7	SENE	DRL	4301331341		11338
				UTE 2-18A2	S010	W020	18	NENE	DRL	4301331342		99999
		N0675	ANR PRODUCTION COMPA	UTE 2-25A3	S010	W030	25	NESW	DRL	4301331343		11361
		N2885	PENNZOIL EXPLOR & PR	HICKS 2-16B1	S020	W010	16	SENE	DRL	4301331345		99999
				RICH 2-13B1	S020	W010	13	NWNW	DRL	4304732179		99999
				CHRISTIANSEN 2-12B1	S020	W010	12	SWSE	DRL	4304732178		11350
		N0675	ANR PRODUCTION COMPA	LAZY K 2-11B3	S020	W030	11	NWNE	DRL	4301331352		11362
		N2885	PENNZOIL EXPLOR & PR	BOREN 4-9A2	S010	W020	9	NWNW	DRL	4301331351		11366
		N0675	ANR PRODUCTION COMPA	LAZY K 2-14B3	S020	W030	14	NWSE	DRL	4301331354		99999
		N2885	PENNZOIL EXPLOR & PR	PEARSON 2-11B2	S020	W020	11	SENE	DRL	4301331356		11359
		N0675	ANR PRODUCTION COMPA	MATTHEWS 2-13B2	S020	W020	13	NWNW	DRL	4301331357		99999
68	UNNAMED 24-4S-5W	N5090	COORS ENERGY	CC UTE 1-24D	S040	W050	24	NWNW	TA	4301331234	GRRV	11024
70	BRIDGELAND			UTE TRIBAL 1-28D3	S040	W030	28	NESE	PA	4301330593	GRRV	5640
				UTE TRIBAL 1-27-D3	S040	W030	27	NWSW	PA	4301330567	WSTC	5611
				UTE TRIBAL 1-21D3	S040	W030	21	SWSW	PA	4301330711	GRRV	5630
		N1590	GULF OIL CORPORATION	UTE TRIBAL #1-22-D3	S040	W030	22	SWSW	LA	4301330709		99998
				J.M. SMITH #1-30-D3	S040	W030	30	NWSE	LA	4301330706		99998
				UTE TRIBAL #1-29-D3	S040	W030	29	NESE	LA	4301330710		99998
		N5090	COORS ENERGY	UTE TRIBAL 2-27BL	S040	W030	27	NESW	PA	4301331208		5611
				UTE TRIBAL 2-28BL	S040	W030	28	NWSE	PA	4301331209		5640
				UTE TRIBAL 1-27-D3	S040	W030	27	NWSW	PA	4301330567	GRRV	5611
72	BRUNDAGE CANYON	N7295	ZINKE & TRUMBO LTD	B C UTE TRIBAL #8-21	S050	W040	21	SENE	POW	4301330829	GRRV	8414
		N9270	IRONWOOD EXPLORATION	IRONWOOD-GULF-FOY 12-5	S050	W040	12	SWNW	SOW	4301330885	GRRV	9101
				UTE TRIBAL 12-11	S050	W040	12	NESW	SOW	4301330854	GRRV	9103
		N9956	WALKER ENERGY GROUP	B C UTE TRIBAL 14-15	S050	W040	15	SESW	POW	4301330842	GRRV	9440
		N7295	ZINKE & TRUMBO LTD	B.C. UTE TRIBAL 16-16	S050	W040	16	SESE	POW	4301330841	GRRV	9489
		N0580	LOMAX EXPLORATION CO	SOWERS UTE TRIBAL 13-3	S050	W040	3	SWSW	PA	4301330924	GRRV	9488
		N9956	WALKER ENERGY GROUP	UTE TRIBAL #16-2	S050	W040	2	SESE	POW	4301330756	GRRV	2610
		N0275	UTE INDIAN TRIBE	UTE TRIBAL 24-12	S050	W040	24	NWSW	POW	4301330830	GRRV	9104
		N9270	IRONWOOD EXPLORATION	UTE TRIBAL 25-5	S050	W040	25	SWNW	POW	4301330944	GRRV	9105
		N7295	ZINKE & TRUMBO LTD	S. COTTONWOOD RIDGE UTE T	S050	W040	19	NENE	POW	4301330933	GRRV	9845
				S. COTTONWOOD RIDGE UTE T	S050	W040	20	NENE	POW	4301330966	GRRV	9925
				S. BRUNDAGE UTE TRIBAL 1-	S050	W040	29	NENE	POW	4301330964	GRRV	2621
		N9956	WALKER ENERGY GROUP	S. BRUNDAGE UTE TRIBAL 1-	S050	W040	30	NENE	POW	4301330948	GRRV	9850
		N7295	ZINKE & TRUMBO LTD	TABBY CYN UTE TRIBAL 1-25	S050	W050	25	NENE	POW	4301330945	GRRV	9722
				BC UTE TRIBAL 4-22	S050	W040	22	NWNW	POW	4301330755	GRRV	2620
		N0275	UTE INDIAN TRIBE	UTE TRIBAL 13-15X	S050	W040	13	SWSE	POW	4301330844	GRRV	9100
		N9270	IRONWOOD EXPLORATION	UTE TRIBAL 23-3	S050	W040	23	NENW	POW	4301330886	GRRV	9102
		N0580	LOMAX EXPLORATION CO	S COTTONWOOD RIDGE #13-20	S050	W040	20	SWSW	LA	4301331065		99998
		N7295	ZINKE & TRUMBO LTD	S BRUNDAGE CYN UTE TRIBAL	S050	W040	27	NWNW	POW	4301331131	GRRV	9851
				T.C. UTE TRIBAL 9-23X	S050	W050	23	NESE	POW	4301330999	GRRV	9720
		N0275	UTE INDIAN TRIBE	UTE TRIBE 1-13	S050	W040	13	SWSW	POW	4301320073	GRRV	1225
		N0580	LOMAX EXPLORATION CO	B.C. UTE TRIBAL #10-16	S050	W040	16	NWSE	LA	4301330987		99998
		N2275	GAVILAN PETROLEUM IN	T C UTE 14-9A	S050	W050	14	NESE	POW	4301331146	GRRV	10420

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72	BRUNDAGE CANYON	N0580	LOMAX EXPLORATION CO	B.C. UTE TRIBAL #6-22	S050	W040	22	SENW	LA	4301331019		99999
				BRUNDAGE UTE TRIBAL #2-21	S050	W040	21	NWNE	LA	4301330988		99998
				TABBY CANYON UTE TRIBAL #	S050	W050	24	SWNW	LA	4301331061		99998
				B C UTE TRIBAL #10-21	S050	W040	21	NWSE	LA	4301331066		99998
		N2275	GAVILAN PETROLEUM IN	UTE 14-9	S050	W050	14	NESE	GIW	4301330541	GRRV	10422
		N7295	ZINKE & TRUMBO LTD	UTE TRIBAL 5-13	S050	W050	13	SWNW	POW	4301331152	GRRV	10421
		N9270	IRONWOOD EXPLORATION	UTE TRIBAL #25-6	S050	W040	25	SENW	WIW	4301331202	GRRV	9105
				UTE TRIBAL 25-2	S050	W040	25	NWNE	POW	4301331213	GRRV	9105
		N7295	ZINKE & TRUMBO LTD	Z & T UTE TRIBAL 7-20	S050	W040	20	SWNE	PA	4301331281		11132
				Z & T UTE TRIBAL 2-21	S050	W040	21	NWNE	POW	4301331280	GRRV	11130
				Z & T UTE TRIBAL 7-19	S050	W040	19	SWNE	POW	4301331282	GRRV	11131
				Z & T UTE TRIBAL 10-21	S050	W040	21	NWSE	POW	4301331283	GRRV	11133
				Z & T UTE TRIBAL 13-19	S050	W040	19	SWSW	POW	4301331284	GRRV	11134
				Z&T UTE TRIBAL 14-16	S050	W040	16	SESW	DRL	4301331309		99999
				Z&T UTE TRIBAL 2-21G	S050	W040	21	NWNE	DRL	4301331313		99999
				Z&T UTE TRIBAL 7-25	S050	W050	25	SWNE	DRL	4301331310		99999
				Z&T UTE TRIBAL 12-22	S050	W040	22	NWSW	DRL	4301331311		99999
				Z & T UTE TRIBAL 16-21	S050	W040	21	SESE	DRL	4301331314		99999
				Z&T UTE TRIBAL 4-21	S050	W040	21	NWNW	DRL	4301331316		99999
75	CASTLE PEAK	N9890	BALCRON OIL	CASTLE PK FED 31-15	S090	E160	15	NWNE	POW	4301330613	GRRV	1165
				CASTLE PK FED 24-15	S090	E160	15	SESW	POW	4301330631	GRRV	1160
		N0865	MAXUS EXPLORATION CO	CASTLE PK FED #11-15	S090	E160	15	NWNW	PA	4301330664	GRRV	1145
		N0595	PG&E RESOURCES COMPA	NGC FED 21-5G	S090	E160	5	NENW	POW	4301330698	GRRV	6105
		N9890	BALCRON OIL	CASTLE PK FED 24-10A	S090	E160	10	SESW	POW	4301330555	GRRV	1281
				CASTLE PK ST 43-16	S090	E160	16	NESE	PGW	4301330594	GRRV	1181
		N9540	ALTA ENERGY CORP	CASTLE PK ST 33-16	S090	E160	16	NWSE	POW	4301330640	GRRV	440
				CASTLE PK ST 32-16	S090	E160	16	SWNE	POW	4301330650	GRRV	445
		N9740	AMSEL PETROLEUM INC	N.G.C. FEDERAL #1	S090	E160	17	SENE	LA	4301330951		99998
				N.G.C. FEDERAL #2	S090	E160	17	NESW	LA	4301330956		99998
				N.G.C. FEDERAL #3	S090	E160	19	NWNE	LA	4301330952		99998
				N.G.C. FEDERAL #4	S090	E160	20	NWNE	LA	4301330953		99998
		N0400	EP OPERATING COMPANY	FEDERAL #1-9	S090	E160	9	SWNW	LA	4301330946		99998
		N0580	LOMAX EXPLORATION CO	CASTLE DRAW STATE #1-32	S090	E160	32	NENE	PA	4301330931		99998
		N9540	ALTA ENERGY CORP	STATE #16-1-O	S090	E160	16	SWSE	POW	4301331022	GRRV	10200
		N0400	EP OPERATING COMPANY	CASTLE PEAK FEDERAL #1-10	S090	E160	10	NWNW	PA	4301330653		99998
		N0885	L & W OIL COMPANY	NOVA #31-20 G NGC FEDERAL	S090	E160	20	NWNE	POW	4301331071	GRRV	10185
		N9540	ALTA ENERGY CORP	STATE #16-2-N	S090	E160	16	SESW	POW	4301331094	GRRV	10199
		N2200	NOVA PETROLEUM CORP	NGC FEDERAL #23-17G	S090	E160	17	NESW	LA	4301331095		99998
		N9890	BALCRON OIL	CASTLE PEAK FEDERAL 43-5	S090	E160	5	NESE	POW	4301330858	GR-WS	2043
				CASTLE PK FED 44-10	S090	E160	10	SESE	POW	4301330630	GRRV	1180
		N0865	MAXUS EXPLORATION CO	CASTLE PEAK 5	S090	E160	15	NWSW	PA	4301315784	GRRV	1185
		N9890	BALCRON OIL	CASTLE PK FED. 22-15	S090	E160	15	SENW	POW	4301330634	GRRV	1150
				CASTLE PK FED 42-15	S090	E160	15	SENE	POW	4301330633	GRRV	1175
		N0340	DIAMOND SHAMROCK EXP	CASTLE PEAK UNIT #9	S090	E160	5	SESE	PA	4301315787	DGCRK	99998
		N9735	ROSELAND OIL & GAS I	WELLS DRAW FEDERAL 11-5	S090	E160	5	NWNW	POW	4301331144	GRRV	10009
		N0340	DIAMOND SHAMROCK EXP	CASTLE PEAK UNIT #3	S090	E150	22	SESE	PA	4301315783	DGCRK	99998
				CASTLE PEAK UNIT #2	S090	E150	24	NWSW	PA	4301315782	GRRV	99998

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75	CASTLE PEAK	N0340	DIAMOND SHAMROCK EXP	CASTLE PEAK UNIT #1	S090	E150	24	NWSE	PA	4301315781	GRRV	99998
				CASTLE PEAK UNIT #10	S090	E160	9	NWSE	PA	4301315788	GRRV	99998
				CASTLE PEAK #7 R	S090	E160	10	SENE	PA	4301330554		99998
		N0400	EP OPERATING COMPANY	CASTLE PEAK #1-10	S090	E160	10	NWNW	PA	4301330527		99998
		N0340	DIAMOND SHAMROCK EXP	CASTLE PEAK UNIT #7	S090	E160	10	SENE	PA	4301315785	GRRV	99998
				CASTLE PEAK UNIT #8	S090	E160	20	NWNW	PA	4301315786	DGCRK	99998
				CASTLE PEAK UNIT #6	S090	E160	27	NWNW	PA	4301311007		99998
		N0720	PACIFIC TRANS SUPPLY	AMOCO-FEDERAL #21-29	S090	E160	29	NENW	PA	4301330446		99998
		N0580	LOMAX EXPLORATION CO	ANTELOPE CANYON FED #24-2	S090	E150	23	SESW	PA	4301331084		99998
		N0595	PG&E RESOURCES COMPA	FEDERAL 23-5-G	S090	E160	5	NESW	POW	4301331207	GRRV	6105
		N9735	ROSELAND OIL & GAS I	FEDERAL 12-5	S090	E160	5	SWNW	LA	4301331255		99998
		N0595	PG&E RESOURCES COMPA	FEDERAL 22-5-G	S090	E160	5	SENW	POW	4301331273	GRRV	11103
				FEDERAL 32-6-G	S090	E160	6	SWNE	PA	4301331300		11211
80	CEDAR RIM	N7280	HELD BY PRODUCTION I	CEDAR RIM #2	S030	W060	20	SWNE	POW	4301330019	GR-WS	6315
		N0540	KOCH EXPLORATION CO	SINK DRAW #1	S030	W070	22	SWNE	PA	4301330033	GR-WS	6320
		N7280	HELD BY PRODUCTION I	SINK DRAW #7	S030	W070	21	SENE	SOW	4301330302	GR-WS	6360
				CEDAR RIM #10	S030	W060	15	SWNE	SOW	4301330328	GR-WS	6365
				CEDAR RIM #13	S030	W060	29	SENE	POW	4301330353	GR-WS	6385
				CEDAR RIM #10-A	S030	W060	15	NESW	POW	4301330615	GR-WS	6420
				CEDAR RIM #6	S030	W060	21	SWNE	POW	4301330243	GR-WS	6340
		N0540	KOCH EXPLORATION CO	SINK DRAW #5	S030	W070	15	NWSE	PA	4301330295	GR-WS	6355
		N0865	MAXUS EXPLORATION CO	UTE 1-8C6	S030	W060	8	NWSE	PA	4301330387	GR-WS	1235
		N0815	SFEOP	TRIBAL FED 1-5C6	S030	W060	5	SWSW	PA	4301330447	GR-WS	10709
		N7280	HELD BY PRODUCTION I	CALOIL UTE TRIBAL 1-A	S030	W060	18	NWNW	SDW	4301315122	GRRV	99996
		N0540	KOCH EXPLORATION CO	SINK DRAW #3	S030	W070	13	SWNE	PA	4301330252	GR-WS	9360
				SINK DRAW #3-A	S030	W070	13	SWSE	LA	4301330546		99998
				CEDAR RIM #5-A	S030	W060	16	SWSW	LA	4301330794		99998
				CEDAR RIM #8-A	S030	W060	22	SWSW	LA	4301330796		99998
				CEDAR RIM #12-A	S030	W060	28	SESE	LA	4301330798		99998
		N7280	HELD BY PRODUCTION I	CEDAR RIM 11-A	S030	W060	27	NESW	POW	4301330797	GR-WS	6316
		N9523	LINMAR PETROLEUM COM	SMITH-TRIBAL #2-22C7	S030	W070	22	SESW	POW	4301331027	GR-WS	10235
				UTE TRIBAL #2-17C6	S030	W060	17	SWSE	POW	4301331033	GR-WS	10115
				W.L.R. TRIBAL #2-19C6	S030	W060	19	NWSE	POW	4301331035	GR-WS	10250
				SMITH #2-23C7	S030	W070	23	NENE	PA	4301331073	GR-WS	10295
				FORD #2-13C7	S030	W070	13	SWSE	PA	4301331082	GR-WS	10330
				BLEY #2-25C7	S030	W070	25	NESW	POW	4301331083	GR-WS	10315
		N0540	KOCH EXPLORATION CO	CEDAR RIM #7	S030	W060	17	SWNE	PA	4301330244	GR-WS	6345
		N5050	MEDALLION EXPLORATIO	UTE TRIBAL #2-9C6	S030	W060	9	SWSW	SOW	4301331096	GR-WS	4519
		N0540	KOCH EXPLORATION CO	SINK DRAW #6	S030	W070	23	NESW	PA	4301330281	GR-WS	99998
		N9523	LINMAR PETROLEUM COM	UTE TRIBAL #2-24C7	S030	W070	24	NESW	POW	4301331028	GR-WS	10240
		N9520	LINMAR ENERGY CORPOR	BIDDLE #6-18C6	S030	W060	18	NWNE	PA	4301331081	GR-WS	10312
		N5050	MEDALLION EXPLORATIO	UTE TRIBAL 1-9C6	S030	W060	9	SWNE	POW	4301330487	GR-WS	4529
		N0830	SANTA FE ENERGY COMP	TRIBAL FED 1-6C6	S030	W060	6	NWNE	PA	4301330396	GR-WS	99998
		N0540	KOCH EXPLORATION CO	CEDAR RIM #3	S030	W060	19	SWNE	PA	4301330040	GR-WS	6325
		N7280	HELD BY PRODUCTION I	CEDAR RIM #8	S030	W060	22	SWNE	POW	4301330257	GR-WS	6350
				CEDAR RIM #14	S030	W060	10	SWNE	SOW	4301330345	GR-WS	6375
				CEDAR RIM #16	S030	W060	33	SWNE	POW	4301330363	GR-WS	6390

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80	CEDAR RIM	N7280	HELD BY PRODUCTION I	CEDAR RIM #15	S030	W060	34	SWNE	POW	4301330383	GR-WS	6395
				CEDAR RIM #17	S030	W060	32	SWNE	POW	4301330385	GR-WS	6400
		N0540	KOCH EXPLORATION CO	SINK DRAW #2	S030	W070	24	SWNE	PA	4301330050	GR-WS	6330
				CEDAR RIM #6-A	S030	W060	21	SWSW	LA	4301330795		99998
		N7280	HELD BY PRODUCTION I	CEDAR RIM #5	S030	W060	16	SWNE	POW	4301330240	GR-WS	6335
				CEDAR RIM #11	S030	W060	27	NWNE	POW	4301330352	GR-WS	6380
				CEDAR RIM #12	S030	W060	28	SWNE	SOW	4301330344	GR-WS	6370
		N9523	LINMAR PETROLEUM COM	UTE-FEE #2-33C6	S030	W060	33	SWSW	POW	4301331123	GR-WS	10365
		N0340	DIAMOND SHAMROCK EXP	UTE #1-7C6	S030	W060	7	SWNE	PA	4301330380	GR-WS	99998
		N0680	MOUNTAIN FUEL SUPPLY	CHEVRON UTE TRIBAL #1 (11	S030	W060	8	NWNW	PA	4301330007		99998
		N0540	KOCH EXPLORATION CO	CEDAR RIM #20	S030	W060	10	SWSW	PA	4301330433	GR-WS	6405
		N0210	CHEVRON USA INC	CHEVRON UTE TRIBAL #2 (22	S030	W060	18	SENW	PA	4301320020		99998
				CALOIL UTE TRIBAL #1	S030	W060	18	NWNW	PA	4301310175		99998
		N0540	KOCH EXPLORATION CO	CEDAR RIM #9	S030	W060	18	SWNE	PA	4301330282	GR-WS	99998
				CEDAR RIM #9-A	S030	W060	18	SESE	PA	4301330547	GR-WS	99998
				CEDAR RIM #4	S030	W060	30	SWNE	PA	4301330111	GR-WS	99998
				SINK DRAW #6A	S030	W070	23	NENE	LA	4301330545		99998
				SINK DRAW #8	S030	W070	25	NWNE	PA	4301330303	GR-WS	99998
				SINK DRAW #14	S030	W070	26	NENE	LA	4301330364		99998
				SINK DRAW #10	S030	W070	34	NWNE	PA	4301330312	GR-WS	99998
				SINK DRAW #11	S030	W070	35	NWNE	PA	4301330330	GR-WS	99998
		N7280	HELD BY PRODUCTION I	CEDAR RIM #6-A	S030	W060	21	C-SW	POW	4301331162	GR-WS	10664
				CEDAR RIM #5-A	S030	W060	16	SESW	POW	4301331170	GR-WS	10665
				CEDAR RIM #21	S030	W060	10	SESE	POW	4301331169	GR-WS	10663
				CEDAR RIM #2-A	S030	W060	20	SESE	POW	4301331172	GR-WS	10671
				CEDAR RIM #13-A	S030	W060	29	SWSE	POW	4301331174	GR-WS	10673
				CEDAR RIM #12-A	S030	W060	28	SESE	POW	4301331173	GR-WS	10672
				CEDAR RIM #8-A	S030	W060	22	C-SW	POW	4301331171	GR-WS	10666
		N9523	LINMAR PETROLEUM COM	UTE TRIBAL #2-21C7	S030	W070	21	NWSW	POW	4301331026	GR-WS	10320
82	UNNAMED 29-10S17E	N7015	COCHRANE RESOURCES I	WILKIN RIDGE 22-29	S100	E170	29	SENW	POW	4301330327	GRRV	11030
85	CHOKECHERRY CYN	P0088	UNITED PRODUCING CO	CHOKE CHERRY CYN UNIT FED	S070	W040	5	NWSW	PA	4301311362	WSTC	99998
87	COTTONWOOD RIDGE	N0580	LOMAX EXPLORATION CO	B.C. UTE TRIBAL 10-2	S050	W040	2	NWSE	LA	4301330896		99998
		P0086	COUGAR EXPLORATION	UTE #1-2	S050	W040	2	SESE	LA	4301330540		99998
88	COTTONWOOD WASH	N1590	GULF OIL CORPORATION	COTTONWOOD WASH UTE TRIBA	N010	W030	7	SENW	PA	4301330015	MRSN	99998
90	DUCHESNE	N5090	COORS ENERGY	DUCHESNE UTE TRIBAL #8	S040	W040	16	NWNW	POW	4301330028	GRRV	9255
				DUCHESNE UTE TRIBAL #7	S040	W040	17	SWNW	SOW	4301315324	GRRV	9254
				DUCHESNE UTE TRIBAL #4 (W	S040	W040	16	NESW	SGW	4301315321	UNTA	10942
				UTE TRIBAL 1-15D	S040	W040	15	SWNE	TA	4301330712	GRRV	5616
		N0580	LOMAX EXPLORATION CO	COYOTE UTE TRIBAL #16-8	S040	W040	8	SESE	LA	4301330989		99998
				COYOTE UTE TRIBAL 15-7	S040	W040	7	SWSE	LA	4301330839		99998
				COYOTE UTE TRIBAL 10-17	S040	W040	17	NWSE	LA	4301330862		99998
		N9956	WALKER ENERGY GROUP	COYOTE UTE TRIBAL 10-9	S040	W040	9	NWSE	SOW	4301330861	WSTC	9900
		N0580	LOMAX EXPLORATION CO	COYOTE UTE TRIBAL #10-8	S040	W040	8	NWSE	LA	4301331011		99998
				COYOTE UTE TRIBAL #8-9	S040	W040	9	SENE	LA	4301331015		99998
				COYOTE UTE TRIBAL #4-10	S040	W040	10	NWNW	LA	4301331030		99998
				COYOTE UTE TRIBAL #6-10	S040	W040	10	SENW	LA	4301331031		99998
				COYOTE UTE TRIBAL #12-7	S040	W040	7	NWSW	LA	4301331058		99998

FLD NUM	FIELD NAME	ACCT NUM	COMPANY NAME	WELL NAME	TOWNSHIP	RANGE	SEC	Q-Q	STATUS	API NUMBER	PROD ZONE	ENTITY
90	DUCHESNE	N1280	FRIAR OIL CO	SMITH ET AL 28-1	S040	W040	28	NENE	POW	4301315320	GRRV	10340
		N9520	LINMAR ENERGY CORPOR	UTE 1-10D4	S040	W040	10	SWNW	LA	4301331137		99998
		N5090	COORS ENERGY	UTE TRIBAL 1	S040	W040	9	NWSW	TA	4301320045	WSTC	5595
				DUCHESNE UTE TRIBAL #5	S040	W040	16	SWNW	SOW	4301315322	GRRV	9252
				UTE TRIBAL 4-18D	S040	W040	18	NWNW	TA	4301330838	GRRV	8413
		N9520	LINMAR ENERGY CORPOR	COYOTE UTE TRIBAL 4-9D4	S040	W040	9	NWNW	PA	4301331012	WSTC	4707
		N1590	GULF OIL CORPORATION	UTE TRIBAL #4	S040	W040	8	NWSW	PA	4301330022	WSTC	99998
		N0580	LOMAX EXPLORATION CO	COYOTE UTE TRIBAL 16-9	S040	W040	9	SESE	LA	4301330976		99998
		P0037	HUMBLE OIL & REFININ	DUCHESNE UTE TRIBAL #2	S040	W040	16	SENW	PA	4301310488	WSTC	99998
				DUCHESNE UTE TRIBAL #1	S040	W040	17	SENE	PA	4301310487	WSTC	99998
		N5090	COORS ENERGY	DUCHESNE UTE TRIBAL #3	S040	W040	16	SWNE	POW	4301315319	GRRV	9251
				DUCHESNE UTE TRIBAL #6	S040	W040	17	SWNE	POW	4301315323	GRRV	9253
				UTE TRIBAL #1-7D	S040	W040	7	SESE	POW	4301331198	WSTC	10815
				UTE TRIBAL #2-8D	S040	W040	8	NWSE	POW	4301331199	WSTC	10861
				UTE TRIBAL #2-15D	S040	W040	15	NWNW	TA	4301331200	WSTC	10850
				UTE TRIBAL 4-17D	S040	W040	17	NWSE	POW	4301331201	WSTC	10886
				UTE TRIBAL 6-16D	S040	W040	16	NENW	TA	4301331204	WSTC	10899
				UTE TRIBAL 1-10D	S040	W040	10	SWSE	TA	4301331211	GRRV	10910
				UTE TRIBAL 2-18D	S040	W040	18	NESE	DRL	4301331212		10898
				UTE TRIBAL #2-15D	S040	W040	15	NWNW	POW	4301331200	GRRV	10850
				UTE TRIBAL 3-10D	S040	W040	10	SESW	SOW	4301331217	GRRV	10910
				UTE TRIBAL 3-15D	S040	W040	15	SWNW	DRL	4301331218		99999
				UTE TRIBAL 2-10D	S040	W040	10	SWSW	POW	4301331219	GRRV	10984
				UTE TRIBAL 8-16D	S040	W040	16	NESE	POW	4301331220	GRRV	10982
				UTE TRIBAL 7-16D	S040	W040	16	SENE	SOW	4301331221	GRRV	10985
				UTE TRIBAL 9-16D	S040	W040	16	NENE	DRL	4301331222		99999
				UTE TRIBAL 5-15D	S040	W040	15	NENW	DRL	4301331223		99999
				UTE TRIBAL 10-16D	S040	W040	16	SWSE	PA	4301331224		10964
				UTE TRIBAL 4-10D	S040	W040	10	NESE	TA	4301331226	GRRV	10977
				UTE TRIBAL 4-15D	S040	W040	15	SENW	LA	4301331227		99998
				UTE TRIBAL 6-16D	S040	W040	16	NENW	PGW	4301331204	GRRV	11142
				UTE TRIBAL 5-10D	S040	W040	10	SWNE	DRL	4301331230		99999
				UTE TRIBAL #1	S040	W040	9	NWSW	SOW	4301320045	GRRV	5595
				UTE TRIBAL 6-10D	S040	W040	10	SENW	SOW	4301331236	GR-WS	11000
				UTE TRIBAL 1-20D	S040	W040	20	NWNE	POW	4301331239	GRRV	11006
				UTE TRIBAL 1-3D	S040	W040	3	SESE	TA	4301331242	GRRV	11036
				UTE TRIBAL 1-19D	S040	W040	19	SWNE	LA	4301331244		99998
				UTE TRIBAL 4-18D	S040	W040	18	NWNW	POW	4301330838	WSTC	8413
				UTE TRIBAL 12-16D	S040	W040	16	SWSW	DRL	4301331254		99999
				UTE TRIBAL 11-16D	S040	W040	16	NESW	DRL	4301331259		99999
				UTE TRIBAL 7-10D	S040	W040	10	NESW	DRL	4301331260		99999
				UTE TRIBAL 8-10D	S040	W040	10	NENE	DRL	4301331262		99999
				UTE TRIBAL 1-10D	S040	W040	10	SWSE	POW	4301331211	GR-WS	10910
				UTE TRIBAL 6-10D	S040	W040	10	SENW	TA	4301331236	WSTC	11000
				UTE TRIBAL 6-10D	S040	W040	10	SENW	TA	4301331236	GRRV	11063
				UTE TRIBAL 14-16D	S040	W040	16	SENW	PA	4301331337	GRRV	11278
				UTE TRIBAL 5-17D	S040	W040	17	NESE	DRL	4301331350		99999

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105	MONUMENT BUTTE	P0052	PAN AMERICAN PETROLE	USA PAN AMERICAN F-#1	S090	E160	13	NWNW	PA	4301310822		99998
		N0340	DIAMOND SHAMROCK EXP	GOATES FEDERAL #13-14	S090	E160	14	NWSW	LA	4301330673		99998
				CASTLE PEAK FEDERAL #44-1	S090	E160	15	SESE	LA	4301330672		99998
		P0624	ENSERCH EXPLORATION	BLACK GOLD #1	S090	E160	24	NESE	LA	4301330526		99998
		N0580	LOMAX EXPLORATION CO	FEDERAL #3-24	S090	E160	24	NENW	LA	4301330663		99998
				FEDERAL #11-24	S090	E160	24	NESW	LA	4301330655		99998
				FEDERAL #3-26	S090	E160	26	NENW	LA	4301330661		99998
		N0180	CAMPBELL, G S	GOVERNMENT #4-1	S090	E170	4	NWNW	PA	4301320081		99998
		N0340	DIAMOND SHAMROCK EXP	COTTON #44-4	S090	E170	4	SESE	LA	4301330676		99998
		N0580	LOMAX EXPLORATION CO	STATE #12-36	S080	E160	36	NWSW	POW	4301330746	GRRV	10835
		N0340	DIAMOND SHAMROCK EXP	ALLEN FEDERAL #13-5	S090	E170	5	NWSW	LA	4301330580		99998
				ALLEN FEDERAL #22-5	S090	E170	5	SENW	LA	4301330579		99998
				ALLEN FEDERAL #14-6	S090	E170	6	SWSW	PA	4301330585		99998
				PAIUTE FEDERAL #24-7	S090	E170	7	SESW	LA	4301330669		99998
		N0780	PAIUTE OIL & MINING	P.O.M.C.O. #10-7	S090	E170	7	SESE	LA	4301330515		99998
		N0290	COTTON PETROLEUM COR	DUNCAN FEDERAL #2-10	S090	E170	10	SENW	LA	4301330648		99998
		N0700	NATURAL GAS CORP OF	N.G.C. #22-8-H	S090	E170	8	SENW	LA	4301330724		99998
		N0290	COTTON PETROLEUM COR	DUNCAN FEDERAL #3-10	S090	E170	10	NWNE	LA	4301330647		99998
				DUNCAN FEDERAL #1-11	S090	E170	11	NWNW	LA	4301330637		99998
		N0700	NATURAL GAS CORP OF	N.G.C. #12-15-H	S090	E170	15	SWNW	LA	4301330733		99998
				FEDERAL N.G.C. #44-15-H	S090	E170	15	SESE	PA	4301331715		99998
		N9960	QUEST/INTERLINE NAT	STATE #16-12	S090	E170	16	NWSW	LA	4301331054		99998
		N0340	DIAMOND SHAMROCK EXP	PAIUTE FEDERAL #11-18	S090	E170	18	NWNW	LA	4301330513		99998
				PAIUTE FEDERAL #22-18	S090	E170	18	SENW	LA	4301330512		99998
				PAIUTE FEDERAL #42-18	S090	E170	18	SENE	LA	4301330511		99998
		N0700	NATURAL GAS CORP OF	NGC FEDERAL #22-30-H	S090	E170	30	SENW	PA	4301330683	GRRV	10811
				N.G.C. FEDERAL #33-21-H	S090	E170	21	NWSE	LA	4301330729		99998
		N0580	LOMAX EXPLORATION CO	W. MONUMENT FED 5-33	S080	E160	33	SWNW	LA	4301330866		99998
				STATE #5-36	S080	E160	36	SWNW	WIW	4301330624	GRRV	10835
				FEDERAL #2-35	S080	E160	35	NESE	WIW	4301330606	GRRV	10835
				FEDERAL #5-35	S080	E160	35	SWNW	WIW	4301330686	GRRV	10835
				FEDERAL #10-35	S080	E160	35	NWSE	POW	4301330801	GRRV	10835
				FEDERAL #4-35	S080	E160	35	NESW	WIW	4301330605	GRRV	10835
		N7340	STARFIGHTER PETROLEU	FEDERAL #33-9H	S090	E170	9	NWSE	POW	4301331108	DGCRK	10674
		N2275	GAVILAN PETROLEUM IN	GAVILAN STATE #22-32	S080	E160	32	SENW	POW	4301331168	GRRV	10425
		N9735	ROSELAND OIL & GAS I	STATE #33-32	S080	E160	32	NWSE	SOW	4301331185	DGCRK	10755
		N0865	MAXUS EXPLORATION CO	MAXUS FEDERAL #24-4	S090	E170	4	SESW	PA	4301331194		10801
		N9890	BALCRON OIL	ALLEN FEDERAL #31-6	S090	E170	6	NWNE	POW	4301331195	GRRV	10788
				MAXUS FEDERAL #23-8	S090	E170	8	NESW	POW	4301331196	GRRV	10800
		N0595	PG&E RESOURCES COMPA	FEDERAL #41-5-G	S090	E160	5	NENE	POW	4301331205	GRRV	10859
				FEDERAL 23-9-H	S090	E170	9	NESW	POW	4301331206	GRRV	10868
				FEDERAL 24-33-B	S080	E160	33	SESW	POW	4301331214	GRRV	10913
				FEDERAL 14-34-B	S080	E160	34	SWSW	POW	4301331225	GRRV	10980
				FEDERAL 31-4-G	S090	E160	4	NWNE	POW	4301331228	GRRV	10979
				FEDERAL 14-33-B	S080	E160	33	SWSW	POW	4301331229	GRRV	10988
				FEDERAL 43-33-B	S080	E160	33	NESE	POW	4301331240	GRRV	11007
				FEDERAL 23-34-B	S080	E160	34	NESW	POW	4301331241	GRRV	11041

FLD NUM	FIELD NAME	ACCT NUM	COMPANY NAME	WELL NAME	TOWN SHIP	RANGE	SEC	Q-Q	STATUS	API NUMBER	PROD ZONE	ENTITY
105	MONUMENT BUTTE	N0595	PG&E RESOURCES COMPA	FEDERAL 11-4-G	S090	E160	4	NWNW	POW	4301331250	GRRV	11046
				FEDERAL 23-33-B	S080	E160	33	NESW	POW	4301331251	GRRV	11047
				FEDERAL 31-5-G	S090	E160	5	NWNE	POW	4301331252	GRRV	11054
		N0580	LOMAX EXPLORATION CO	MONUMENT FED. #8-35	S080	E160	35	SENE	POW	4301331263	GRRV	10835
				MONUMENT FED. #15-35	S080	E160	35	SWSE	WIW	4301331264	GRRV	10835
		N0595	PG&E RESOURCES COMPA	FED. #33-33-B	S080	E160	33	NWSE	POW	4301331268	GRRV	11086
				FED. #34-33-B	S080	E160	33	SWSE	POW	4301331269	GRRV	11079
				FED. #44-33-B	S080	E160	33	SESE	POW	4301331270	GRRV	11084
				FEDERAL 13-34-B	S080	E160	34	NWSW	POW	4301331271	GRRV	11104
				FEDERAL 21-4-G	S090	E160	4	NENW	POW	4301331272	GRRV	11107
		N0580	LOMAX EXPLORATION CO	MONUMENT FED. 6-34	S080	E160	34	SENW	DRL	4301331274		99999
				MONUMENT FED. 15-34	S080	E160	34	SWSE	DRL	4301331275		99999
		N0595	PG&E RESOURCES COMPA	FEDERAL 13-33-B	S080	E160	33	NWSW	POW	4301331277	GRRV	11092
		N0580	LOMAX EXPLORATION CO	MONUMENT FED. 10-34	S080	E160	34	NWSE	DRL	4301331279		99999
				FEDERAL 4A-35	S080	E160	35	NWNW	DRL	4301331348		10835
110	NUTTER CANYON			B.C. UTE TRIBAL #16-14	S050	W040	14	SESE	LA	4301331017		99998
		N2910	SINCLAIR OIL CORPORA	UTE TRIBAL 184-#1	S050	W040	24	NENW	PA	4301320131		99998
		N9270	IRONWOOD EXPLORATION	UTE TRIBAL #13-15X	S050	W040	13	SWSE	PA	4301330831		99998
115	PLEASANT VALLEY	N0580	LOMAX EXPLORATION CO	PLEASANT VALLEY #1	S080	E160	21	SESE	SOW	4301330394	GRRV	10520
				LAMBERT FEDERAL #1	S080	E160	22	SWSW	SOW	4301316207	GRRV	10522
		P0041	ALAMO CORPORATION	(2) JENSEN A-1	S080	E160	21	NESE	PA	4301310007		99998
		N0580	LOMAX EXPLORATION CO	JENSEN #1	S080	E160	21	SWNE	SOW	4301316208	GRRV	10521
117	SOUTH MYTON BENCH	N9956	WALKER ENERGY GROUP	UTE TRIBAL 11-25	S040	W030	25	NESW	SOW	4301330743	GRRV	2645
		N0580	LOMAX EXPLORATION CO	DUCHESNE UTE TRIBAL 7-30	S040	W020	30	SWNE	PA	4301330859	GRRV	99997
				DUCHESNE UTE TRIBAL 7-13	S040	W030	13	SWNE	LA	4301330947		99998
				UTE TRIBAL #11-19	S040	W020	19	NESW	PA	4301330767	GRRV	2615
		N9956	WALKER ENERGY GROUP	UTE TRIBAL 7-24	S040	W030	24	SWNE	POW	4301330768	GRRV	2625
		N0580	LOMAX EXPLORATION CO	UTE TRIBAL 7-19	S040	W020	19	SWNE	LA	4301330890		99998
120	SOWERS CANYON	N1310	BURTON/HAWKS INC	L. FORK ANTELOPE CYN FED	S060	W040	23	NESW	PA	4301330405	GRRV	8237
				WIRE FENCE CYN FED 15-1	S060	W050	15	NENW	SGW	4301330404	GRRV	8233
		N1025	TOTAL MINATOME CORPO	ANTELOPE RIDGE 24-1	S060	W050	24	SESW	SOW	4301330426	GRRV	10371
		N1310	BURTON/HAWKS INC	NUTTERS RIDGE FED 13-1	S060	W050	13	NWNE	PA	4301330421	GRRV	8232
		N1025	TOTAL MINATOME CORPO	WOLF HOLLOW 22-1	S060	W050	22	SWSW	SGW	4301330425	GRRV	10370
		N1310	BURTON/HAWKS INC	R FORK ANTELOPE CYN FED 2	S060	W050	25	NENE	SGW	4301330406	GRRV	8234
		N0500	HUSKY OIL COMPANY	FEDERAL #12-5	S060	W040	5	NWSW	LA	4301330342		99998
		N1590	GULF OIL CORPORATION	RIGHT FORK-FEDERAL #1	S060	W040	10	SWSE	PA	4301310419		99998
		N1310	BURTON/HAWKS INC	RT FORK ANTELOPE CYN FED	S060	W040	19	NENE	LA	4301330418		99998
		N0340	DIAMOND SHAMROCK EXP	PINON-FEDERAL #2	S060	W040	24	SWNW	PA	4301311009		99998
		N0210	CHEVRON USA INC	ANTELOPE CREEK UNIT #1	S060	W040	24	NENE	PA	4301310173		99998
		N7270	PHOENIX RESOURCES CO	ALKALI CANYON #28-1	S060	W040	28	SWNE	LA	4301330428		99998
		N1310	BURTON/HAWKS INC	ALKALI CANYON FEDERAL #31	S060	W040	31	SWNE	PA	4301330494		99998
		N1590	GULF OIL CORPORATION	#1-GULF ALKALI CANYON	S060	W040	31	SENE	PA	4301320100		99998
				NUTTERS CANYON-FEDERAL #1	S060	W050	10	NESW	PA	4301315409		99998
		N7170	NATIONAL TREASURE MI	WIRE FENCE #10-1	S060	W050	10	NESW	LA	4301330427		99998
		N1310	BURTON/HAWKS INC	WIRE FENCE CANYON FED. #1	S060	W050	15	NENW	PA	4301330411		99998
		P0087	ODESSA NATURAL CORP	SOWERS CANYON UNIT #18-1	S060	W050	18	SENW	LA	4301330466		99998
		N0500	HUSKY OIL COMPANY	FEDERAL #4-21	S060	W050	21	NWNW	LA	4301330341		99998

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120	SOWERS CANYON	N0390	BHP PETROLEUM/AMERIC	WIRE FENCE CANYON #21-1	S060	W050	21	NWNE	PA	4301330496	GRRV	99998
		N1590	GULF OIL CORPORATION	FIVE MILE DRAW UNIT-FED.	S060	W050	27	NWNE	PA	4301310417		99998
124	UNNAMED 7-C1	N1270	SONAT EXPLORATION CO	DEAN #1-7C1	S030	W010	7	SWSW	PA	4301330739	WSTC	671
125	STARR FLAT	N0210	CHEVRON USA INC	UTE 283 #13-5B-3	N010	W020	5	NWSW	PA	4301316522		99998
				UTE 282 (11-8B) 4	N010	W020	8	NWNW	PA	4301310177		99998
126	UNNAMED 2-C2	N1270	SONAT EXPLORATION CO	WASHBURN #1-2C2	S030	W020	2	SWSE	PA	4301330786	WSTC	672
				WASHBURN #1-2C2	S030	W020	2	SWSE	PA	4301330786	GRRV	672
127	UNNAMED 12-D5	N9956	WALKER ENERGY GROUP	COYOTE UTE TRIBAL 16-12	S040	W050	12	SESE	SOW	4301330922	WSTC	9486
128	UNNAMED 13-D5	N5090	COORS ENERGY	COYOTE UTE TRIBAL #3-13	S040	W050	13	NENW	PA	4301330990	WSTC	9940
				COYOTE UTE TRIBAL #3-13	S040	W050	13	NENW	PA	4301330990	GRRV	9940
129	UNNAMED 26-E5	N7295	ZINKE & TRUMBO LTD	SOWERS CYN UTE TRIBAL #3-	S050	W050	26	NENW	POW	4301330955	GRRV	10423
130	TREATY BOUNDARY	N0580	LOMAX EXPLORATION CO	FEDERAL #13-21	S080	E170	21	SWSW	POW	4301330665	GRRV	2660
				BOUNDARY FEDERAL 7-20	S080	E170	20	SWNE	SOW	4301330750	GRRV	8407
				BOUNDARY FEDERAL #1-20	S080	E170	20	NENE	LA	4301330870		99998
				BOUNDARY FEDERAL #12-20	S080	E170	20	NWSW	LA	4301330819		99998
				BOUNDARY FED 5-21	S080	E170	21	SWNW	TA	4301330822		11162
				BOUNDARY FEDERAL 15-20	S080	E170	20	SWSE	POW	4301330667	GRRV	8409
		N0720	PACIFIC TRANS SUPPLY	PTS #32-29 FEDERAL	S080	E170	29	SWNE	PA	4301330435		99998
		N9955	WALKER EXPLOR & PROD	SAND PASS UTE TRIBAL #10-	S040	W010	20	NWSE	LA	4301331088		99998
		N0580	LOMAX EXPLORATION CO	BOUNDARY FED 11-21	S080	E170	21	NESW	POW	4301330752	GRRV	10630
		N9955	WALKER EXPLOR & PROD	SAND PASS/WALKER #5-20	S040	W010	20	SWNW	PA	4301331010	GRRV	10155
		N0580	LOMAX EXPLORATION CO	BOUNDARY FEDERAL 9-20	S080	E170	20	NESE	TA	4301330690	GRRV	8408
131	UNNAMED 22-10S17E	N0675	ANR PRODUCTION COMPA	PETE'S WASH 1-22	S100	E170	22	NWSW	TA	4301330595	MVRD	1360
				PETE'S WASH 1-22	S100	E170	22	NWSW	PGW	4301330595	WSTC	1360
132	BUZZARD BENCH	N3320	CHANDLER & ASSOCIATE	ORANGEVILLE ST 1-36	S180	E070	36	SESE	SOW	4301530102	FRSD	10920
				BUZZARD BNCH FED 6-3	S190	E070	3	SENW	PGW	4301530168	FRSD	10684
				BUZZARD BENCH FEDERAL #3-	S190	E070	3	SESW	PGW	4301530229	FRSD	10670
		N4320	BWAB INCORPORATED	ORANGEVILLE FEDERAL UNIT	S190	E070	11	NESW	LA	4301530228		99998
		N3320	CHANDLER & ASSOCIATE	ORANGEVILLE UNIT 4-1	S190	E070	1	NWNW	SOW	4301530221	FRSD	10600
				ORANGEVILLE UNIT 1-11	S190	E070	11	NENE	SGW	4301530222	FRSD	11029
		N4320	BWAB INCORPORATED	ORANGEVILLE UNIT 14-2	S190	E070	2	SESW	LA	4301530223		99998
		N3320	CHANDLER & ASSOCIATE	ORANGEVILLE ST 10-2	S190	E070	2	NWSE	SGW	4301530179	FRSD	535
		N3420	TEXAS INTERNATIONAL	FEDERAL #41-33	S180	E070	33	NENE	PA	4301530092		99998
		P0115	TIGER OIL CO	FEDERAL #41-33	S180	E070	33	NENE	LA	4301530071		99998
		P0019	UTAH SOUTHERN OIL CO	FEDERAL #3	S180	E070	34	NENW	LA	4301511403		99998
		N4320	BWAB INCORPORATED	ORANGEVILLE FEDERAL UNIT	S190	E070	1	NWSW	LA	4301530227		99998
135	FERRON	N7500	UNIVERSAL RESOURCES	RALPHS FEE #41-9	S210	E070	9	NENE	PGW	4301515667	FRSD	1040
				FERRON MRC #16	S210	E070	3	SWSW	PGW	4301530182	FRSD	8225
				FERRON MRC #18	S210	E070	3	SWSE	PGW	4301530186	FRSD	8226
		N8185	QUESTAR ENERGY COMPA	FERRON MRC #17	S210	E070	4	SENE	PA	4301530185	FRSD	8227
		N7500	UNIVERSAL RESOURCES	FERRON MRC #2	S210	E070	10	SWNW	PA	4301530107	FRSD	8228
				FERRON MRC #20	S210	E070	9	NESE	PGW	4301530189	FRSD	8230
		N7355	ALKER, HENRY A	HAWTHORNE 1-34	S200	E070	34	SESE	SGW	4301530084	FRSD	2992
		N2120	F L ENERGY	J. LEMON #1	S200	E070	21	SWNE	SOW	4301530070	KBAB	2994
		N0950	TENNECO OIL COMPANY	FERRON UNIT #5	S200	E070	21	NWSE	PA	4301520145		99998
		N7130	MOUNTAIN RESOURCE CO	FERRON MRC #15	S200	E070	34	SWSW	PA	4301530169		99998
		N7500	UNIVERSAL RESOURCES	FERRON MRC #19	S210	E070	10	NWSW	PGW	4301530190	FRSD	8229

FLD NUM	FIELD NAME	ACCT NUM	COMPANY NAME	WELL NAME	TOWNSHIP	RANGE	SEC	Q-Q	STATUS	API NUMBER	PROD ZONE	ENTITY
135	FERRON	P0137	AMERICAN PETRO & ENG	FEDERAL #1-34	S200	E070	34	NESW	PA	4301510037		99998
		P0068	PACIFIC NATURAL GAS	BARTON #41-21	S200	E070	21	NENE	PA	4301510793		99998
		N8185	QUESTAR ENERGY COMPA	FERRON MRC #12	S210	E070	3	SWNE	PA	4301530154	FRSD	8224
		N7130	MOUNTAIN RESOURCE CO	FERRON-MRC #8	S210	E070	10	SWNE	PA	4301530137		99998
				FERRON - MRC #14	S210	E070	9	NENW	PA	4301530165		99998
		N7500	UNIVERSAL RESOURCES	FERRON-MRC #22	S200	E070	22	NWSE	PGW	4301530209	FRSD	10050
				FERRON-MRC #21	S210	E070	10	NWNE	PGW	4301530208	FRSD	10052
				FERRON-MRC #27	S200	E070	22	SENW	PGW	4301530216	FRSD	10051
		N7130	MOUNTAIN RESOURCE CO	FERRON - MRC #28	S200	E070	14	SWNW	PA	4301530219		99998
		P0145	ENGLISH OIL CO	STATE #41-28	S200	E070	28	NENE	PA	4301520318		99998
		P0068	PACIFIC NATURAL GAS	NELSON #41-27	S200	E070	27	NENE	PA	4301510799		99998
				THOMPSON-RALPHS #23-27	S200	E070	27	NESW	PA	4301515670	FRSD	99998
		N2120	F L ENERGY	PAN AM #3	S200	E070	21	SENE	SOW	4301515676	KBAB	2993
		N1070	WEXPRO COMPANY	STATE #1-22	S200	E070	22	NESW	PGW	4301515669	FRSD	1030
		N7500	UNIVERSAL RESOURCES	BEHLING FEE 41-22	S200	E070	22	NENE	PGW	4301515663	FRSD	1045
		N2120	F L ENERGY	ALKER-FED 1-8	S210	E070	8	NENE	SGW	4301530083	FRSD	2885
		N7500	UNIVERSAL RESOURCES	FERRON UNIT #12-3	S210	E070	3	SWNW	PGW	4301515665	FRSD	1055
				GOVERNMENT #1-4	S210	E070	4	SESE	PGW	4301515666	FRSD	1050
				SINGLETON FEE 23-14	S200	E070	14	NESW	PGW	4301515668	FRSD	1035
		P0052	PAN AMERICAN PETROLE	FERRON UNIT FEE #4 (14-2)	S200	E070	2	SWSW	PA	4301515677	FN-DK	99998
		N7130	MOUNTAIN RESOURCE CO	FERRON-MRC #25-B	S200	E070	3	SESE	LA	4301530212		99998
		P0135	HOLLBERG, R J JR.	HOLLBERG FEE #1	S200	E070	14	NENE	LA	4301520021		99998
		P0068	PACIFIC NATURAL GAS	FEE #1-14	S200	E070	14	NENE	PA	4301515664	FRSD	99998
				BEHLING #23-15	S200	E070	15	NESW	PA	4301510794		99998
		N2120	F L ENERGY	HAWTHORNE FEDERAL #1-26	S200	E070	26	NWSW	PA	4301530088		99998
		P0068	PACIFIC NATURAL GAS	FERRON UNIT #41-28	S200	E070	28	NENE	PA	4301510798		99998
				FERRON UNIT #41-33	S200	E070	33	NENE	LA	4301510797		99998
		N7130	MOUNTAIN RESOURCE CO	FERRON - MRC #13	S210	E070	4	SENW	PA	4301530153		99998
		P0068	PACIFIC NATURAL GAS	FERRON HILGARD FEE #23-9	S210	E070	9	NENW	PA	4301510796		99998
				SORENSEN FEE #42-9	S210	E070	9	SENE	PA	4301510803		99998
		N7130	MOUNTAIN RESOURCE CO	FERRON-MRC #3	S210	E070	10	NWSE	PA	4301530119		99998
140	FLAT CANYON	N0950	TENNECO OIL COMPANY	MARY D. KEARNS #1	S160	E060	27	NWNE	PA	4301516533	FRSD	99998
143	INDIAN CREEK	N0880	SOUTHLAND ROYALTY CO	INDIAN CREEK #1	S170	E060	2	SWNW	PGW	4301530082	FRSD	2585
		N3210	VORTT EXPLORATION CO	INDIAN CREEK #03176-3	S170	E060	3	NESE	LA	4301530160		99998
		N0880	SOUTHLAND ROYALTY CO	INDIAN CREEK UNIT 021762-	S170	E060	2	SWSW	PGW	4301530175	FRSD	2585
				INDIAN CREEK 14176 #1	S170	E060	14	SWNE	SGW	4301530091	FRSD	10907
				INDIAN CREEK 10176-5	S170	E060	10	SENE	PGW	4301530117	FRSD	2585
		N7230	MERIDIAN OIL INC	EAST MOUNTAIN FEDERAL #13	S160	E060	35	NWSW	PGW	4301530230	FRSD	10789
145	LAST CHANCE	N0000	UNKNOWN OPERATOR	H L RATH 1-A	S260	E070	18	NENE	SOW	4301515105	MNKP	11282
				ENGLISH 1-X	S260	E070	18	SESW	SOW	4301515104	MNKP	11308
		N0380	ENERGETICS OPERATING	FEDERAL #41X11	S260	E060	11	NENE	PA	4301530015		99998
		P0170	PETRO-QUEST INC	HURT FEDERAL #23-7	S260	E070	7	NESW	LA	4301530106		99998
		P0173	BYRD-FROST INC	BYRD-FROST, INC.-ENGLISH	S260	E070	18	SESW	PA	4301510144		99998
		N0845	SHELL OIL COMPANY	LAST CHANCE UNIT #1	S260	E070	19	NWNW	PA	4301520367		99998
		P0174	SHUMWAY URANIUM & MI	EDNA PARKER #1	S260	E070	19	NESE	PA	4301511081		99998
150	WOODSIDE	P0123	MAY PETROLEUM INC	EASTWOODSIDE #1-30	S180	E140	30	NWSE	PA	4301530086		99998
		P0037	HUMBLE OIL & REFININ	WOODSIDE DOME UNIT #2	S180	E140	30	SWSW	PA	4301510506		99998

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

MINOR PERMIT MODIFICATION

RECEIVED
SEP 0 2 1992
DIVISION OF
OIL GAS & MINING

GENESIS PRODUCTION COMPANY

BLUE BENCH #13-1

EPA PERMIT NO. UT2582-03533

In accordance with 40 CFR § 144.41 (e), the following changes to be made via Minor Permit Modification. This modification allows changes to the quantities or types of fluids injected which are within the capacity of the facility as permitted, and will not interfere with the operation of the facility or its ability to meet the conditions described in the permit and will not change the well's classification. Changes to the original version are as follows:

PART II. C. 6.

ORIGINAL VERSION:

6. Injection Fluid Limitation: The permittee shall not inject any hazardous substances, as defined by 40 CFR 261, at any time during the operation of the facility; and further, no substances other than those produced brines from oil production in the Altamont field.

IS MODIFIED TO READ:

6. Injection Fluid Limitations:

(a) Injection fluids are limited to those which are brought to the surface in connection with natural gas storage operations, or conventional oil or natural gas production and may be commingled with waste waters from gas plants which are an integral part of production operations, unless those waters are classified as a hazardous waste at the time of injection.

(b) Initially, the well is permitted to accept fluid from the following sources: See enclosure.

(c) Additional sources of fluids may be accepted, provided that they meet the requirements listed in paragraph (a) above. Within thirty (30) days after accepting fluid from a new source, the permittee shall:

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(i) notify the Director in writing, identifying the new source by well name(s), field name(s), or facility name(s); and,

(ii) submit a fluid analysis for the additional fluids to the Director. The fluid shall be analyzed for the TDA, Specific Gravity, Specific Conductivity, and pH.

All other provisions and conditions of the Final Permit for the Blue Bench #13-1 SWD well remain as originally issued.

August 28, 1992
Date

for Max H. Dodson, Director
Water Management Division

ADDENDUM TO THE STATEMENT OF BASIS

GENESIS PRODUCTION COMPANY

RECEIVED
SEP 0 2 1992
DIVISION OF
OIL GAS & MINING

Paiute-Walker #13-1

EPA Permit No. UT2582-03533

Date Prepared: May 1992

An Underground Injection Control permit was issued on July 16, 1991, to Genesis Production Company, for the conversion of the above referenced temporarily abandoned well to a Class II commercial salt water disposal well. On June 1, 1992, Genesis submitted a request for three (3) minor modifications to the above referenced permit; 1) the name of the well to be changed from the Paiute-Walker #13-1 to the Blue Bench #13-1, 2) new change of company address and 3) the authorization to allow additional fluids, outside the Altamont Field area, to be disposed of into the Blue Bench #13-1 saltwater disposal well. The first two changes were addressed in the cover letter.

Injection Fluid Limitation

The additional source of fluids being requested are within the capacity of the facility (Blue Bench #13-1) as permitted and will not interfere with the operation of the facility or its ability to meet conditions described in the permit and will not change its classification. Therefore, the request to add additional source of Class II fluids, outside the Altamont Field, is being granted as a minor modification.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

AUG 31 1992

RECEIVED
SEP 0 2 1992
DIVISION OF
OIL, GAS & MINING

Ref: 8WM-DW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. David E. Wendt
Genesis Production Company
1600 Stout Street, Suite 720
Denver, CO 80202

RE: UNDERGROUND INJECTION CONTROL (UIC)
Minor Permit Modifications for the
Paiute-Walker #13-1 SWD 43-013-30971
EPA Permit No. UT2582-03533
Altamont Field, Duchesne County, UT
Sec 13 T3S R5W

Dear Mr. Wendt:

Thank you for your letter of June 30, 1992, and minor permit modification for the above-cited Underground Injection Control (UIC) injection permit requesting change of company address to:

Genesis Production Company
Hudson Bay Centre
1600 Stout Street, Suite #720
Denver, CO 80202

By this letter, the permitted well known as the Paiute-Walker #13-1 will be become known as the Blue Bench #13-1.

Please also find enclosed a Minor Permit Modification to the above-referenced UIC permit. Your request to allow additional sources of Class II fluids, outside the Altamont Field, to be disposed into the well now known as the Blue Bench #13-1 becomes effective immediately. All other provisions and conditions of this permit remain as originally issued.

Please direct all correspondence, forms and reports to Chuck Williams at the above letterhead address **(Mail Code 8WM-DW)** or telephone Mr. Williams at (303) 293-1550 if you should have any questions concerning this action.

Sincerely,

for Max H. Dodson, Director
Water Management Division

Enclosures

Printed on Recycled Paper

cc: Mr. John Steuble
Parallax Engineering
591 25 Road #3A
Grand Junction, CO 81505

Mr. Ferron Secakuku
Ute Indian Tribe

Mr. Charles Cameron
Bureau of Indian Affairs

Mr. Jerry Kenszka
Bureau of Land Management

Mr. Gil Hunt
State of Utah
Division of Oil, Gas & Mining

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:

6. If Indian, Allottee or Tribe Name: Ute Indian Tribe

7. Unit Agreement Name:

1. Type of Well: OIL ☐ GAS ☐ OTHER: SWD

8. Well Name and Number: Blue Bench #13-1

2. Name of Operator: Lynch-Wendt Management Services, Inc. dba Genesis Production Company

9. API Well Number: 43 013 30977 ~~43-013-10490~~

3. Address and Telephone Number: 1600 Stout St., Ste. 720; Denver, CO 80202 (303) 825-1552

10. Field and Pool, or Wildcat: Altamont-Bluebell

4. Location of Well

Footages:

QQ, Sec., T., R., M.: NE¼NE¼ Sec. 13, T3S, R5W

County: Duchesne

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
☐ Abandonment	☐ New Construction	☐ Abandonment *	☐ New Construction
☐ Casing Repair	☐ Pull or Alter Casing	☐ Casing Repair	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recompletion	☐ Change of Plans	☐ Shoot or Acidize
☐ Conversion to Injection	☐ Shoot or Acidize	☐ Conversion to Injection	☐ Vent or Flare
☐ Fracture Treat	☐ Vent or Flare	☐ Fracture Treat	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☐ Other	
☒ Other Resignation as operator			
Approximate date work will start		Date of work completion	

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Letters to working interest owners, dated October 14, 1993, sent by certified mail, tendering resignation as operator. Resignation to be effective 90 days from date of letter or designation of new operator, whichever shall occur first, per COPAS standard operating agreement.

OCT 25 1993

13.

Name & Signature: R. C. Lynch Robert C. Lynch Title: Vice-President Date: 10/21/93

(This space for State use only)

AFFIDAVIT OF PUBLICATION

County of Duchesne,

STATE OF UTAH

I, Craig L. Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certa notice, a true copy of which is hereto attached, was published in the full issue of such newspaper for 3 consecutive issues, and that the first publication was on the 13 day of Dec 1994, and that the last publication of such notice wa in the issue of such newspaper dated the 27 da of Dec, 1994.

_____

Subscribed and sworn to before me this

_____day of_____,19____

_____

Notary Pub

SALE

REAL ESTATE SALE DUCHESNE COUNTY SHERIFF'S OFFICE ORDER OF SALE DISTRICT COURT

Civil No. [illegible]

J & R CONSTRUCTION, INC., a Utah corporation and [illegible] ENTERPRISES, a partnership, Plaintiffs,

vs.

LYNCH/WENDT MANAGEMENT SERVICES, INC., aka GENESIS PRODUCTION COMPANY a Colorado Corporation, GAVILAN PETROLEUM, INC. a Utah Corporation, DIRECT ENERGY, INC., TOM T. MORI, an individual, S. FLOYD MORI, an individual, MONUMENT WELL SERVICE COMPANY, a Colorado Corporation, MARUKYU SHOTEN COMPANY, Ltd, a Japanese Limited Partnership, [illegible] 1 through 6, Defendants.

To be sold at Sheriff's Sale at the County Courthouse, 50 East [illegible] South, in the Eighth District Court Building, in the City and County of Duchesne, State of Utah, on Tuesday, January 17, 1995, at 10:00 a.m. of said day, all right, title and interest of said Lynch/Wendt Management Services, Inc., aka [illegible] Company, [illegible], Inc., Direct Energy, Tom T. Mori, S. Floyd Mori, Monument Well Service, Marukyu Shoten Company, Ltd., [illegible] certain parcel of real property (saltwater disposal well) situated in Duchesne County, State of Utah, described as follows, to-wit: the 13-1 Well located at Duchesne County, Utah and more particularly as being located in the:

NE 1/4 of NE 1/4 Section 13, Township [illegible] South, Ranger 5 West, SLM, Duchesne County, Utah.

Purchase price payable in lawful money of the United States of America.

DATED at Park City, Utah this 2nd day of December, 1994.

RICK HARRISON Sheriff of Duchesne County, State of Utah /s/ Ned Fillingim, County Sheriff Deputy No. [illegible]

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

PHONE CONVERSATION DOCUMENTATION FORM

✓ This is the original form ☐ or a copy ☐

✓ Route this form to:

☐ WELL FILE Blue Bench 13-1

☐ SUSPENSE
Return date
To: initials

☑ OTHER Opn. Chg.

Section 13 Township 35 Range 5E

API number 43-013-30971

Date of phone call: 2-27-95 Time: 10:13

DOGM employee (name) L. Cordova Initiated call? ☒

Spoke with:

Name Margo Parker Initiated call? ☐

of (company/organization) Genesis Prod. Co. Phone no. (307) 235-5358

Topic of conversation: Req. "Transfer of Auth. to Inject"

Highlights of conversation:

Ms. Parker has been instructed by her authorities not to submit the transfer to the Division. Apparently, they are upset that they were not notified of the sheriff's sale. They have no legal documentation that such a sale was going to take place and therefore were unable to represent themselves. They were made aware of the sale to J&R Const. Inc. by John Carson/EPA.

* Ned Fillingim / Duchesne County "Sheriff Sales" 738-2015 msg. 12:20
(Did not return my call, new operator submitting notice of sale & bill of sale)

(05/94)

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

RECEIVED
FEB 24 1995
DIV. OF OIL, GAS & MINING

5. Lease Designation and Serial Number: FEE

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number: 13-1

9. API Well Number: 43-013-30971

10. Field and Pool, or Wildcat:

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☐ OTHER: Injection Disposal Well

2. Name of Operator: J & R Construction Inc.

3. Address and Telephone Number: Box 1598, Highway 40 West Roosevelt, Utah 801-722-3996

4. Location of Well
Footages: 0820 FNL 0932 FEL
QQ, Sec.,T.,R.,M.: NENE SEC. 13, T. 3S, R. 5W
County: DUCHESNE
State: UTAH

11. **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT
(Submit in Duplicate)

- ☐ Abandon
- ☐ Repair Casing
- ☐ Change of Plans
- ☐ Convert to Injection
- ☐ Fracture Treat or Acidize
- ☐ Multiple Completion
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Recomplete
- ☐ Reperforate
- ☐ Vent or Flare
- ☐ Water Shut-Off
- ☒ Other Inject Fluids

Approximate date work will start Feb. 28th, 1995

SUBSEQUENT REPORT
(Submit Original Form Only)

- ☐ Abandon *
- ☐ Repair Casing
- ☐ Change of Plans
- ☐ Convert to Injection
- ☐ Fracture Treat or Acidize
- ☐ Other
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Reperforate
- ☐ Vent or Flare
- ☐ Water Shut-Off

Date of work completion

Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

J&R Construction is taking over operating the well pursuant to a foreclosure involving a sheriff's sale foreclosing outstanding and unpaid leins incurred by the prior operator.

13.
Name & Signature: Dennis Jensen Title: President Date: 2-21-95

(This space for State use only)

Accepted by the State of Utah Division of Oil, Gas and Mining
Date: 3-2-95
By:

(4\94)

(See Instructions on Reverse Side)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

COLLATERAL BOND - FORM 4-B

KNOW ALL MEN BY THESE PRESENTS:

That we J & R Construction Inc. (operator name) as Principal, which is duly authorized and qualified to do business in the State of Utah, are held and firmly bound unto the State of Utah in the sum of:

Twenty Thousand Dollars dollars ($ 20,000.00)

lawful money of the United States by virtue of the following financial instruments (cash account, negotiable bonds of the United States, a state or municipality, or negotiable certificate of deposit - see Rule R615-3-1)):

Certificate of Deposit

payable to the Director of the Division of Oil, Gas and Mining, as agent of the State of Utah, for the use and benefit of the State of Utah for the faithful payment of which we bind ourselves, our heirs, executors, administrators and successors, jointly and severally by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, WHEREAS, the Principal is or will be engaged in drilling, redrilling, deepening, repairing, operating, and plugging and abandonment a well or wells and restoring the well site or sites in the State of Utah for the purposes of oil or gas production and/or the injection and disposal of fluids in connection therewith for the following described land or well:

____ Blanket Bond: To cover all wells drilled in the State of Utah

XX Individual Bond: Well No. 13-1

Section 13 Township 3 South Range 5 West

USM, Duchesne County, Utah

NOW, THEREFORE, if the Principal shall comply with all the provisions of the laws of the State of Utah and the rules, orders and requirements of the Board of Oil, Gas and Mining of the State of Utah, including, but not limited to the proper plugging and abandonment of wells and well site restoration, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

IN TESTIMONY WHEREOF, said Principal has hereunto subscribed his or their names or has caused this instrument to be signed by its duly authorized officers and its corporate seal to be affixed this

21st day of February, 19 95.

(Seal)

J & R Construction Inc.
Principal

By Dennis Jensen President
Name and Title

(3/89)

ZIONS BANK

J & R Construction Inc.

Account Number: 027-907445-4

Date: 02-21-95

TIME DEPOSIT CONFIRMATION

Ownership: DIRECTOR OF THE DIVISION OF OIL AND GAS MINING

AS AGENT OF THE STATE OF UTAH

Purchase Amount: ***20,000.00 Term: 012 X ☐ Months ☐ Days

Interest Rate: 05.25 Annual Percentage Yield: 05.35 Maturity Date: 02-21-96

Interest Payment Frequency: ☐ At Maturity ☐ Annually ☒ Quarterly ☐ Monthly

Interest Payment Method: ☒ Add to Deposit ☐ Issue Check ☐ Transfer to Account Number: ☐ Checking/MMDA ☐ Savings

Zions Bank Representative Signature: CW Shearwood

This confirmation is not negotiable. This confirmation is not transferrable except on the records of Zions Bank. The Certificate of Deposit is issued in accordance with Zions Bank Rules and Regulations.

D'ELIA & LEHMER
ATTORNEYS AND COUNSELORS
POST OFFICE BOX 626
1375 DEER VALLEY DRIVE
PARK CITY, UTAH 84060

645-7470
Jerry D

Division of Oil, Gas and Mining

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

[] **Well File** _____
Blue Bench 13-1
(Location) Sec 13 Twp 35 Rng 5W
(API No.) 43-013-30971

[] **Suspense**
(Return Date) _____
(To - Initials) _____

[X] **Other** Oper. change

1. Date of Phone Call: 12-28-93 Time: 9:00

2. DOGM Employee (name) L. Cordova (Initiated Call [])
Talked to:
Name Margo Parker (Initiated Call []) - Phone No. (307) 234-1740
of (Company/Organization) Genesis Prod. Co.

3. Topic of Conversation: Wanted to know if DOGM had received add'l info. from Interest owners "Desig. New Operator". Also info. on a Class 5 permit being issued by EPA?

4. Highlights of Conversation:
Have not received add'l info. from Interest owners.
Dan Jarvis - DOGM has no jurisdiction over Class 5 permits, issued by EPA "John Carson".

* Oper. worried about permit "in progress". Referred Margo / Genesis to EPA so that they could notify them that Genesis is trying to resign as operator & that further processing of Class 5 permit should cease. (Probably submitted by Mr. Wendt before his departure from Genesis).

*940401 DOGM denied notice of bond cancellation "CNA Ins. Companies".
*940418 "Genesis" new address P.O. Box 1860 Casper WY 82602 c/o Lynch-Wendt Mgmt.
(Genesis still operating well until new operator is assigned.)

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 1

To Leisha Cordova	From MARGO
Co. State of Utah	Co. Genesis Prod. Co.
Dept.	Phone # 307-235-5358
Fax # 801-359-3940	Fax # 307-235-5718

11-5-93

Blue Bench #13-1
NE¼NE¼ Sec. 13, T3S, R5W
Duchesne County, Utah

API #43-013-10490

Working Interest Owners:

Mr. Tom T. Mori
5508 Pasio Navarro
Pleasanton, CA 94566

Direct Energy Corporation
591 25 Road
Grand Junction, CO 81502

Mr. Jay Mealey
Gavilan Petroleum Inc.
3030 S. Main, Suite 500
Salt Lake City, UT 84115

GBM Enterprises]
P. O. Box 628] Mail returned - "Addressee unknown"
Neola, UT 84053]

Mr. S. Floyd Mori
10713 Maple Hill Circle
Sandy, UT 84092

Monument Well SErvice
P. O. Box 2641
Grand Junction, CO 81505

Marykyo Shotem Co., Ltd.
(address unknown)

Genesis Production Company
1600 Stout Street, Suite 720
Denver, CO 80202

Division of Oil, Gas and Mining

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

[] Well File _____

_____

(Location) Sec___Twp___Rng___

(API No.) _____

[] Suspense

(Return Date) _____

(To - Initials) _____

xx Other

OPERATOR CHANGE

_____

_____

1. Date of Phone Call: 11-3-93 Time: 3:18

2. DOGM Employee (name) L. CORDOVA (Initiated Call xx)

Talked to:

Name ROBERT LYNCH (Initiated Call []) - Phone No. (303) 825-1552

of (Company/Organization) GENESIS PRODUCTION COMPANY

3. Topic of Conversation: BLUE BENCH 13-1/43-013-10490 (WDW)

(RESIGNATION AS OPERATOR EFFECTIVE 90 DAYS FROM LETTER DATED 10-21-93)

4. Highlights of Conversation:

MSG-ANSWERING SERVICE.

*931105 - MARGO/GENESIS

FAXING LIST OF INTEREST OWNERS. GENESIS RESIGNING AS OPERATOR, NOT ASKING FOR BOND RELEASE, MAY SHUT-IN WELL AT END OF 90 DAYS IF A NEW OPERATOR HAS NOT BEEN DESIGNATED BY THE INTEREST OWNERS AND LEAVE IT IN SI STATUS UNTIL SUCH TIME. THEY WILL KEEP DOGM APPRISED OF OUTCOME. ALSO WAITING ON NEW OPERATOR DESIGNATION BEFORE SUBMITTING UIC/FORM 5.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

RECEIVED
FEB 24 1995
DIV OF OIL, GAS & MINING

Well name and number: 13-1

Field or Unit name: Blue Bench Disposal API no. 43-013-30971

Well location: QQ NE¼ NE¼ section 13 township 3 So. range 5 W county USM Duchesne

Effective Date of Transfer: Jan. 17, 1995

CURRENT OPERATOR

Transfer approved by:

Name Genesis Production Co. Company _____

Signature _____ Address _____

Title _____ _____

Date _____ Phone ( ) _____

Comments: Obtained well at Sheriff's sale for outstanding debts incurred by Genesis.

NEW OPERATOR

Transfer approved by:

Name _____ Company J & R Construction Inc.

Signature Dennis Jensen Address Box 1598, Highway 40 West

Title President Roosevelt, Utah 84066

Date 2-21-95 Phone (801) 722- 3996

Comments:

(State use only)
Transfer approved by D. Hunt Title Environ. Manager

Approval Date 3-2-95 Board Order Cause #UIC-124

New operator will provide proof of purchase by 3-10-95

(3/89)

04/25/95 D E T A I L W E L L D A T A menu: opt 00

api num:	4301330971	prod zone: GRRV		sec	twnshp		range	qr-qr
entity:	10812 : BLUE BENCH #13-1			13	3.0	S	5.0 W	NENE

well name: BLUE BENCH #13-1
operator: N0335 : J & R CONSTRUCTION INC meridian: U
field: 55 : ALTAMONT
confidential flag: confidential expires: alt addr flag:
* * * application to drill, deepen, or plug back * * *

lease number:	FEE	lease type:	4	well type:	OT
surface loc:	0820 FNL 0932 FEL	unit name:			
prod zone loc:	0820 FNL 0932 FEL	depth:	9800	proposed zone:	GRRV
elevation:	5899' GR	apd date:	840703	auth code:	139-8
* * completion information * *		date recd:	920113	la/pa date:	
spud date:	840713	compl date:	911016	total depth:	9234'
producing intervals: 4106-7528'					
bottom hole:	0820 FNL 0932 FEL	first prod:		well status:	WDW
24hr oil:	24hr gas:	24hr water:		gas/oil ratio:	
* * well comments:		directionl:		api gravity:	

871201 ENTITY ADDED:891102 OPER FR N0780 EFF 10/89:910206 TA'D:910327 OPER FR GAVILAN EFF 3/91:920107 COMM INJ:920123 WELL NM FR PAIUTE WALKER #13-ND-1: 950302 OPER FR N7265 EFF 1-17-95:

opt: 21 api: 4301330971 zone: date(yymm): enty acct:

D'ELIA & LEHMER
ATTORNEYS AND COUNSELORS
POST OFFICE BOX 626
7620 ROYAL STREET EAST, SUITE 201
PARK CITY, UTAH 84060
TELEPHONE (801) 645-7470
FACSIMILE (801) 649-4380

F A X T R A N S M I S S I O N

DATE: February 27, 1995

TO: Gil Hunt

LOCATION: Division of Oil, Gas + Mining

FAX NO.: 1-801-359-3940

FROM: Peggy

HARD COPY TO FOLLOW: YES:____ NO: X

NUMBER OF PAGES TO FOLLOW INCLUDING THIS COVER PAGE:____

IF YOU DID NOT RECEIVE ALL PAGES, PLEASE CALL (801)645-7470

ADDITIONAL INFORMATION:

THIS MESSAGE IS INTENDED FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone, and return the original message to us via the U.S. Postal Service.

THANK YOU !

NOTICE OF SALE
REAL ESTATE SALE
DUCHESNE COUNTY
SHERIFF'S OFFICE
ORDER OF SALE
DISTRICT COURT
Civil No. 930800010

J & R CONSTRUCTION, INC., a Utah corporation and G.B.M.ENTERPRISES, a partnership,

Plaintiffs,

vs.

LYNCH/WENDT MANAGEMENT SERVICES, INC., aka GENESIS PRODUCTION COMPANY a Colorado Corporation, GAVILAN PETROLEUM, INC. a Utah Corporation, DIRECT ENERGY, INC., TOM T. MORI, an individual, S. FLOYD MORI, an individual, MONUMENT WELL SERVICE COMPANY, a Colorado Corporation, MARUKYU SHOTEN COMPANY, Ltd, a Japanese Limited Partnership, and John Does 1 through 6,

Defendants.

To be sold at Sheriff's Sale at the County Courthouse, 50 East 100 South, in the Eighth District Court Building, in the City and County of Duchesne, State of Utah, on Tuesday, January 17, 1995, at 10:00 a.m. of said day, all right, title and interest of said Lynch/Wendt Management Services, Inc,. aka Genesis Production Company, Gavilan Petroleum, Inc., Direct Energy, Tom T. Mori, S. Floyd Mori, Monument Well Service, Marukyn Shoten Company, Ltd., in and to that certain parcel of real property (saltwater disposal well) situated in Duchense County, State of Utah, described as follows, to-wit: the 13-1 Well located at Duchesne County, Utah and more particularly as being located in the:

NE 1/4 of NE 1/4 Section 13, Township 3 South, Range 5 West, SLM, Duchesne County, Utah.

Purchase price payable in lawful money of the United States of America.

DATED at Park City, Utah this 2nd day of December, 1994.

RICK HARRISON
Sheriff of Duchesne County,
State of Utah
/s/ Ned Fillingim
Deputy Sheriff
Docket No.
Gerry D'Elia of D'ELIA & LEHMER
Attorney
Date of first publication
December 13, 1994

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

FEB 27 [illegible]

Ref: 8WM-DW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Jeff Goodrich
Lorain Corporation
P.O. Box 134
Altamont, Utah 84001

RE: UNDERGROUND INJECTION CONTROL (UIC)
Transfer of Qwnership
Genesis Blue Bench #13-1 Well
EPA Permit #UT2582-03533
Duchesne County, Utah
43-013-30971 Sec. 13 T. 3S R. 5W

Dear Mr. Goodrich:

It is our understanding that the ownership of the referenced well is being transferred to Lorain Corporation. In order to maintain compliance with the UIC Class II Permit regulations for this salt water disposal well, Lorain Corporation must provide the Environmental Protection Agency (EPA) with:

1) A copy of the properly signed Assignment (Bill of Sale) and/or Assumption Agreement, documenting the transfer of ownership or operational control, is due within thirty (30) days of the transfer of property.

2) An acceptable financial responsibility (FR) demonstration to close, plug, and abandon (P&A) the Blue Bench #13-1 well, according to permit condition PART II, Section F. 1. The dollar amount of FR is to be based on two (2) estimated P&A costs by independent service company's contracted cost for current EPA approved P&A operations, not an "in-house" cost estimate. (See Permit, Appendix C for the P&A plan). **EPA shall retain the previous owner's FR until such time as Lorain Corporation submits an acceptable FR demonstration.**

According to 40 CFR § 144.28 (i) or permit condition (PART II, Section D. 3.), Lorain Corporation shall retain records concerning:

1) The nature and composition of all injected fluids; and

Printed on Recycled Paper

2) All monitoring and sampling information, including all calibration and maintenance records and copies (or the originals) of all reports required for permitted Class II wells, for a period of at least five (5) years from the date of the sample, measurement or report throughout the operating life of the well at the office of Lorain Corporation, P.O. Box 134, Altamont, Utah.

Enclosed you will find a Program Overview booklet and Code of Federal Regulations for Owners and Operators of Class II Injection Wells; this information will assist you in meeting the requirements of the UIC Program. Also enclosed is a Financial Responsibility packet to assist you in selecting a proper financial responsibility demonstration. By accepting ownership and operational control of this facility, you hereby accept the responsibility to read and comply with all conditions of the SDWA and UIC regulations as described in this packet and/or newly acquired permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act and may result in enforcement action.

After the information described above is received in this office, EPA may review the existing permit and so notify you of any major or minor permit modification to the permit, which was originally prepared for Genesis Production Company.

Within **sixty (60) days** of receipt of this letter, your plugging cost estimate(s) and financial responsibility demonstration should be submitted to: Ms. Daniela Thigpen (Mail Code 8WM-DW) at the above letterhead address, or telephone Ms. Thigpen at (303) 293-1421. If you have any questions concerning this letter or questions regarding operation of the well, please feel free to contact John Carson at (303) 293-1435.

Sincerely,

Thomas J. Pike
Chief
UIC Implementation Section

Enclosures: Statement of Basis
Final Class II Permit
Minor Permit Modification
Program Overview Booklet
Code of Federal Regulations
Financial Responsibility Package

cc: Luke Duncan
Northern Ute Tribe

Ferron Secakuku
Northern Ute Tribe

Jonas Grant
Uintah-Ouray Business committee

Alvin Ignacio
Ute Tribe Energy & Minerals Dept.

Norman Cambridge
Bureau of Indian Affairs

Don Ostler
Utah Department of Environmental Quality

Dennis Downs
Utah Department of Environmental Quality

Gilbert Hunt
State of Utah Natural Resources

Jerry Kenczka
Bureau of Land Management

John D. Steuble
Parallax Engineering

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

Routing:

1-	LEC / GIL
2-	LWP 7-PL
3-	DTS 8-SJ
4-	VLC 9-FILE
5-	RJF
6-	LWP

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

XXX Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 1/17/95)

TO (new operator) J & R CONSTRUCTION INC
(address) BOX 1598 HWY 40 WEST
ROOSEVELT UT 84066
DENNIS JENSEN, PRES.
phone (801) 722-3996
account no. N0335 (2-24-95)

FROM (former operator) GENESIS PRODUCTION COMPANY
(address) C/O LYNCH-WENDT MGMT SVS
PO BOX 1860
CASPER WY 82602
phone (307)235-5358
account no. N7265

Well(s) (attach additional page if needed): *WDW

Name: BLUE BENCH 13-1/GRRV	API: 43-013-30971	Entity: 10812	Sec 13	Twp 3S	Rng 5W	Lease Type: FEE
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:

OPERATOR CHANGE DOCUMENTATION

LEC 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 10-21-93)

LEC 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Rec'd 2-24-95)

LEC 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: #C77787 . eff. 6/78 / Name ch. to G.M.R. Construction Inc. eff. 3-11-87.

N/A 4. **(For Indian and Federal Wells ONLY)** The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.

LEC 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (3-2-95)

LWP 6. Cardex file has been updated for each well listed above. 3-2-95

LWP 7. Well file labels have been updated for each well listed above. 3-2-95

LEC 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (3-2-95)

LEC 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

OVER

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

LEC 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ___ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) Time Deposit #027-907445-4 / 20,000 "Zions Bank" eff. 2-21-95

Lec 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.

___ 2. A copy of this form has been placed in the new and former operators' bond files. * Upon compl. of routing.

Lec 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date March 2, 1995. If yes, division response was made by letter dated _____ 19___.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

n/a 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated _____ 19___, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.

n/a 2. Copies of documents have been sent to State Lands for changes involving **State leases.**

FILMING

✓ 1. All attachments to this form have been microfilmed. Date: March 6 1995.

FILING

___ 1. Copies of all attachments to this form have been filed in each well file.

___ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

WE71/34-35

D'ELIA & LEHMER
ATTORNEYS AND COUNSELORS
POST OFFICE BOX 626
7620 ROYAL STREET EAST, SUITE 201
PARK CITY, UTAH 84060
TELEPHONE (801) 645-7470
FACSIMILE (801) 649-4380

F A X T R A N S M I S S I O N

DATE: March 23, 1995

TO: Gil Hunt

LOCATION: Oil, Gas & Mining

FAX NO.: (801) 359-3940

FROM: Peggy McKissen

HARD COPY TO FOLLOW: YES:_____ NO: X

NUMBER OF PAGES TO FOLLOW INCLUDING THIS COVER PAGE: 2

IF YOU DID NOT RECEIVE ALL PAGES, PLEASE CALL (801)645-7470

ADDITIONAL INFORMATION:

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THANK YOU !

ENTRY NO 305198 DATE 3-20-95 TIME 1:30 p BOOK A248 PAGE 383
FEE $ 10.00 RECORDED AT REQUEST OF D'Elia & Lehmer
Carolyn Madsen DUCHESNE COUNTY RECORDER Box 636 Park City, Ut 84060

CERTIFICATE OF SALE

By virtue of a Judgment and Decree of Foreclosure entered on December 1, 1994, in the Eighth Judicial District Court of Duchesne County, Utah in favor of J&R Construction, Inc. and G.B.M. Enterprises, Plaintiffs and against Lynch/Wendt Management Services, Inc., aka Gensis Production Company, Gavilan Petroleum, Inc., Direct Energy, Tom T. Mori, S. Floyd Mori and Marukyu Shoten Company, LTD., Defendants, Civil No. 930800010PR and under the authority of a Writ of Execution issued therein, I, Ralph Stansfield, Sheriff of Duchesne County was commanded to sell the property hereafter described, according to law, and to apply the proceeds of sale in satisfaction of the judgment in such action of $204,288.51, with interest and costs as specified in the Judgment.

I certify that on January 17, 1995, I duly sold to the highest bidder at public auction conducted by me at Duchesne, Utah, at the Duchesne County Courthouse, according to law and due notice, all the following real property located in the County of Duchesne, State of Utah, to-wit: 43-013-30971 / WDW

> 13-1 Well located at Duchesne County, Utah and more particularly described as being located in the NE 1/4 of NE 1/4 of Section 13, Township 3 South, Range 5 West, USM, Duchesne County, Utah.

The highest bidder was J&R Construction, Inc., Highway 40 West, Roosevelt, Utah 84066 and the selling price was $205,360.51, being the highest and best bid made.

The sale is subject to redemption as provided by the Laws of the State of Utah.

IN WITNESS WHEREOF, I have executed this certificate at Duchesne, Utah on this 13 day of March, 1995.

Ralph Stansfield

LORETTA PURDY
NOTARY PUBLIC - STATE of UTAH
DRAWER M
DUCHESNE, UT 84021
COMM. EXPIRES 03-09-96

STATE OF UTAH
) :ss
COUNTY OF DUCHESNE)

On the 13th day of March, 1995, personally appeared before me Ralph Stansfield, Sheriff of Duchesne County, Utah the signer of the foregoing Certificate of Sale who duly acknowledged to me that he executed the same.

Loretta Purdy
Notary Public
Residing at: Duchesne

My com. expires: 3-6-96

Injection Well #

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

FORM 9

5. Lease Designation and Serial Number: UT2582-03533
6. If Indian, Allottee or Tribe Name:
7. Unit Agreement Name:
8. Well Name and Number: Blue Bench 13-1
9. API Well Number: 43-013-30971
10. Field and Pool, or Wildcat:

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☐ OTHER: SW Disposal
2. Name of Operator: Envirotech Well Service
3. Address and Telephone Number: PO Box 1853, Roosevelt, Ut. 84066
4. Location of Well
Footages: 820' FNL, 932' FEL
QQ, Sec., T., R., M.: NE/NE, Sec 13 3S. 5W
County: Duchesne
State: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

- ☐ Abandon
- ☐ Repair Casing
- ☐ Change of Plans
- ☐ Convert to Injection
- ☐ Fracture Treat or Acidize
- ☐ Multiple Completion
- ☐ Other Inject produced water
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Recomplete
- ☐ Reperforate
- ☐ Vent or Flare
- ☐ Water Shut-Off

Approximate date work will start 7/1/95

SUBSEQUENT REPORT
(Submit Original Form Only)

- ☐ Abandon *
- ☐ Repair Casing
- ☐ Change of Plans
- ☐ Convert to Injection
- ☐ Fracture Treat or Acidize
- ☐ Other
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Reperforate
- ☐ Vent or Flare
- ☐ Water Shut-Off

Date of work completion

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Envirotech Purchased B-1 well from J & R Construction. We intend to operate it as an injection well.

13. Name & Signature: R L Dalton Title: VP Date: 6/19/95

(This space for State use only)

(See Instructions on Reverse Side)

(4/94)

Uinta Oil & Gas, Inc.
P.O. Box 1618
Roosevelt, Utah 84066
Business 24 Hour (801) 722-3000

June 19, 1995

FAX MEMO
RE: BLUEBENCH 13-1

Lisha Cordova
Division of Oil Gas and Minerals

Dear Lisha:

I have faxed over the sundry notice for the BLUEBENCH 13-1 for your information concerning the before mentioned well. I have forwarded via fax the form UIC #5 to J & R Construction so they can fill out their portion of the document and have asked them to deliver it to your office.

It is my understanding (from Ron Firth) that our statewide bond for Uinta Oil and Gas will be applied to the 13-1 as an extension of said bond. In reference to that I have not completed form 4D.

Should there be any questions or comments please let us know at your earliest convenience. Craig can be reached in Roosevelt @ (801) 722-3000, and I can be reached in Salt Lake at 288-1926.

Thank you,

Bob Hallow

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

RECEIVED
JUN 30 1995
DIV. OF OIL, GAS & MINING

Injection #

5. Lease Designation and Serial Number: UT2582 - 03533

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number: Blue Bench 13-1

9. API Well Number: 43-013-30971

10. Field and Pool, or Wildcat:

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☐ OTHER: Salt Water Disposal

2. Name of Operator: Uintah Oil & Gas/Envirotech Well Service

3. Address and Telephone Number: Box 1853, Roosevelt, Utah 84066

4. Location of Well
Footages: 820' FNL, 932' FEL
QQ, Sec., T., R., M.: NENE, Sec. 13, 3S, 5W
County: Duchesne
State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
☐ Abandon	☐ New Construction	☐ Abandon *	☐ New Construction
☐ Repair Casing	☐ Pull or Alter Casing	☐ Repair Casing	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recomplete	☐ Change of Plans	☐ Perforate
☐ Convert to Injection	☐ Perforate	☐ Convert to Injection	☐ Vent or Flare
☐ Fracture Treat or Acidize	☐ Vent or Flare	☐ Fracture Treat or Acidize	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☐ Other	
☐ Other Inject produced water			
Approximate date work will start 7-1-95		Date of work completion	

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The above named operator - Uintah Oil & Gas/Envirotech Well Service has purchased the 13-1 Blue Bench Well from us^ J+R Const Inc. 6-1-95. Please return our bond in the form of a Time Deposit No. 027-907445-4, from Zions Bank for $20,000.00 to us as soon as possible. Thank you.

13. Name & Signature: J+R Const. Inc. Dennis Jensen Dennis Jensen Title: Pres. Date: 6-28-95

(This space for State use only)

*See Instructions on Reverse Side)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

DESIGNATION OF AGENT OR OPERATOR - FORM 5

The undersigned is, on record, the holder of oil and gas lease

LEASE NAME: Uinta Oil & GAS

LEASE NUMBER: Blue Bench 1-13 Disposal well

and hereby designates

NAME: Envirotech Well Service

ADDRESS: P.O Box 1853 Roosevelt, Ut. 84066

as his agent/operator, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to (describe acreage to which this designation is applicable):

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

The lessee agrees promptly to notify the Division Director or Authorized Agent of any change in this designation.

Effective Date of Designation 6/26/95 By: Robert L Ballou (signature)

Company Address: P.O Box 1618 Roosevelt, Ut. 84066

Title: VP

Phone: 801-722-3000

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

RECEIVED
JUN 30 1995
DIV. OF OIL, GAS & MINING

Well name and number: Blue Bench 13-1 Well

Field or Unit name: Blue Bench API no. 43-013-30971

Well location: QQ NENE section 13 township 3S range 5W county Duchesne

Effective Date of Transfer: 6-1-95

CURRENT OPERATOR

Transfer approved by:

Name Dennis Jensen Company J & R Construction Inc.

Signature Dennis Jensen Address Box 1598, Roosevelt, Utah 84066

Title President

Date 6-28-95 Phone (801) 722-3996

Comments: New ownership has taken place, please return our Time Deposit with Zions Bank for $20,000.00

NEW OPERATOR

Transfer approved by:

Name Craig Phillips / Robert Ballou Company Uintah Oil & Gas/Envirotech Well Servic

Signature Robert L Ballou VP Address Box 1853, Roosevelt, Utah 84066

Title

Date 6-28-95 Phone (802) 722-3000

Comments:

(State use only)
Transfer approved by D Hunt Title Environ Manager

Approval Date 7-3-95

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

Routing:

1-LEC	GIL
2-LWP	7-PL
3-DTS/SLS	8-SJ
4-VLC	9-FILE
5-RJF	
6-LWP	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

- [X] Change of Operator (well sold)
- [ ] Designation of Operator
- [ ] Designation of Agent
- [ ] Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 6-1-95)

TO (new operator)	UINTA OIL & GAS	FROM (former operator)	J & R CONSTRUCTION INC
(address)	C/O ENVIROTECH WELL SERVICE	(address)	BOX 1598 HWY 40 WEST
	PO BOX 1853		ROOSEVELT UT 84066
	ROOSEVELT UT 84066		DENNIS JENSEN
	phone (801) 722-3000		phone (801)722-3996
	account no. N 2945(A) *6-27-95		account no. N 0335

*WDW

Well(s) (attach additional page if needed):

Name: *BLUE BENCH 13-1/GRRV	API: 43-013-30971	Entity: 10812	Sec 13	Twp 3S	Rng 5W	Lease Type: FEE
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:

OPERATOR CHANGE DOCUMENTATION

LEC 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 6-29-95)

LEC 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Rec'd 6-26-95)

N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.

N/A 4. **(For Indian and Federal Wells ONLY)** The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.

LEC 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (6-29-95)

LWP 6. Cardex file has been updated for each well listed above. 7-5-95

LWP 7. Well file labels have been updated for each well listed above. 7-5-95

LEC 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (6-29-95)

LEC 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

– OVER –

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

LEC 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ___ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) LOLOC # 7065 / $80,000 "Zions First Nat'l Bank"

LEC 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.

___ 2. A copy of this form has been placed in the new and former operators' bond files. * Upon compl. of routing.

LEC 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date June 29, 1995. If yes, division response was made by letter dated July 3, 1995.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

N/A 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated _____ 19___, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
DTS 7/5/95 No longer done per RAF direction

N/A 2. Copies of documents have been sent to State Lands for changes involving **State leases.**

FILMING

✓ 1. All attachments to this form have been microfilmed. Date: July 12 1995.

FILING

___ 1. Copies of all attachments to this form have been filed in each well file.

___ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

950626 Req. UIC F5 / Uinta O&G * Rec'd 6-29-95.

WE71/34-35

State of Utah
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WATER QUALITY

Michael O. Leavitt
Governor
Dianne R. Nielson, Ph.D.
Executive Director
Don A. Ostler, P.E.
Director

288 North 1460 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870
(801) 538-6146 Voice
(801) 538-6016 Fax
(801) 536-4414 T.D.D.

RECEIVED
MAY 07 1997
DIV. OF OIL, GAS & MINING

April 29, 1997

David L. Allin
Allin Proprietary
660 N. Columbus Street
Salt Lake City, Utah 84103-2117

Dear Mr. Allin:

Subject: Application for Class V UIC Permit (UTU500004) for Blue Bench Disposal Injection Well Four Miles North of Duchesne, Utah

We have received your application for a Class V UIC permit for Blue Bench Disposal's Blue Bench 13-1 injection well. When our completeness review is finished, you will be notified if additional information is required. At the time the permit is issued there will be a fee of $3,600.00, with the possibility of additional hourly fees if abnormal review time is required.

Please call me at (801) 538-6146 if you have any questions.

Sincerely,

Gerald L. Jackson

Gerald L. Jackson, Environmental Scientist
Ground Water Protection Section

GLJ:wfm

cc: Joseph B. Shaffer, Director, Uintah Basin Public Health Dept.
Ted Allen, District Engineer
Douglas Minter, EPA Region VIII
Michael Georgeson, Division of Drinking Water
Utah Div. of Solid and Hazardous Waste
Utah Div. of Oil, Gas and Mining
Duchesne County Commissioners

P:\WQ\PERMITS\GJACKSON\WP\BLUEBENC.NO1
FILE:BLUE BENCH DISPOSAL / UIC

State of Utah

DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WATER QUALITY

288 North 1460 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870
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Michael O. Leavitt
Governor
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Director

Water Quality Board
Keith W. Welch
Chairman
Lynn F. Pett
Vice Chairman
Robert G. Adams
R. Rex Ausburn, P.E.
David S. Bowles, Ph.D., P.E.
Nan Bunker
Leonard Ferguson
Dianne R. Nielson, Ph.D.
K.C. Shaw, P.E.
J. Ann Wechsler
Leroy H. Wullstein, Ph.D.
Don A. Ostler, P.E.
Executive Secretary

August 13, 1997

David L. Allin
Allin Proprietary
660 N. Columbus Street
Salt Lake City, Utah 84103-2117

Dear Mr. Allin:

Subject: Completeness Review of Envirotech, Inc.'s Application for Class V UIC Permit (UTU500004) for Blue Bench Disposal Injection Well Four Miles North of Duchesne, Utah

We have finished our completeness review for the Blue Bench Disposal Class V UIC Permit application (UIC Permit No. UTU500004). Some portions of the application were incomplete and some areas of concern have surfaced. The incomplete portions of the application and items of concern noted below must be satisfactorily addressed before we can proceed with the permitting process:

1. The application indicated that the injection zone may communicate with the Duchesne River-Uinta aquifer (which contains an underground source of drinking water [USDW]) in the area of the Duchesne fault zone and the confluence of the Duchesne and White Rivers with the Green River. This statement is in conflict with Envirotech's submittal to the Utah Division of Solid and Hazardous Waste dated June 6, 1997 (paragraph 2[b]), which stated "There is no naturally occuring leakage of the Green River Formation fluids to the surface or near-surface drinking water supplies."

   Please indicate if, where, when, and to what extent the injected waste front may be likely to cause USDW's in the two areas noted above, or any other areas, to violate Primary Drinking Water Standards (MCL's), Utah Ground Water Quality Standards, EPA Adult Lifetime Health Advisories, or to adversely affect the health of persons. Include in your evaluation the following considerations:

   a. Ground water flow modeling of the proposed waste plume. Review a modeling effort by Bredehoeft, et al, "Simulations of the Origin of Fluid Pressure, Fracture Generation, and the Movement of Fluids in the Uinta Basin, Utah," published

November, 1994 by the American Association of Petroleum Geologists, v. 78. n. 11, p. 1729-1747.

b. The vertical and horizontal variations of the 10,000 mg/l TDS (total dissolved solids) isocon in relation to aquifers, confining zones, wells, faults and fracture systems, etc.

c. The continuity and permeability of each confining zone, as follows:

i. The significant saline mound that underlies the general area may be indicative that the upper confining zone does not really confine very well. Please address this concept further. Also include an evaluation of the extent to which shales in the confining zones may be becoming more permeable due to the conversion of kerogen to oil, with associated migration paths.

ii. Please respond to the statement "Flow through shale confining layers forms a significant component of regional flow systems," Bredehoeft, et al, in 1982 Geological Society of America Special Paper 189 "Regional Ground Water Flow in the United States: Historical Perspective," p. 297-313.

iii. Consider ground water flow along fault and fracture systems, especially in and between the east-west fault systems existing in the two areas noted above. The application indicated that the highly overpressured Lower Green River and Wasatch Formation aquifer is discharging upward into the Upper Green River Formation aquifer via fractures and faults such as the Duchesne Fault zone.

d. The presence in the injection zone of any relatively thin, extensive permeable beds such as the Horse Bench Sandstone.

2. Please provide any available chemical/physical analyses from all water wells and springs within the 2 mile area of review. Especially provide specific identification and data for all 8 Duchesne City water wells, as well as Murray Springs.

3. Please provide an estimate of average linear velocity for each ground water system present, including the injection zone. Also, please indicate the highest linear velocity which might be experienced by fluid flowing through the most permeable bed(s) in the injection zone, such as the Horse Bench Sandstone, at the highest allowable injection pressure of 775 psi. See the discussion at the end of this letter for justification of this number.

4. Provided a permit is issued, the following corrective action will be required of the Blue Bench #13-1 injection well prior to the start of Class V injection:

a. Due to the hydraulically upgradient proximity (≈.72 mile) of the Blue Bench #13-1 injection well to Duchesne City's 8 water wells, we will require that the remaining annular space between the 9 5/8" surface casing and the 7" longstring casing be plugged with cement from the top of the existing annular plug at approximately 1850' to the surface.

b. An internal cement plug must be placed across the lower confining zone from 7580' to 7810'.

5. Three other wells which penetrate the injection zone within the 2 mile area of review will either require the following specific corrective actions or proof that injection zone pressure at each site will not exceed or closely approach the historically low hydraulic heads of the USDW's above the injection zone:

Duchesne County #1-17(C4) - This well has open perforations in the injection zone and uncemented casing across much of the USDW. The minimum corrective action is to seal off the injection zone perforations by placing an internal cement plug inside the 5 1/2" casing from 5344' to the bottom of the hole.

Bluebench #1-7C4 - Though already plugged and abandoned, there is an open annulus across the upper injection zone and across the upper confining layer. The minimum corrective action is to seal off the open annulus by placing an annular cement plug from 3890' to meet the existing annular plug at approximately 4871'.

Fortune Ute #1-11C5 - This producing oil and gas well has an open annulus across the injection zone and both confining zones. The minimum corrective action is to seal off the open annulus by placing an annular cement plug from 3780' to meet the existing annular plug at approximately 7960'. While rigged up for the annular plugging it would be prudent to go ahead and extend the new annular plug to 3347', effectively isolating the <10,000 mg/l TDS ground water from possible future contamination from production fluids should the casing corrode through.

Cement used to comply with Items 4 and 5 above must be compatible with formation/formation fluids and proposed injectate (must especially be pH and NaCl compatible). Please specify the intended fill between plugs. It should be non-polymer bentonite slurry or equivalent. Each internal cement plug must be verified by tagging and leak testing after an appropriate setting time, with verification sent to this office. For annular cement jobs, a satisfactory cement bond log must be run prior to start of injection, with verification sent to this office.

6. The proposed monitoring plan had an error relative to one site's location, and must be greatly expanded, as follows:

a. Water Right #8536 (shallow well) was proposed as a downgradient monitoring well for the bedrock aquifer. This is unacceptable, as the well is not hydraulically downgradient of the injection well.

b. While the Duchesne City wells must be part of your monitoring program, we will also require four downgradient monitoring wells located between the injection well and the Duchesne City wells, two screened in the bedrock aquifer and two screened in the floodplain aquifer. These wells must be located hydraulically downgradient and reasonably close to the injection well.

The request for these monitoring wells is indicative of our concern that the proposed industrial waste injection well may be in the wellhead protection area for the Duchesne City wells.

c. Murray Springs will also need to be included as part of your ongoing monitoring plan.

d. A monitoring well must be located in a recognizable portion of the Duchesne Fault Zone at its closest proximity to the injection well, screened near the base of 10,000 mg/l TDS ground water.

e. A monitoring well must be located within 100 feet to the southeast of the injection well, and be screened in the first reasonably permeable zone above the upper confining zone. Water quality and pressure monitoring capability will be required.

Please resubmit your monitoring plan, to include the above requirements as well as injectate, groundwater background and post-injection analytes/monitoring frequency. See Attachments 1 and 2 for lists of analytes and additional guidelines. In Attachment 2 you only need consider the Adult Lifetime Health Advisories. The monitoring plan will need to include sampling/analyses for all of these parameters that could possibly be affected by the injectate.

Sampling methods, containers, preservatives, etc. must follow the appropriate parts of Sections 4 and 10 of the Utah Division of Water Quality (DWQ) "Quality Assurance Project Plan" (QAPP) guidance (attached). Analyses must be done at a State-certified lab, with a copy of the results sent to our office.

Background data should be acquired over as long a period of time as possible. The local health department has requested that all water wells within at least a 2 mile radius of the injection well be sampled/analyzed prior to and periodically after startup of injection. It could be to your advantage to acquire background ground water quality analyses from all water wells and springs within the area of review.

7. The Emergency Response Plan indicated that spills would be vacuumed into an unfiltered fluid tank. What will you do if the tank is already full of normal wastewater? Also, how will spills/leaks be managed outside the diked area(s) (collection sumps are recommended)?

8. A construction permit will be required prior to any new construction at the site, with some possible upgrading necessary. Tank dikes should be constructed which will contain 100% of the tank volumes enclosed above the dike plus adequate freeboard to contain a 100 year storm. Please submit more detailed construction plans and existing specifications for all wastewater treatment, storage, disposal and spill/leak containment facilities, including piping, tanks, dikes and impermeable liners, etc. Include a schematic which indicates the extent of the planned/existing diking system, and what facilities are/will be located within the diked areas.

9. Please provide a detailed list of wastes that you propose to inject, with a description of representative wastestream contaminant concentrations.

10. Please provide an evaluation of the compatibility of the injection formation and the two confining layers with the proposed injectate at the expected pressures and temperatures. Indicate a safe pH level of injectate which would not allow the creation of high pressure gas from a reaction with carbonates, etc. which could possibly initiate or propagate fractures. Also indicate whether the injectate may cause the confining layers to degrade and/or increase in permeability due to reactions not involving overpressurization.

    Please address compatibility between the proposed injection fluids and tubing/packer/casing.

11. The submitted Plugging and Abandonment Plan for Blue Bench #13-1 was inadequate. Please resubmit your Plugging and Abandonment Plan to include surface waste removal and the following <u>additional</u> plugs within the 7" production casing, with a description of how they will be placed:

    a. From 7175' to 7580' (a continuation of previously requested plug from 7580' to 7810').

    b. 4000' to 4140.'

    c. 1900' to 2700' (an extension of Envirotech's Plug #3).

    The plug proposed by Envirotech for the interval between 3360' and 3560' within the 7" casing will not be required, but may be placed at your option.

    See the last paragraph of Item 5 above for cementing requirements.

12. Please update the associated cost estimates necessary to implement the revised Blue Bench #13-1 Plugging and Abandonment Plan as noted above. Estimated costs must include a 10% contingency amount plus a 3%/year inflation factor for a 5 year permit.

13. Provided a permit is issued, you will need to submit a guarantee of financial resources (bond, CD, etc.) payable to the DWQ for the total amount noted in Item 12 above, along with a Standby Trust Agreement, to assure that the injection well will be properly plugged and abandoned if the need arises and that surface wastes will be properly removed.

    You have indicated that Envirotech has a statewide surety bond for $25,000 and a $10,000 bond with the EPA (Region VIII) to assure coverage of the costs of plugging and abandoning the Class II injection well, etc. DWQ is willing to allow those financial instruments to also apply toward the Class V financial responsibility requirements for this well if the other state agencie(s) involved (Divisions of Solid and Hazardous Waste, and Oil, Gas, and Mining, etc.) and EPA will go along with it. If you desire to pursue this approach the details will have to be worked out prior to permit issuance, i.e., it may be necessary for you to rewrite those documents and Standby Trust Agreements to include DWQ as a payee, etc. If this avenue is taken, and the estimated cost to plug/abandon the injection well (Item 12 above) exceeds $35,000 (current sum of sureties), you must provide additional surety to DWQ to make up the difference.

14. Please indicate the permeability of both upper and lower confining zones within the 2 mile area of review.

15. Please indicate whether or not the names/addresses of mineral lease owners were included in your answer to question 15 of the permit application. If not, please provide them to us. Please group separately the owners of mineral interests in the tract of land on which the injection well is located.

16. Please provide an evaluation of the most recent cement bond logs and any casing-integrity logs for Blue Bench #13-1 and all 6 of the other deep wells in the 2 mile area of review. Please indicate log dates, and your estimation of current cement and casing integrity for all 7 wells.

17. Please indicate what type of fluid, if any, will be placed in the casing/tubing annulus. If fluid is used, it must be one which would not degrade the USDW beyond MCL's, etc.

18. Please indicate how the injection volume nonresettable electronic readout will retain its accumulated values in a power failure.

19. Please provide information on the analyses and concentrations of any intended injectate additives such as oxygen scavengers and scale/corrosion inhibitors.

20. Item 8(a) of the Technical Report states "In order to insure compatibility with the fluid now in the injection zone, the injectate must be proved nonhazardous using the Toxicity Characteristic Leaching Procedure (TCLP) to determine its corrosivity, toxicity, ignitability and reactivity." This statement is incorrect. The TCLP method (EPA Method #1311) does not provide information as to a waste's corrosivity, ignitability, or reactivity. It only provides toxicity information for a few specific parameters.

The following items do not require a response, but are intended to be included as permit conditions should a permit be issued:

1. Well head pressure will be limited to 775 psi, calculated as follows:

   Minimum breakdown pressure for the formations involved as indicated in the application is about .75 psig/foot (frac gradient), which computes to 3075 psig for 4100 feet of overburden above the injection zone (.75 X 4100).

   The hydrostatic gradient of injectate with a maximum density of 1.15 (as indicated in the application) equals .498 psi/foot (.433 [pure water] X 1.15). This gives a maximum static pressure of 2042 psi at the top of the injection zone (.498 X 4100).

   Subtracting the static pressure from the formation breakdown pressure gives the additional pressure necessary to initiate fractures: 3075 psi - 2042psi = 1033psi

   Applying a 25% safety margin, the maximum allowable surface pressure is:
   .75 X 1033 psi = 775 psi

   The maximum pressure proposed at the wellhead (1230 psi) apparently did not take into consideration the .75 psig/foot frac gradient, the expected maximum density of injectate of 1.15, nor a safety factor. We feel that a 25% safety factor is reasonable, considering the number of variables.

   Additionally, for this operation, future step rate tests are not acceptable for determining the injection formation fracture pressure. The reasons are that this method:

   a. Actually initiates or propagates fractures during the test, which is to be avoided.

   b. Should be run prior to the introduction of wastes, making it already too late, as Class II wastes have already been accepted.

   c. Will not currently work in this well, as historically it will not pressure up.

2. After all corrective action has been successfully completed on the injection well, a cement bond log, an annulus pressure test and a radioactive tracer test must be successfully completed prior to startup of injection.

If you have any questions, please call Jerry Jackson at 801-538-6146.

Sincerely,

Don A. Ostler, P.E.
Director

DAO:glj

Enclosures

cc: Joseph B. Shaffer, Director, Uintah Basin Public Health Dept. (W/o encl)
Ted Allen, District Engineer (W/o encl)
Kiran Bhayani, DWQ (W/o encl)
Douglas Minter, EPA Region VIII (W/o encl)
Michael Georgeson, Division of Drinking Water (W/o encl)
Utah Div. of Solid and Hazardous Waste (W/o encl)
Utah Div. of Oil, Gas and Mining (W/o encl)
Duchesne County Commissioners (W/o encl)
Duchesne City (W/o encl)
Jonas Grant, Northern Ute Indian Tribe (W/o encl)
Patrick Padia, Northern Ute Indian Tribe (W/o encl)
Representative Beverly Evans

P:\WQ\PERMITS\GJACKSON\WP8LUEBENC.NO2
FILE:ENVIROTECH, INC / UIC

State of Utah
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WATER QUALITY

Michael O. Leavitt
Governor
Dianne R. Nielson, Ph.D.
Executive Director
Don A. Ostler, P.E.
Director

288 North 1460 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870
(801) 538-6146 Voice
(801) 538-6016 Fax
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RECEIVED
FEB 12 1998
DIV. OF OIL, GAS & MINING

Water Quality Board
Leroy H. Wullstein, Ph.D.
Chairman
Lynn F. Pett
Vice Chairman
Robert G. Adams
R. Rex Ausburn, P.E.
Nan Bunker
Leonard Ferguson
Dianne R. Nielson, Ph.D.
K.C. Shaw, P.E.
Ronald C. Sims, Ph.D.
J. Ann Wechsler
William R. Williams
Don A. Ostler, P.E.
Executive Secretary

Febuary 6, 1998

H. K. Elrod
1567 West Silver Springs Road
Park City, Utah 84098

43-013-30971
13-T3S-R5W

Dear Mr. Elrod:

Subject: Class V UIC Permit Application for Envirotech Blue Bench 13-1 Injection Well

Please find the enclosed draft permit that was public noticed on January 20, 1998. The public comment period thus expires on Feburary 19, 1998. Please review this permit in its entirety to familiarize yourself with the conditions therein. We would like a written response from you indicating that you have reviewed the permit and are in agreement with the conditions therein. You may also provide comments and suggestions that will be considered before final issuance of the permit. We will not proceed to issue this permit until we have your written concurrence.

Please call Dennis Frederick at 801-538-6146 if you have any questions.

Sincerely,

Don A. Ostler, P.E.
Director

DAO:glj/fb
cc: Joseph B. Shaffer, Director, TriCounty Health Dept.
Representative Beverly Evans
Ted Allen, District Engineer
David Allin, Allin Proprietary
Douglas Minter, EPA Region VIII
Michael Georgeson, Utah Div.of Drinking Water
Utah Div. of Solid and Hazardous Waste
Utah Div. of Oil, Gas and Mining
Duchesne County Commissioners
Duchesne City
Jonas Grant, Northern Ute Indian Tribe
Patrick Padia, Northern Ute Indian Tribe
F:\WQ\PERMITS\DFREDERICK\WP\ENVIR.WPD

RECEIVED
MAR 17 1998
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SURETY BOND - FORM 4-A

#GB0367

KNOW ALL MEN BY THESE PRESENTS: *GAS, INC.

That we ENVIRO-TECH WELL SERVICE, INC. d/b/a COCONINO OIL &* (operator name) as Principal, and CONTRACTORS BONDING AND INSURANCE COMPANY (surety name) as Surety, duly authorized and qualified to do business in the State of Utah, are held and firmly bound unto the State of Utah in the sum of:

TWENTY THOUSAND AND 00/100 dollars ($20,000.00)

lawful money of the United States, payable to the Director of the Division of Oil, Gas and Mining, as agent of the State of Utah, for the use and benefit of the State of Utah for the faithful payment of which we bind ourselves, our heirs, executors, administrators and successors, jointly and severally by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, WHEREAS, the principal is or will be engaged in drilling, redrilling, deepening, repairing, operating, and plugging and abandonment a well or wells and restoring the well site or sites in the State of Utah for the purposes of oil or gas production and/or the injection and disposal of fluids in connection therewith for the following described land or well:

____ Blanket Bond: To cover all wells drilled in the State of Utah

X Individual Bond: Well No. BLUE BENCH DISPOSAL 13-1 43-013-30971

Section 13 Township 3 SOUTH Range 5 WEST

DUCHESNE County, Utah

NOW, THEREFORE, if the above bounden principal shall comply with all the provisions of the laws of the State of Utah and the rules, orders and requirements of the Board of Oil, Gas and Mining of the State of Utah, including, but not limited to the proper plugging and abandonment of wells and well site restoration, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

IN TESTIMONY WHEREOF, said Principal has hereunto subscribed his or their names or has caused this instrument to be signed by its duly authorized officers and its corporate seal to be affixed this

20th day of NOVEMBER, 1997.

(Seal)

ENVIRO-TECH WELL SERVICES INC. d/b/a COCONINO OIL & GAS, INC.
Principal

By [signature] - CEO
Name and Title

IN TESTIMONY WHEREOF, said Surety has caused this instrument to be signed by its duly authorized officers and its corporate seal to be affixed this 20th day of NOVEMBER, 19 97.

(Seal)

CONTRACTORS BONDING AND INSURANCE COMPANY
Surety (Attach Power of Attorney)

By [signature]
Name and Title
Susan A. Sallada, Attorney-in-Fact
501 OFFICE CENTER DRIVE
Surety's Mailing Address
FT WASHINGTON PA 19034

(3/89)

BONDS cbic INSURANCE

LIMITED POWER OF ATTORNEY

Not Valid for Bonds
Executed On or After: June 30, 1999

Power of Attorney
Number: 529397

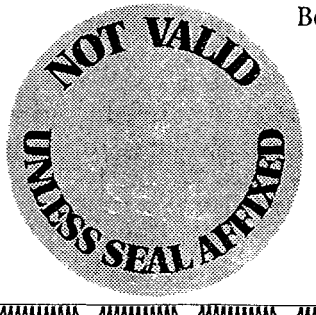
READ CAREFULLY — to be used only with the bond specified herein

A valid original of this document must be printed on security paper with black, blue, and red ink, and must bear the raised seal of Contractors Bonding and Insurance Company (the "Company"). Only an unaltered original of this power of attorney is valid. If a photocopy, the word "VOID" should appear clearly in one or more places. This Power of Attorney is valid solely in connection with the execution and delivery of the bond bearing the number indicated below, provided the bond is of the type indicated below, and is valid only if the bond is executed on or before the date indicated above.

KNOW ALL MEN BY THESE PRESENTS, that the Company does hereby make, constitute and appoint the following: SUSAN A. SALLADA, JOHN G. WEISBROT and THEA S. SCHEMM its true and lawful Attorney(s)-in-Fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver: (1) SBA guaranteed performance and payment bonds not exceeding the penal sum of $1,250,000; (2) bid bonds for jobs where, if the contract is awarded, the SBA guaranteed performance and/or payment bond(s) will not exceed $1,250,000; (3) all other bonds coded or classified by the Surety Association of America Manual of Rules, Procedures and Classification for Fidelity /Forgery and Surety Bonds (including future amendments thereto) as Judicial, Contract (excluding bid bonds), Miscellaneous, License and Permit, and Federal not exceeding the penal sum of $3,500,000; (4) bid bonds for jobs written pursuant to the authority in clause (3) above where, if the contract is awarded, the performance and/or payment bond(s) will not exceed $3,500,000; (5) all other bonds not exceeding the penal sum of $500,000; and (6) consents, releases and other similar documents required by an obligee under a contract bonded by the Company. This appointment is made under the authority of the Board of Directors of the Company.

CERTIFICATE

I, the undersigned secretary of Contractors Bonding and Insurance Company, a Washington corporation, DO HEREBY CERTIFY that this Power of Attorney remains in full force and effect and has not been revoked, and, furthermore, that the resolutions of the Board of Directors set forth on the reverse are now in full force and effect.



Bond Number GB0367

Signed and sealed this 20th day of November 19 97 .

Kevin L. Lybeck, Secretary

CBIC • 1213 Valley Street • P.O. Box 9271 • Seattle, WA 98109-0271
(206) 622-7053 • (800) 765-CBIC (National) • (206) 382-9623 FAX

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
Lowell P. Braxton
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

UTAH DIVISION OF OIL, GAS AND MINING
FACSIMILE COVER SHEET

DATE: AUGUST 25, 1998

FAX#: (435)722-4048

ATTN: CRAIG PHILLIPS

COMPANY: UINTA OIL & GAS

DEPARTMENT:

NUMBER OF PAGES: (INCLUDING THIS ONE) 3

From: LISHA CORDOVA

If you do not receive all of the pages, or if they are illegible, please call (801)538-5340.
We are sending from a sharp facsimile machine. Our telecopier number is (801)359-3940.

MESSAGES:

* I did not get a signed sundry from Enviro-Tech. Both operators can sign off on the same one. Any add'l questions please call me at (801) 538-5296.

Important: This message is intended for the use of the individual or entity of which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. if you have recieved this communication in error, please notify us immediately by telephone and return this original message to us at the above address via regular postal service. Thank you.

P.01

TRANSACTION REPORT

JUL-09-98 WED 03:54 PM

SEND(M)

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
JUL-09	03:51 PM	15056255520	2'56"	5	SEND	(M) OK	055	
		TOTAL	2M 56S	PAGES:	5			

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt, Governor
Ted Stewart, Executive Director
Lowell P. Braxton, Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

UTAH DIVISION OF OIL, GAS AND MINING
FACSIMILE COVER SHEET

DATE: JULY 9, 1998

FAX#: (505)625-5520

ATTN: DERRY MOORE

COMPANY: ENVIRO-TECH COCONINO OIL & GAS INC.

DEPARTMENT:

NUMBER OF PAGES: (INCLUDING THIS ONE) 5

From: LISHA CORDOVA

Req. Op. chg. sundries. & mo. reports 1-6/98. & WC F5 signed by C. Phillips.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

RECEIVED
JUL 2 1998
DIV OF OIL, GAS & MINING

Well name and number: Blue Bench Disposal 13-1
Field or Unit name: _____ API no. 43-013-30971
Well location: QQ NE NE section 13 township 3S range 5W county Duchesne
Effective Date of Transfer: 11-1-97

CURRENT OPERATOR

Transfer approved by:
Name Craig Phillips Company Vinta Oil & Gas
Signature _____ Address _____
Title _____
Date _____ Phone ( ) _____
Comments:

NEW OPERATOR

Transfer approved by:
Name Derry Moore Company Enviro-Tech Consulting Oil & Gas Inc.
Signature Derry Moore Address P.O. Box 2366-159
Title President Roswell, N.M. 88201
Date 4-18-98 Phone (505) 623-5553
Comments:

(State use only)
Transfer approved by _____ Title _____
Approval Date _____

(3/89)

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:

6. If Indian, Allottee or Tribe Name: N/A

7. Unit Agreement Name: N/A

1. Type of Well: OIL ☐ GAS ☐ OTHER: DISPOSAL

8. Well Name and Number: 13-1

2. Name of Operator: UINTA OIL & GAS INC

9. API Well Number: 43-013-30971

3. Address and Telephone Number: PO BOX 1618 ROOSEVELT UT 84066 801-722-3000

10. Field and Pool, or Wildcat

4. Location of Well
Footages:
QQ, Sec., T., R., M.: NENE-13 3S 5W

County: DUCHESNE
State: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
☐ Abandon	☐ New Construction	☐ Abandon *	☐ New Construction
☐ Repair Casing	☐ Pull or Alter Casing	☐ Repair Casing	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recomplete	☐ Change of Plans	☐ Reperforate
☐ Convert to Injection	☐ Reperforate	☐ Convert to Injection	☐ Vent or Flare
☐ Fracture Treat or Acidize	☐ Vent or Flare	☐ Fracture Treat or Acidize	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☐ Other	
☐ Other CHANGE OF OPERATOR			

Approximate date work will start: _____

Date of work completion: _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

UINTA OIL & GAS INC RELINQUISHES OPERATORSHIP TO ENVIROTEC INC COCONINO OIL & GAS INC EFFECTIVE 4-18-98

RECEIVED
AUG 25 1998
DIV OF OIL, GAS & MINING

13.
Name & Signature: UINTA OIL & GAS INC Title: PRES Date: 8-24-98

(This space for State use only)

(4/94)

See Instructions on Reverse Side

UINTA OIL & GAS, INC.
P.O. BOX 1618
ROOSEVELT, UTAH 84066
435-722-3000, FAX 722-9009

TO STATE OF UTAH
DIVISION OF OIL & GAS

ATTN: LISHA CORDOVA

THANKS FOR THE HELP

RECEIVED
AUG 25 1998
DIV OF OIL, GAS & MINING

Corey Phillips

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

RECEIVED
AUG 25 1998
DIV OF OIL, GAS & MINING

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: Blue Bench Disposal 13-1
Field or Unit name: _____ API no. 43-013-30971
Well location: QQ NE NE section 13 township 3S range 5W county Duchesne
Effective Date of Transfer: 11-1-97

CURRENT OPERATOR

Transfer approved by:
Name Craig Phillips Company Vinta Oil & Gas
Signature [signature] Address PO Box 1618
Title Pres
Date 11-98 eff. Phone 801, 722-3000
Comments:

NEW OPERATOR

Transfer approved by:
Name Derry Moore Company Enviro-Tech Coconino Oil & Gas Inc.
Signature [signature] Address P.O. Box 2366-159
Title President Roswell, N.M. 88201
Date 4-18-98 Phone (505) 623-5853
Comments:

(State use only)
Transfer approved by _____ Title _____
Approval Date _____

(3/89)

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

August 31, 1998

Derry Moore
Enviro-Tech Well Services Inc.
dba Coconino Oil & Gas Inc.
P. O. Box 2366-159
Roswell, New Mexico 88201

Re: Notification of Sale or Transfer of Fee Lease Interest

The Division has received notification of a change of operator from Uinta Oil & Gas to Enviro-Tech Well Services Inc. dba Coconino Oil & Gas Inc. ("Enviro-Tech/Coconino") for the following well which is located on a fee lease:

Well Name	Sec.-T.-R.	API Number
Blue Bench 13-1(WDW)	13-03S-05W	43-013-30971

Utah Administrative Rule R649-2-10 states; the owner of a lease shall provide notification to any person with an interest in such lease, when all or part of that interest in the lease is sold or transferred.

This letter is written to advise Enviro-Tech/Coconino of its responsibility to notify all individuals with an interest in this lease (royalty interest and working interest) of the change of operator. Please provide written documentation of this notification to:

Utah Royalty Owners Association
Box 1292
Roosevelt, Utah 84066

Your assistance in this matter is appreciated.

Sincerely,

Lisha Cordova

Lisha Cordova
Engineering Technician

cc: Uinta Oil & Gas
Utah Royalty Owners Association, Stephen Evans
John R. Baza, Associate Director
Operator File(s)

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

Routing:	
1-LEC	6-LEC
2-GLH	7-KAS
3-DTS	8-SJ
4-VLD (CDW)	9-FILE
5-JRB	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

XX☐ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed, **effective:** 4-18-98

TO: (new operator)	(ENVIRO-TECH/COCONINO)	**FROM:** (old operator)	UINTA OIL & GAS
(address)	ENVIRO-TECH WELL SVS INC	(address)	PO BOX 1618
	DBA COCONINO OIL & GAS INC		ROOSEVELT UT 84066
	PO BOX 2366-159		CRAIG PHILLIPS
	ROSWELL NM 88201		Phone: (435)722-3000
	Phone: (505)623-5853		Account no. N2945
	Account no. N5935 (8-31-98)		
	ATTN: DERRY MOORE		

WELL(S) attach additional page if needed: *WDW

Name:	*BLUE BENCH 13-1/GRRV	API:	43-013-30971	Entity:	10812	S 13	T 3S	R 5W	Lease:	FEE	
Name:		API:		Entity:		S	T	R	Lease:		
Name:		API:		Entity:		S	T	R	Lease:		
Name:		API:		Entity:		S	T	R	Lease:		
Name:		API:		Entity:		S	T	R	Lease:		
Name:		API:		Entity:		S	T	R	Lease:		
Name:		API:		Entity:		S	T	R	Lease:		

OPERATOR CHANGE DOCUMENTATION

LEC 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). (Rec'd 8-25-98)

LEC 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). (Rec'd 7-2-98)

LEC 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company **registered with the state?** (yes/no) ____ If yes, show company file number: Enviro-Tech # C0167888 eff. 1-20-93, Coconino O&G (#C0200439 eff. 5-14-98.

N/A/LEC 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of **steps 5 through 9** below.

LEC 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. (8-31-98)

LEC 6. **Cardex** file has been updated for each well listed above. (8-31-98)

N/A/LEC 7. Well **file labels** have been updated for each well listed above. * New Filing System.

LEC 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. (8-31-98)

LEC 9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

c:\dons\wpdocs\forms\operchng

OPERATOR CHANGE WORKSHEET (continued) - Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

Lec 1. (r649-8-7) **Entity assignments have been reviewed** for all wells listed above. Were entity changes made? (yes/no) ____ If entity assignments were changed, attach copies of Form 6, Entity Action Form.

N/A/Lec 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been **notified** through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY) Surety No. 6B0367 (20,000) "Contractors Bonding & Ins. Co."

Lec 1. (r649-3-1) The **NEW** operator of any fee lease well listed above has furnished a proper bond.

Lec 2. A **copy of this form** has been placed in the new and former operator's bond files.

Lec 3. The **FORMER** operator has requested a release of liability from their bond (yes/no) ____, as of today's date Aug. 31, 1998. If yes, division response was made to this request by letter dated ____.

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

N/A/Lec 1. Copies of documents have been sent on ____ to ____ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.

Lec 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated Aug. 31, 1998, of their responsibility to notify all interest owners of this change.

FILMING

__ 1. All attachments to this form have been **microfilmed**. Today's date: ____.

FILING

__ 1. **Copies** of all attachments to this form have been filed in each **well file**.

__ 2. The **original of this form**, and the **original attachments** are now being filed in the Operator Change file.

COMMENTS

980831 attempted to get oper. chg. from Wiola O&G from 3/98 to current.

980831 Aprv. oper. chg. only; not transfer of authority to inject per CH.

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

Michael O. Leavitt
Governor

Lowell P. Braxton
Division Director

September 2, 1998

Enviro-Tech Well Services Inc.
dba Coconino Oil & Gas Inc.
P.O. Box 2366-159
Roswell, New Mexico 88201

Re: Transfer of Authority to Inject, Class II Permit, Blue Bench 13-1 Well, Section 13, Township 3 South, Range 5 West, Duchesne County, Utah

Gentlemen:

The Division has accepted the change of operator from Uinta Oil & Gas to Enviro-Tech Well Services Inc. for the referenced well. We are also in receipt of a request for transfer of authority to inject for the above referenced well, from Uinta Oil & Gas to Enviro-Tech Well Services Inc. This letter is being sent to inform you that we are considering the denial of this request in light of the following facts and actions:

1. The Utah Division of Water Quality has issued a Class V injection permit for the same well which would allow injection of similar fluids. This action renders the Class II permit redundant and unnecessary. Regulation of this facility by two State agencies would be awkward and difficult for all involved.

2. The well was recently plugged back without any notification to and/or approval from this Division for which the operator at that time, Uinta Oil & Gas, was issued a Notice of Violation. This does not show good operatorship by either company.

3. The mixing of RCRA exempt wastes with non-exempt wastes, which are not allowable under a Class II injection permit, is probably best regulated under a Class V permit with the Division of Water Quality only.

4. The well bore configuration, operation and thus the information originally approved by this Division for the Class II permit has substantially changed.

If you would like to discuss this action and/or provide additional information which would be important in determining whether this permit should be transferred, please contact this office.

Sincerely,

Gil Hunt
Technical Services Manager

lwp
cc: Division of Water Quality
Uinta Oil and Gas
John Baza

State of Utah

DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WATER QUALITY

288 North 1460 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870
(801) 538-6146
(801) 538-6016 Fax
(801) 536-4414 T.D.D.
www.deq.state.ut.us Web

Michael O. Leavitt
Governor
Dianne R. Nielson, Ph.D.
Executive Director
Don A. Ostler, P.E.
Director

Water Quality Board
Leroy H. Wullstein, Ph.D.
Chairman
R. Rex Ausburn, P.E.
Vice Chairman
Robert G. Adams
Nan Bunker
John R. Cushing, Mayor
Dianne R. Nielson, Ph.D.
K.C. Shaw, P.E.
Ronald C. Sims, Ph.D.
Douglas E. Thompson, Mayor
J. Ann Wechsler
William R. Williams
Don A. Ostler, P.E.
Executive Secretary

September 16, 1998

Mr. Robert Pettit
2040 E. Murray Holladay Road - Suite 210
Salt Lake City, Utah 84117

Dear Mr. Pettit:

Subject: Enviro-Tech's Proposal Dated August 21, 1998 for Running a Mechanical Integrity Test (MIT) on the Blue Bench 13-1 Class V Injection Well (Temperature Log and a Radioactive Tracer Survey); Enviro-Tech Class V Permit UTU500004.

We have reviewed the two MIT procedures noted above and hereby approve them as submitted, contingent upon the inclusion of the following requirements:

TEMPERATURE LOG:

1) Prior to the 24 hour shut-in, the annulus must be filled with water to the surface (must contain non-toxic corrosion inhibitors).

2) The logging speed must not exceed 30 feet/minute.

3) The 200 barrels of fresh water must be at surface ambient temperature or cooler.

4) The injection rate/pressure during the injection of the 200 barrels of water shall be equal to or greater than normal operating conditions, and shall be held as steady as possible.

RADIOACTIVE TRACER SURVEY (RATS):

1) The gamma-ray log shall be run no faster than 30 feet/minute.

2) The recorder vertical scale shall not be less than 5 inches per 100 feet.

3) The tracer used shall be radioactive iodine, with a half-life of 8 days.

In order to complete the MIT it will be necessary to run an annulus pressure test following the temperature log and RATS. The annulus pressure test requirements are noted in the permit.

Please notify Jerry Jackson of this office at least two weeks prior to the intended running of the MIT procedures noted above. He also wants to be present during the down hole pressure test (@4100 feet), the injection zone fluid sampling events, and the depth to water/oil measurements.

Please call Mr. Jackson at 801-538-6146 if you have any questions.

Sincerely,

Utah Water Quality Board

Don A. Ostler, P.E.
Executive Secretary

DAO:glj/fb

cc: Joseph B. Shaffer, Dir., Tri-County HD
Douglas Minter, EPA Region VIII
Ted Allen, District Engineer
Gil Hunt, Utah Div. Of Oil, Gas and Mining

F:\WQ\PERMITS\GJACKSON\WPNE_TECH98.MIT
FILE:ENVIRO_TECH, INC/UIC

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

Michael O. Leavitt
Governor
Lowell P. Braxton
Division Director

September 23, 1998

Uinta Oil & Gas
P.O. Box 1618
Roosevelt, Utah 84066

Re: Transfer of Authority to Inject, Class II Permit, Blue Bench 13-1 Well, Section 13, Township 3 South, Range 5 West, Duchesne County, Utah 43-013-30971

Gentlemen:

The Division is denying the request for transfer of authority to inject for the above referenced well. The reasons for this denial are outlined in our letter of September 2, 1998 (copy enclosed). As of this date the Division no longer considers this well and current operator to have a valid Class II injection permit and have removed it from our inventory of approved Class II injection wells.

If you have questions concerning this action, please contact this office.

Sincerely,

Gil Hunt
Technical Services Manager

lwp
Enclosure

cc: Enviro-Tech Well Services Inc.
Dan Jackson, U.S. EPA
Utah Division of Water Quality
John R. Baza

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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September 2, 1998

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dba Coconino Oil & Gas Inc.
P.O. Box 2366-159
Roswell, New Mexico 88201

Re: Transfer of Authority to Inject, Class II Permit, Blue Bench 13-1 Well, Section 13, Township 3 South, Range 5 West, Duchesne County, Utah

43-013-30971

Gentlemen:

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2. The well was recently plugged back without any notification to and/or approval from this Division for which the operator at that time, Uinta Oil & Gas, was issued a Notice of Violation. This does not show good operatorship by either company.

3. The mixing of RCRA exempt wastes with non-exempt wastes, which are not allowable under a Class II injection permit, is probably best regulated under a Class V permit with the Division of Water Quality only.

4. The well bore configuration, operation and thus the information originally approved by this Division for the Class II permit has substantially changed.

If you would like to discuss this action and/or provide additional information which would be important in determining whether this permit should be transferred, please contact this office.

Sincerely,

Gil Hunt
Technical Services Manager

lwp
cc: Division of Water Quality
Uinta Oil and Gas
John Baza

From: Don Staley
To: GHUNT
Date: 9/25/98 8:09am
Subject: Blue Bench 13-1 Well -Reply

43-013-30971

Gil,

I have entered a comment in 3270 showing this well changed from class II to class V, and stated that the well is not regulated by UIC. Otherwise, we will continue to show the well as a water disposal well until you tell us otherwise.

Don

>>> Gil Hunt 09/24/98 09:57am >>>
We have a very unique situation with this well. It has been permitted by DEQ as a Class V injection well. I have denied the Transfer of Authority to inject for the Class II permit with us. I changed the welltype in our uic dbase program to INJSD for a shutin disposal well. I don't know what you will want to carry it as in the oil and gas system. I guess you could just leave it as a disposal well because that is what it is, it just isn't regulated by our UIC program. If you have questions about this let's discuss it. Thanks.
Gil

CC: lcordova, krisbeck, cdaniels

PRODUCTION LOGGING SERVICES, INC.

PRESSURE GRADIENT SURVEY

COMPANY : ENVIRO-TECH
FIELD.....: BLUE BENCH
WELL.....:BLUE BENCH DISPOSAL 13-1
DATE.....: 09/26/98

****
* PRODUCTION LOGGING SERVICES, INC. *
* VERNAL, UTAH 84078 *
* (801) 789-6940 *
****

COMPANY NAME	ENVIRO-TECH
DATE	09/26/98
WELL I.D.	BLUE BENCH DISPOSAL 13-1
FIELD I.D.	BLUE BENCH
ENGINEER	ANDREWS
==========	
K.B. ELEVATION	N/A
G.L. ELEVATION	N/A
DATUM	N/A
CASING SIZE	7" 29#
TOP PERF	4106.00
BOTTOM PERF	6090.00
NET SAND THICKNESS .	N/A
==========	
BOMB HUNG AT	4100.00
FLUID GRADIENT	N/A
INJECTION RATE	N/A
INJECTION PRESSURE .	N/A
PRESSURE AT SWI	N/A
PRESSURE AT EOS	N/A

COMMENTS..... MADE 100' GRADIENT STOPS.

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

```
*****************************************
*  PRODUCTION LOGGING SERVICES, INC.    *
*          VERNAL, UTAH  84078          *
*            (801) 789-6940             *
*****************************************
```

COMPANY NAME..: ENVIRO-TECH
DATE .....: 09/26/98
WELL I.D. ....: BLUE BENCH DISPOSAL 13-1
FIELD I.D. ...: BLUE BENCH
RUN # .....: 1
ENGINEER .....: ANDREWS
ZERO REFERENCE: SURFACE
START DATE ...: 09/26/98
START TIME ...: 08:41:47
WELL STATUS...: SHUT-IN
GAUGE INFO:
  I.D. .....: -----
  SERIAL #....: -----
  RANGE.....: -----

COMMENTS .....: GAUGE RAN TO 4100'

FILE # .....: 10

NO.	DEPTH FEET	dD	PRESSURE PSIA	dP	GRADIENT
1	4100.0000	+0.0000	1850.8500	+0.000	+0.000
2	4000.0000	-100.0000	1807.9700	-42.880	+0.429
3	3900.0000	-100.0000	1765.3100	-42.660	+0.427
4	3800.0000	-100.0000	1724.3300	-40.980	+0.410
5	3700.0000	-100.0000	1682.5800	-41.750	+0.417
6	3600.0000	-100.0000	1641.3700	-41.210	+0.412
7	3500.0000	-100.0000	1599.6900	-41.680	+0.417
8	3400.0000	-100.0000	1557.7700	-41.920	+0.419
9	3300.0000	-100.0000	1515.1500	-42.620	+0.426
10	3200.0000	-100.0000	1472.4900	-42.660	+0.427
11	3100.0000	-100.0000	1429.6600	-42.830	+0.428
12	3000.0000	-100.0000	1386.9000	-42.760	+0.428
13	2900.0000	-100.0000	1343.4800	-43.420	+0.434
14	2800.0000	-100.0000	1300.2000	-43.280	+0.433
15	2700.0000	-100.0000	1256.4900	-43.710	+0.437
16	2600.0000	-100.0000	1214.4400	-42.050	+0.421
17	2500.0000	-100.0000	1170.2900	-44.150	+0.442
18	2400.0000	-100.0000	1126.7300	-43.560	+0.436
19	2300.0000	-100.0000	1083.0700	-43.660	+0.437
20	2200.0000	-100.0000	1039.6400	-43.430	+0.434
21	2100.0000	-100.0000	996.9300	-42.710	+0.427
22	2000.0000	-100.0000	952.8000	-44.130	+0.441
23	1900.0000	-100.0000	909.4600	-43.340	+0.433
24	1800.0000	-100.0000	865.9200	-43.540	+0.435
25	1700.0000	-100.0000	821.5600	-44.360	+0.444
26	1600.0000	-100.0000	778.4800	-43.080	+0.431
27	1500.0000	-100.0000	735.5100	-42.970	+0.430
28	1400.0000	-100.0000	691.8200	-43.690	+0.437
29	1300.0000	-100.0000	648.0700	-43.750	+0.438
30	1200.0000	-100.0000	605.3800	-42.690	+0.427
31	1100.0000	-100.0000	560.6000	-44.780	+0.448
32	1000.0000	-100.0000	516.9000	-43.700	+0.437
33	900.0000	-100.0000	473.4700	-43.430	+0.434

****
* PRODUCTION LOGGING SERVICES, INC. *
****

Company ..: ENVIRO-TECH
Well I.D..: BLUE BENCH DISPOSAL 13-1
Field I.D.: BLUE BENCH

Date: 09/26/98
Run#: 1
Page: 3

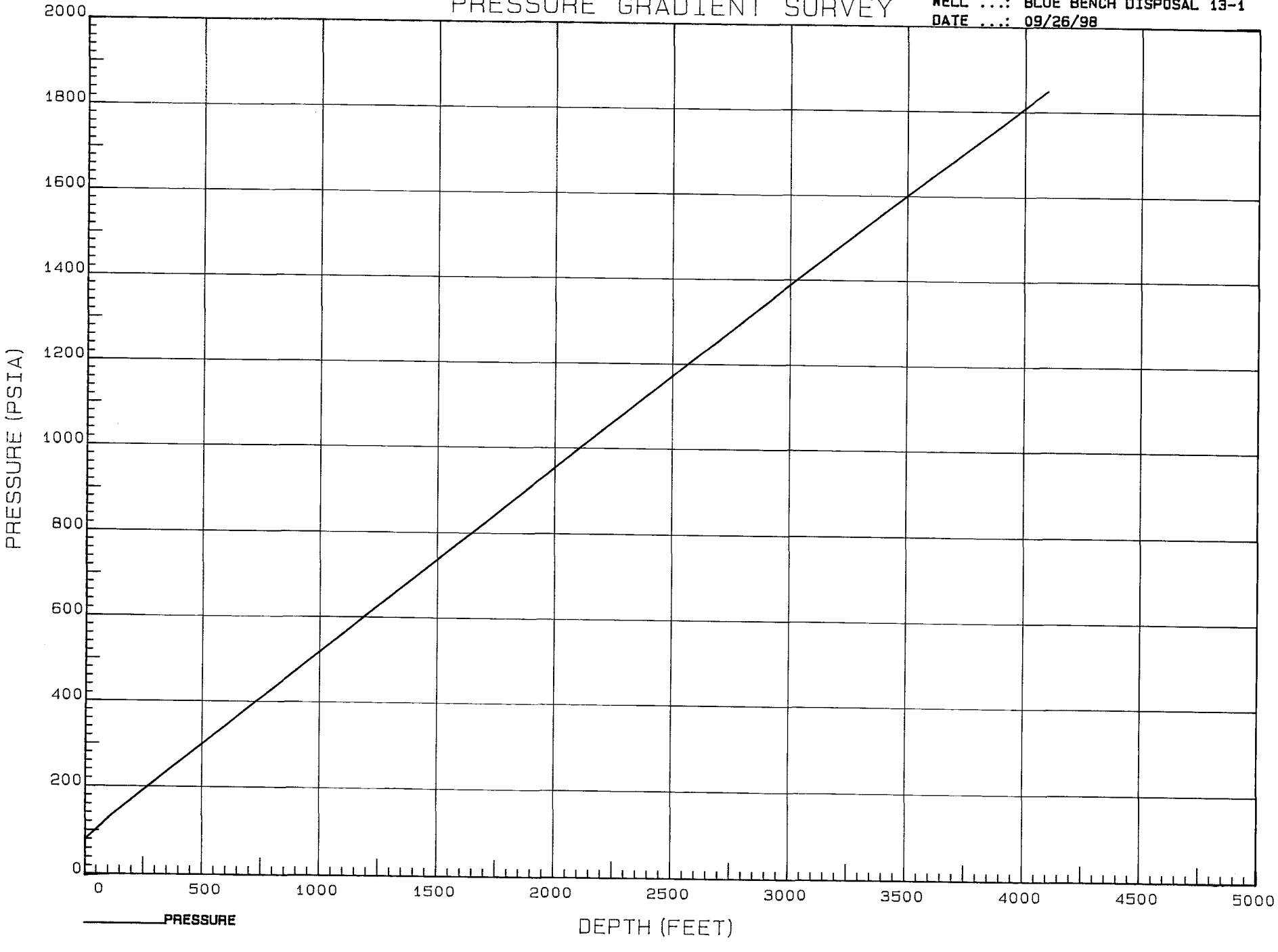
NO.	DEPTH FEET	dD	PRESSURE PSIA	dP	GRADIENT
34	800.0000	-100.0000	429.5100	-43.960	+0.440
35	700.0000	-100.0000	386.8600	-42.650	+0.426
36	600.0000	-100.0000	342.5900	-44.270	+0.443
37	500.0000	-100.0000	299.1100	-43.480	+0.435
38	400.0000	-100.0000	255.9900	-43.120	+0.431
39	300.0000	-100.0000	212.2500	-43.740	+0.437
40	200.0000	-100.0000	169.3500	-42.900	+0.429
41	100.0000	-100.0000	125.6000	-43.750	+0.438
42	0.0000	-100.0000	77.0300	-48.570	+0.486

***** end data *****

PRODUCTION LOGGING SERVICES, INC.
P.O. BOX 1043 / RANGELY, COLORADO 81648
(801) 789-6940

COMPANY : ENVIRO-TECH
FIELD ..: BLUE BENCH
WELL ...: BLUE BENCH DISPOSAL 13-1
DATE ...: 09/26/98

PRESSURE GRADIENT SURVEY



DIRECTORY OF DISKETTE

FILE NAME	DESCRIPTION
BLUE131.ASC	ASCII FILE OF ALL PRESSURE DATA (SAME AS REPORT)
BLUE131.PRN	ASCII FILE OF PRESSURE AND TIME ONLY (TIME, PRESSURE)
ENVIRO.OUT	RAW DATA FROM GAUGE

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

UIC-233

RECEIVED
1998
DIV. OF OIL, GAS & MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

43-013-30971

OPERATOR ENVIRO-TEC, INC.
ADDRESS 1015 East 3900 South
Salt Lake City, Utah 84124

Well name and number: Blue Bench Disposal Well # 13-1

Field or Unit name: Blue Bench Lease no. _____

Well location: QQ ____ section 13 township 3S range 5W county Duchesne

Is this application for expansion of an existing project? . . Yes [ ] No [X]

Will the proposed well be used for: Enhanced Recovery? . . Yes [ ] No [X]
Disposal? .class 11 Yes [X] No [ ]
Storage? . . . . . Yes [ ] No [X]

Is this application for a new well to be drilled? . . . . . Yes [ ] No [X]

If this application is for an existing well,
has a casing test been performed on the well? . . . . . Yes [X] No [ ]
Date of test: 9/23/98
API number: 43-013-30971 EPA Permit #UT2582-03533

Proposed injection interval: from 7467 / 4106 to 7529 / 6090

Proposed maximum injection: rate 5 bpm pressure 775 psig

Proposed injection zone contains [X] oil, [X] gas, and/or [ ] fresh water within ¼ mile of the well.

IMPORTANT: Additional information as required by R615-5-2 should accompany this form.

List of Attachments: Well Bore Schematic, Casing Test Logs, Gamma-Ray & R/A Tracer, Annulus Test to 1000 PSI. (Witnessed by Jerry Jackson)

I certify that this report is true and complete to the best of my knowledge.

Name Olin Glover Signature _____
Title V.P. Operations Date 10/6/1998
Phone No. (435) 722-8745

(State use only)
Application approved by _____ Title _____
Approval Date _____

Comments:

(3/89)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

RECEIVED
OCT 09 1998
DIV. OF OIL, GAS & MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR ENVIRO-TEC, INC.
ADDRESS 1015 East 3900 South
Salt Lake City, Utah 84124

43-013-30971

Well name and number: Blue Bench Disposal Well # 13-1

Field or Unit name: Blue Bench Lease no. _____

Well location: QQ ____ section 13 township 3S range 5W county Duchesne

Is this application for expansion of an existing project? . . Yes [ ] No [X]

Will the proposed well be used for: Enhanced Recovery? . . Yes [ ] No [X]
Disposal? .class II Yes [X] No [ ]
Storage? . . . . . Yes [ ] No [X]

Is this application for a new well to be drilled? . . . . . Yes [ ] No [X]

If this application is for an existing well,
has a casing test been performed on the well? . . . . . Yes [X] No [ ]
Date of test: 9/23/98
API number: 43-013-30971 EPA Permit #UT2582-03533

Proposed injection interval: from 7467 / 4106 to 7529 / 6090

Proposed maximum injection: rate 5 bpm pressure 775 psig

Proposed injection zone contains [X] oil, [X] gas, and/or [ ] fresh water within ½ mile of the well.

IMPORTANT: Additional information as required by R615-5-2 should accompany this form.

List of Attachments: Well Bore Schematic, Casing Test Logs, Gamma-Ray & R/A Tracer, Annulus Test to 1000 PSI. (Witnessed by Jerry Jackson)

I certify that this report is true and complete to the best of my knowledge.

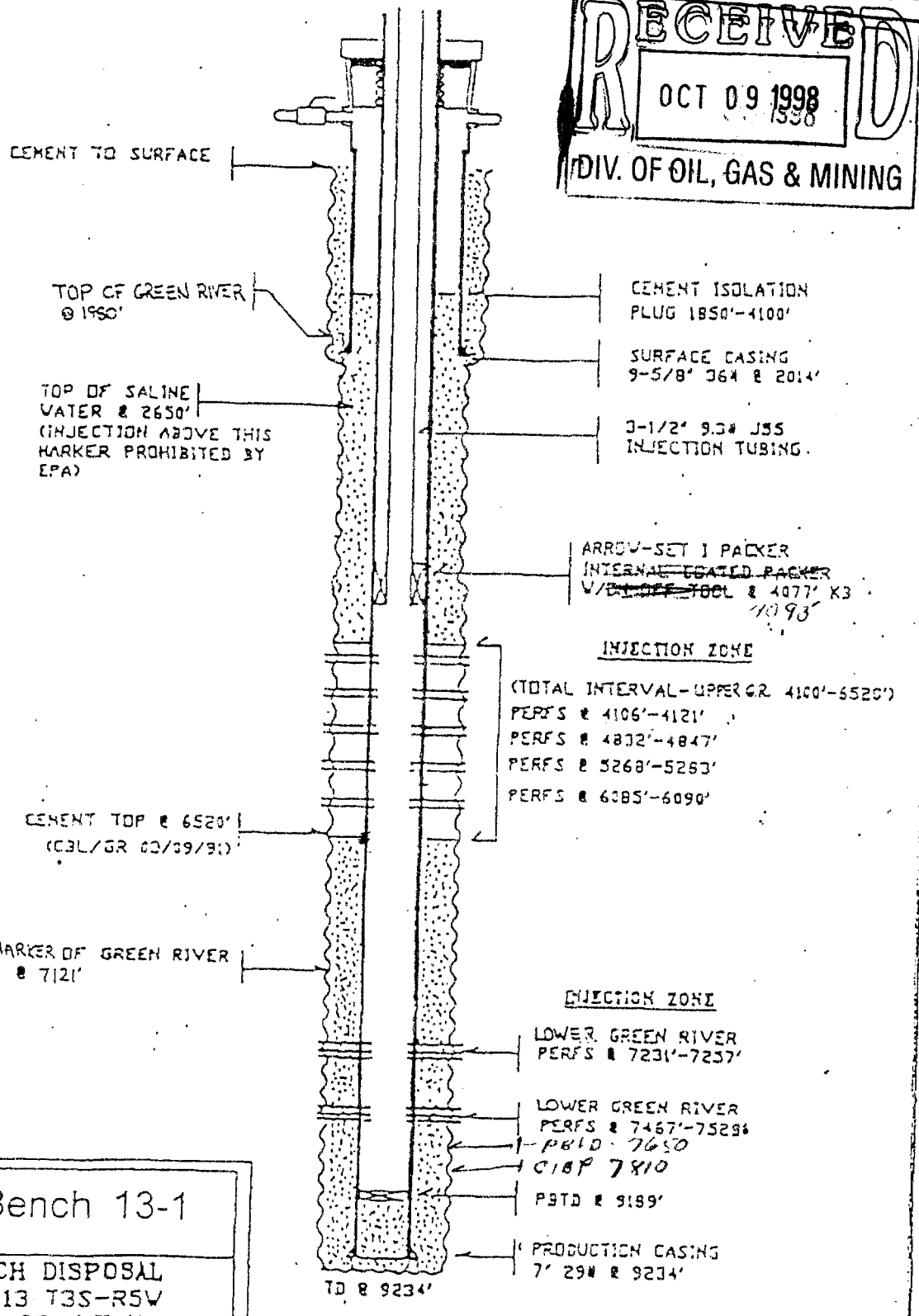
Name Olin Glover Signature _____
Title V.P. Operations Date 10/6/1998
Phone No. (435) 722-8745

(State use only)
Application approved by _____ Title _____
Approval Date _____

Comments:

(3/89)

RECEIVED
OCT 09 1998
DIV. OF OIL, GAS & MINING



Blue Bench 13-1	
BLUE BENCH DISPOSAL NENE SEC 13 T3S-R5W DUCHESNE CO, UTAH	
DRAWN BY: DCT	DATE: MAY 12, 1992
WELLBORE SCHEMATIC AS OF NOVEMBER 1, 1991	

Figure 6A: Schematic

Recd. around Thursday 1/21/99 by Brad Hill

ENVIRO-TEC,INC.
1015 East 3900 South
Salt lake City,Utah 84124

State of Utah
Department of Natural Resources
Division of Oil- Gas and Mining

RE; Blue Bench Disposal 13-1 Section 13 Township 3 South, Range 5 West
Duchesne County, Utah

REF; R 649-5-2

2.1 Plat Attached To UIC Form-1 - Address only! 1 of [illegible] No surf. [illegible] in 1/2 mi. radius

2.2 Copies of all logs and Cement Bond logs are on file with the division - for 2.2 no logs but mud + CBL - for 2.3 there is nothing above 6194 (6-?) in the way of CBL info on logs on file

2.5 Discription of casing and proposed method of testing is on file with the Division..

2.6 thru 2.12 All documents on file with the division - 2.6 where? - 2.7 where? - 2.8 average is where? - 2.9 where? - 2.10 where?

2.13 The only change to well 13-1 since the original application and permit of Genesis Production Co. dated 5-1991

A- CIBP is set at 7650' and cemented on top w.o.c 48 hrs.
tag cement at.7750'

Please notify of any additional information or documents necessary to adequately review the application.

increase injection interval up to 3760 (346' higher ~~to~~ upper confining zone)

Sincerely

Olin Glover, Agent

435-722-8741 or 435 738 5388

OIL AND GAS

JRC	
RJK	
SLS	
GLH	
DTS	
IXEC	
~~JRBH~~	
CJK	
MICROFILM	
FILE	

359-3946

Date: 12/2/98
To:Mr. Kierst
From: Robert C. Pettit/Enviro-Tec
Subject: Class II Disposable Well
Number of pages including fax cover sheet: 3

Mr. Kierst, I have enclosed this letter dated August 31, 1998 that shows the notification of transfer from Uinta Oil and Gas to Enviro-Tec Well Service Inc. I will call this afternoon to discuss this with you and what I need to do for you to facilitate the obtaining of a Class II permit.

Thanks,

Robert C. Pettit

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

August 31, 1998

Derry Moore
Enviro-Tech Well Services Inc.
dba Coconino Oil & Gas Inc.
P. O. Box 2366-159
Roswell, New Mexico 88201

Re: Notification of Sale or Transfer of Fee Lease Interest

The Division has received notification of a change of operator from Uinta Oil & Gas to Enviro-Tech Well Services Inc. dba Coconino Oil & Gas Inc. ("Enviro-Tech/Coconino") for the following well which is located on a fee lease:

Well Name	Sec.-T.-R.	API Number
Blue Bench 13-1(WDW)	13-03S-05W	43-013-30971

Utah Administrative Rule R649-2-10 states; the owner of a lease shall provide notification to any person with an interest in such lease, when all or part of that interest in the lease is sold or transferred.

This letter is written to advise Enviro-Tech/Coconino of its responsibility to notify all individuals with an interest in this lease (royalty interest and working interest) of the change of operator. Please provide written documentation of this notification to:

Utah Royalty Owners Association
Box 1292
Roosevelt, Utah 84066

Your assistance in this matter is appreciated.

Sincerely,

Lisha Cordova

Lisha Cordova
Engineering Technician

cc: Uinta Oil & Gas
Utah Royalty Owners Association, Stephen Evans
John R. Baza, Associate Director
Operator File(s)

11/30/98

Fax Cover Sheet:
To: Mr. Kierst
From: Robert C. Pettit/Enviro-Tec
Total Pages including cover sheet: 3
Subject: Class II Injection Well Permit;

I have enclosed a copy of the Sundry Notices for Enviro-Tec. The well was under Uinta Oil and Gas but is now owned and operated by Enviro-Tec. All information concerning the well is still the same and is probably in the file for Unita Oil and Gas.

I will call to follow-up with you regarding this matter. If you have any questions please give me a call.

Best Regards,

Robert C. Pettit

State of Utah
Division of Oil, Gas and Mining

TRANSFER OF AUTHORITY TO INJECT - UIC Form 5

Well name and number: Blue Bench Disposal 13-1
Field or Unit name: _____ API no. 43-013-3097
Well location: QQ NE NE section 13 township 3S range 5W county Duchesne
Effective Date of Transfer: 11-1-97

CURRENT OPERATOR
Transfer approved by:
Name Craig Phillips Company Vinta Oil & Gas
Signature [signature] Address PO Box 168
Title Pres
Date 11-98 Eff. Phone 801, 722-3000
Comments:

NEW OPERATOR
Transfer approved by:
Name Terry Moore Company Enviro-Tech Consulting Oil & Gas Inc.
Signature [signature] Address P.O. Box 366-159
Title President Roswell, N.M. 88201
Date 11-15-98 Phone (505) 627-5553
Comments:

(State use only)
Transfer approved by _____ Title _____
Approval Date _____

Comments:

Form 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name: N/A

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

7. Unit Agreement Name: N/A

1. Type of Well: OIL ☐ GAS ☐ OTHER: DISPOSAL

8. Well Name and Number: 13-1

2. Name of Operator: UINTA OIL & GAS INC

9. API Well Number: 43-013-30971

3. Address and Telephone Number: PO BOX 1618 ROOSEVELT UT 84066 801-722-5000

10. Field and Pool, or Wildcat:

4. Location of Well
Footages:
QQ, Sec., T., R., M.: NENE-13 3S 5W

County: DUCHESNE
State: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
☐ Abandon	☐ New Construction	☐ Abandon *	☐ New Construction
☒ Repair Casing	☐ Pull or Alter Casing	☐ Repair Casing	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recomplete	☐ Change of Plans	☐ Reperforate
☐ Convert to Injection	☐ Reperforate	☐ Convert to Injection	☐ Vent or Flare
☐ Fracture Treat or Acidize	☐ Vent or Flare	☐ Fracture Treat or Acidize	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☐ Other	
☐ Other CHANGE OF OPERATOR			

Approximate date work will start: _____

Date of work completion: _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

UINTA OIL & GAS INC RELINQUISHES OPERATORSHIP TO ENVIROTEC INC COCONINO OIL & GAS INC EFFECTIVE 4-13-98

Name & Signature: UINTA OIL & GAS INC [signature] Title: PRES Date: 8-24-98

(This space for State use only)

See Instructions on Reverse Side

From: Gil Hunt
To: BHILL
Date: 11/10/98 5:31pm
Subject: Blue Bench SWD

Is anyone working on the Blue Bench 13-1 UIC application? If so have them call Robert Pettit at 860-3338.

Re-Permit Disposal Well

Check list of reqs
- tell them what is here & ask them to read reqs and provide the rest.

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

September 2, 1998

Enviro-Tech Well Services Inc.
dba Coconino Oil & Gas Inc.
P.O. Box 2366-159
Roswell, New Mexico 88201

Re: Transfer of Authority to Inject, Class II Permit, Blue Bench 13-1 Well, Section 13, Township 3 South, Range 5 West, Duchesne County, Utah

Gentlemen:

The Division has accepted the change of operator from Uinta Oil & Gas to Enviro-Tech Well Services Inc. for the referenced well. We are also in receipt of a request for transfer of authority to inject for the above referenced well, from Uinta Oil & Gas to Enviro-Tech Well Services Inc. This letter is being sent to inform you that we are considering the denial of this request in light of the following facts and actions:

1. The Utah Division of Water Quality has issued a Class V injection permit for the same well which would allow injection of similar fluids. This action renders the Class II permit redundant and unnecessary. Regulation of this facility by two State agencies would be awkward and difficult for all involved.

2. The well was recently plugged back without any notification to and/or approval from this Division for which the operator at that time, Uinta Oil & Gas, was issued a Notice of Violation. This does not show good operatorship by either company.

3. The mixing of RCRA exempt wastes with non-exempt wastes, which are not allowable under a Class II injection permit, is probably best regulated under a Class V permit with the Division of Water Quality only.

4. The well bore configuration, operation and thus the information originally approved by this Division for the Class II permit has substantially changed.

If you would like to discuss this action and/or provide additional information which would be important in determining whether this permit should be transferred, please contact this office.

Sincerely,

Gil Hunt
Technical Services Manager

lwp
cc: Division of Water Quality
Uinta Oil and Gas
John Baza

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
Lowell P. Braxton
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

September 23, 1998

Uinta Oil & Gas
P.O. Box 1618
Roosevelt, Utah 84066

Re: Transfer of Authority to Inject, Class II Permit, Blue Bench 13-1 Well, Section 13, Township 3 South, Range 5 West, Duchesne County, Utah

Gentlemen:

The Division is denying the request for transfer of authority to inject for the above referenced well. The reasons for this denial are outlined in our letter of September 2, 1998 (copy enclosed). As of this date the Division no longer considers this well and current operator to have a valid Class II injection permit and have removed it from our inventory of approved Class II injection wells.

If you have questions concerning this action, please contact this office.

Sincerely,

Gil Hunt
Technical Services Manager

lwp
Enclosure

cc: Enviro-Tech Well Services Inc.
Dan Jackson, U.S. EPA
Utah Division of Water Quality
John R. Baza

December 1, 1998

Enviro-Tech Well Services Inc.
dba Coconino Oil & Gas Inc.
P.O. Box 2366-159
Roswell, New mexico

Re: Application for Class II Injection Permit, Blue Bench 13-1 well, Section 13, Township 3 South, Range 5 West, Duchesne County, Utah

Gentlemen:

Thank you for the FAX'ed Sundry Notice and UIC Form 5 reference information of November 30, 1998 regarding the subject well. Please recall that the Transfer of Authority to Inject as a Class II well has previously been denied in the Division's letter to Uinta Oil & Gas dated September 23, 1998 and signed by Mr. Gil Hunt, Technical Services Manager, a copy of which was sent to Enviro-Tech. Nothing presented in the FAX merits a reconsideration of the denial of the Transfer .

On October 6, 1998 Enviro-Tech, Inc. applied for a new permit to inject as a Class II well by filing a UIC Form 1, Application for Injection Well, with the Division. An inventory of the information submitted with the filing revealed that insufficient information was provided to justify approval of the application. The required information is detailed in the subheadings under R649-5-2, Requirements for Class II Injection Wells Including Water Disposal, Storage And Enhanced Recovery Wells, of the Utah Administrative Code. The submitted Well Bore Schematic will satisfy part of subheading 2.5. The Acoustic Cement Bond Log already on file with the Department of Natural Resources Geological Library will satisfy part of subheading 2.2. It does not document the cement bond for the cased interval above 6196', an interval targeted for injection according to the filed UIC Form 1. We otherwise conclude that all informational requirements specified in the remaining subheadings are unsatisfied. We will need additional information before we can issue a Class II injection permit.

The Division of Oil, Gas & Mining understands that a previous application was made to the Division of Water Quality of the Department of Environmental Quality by Uinta Oil & Gas to obtain a Class V injection permit. Some portions of the Class V informational submission may also be germane to this application. If, after comparing the application informational requirements of both permit types, Enviro-Tech, Inc. finds that to be the case, it should feel free to copy those portions and submit them towards satisfying the remaining subheadings. In any case, we will need information satisfying all the subheadings before we can issue a Class II injection permit.

Sincerely,

Christopher J. Kierst
Reclamation Specialist III

cc: Dan Jackson, U.S. EPA
Utah Division Of Water Quality
John R. Baza

Rec'd. around Thursday 1/21/99 by Brad Hill

ENVIRO-TEC,INC.
1015 East 3900 South
Salt lake City,Utah 84124

State of Utah
Department of Natural Resources
Division of Oil- Gas and Mining

RE; Blue Bench Disposal 13-1 Section 13 Township 3 South, Range 5 West
Duchesne County, Utah

REF; R 649-5-2

2.1 Plat Attached To UIC Form-1 - Addresses 1st clause only! No surf. owners info in 1/2 mi. radius

2.2 Copies of all logs and Cement Bond logs are on file with the division - for 2.2 no logs but need + CBL - for 2.3 there is nothing above 6194 (6-?) in the way of CBL info on logs on file

2.5 Discription of casing and proposed method of testing is on file with the Division..

2.6 thru 2.12 All documents on file with the division - 2.6 where? - 2.7 where? - 2.8 average is where? - 2.9 where? - 2.10 where?

2.13 The only change to well 13-1 since the original application and permit of Genesis Production Co. dated 5-1991

A- CIBP is set at 7650' and cemented on top w.o.c 48 hrs.
tag cement at.7750'

Please notify of any additional information or documents necessary to adequately review the application.

increase injection interval up to 3760 (346' higher ~~into~~ upper confining zone)

Sincerely

Olin Glover, Agent

435-722-8741 or 435 738 5388

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Enviro-Tec, Inc.
ADDRESS 1015 East 3900 South
Salt Lake City, Utah 84124

Well name and number: Blue Bench Disposal #13-1

Field or Unit name: Altamont Lease no. _____

Well location: QQ NE-NE section 13 township 3S range 5 W county Duchesne

Is this application for expansion of an existing project? . . Yes [] No [X]

Will the proposed well be used for:
Enhanced Recovery? . . Yes [] No []
Disposal? . . . . . Yes [X] No []
Storage? . . . . . Yes [] No []

Is this application for a new well to be drilled? . . . . . Yes [] No [X]

If this application is for an existing well,
has a casing test been performed on the well? . . . . . Yes [X] No []
Date of test: 8/14/98
API number: 43-013-30971

per what unit of time?

Proposed injection interval: from 3760' to 7528'

Proposed maximum injection: rate 10,000BBL. pressure 1650 # (psig

Proposed injection zone contains [] oil, [] gas, and/or [] fresh water within ½ mile of the well.

IMPORTANT: Additional information as required by R6 49-5-2 should accompany this form.

List of Attachments: Permit with exhibits.

I certify that this report is true and complete to the best of my knowledge.

Name Olin Glover Signature [signature]
Title Agent Date 1-15-99
Phone No. (435) 738-5388 or (435) 722-8741

(State use only)
Application approved by _____ Title _____
Approval Date _____

Comments:

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

January 28, 1999

Enviro-Tec, Inc.
1015 East 3900 South
Salt Lake City, Utah 84124

Re: Application for Class II Injection Permit, Blue Bench 13-1 Well, Section 13, Township 3 South, Range 5 West, Duchesne County, Utah

Gentlemen:

Thank you for the re-submitted UIC Form 1, dated 1/15/99, with cover letter and attachments regarding the subject well. I inventoried the information submitted to date by Enviro-Tec and don't concur with the implication of satisfaction of the informational requirements for a complete UIC Form 1 filing as portrayed in the cover letter. The required information is detailed in the subheadings under R649-5-2, Requirements for Class II Injection Wells Including Water Disposal, Storage And Enhanced Recovery Wells, of the Utah Administrative Code. The following is my analysis of the completeness of Enviro-Tec's informational submittal to date:

Subheading	Commentary
2.0	Acceptable
2.1	The lately submitted plat satisfies the requirement for the injection well's location and that of all surrounding wells within a half mile radius, however, it lacks an identification of the surface owners and other operators within that same radius.
2.2	Acceptable
2.3	The Acoustic Cement Bond Log already on file with the Department of Natural Resources Geological Library will satisfy part of this subheading. It does not, however,

document the cement bond for the cased interval above 6196', an interval targeted for injection according to the filed UIC Form 1.

2.4 Acceptable

2.5 The submitted Well Bore Schematic will satisfy the part of the subheading requiring a description but not that with respect to the proposed method for testing the casing before use of the well.

2.6 I find that Enviro-Tec has submitted no statement regarding the type of fluid to be injected, its source and an estimate of the volume to be injected daily.

2.7 I find that Enviro-Tec has submitted no standard laboratory analyses of the fluid to be injected, the formation fluids or a statement regarding their compatibility.

2.8 A maximum injection pressure is available (on the UIC Form 1) but the required proposed average injection pressure is not stated anywhere.

2.9 I find that Enviro-Tec has submitted no geophysical data in support of a finding that the operations will not initiate fracturing eventuating the behind-casing contamination of suprajacent fresh water aquifers.

2.10 I find that Enviro-Tec has submitted insufficient appropriate geological data to geologically document the nature and lateral extent of the injection interval, confining beds and structure in the area of the injection well. Relevant geologic cross sections and maps would help in this regard.

2.11 Not a factor at this location.

2.12 No affidavit is included certifying that a copy of the application has been provided to all operators, owners and surface owners (if such as these do exist) within a one-half mile radius of the proposed injection well.

We conclude that additional informational submissions are necessary until the specified subheadings are satisfied before we can issue a Class II Injection Well permit.

The Division of Oil, Gas & Mining understands that a previous application was made to the Division of Water Quality of the Department of Environmental Quality to obtain a Class V Injection Well permit. Some portions of the Class V informational submission may also be germane to this application. If, after comparing the application informational requirements of both permit types, Enviro-Tec, Inc. finds that to be the case, it should feel free to copy those portions and submit them to this Division, under its name, towards satisfying the requirements of the subheadings for a Class II Injection Well permit. In any case, we will need information satisfying all the subheadings before we can issue a Class II Injection Well permit and mere reference to documents and data submitted by another operator for another class of injection well permit by another state agency will not prove fruitful to that end. If additional information is needed please feel free to contact me at (801) 538-5337.

Sincerely,

Christopher J. Kierst

Christopher J. Kierst
Reclamation Specialist III

State of Utah
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WATER QUALITY

288 North 1460 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870
(801) 538-6146
(801) 538-6016 Fax
(801) 536-4414 T.D.D.
www.deq.state.ut.us Web

Michael O. Leavitt
Governor
Dianne R. Nielson, Ph.D.
Executive Director
Don A. Ostler, P.E.
Director

Water Quality Board
Leroy H. Wullstein, Ph.D.
Chairman
R. Rex Ausburn, P.E.
Vice Chairman
Robert G. Adams
Nan Bunker
John R. Cushing, Mayor
Dianne R. Nielson, Ph.D.
K.C. Shaw, P.E.
Ronald C. Sims, Ph.D.
Douglas E. Thompson, Mayor
J. Ann Wechsler
William R. Williams
Don A. Ostler, P.E.
Executive Secretary

February 9, 1999

Robert C. Pettit, President
Enviro-Tec, Inc.
1015 East 3900 South
Salt Lake City, Utah 84124

Dear Mr. Pettit:

Subject: Proof of Financial Responsibility for Plugging and Abandonment of Blue Bench 13-1 Class V Injection Well; UIC Permit UTU500004.

Pursuant to our February 5, 1999 discussion regarding the above, one way of meeting the plugging and abandonment financial responsibility requirements for Blue Bench 13-1 is to change the wording of the current bond(s) and any associated standby trust agreement(s) to include reference to the Utah Water Quality Board in the appropriate places. Approval of the modified bond(s)/standby trust agreement(s) is contingent upon the bond face value being equal to or greater than the plugging and abandonment estimate. This estimate and the associated plugging and abandonment plan still must be approved by this office, and must include proper disposal of any residual wastes remaining on the surface as well as a 10% contingency and a 3%/year (X 5 years) inflation factor.

Please call Jerry Jackson at 801-538-6146 if you have any questions.

Sincerely,

Dennis Frederick, Manager
Ground Water Protection Section

DF:glj/fb

cc: Gil Hunt, DOGM

P:\WQ\PERMITS\GJACKSON\WP\E-TEC-FR.P&A
FILE:ENVIRO-TEC, INC. / UIC

CLASS II INJECTION WELL
PERMIT APPLICATION AND TECHNICAL REPORT

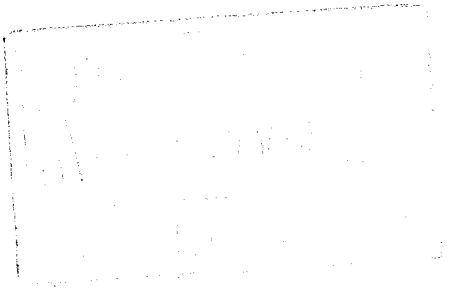
Submission to

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

By

Enviro-tec, Inc

BLUE BENCH DISPOSAL
BLUE BENCH 13-1



February 16, 1999

MICROFICHE

CLASS V INJECTION WELL
Permit Application and Technical Report

Submission to

Utah Department of Environmental Quality
Division of Water Quality
Division of Solid and Hazardous Waste

by

Envirotech, Inc.

for

Blue Bench Disposal
Blue Bench 13-1

March 23, 1997

Allin Proprietary / David L. Allin, AAPG Certified Petroleum Geologist 2934 660 North Columbus Street, Salt Lake City, Utah 84103-2117 U.S.A.
TEL: 801.521.0215 FAX: 801.521.2401 E-MAIL: allinpro@sisna.com

CLASS V INJECTION WELL

Permit Application
Utah Department of Environmental Quality
Division of Water Quality

Envirotech, Inc.
Facility: Blue Bench Disposal
Well: Blue Bench 13-1
March 23, 1997

1. Initial permit application for Class V.

2. Permit for individual well and surface facilities known as the Blue Bench 13-1 and Blue Bench Disposal respectively.

3. Applicant is:

Envirotech, Inc.
P. O. Box 1618
Roosevelt, UT 84066
Telephone numbers: (801) 722-3000 Office Voice
(801) 722-9009 Office Fax
(801) 738-8889 Facility
(801) 823-2000 Mobile

4. Facility owner is:

Envirotech, Inc.
P. O. Box 1618
Roosevelt, UT 84066
Telephone numbers: (801) 722-3000 Office Voice
(801) 722-9009 Office Fax
(801) 823-2000 Mobile

Received APR Division of Water Quality

5. The facility status is private.

6. Agent for applicant:

David L. Allin
Allin Proprietary
660 N. Columbus Street
Salt Lake City, UT 84103-2117
Telephone numbers: (801) 521-0215 Voice
(801) 521-2401 Fax
E-mail: allinpro@sisna.com

7. The facility is currently used for disposal of produced oil field fluids allowed under Class II underground injection control permits.

8. The facility is currently permitted by:

a) Utah Division of Oil, Gas and Mining UIC Class II Permit with injection authority assigned effective January 17, 1995.

b) U. S. Environmental Protection Agency (EPA) UIC Class II Final Permit UT2582-03533 issued July 22, 1991 with injection authority assigned effective November 3, 1995.

c) Duchesne County Special Land Use Permit.

The facility has applied for additional permits and approvals to include commercial disposal of nonhazardous, industrial wastewater injectate:

a) Utah Division of Water Quality UIC Class V Permit

b) Utah Division of Solid & Hazardous Waste approval

c) Utah State Legislature and Gubernatorial approval

d) EPA UIC Class V Permit

9. The types of operations generating nonhazardous, industrial wastewater proposed injectate and their relevant Standard Industrial Codes:

Oil, gas and coalbed methane well operators	1311
Drilling contractors	1381, 1781
Workover rig contractors	1381
Oil field equipment rental firms	1389
Gas plant operators	1321
Oil refinery operators	2911, 2951
Oil and gas pipeline operators	4612, 4619
Wastewater haulers	1389, 4212
LUST contractors	1795
Construction contractors	1522, 1541, 1542, 1611, 1622, 1623, 1629, 1711, 1794, 1771
Dairy, Poultry, beef and pork processors	2011, 2013, 2015, 2021, 2022, 2022, 2023, 2024, 2026
Fruit and vegetable processors	2032, 2033, 2034, 2035, 2037, 2038
Water-based industrial process operators	2082, 2084, 2086, 2099, 2621, 2819, 2841
Municipal sewage treatment facilities	4952

10. Proposed injection operation:

a) The facility name is Blue Bench Disposal.

b) The facility mailing address is:

Blue Bench Disposal
Envirotech, Inc.
P. O. Box 1618
Roosevelt, UT 84066

c) The facility location is four miles north of the city of Duchesne, Duchesne County on State Road 87.

d) The facility utilizes one injection well in the NE/4NE/4 Section 13 (820' fnl, 932' fel), T3S, R5W, Uintah Special Meridian. The Latitude is 40°13'31" North and Longitude is 110°23'31" West.

11. The facility and well are located on private land owned by the Applicant within the exterior boundary of the Uintah and Ouray Indian Reservation.

12. Proposed injection program:

a) The sources of injection fluids are: oil, gas and coalbed methane wells; oil field production, treating and processing vessels, tanks, pipelines and pits; oil field contractor trucks, portable tanks and pits used in drilling operations; wastewater haul trucks, piping, storage tanks and pits; industrial process tanks, piping and wash pits; industrial process heat exchange systems; construction, compost operation and agricultural site runoff impoundment sumps and treated municipal sewerage that will not meet standards for discharge into rivers and streams under the Utah Pollutant Discharge Elimination System (UPDES).

Wastewater suitable for consideration as injectate for disposal include a variety of aqueous solutions and suspensions resulting from the contamination of potable system water, ground water and rainfall that are deemed to be nonhazardous and chemically compatible with fluids that are indigenous to the injection zone aquifer and oil field produced wastewater that is currently permitted to be introduced into the injection zone.

Wastewater authorized for disposal must be proved nonhazardous by the Toxicity Characteristic Leaching Procedure (TCLP) performed by an EPA approved laboratory. The chemical characteristic requirements for an authorized injectate are:

1) Ph 2.0 to 12.5
2) Specific Gravity 0.9 to 1.15
3) Flash Point greater than 140
4) Filtered to eliminate solids

b) The existing injection well (Blue Bench 13-1) is a single borehole constructed with casing and cement isolation.

c) The total depth of the existing injection well is 9,234 feet (ft) and the plugged back total depth is 9,189 ft as measured from ground elevation at the wellhead.

d) The injection intervals in the Blue Bench 13-1 as measured from the ground elevation of 5,898 ft at the wellhead are 4,100-6,520 ft through casing perforations at 4,106-4,121 ft, 4,832-4847 ft, 5,268-5,283 ft and 6,085-6,090 ft as well as casing and cement perforations from 7,231-7,257 ft and 7,467-7,528 ft.

e) The facility injection wellhead location of the Blue Bench 13-1 disposal well is 820 ft FNL and 932 ft FEL Section 13, T3S, R5W, USM, Duchesne County, Utah. The well was drilled vertically, so the subsurface elevation is the same as the surface location.

f) The injection zone in the Blue Bench 13-1 well (currently in use and proposed to continue under this permit) is the upper Green River Formation below the Halite marker (local stratigraphic marker) from 4,100-6,520 ft and in the uppermost lower Green River Formation just below the Tgr3 marker (basin-wide Middle marker) from 7,231-7,257 ft and 7,467-7,528 ft as measured from the surface.

g) The proposed average annual injection volume in the Blue Bench 13-1 is 68,040,000 gallons (1,620,000 barrels). The maximum annual injection volume is 108,864,000 gallons (2,592,000) barrels or as limited by wellhead injection pressure.

h) The proposed average injection rate in the Blue Bench 13-1 is 210 gallons (five barrels) per minute. The maximum injection rate with current equipment is 420 gallons (ten barrels) per minute

or as limited by wellhead pressure.

i) The average injection pressure at the rate of 210 gallons per minute in the Blue Bench 13-1 is 300 pounds per square inch gauge (psig). The maximum injection pressure will be limited to 1,230 psig based upon EPA standards per 40 CFR 147.1353. A higher maximum injection pressure may be established in the future after performing a step rate test on the Blue Bench 13-1, but in no case will the maximum injection pressure exceed the formation breakdown pressure of the shallowest injection zone (upper Green River Formation at 4,100' below the surface).

13. Plat 1 depicts:

a) The approximate boundaries of the tract of land on which the injection well activity is conducted.

b) The location of the injection well as related to facility boundaries and to adjacent survey lines.

c) The area surrounding the facility in the NE/4NE/4 of Section 13 is undeveloped range land covered with sparse vegetation dominated by sagebrush. No surface improvements other than the facility itself have been made on this 40 acre tract therefore, no other structures are depicted.

d) The boundaries and ownership of tracts of land adjacent to the facility boundaries. The list of the owners and their mailing addresses keyed to Plat 1 is provided and labelled List 1.

No List 1 is included and even so it is < the 1/2 mi. radius of requested data

14. The name and address of the surface owner of the tract on which the facility is located:

Envirotech, Inc.
P. O. Box 1618
Roosevelt, UT 84066

15. List 2 provides the names and mailing addresses of persons or parties that may be affected by the injection operations other than those unknown parties that utilize the local road and highway system and are affected by truck traffic.

16. The names and addresses of persons identified as affected parties were obtained from Duchesne County records, the files of the Utah Division of Water Rights and current US West telephone directory.

17. The only commercially viable minerals in the subsurface are oil and gas. The owners of these rights have been determined to be unaffected by the injection operation by Finding of Fact and Order (Docket No. 91-020) of the Utah Board of Oil, Gas and Mining.

18. The Technical Report is attached hereto.

US West will need to have them identified within 1/2 mi. radius.

19. Certification of submitted information by Craig K. Phillips, President of Envirotech, Inc. (aka Enviro-Tech, Inc.):

I certify under penalty of law that this document and all attachemnts were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Craig K Phillips Date: 4-2-97

SUBSCRIBED AND SWORN to before me this 2nd day of April, 1997.

Susan Ramona-Eklund
Notary Public in and for Uintah County, Utah (SEAL)

SUSAN RAMONA-EKLUND
Notary Public
STATE OF UTAH
My Comm. Expires OCT 29, 1998
RT 2 BOX 2773 ROOSEVELT UT 84066

Plat 1 and Lists 1-2 follow this page.

Allin Proprietary / David L. Allin, AAPG Certified Petroleum Geologist 2934 660 North Columbus Street, Salt Lake City, Utah 84103-2117 U.S.A.
TEL: 801.521.0215 FAX: 801.535.0077 E-MAIL: allinpro@sisna.com

JUN 1997
Received
Division of
Water Quality

CLASS V INJECTION WELL
COMMERCIAL NONHAZARDOUS WASTE DISPOSAL FACILITY

Application for Approval of Operating Plan
Utah Department of Environmental Quality
Division of Solid and Hazardous Waste

Envirotech, Inc.
Facility: Blue Bench Disposal
June 6, 1997

1. This submission to the Board for approval of an operating plan for Blue Bench Disposal incorporates herewith the Class V Injection Well Permit Application and Technical Report for Blue Bench Disposal dated March 23, 1997 ("Class V Application"), which was submitted for consideration to the Division of Water Quality. The information presented below is organized in conformance with the outline of UCA 19-6-108(9, 10, and 11)

2. Information required by the Board:

(a) The only hazardous waste that will be generated at Blue Bench Disposal ("Facility") is crude oil contaminated filter media from the existing operation as a Class II disposal well. Crude oil periodically plugs the 10 micron filter bags used to filter injectate prior to second stage storage. Crude oil is excluded from regulation as a hazardous waste under subsection R315-2-4(a)(12) and R315-2-4(b)(5), but the contaminated filter media could be considered hazardous. Although no regular schedule of generation occurs, the monthly total has not and will not exceed 50 kilograms. Disposal is accomplished at the local municipal landfill under an exemption for small generators.

(b) The nonhazardous wastewater injectate to be disposed of at the Facility will contact only the interiors of piping, pumps, filters and tanks prior to entry into the injection zone. The Class V Application accurately describes the injection zone to be a gross interval ranging from 4,100' to 7,528' beneath the surface in the Green River Formation. The Green River Formation injection zone currently contains naturally occurring crude oil, natural gas and formation water with 42,793 milligrams per liter total dissolved solids. There is no naturally occuring leakage of the Green River Formation fluids to the surface or near-surface drinking water supplies.

The Facility has been in use for the disposal of oil field produced water without a spill event or reported deterioration of surrounding, shallow underground water supplies since 1992. Since the proposed injectate must be nonhazardous to qualify for disposal at the Facility and is continuously contained it will not come into contact with human or animal populations directly or indirectly. The disposal of nonhazardous wastewater at the Facility cannot significantly contribute to an increase in mortality, an increase in serious irreversible or incapacitating reversible illness, or pose a substantial present or potential hazard to human health or the environment.

(c) The Facility operator currently has in place a $10,000 bond in favor of the United States Environmental Protection Agency ("EPA") plus a $25,000 bond in favor of the Utah Division of Oil, Gas & Mining ("DOG&M") that can be called to insure the proper, complete and permanent abandonment of the disposal well to EPA, DOG&M and Utah Department of Water Quality ("DWQ") specifications. The plugging and abandonment plan is outlined in the Class V Permit Technical Report section 15. The existing bonds will be transferred and made a part of the Class V permits when issued to supplant the current Class II permits.

(d) The personnel employed at the Facility have substantial experience in both oil field production operations and associated RCRA-excluded waste disposal operations. The personnel are

familiar with procedures for reporting spills and mitigating spill damage. The Facility personnel will adhere to the Emergency Response Plan as outlined in the Class V Permit Technical Report in section 12 d.

(e) The Executive Secretary is requested to review the Class V Permit Technical Report especially sections 9, 10, 12, 13 and 14 to determine whether the proposed nonhazardous wastewater disposal plan will comply with appropriate rules and regulations.

(f) The corrective action and response schedules germane to releases of injectate appear in the Emergency Response Plan as outlined in the Class V Permit Technical Report in section 12 d.

3. Additional information required by the Board:

(a) Evidence that the Facility has a proven market of nonhazardous wastewater:

(i) There are no commercial Class I or Class V nonhazardous wastewater disposal facilities currently permitted in Utah.

There are none permitted in the adjacent states of Idaho, Nevada, Arizona or New Mexico. Note that commercial Class I or Class V disposal wells will never be allowed in Idaho, Nevada or Arizona due to the unique geological conditions and aquifer configurations in those states. Elsewhere in the Rocky Mountain region, there are none permitted in Montana, North Dakota, South Dakota, or Nebraska.

Colorado has one commercial disposal facility permitted and listed below with information concerning equipment, services, quantity, sources, and prices:

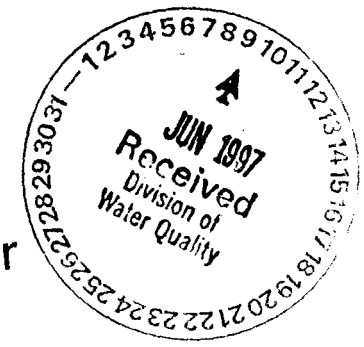
Wright's Disposal, Inc., Weld County
One well, pumps and filters
Well disposal of solid-free wastewater that has been approved for disposal by the EPA Region VIII office
Quantities are variable
Sources include cowhide treating plant (pickling brines), Denver area industrial plants (glycol, pipeline and tank rinsate)
Fee is $0.20 per gallon plus 10% state and local taxes

Wyoming has five commercial facilities permitted and listed below with information concerning equipment, services, capacity, sources and prices:

Prima Exploration Co., Campbell County
One well, pumps and filters
Well disposal of solid-free wastewater that has been approved by the Wyoming Department of Envrionmental Quality ("DEQ")
Quantities are variable
Sources include coal beneficiation plants in Gillette area (quench water)
Fee ranges from $0.20 to $0.48 per gallon

Cortez Energy, Converse County
One well, pumps and filters
Well disposal of solid-free wastewater that has been approved by the Wyoming DEQ and water hauling
No industiral wastewater has been disposed of to date
Sources have not been identified
Fee is $0.02 per gallon (Class II, exempt wastewater)

Crude Oil Geochemical Characterization of the Cedar Rim 21, Green River (Tertiary) Reservoir



CEDAR RIM FIELD

Duchesne County, Utah

by
Exxon Production Research Company
Houston, Texas

April 27, 1993

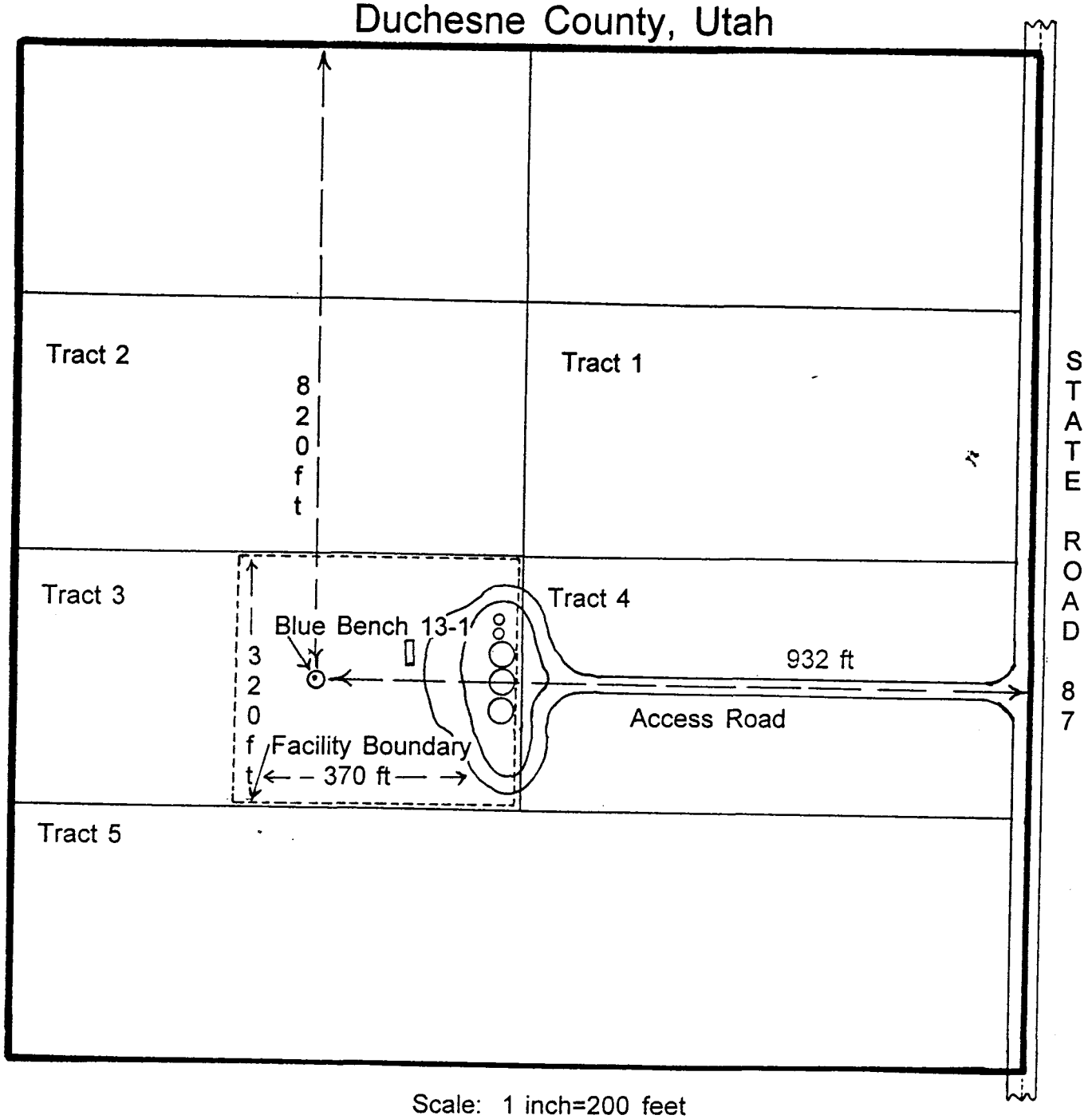
THE UTAH GEOLOGICAL SURVEY AND EXXON PRODUCTION RESEARCH COMPANY DO NOT MAKE ANY REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE INFORMATION PROVIDED HEREUNDER, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Any use of or reliance upon this information by any recipient of this information shall be at such recipient's sole risk, liability, and responsibility.

Utah Geological Survey

Plat 1

Envirotech, Inc.
Blue Bench Disposal

Plat of the NE/4NE/4 of Section 13, T3S, R5W, USM
Duchesne County, Utah



Scale: 1 inch=200 feet

List 2

Envirotech, Inc.
Blue Bench Disposal

Names and Addresses of Potentially Affected Parties

Capital Gardens, Inc.
P. O. Box 9356
Salt Lake City, UT 84109

Burton O. Parker
6416 East Washington
Las Vegas, NV 89119

Envirotech, Inc.
P. O. Box 1618
Roosevelt, UT 84066

Gavilan Petroleum
215 South State Street, Suite 550
Salt Lake City, UT 84111

Genesis Production Company
1600 Stout Street, Suite 720
Denver, CO 80202

Verl Ray & Dorothy Ivie
P. O. Box 746
Duchesne, UT 84021

John R. & Freda Davies
General Delivery (Old River Road)
Duchesne, UT 84021

Wayne & Tamara Garner
P. O. Box 535
Duchesne, UT 84021

U. S. Bureau of Reclamation
Provo Area-302 E. 1860 S.
Provo, UT 84606-7317

J. T. Morrison
P. O. Box 27
Duchesne, UT 84021

Kenneth L. Wilkenson
Star Route, Box 37A
Duchesne, UT 84021

Ralph L. Anderson
268 E. 700 S. (11-8)
Roosevelt, UT 84066

Dale Workman & Gerald Wilkerson
P. O. Box 984
Duchesne, UT 84021

Burton Beacham
General Delivery
Duchesne, UT 84021

Stephen K. & Doris J. Greenwood
General Delivery
Duchesne, UT 84021

Wright Ranch Company
457 E. 300 S.
Salt Lake City, UT 84111

Benjamin D. Mitchell
General Delivery (E. Old Hwy 40)
Duchesne, UT 84021

Duchesne City
165 South Center
Duchesne, UT 84021

Stan E. & Suzzann Young
P. O. Box 723
Duchesne, UT 84021

William M. & Susan L. Wardle
P. O. Box 531
Duchesne, UT 84021

Constance Robbins
387 S. 300 E.
Duchesne, UT 84021

Brad Taylor
HC 63, Box 39
Duchesne, UT 84021

U. S. Forest Service
88 W. 100 N.
Provo, UT 84601

Indian Irrigation Service
P. O. Drawer B
Duchesne, UT 84021

James D. & Audrey Marcellin
Star Route 2, Box 40B
Duchesne, UT 84021

Guy Taylor
General Delivery (N. Old River Road)
Duchesne, UT 84021

Rocky Point Canal Company
P. O. Box 14
Duchesne, UT 84021

Arthur L. & Kara L. Taylor
P. O. Box 123
Duchesne, UT 84021

Pioneer Canal Co.
General Delivery
Duchesne, UT 84021

William R. & Melanie J. Young
P. O. Box 466
Duchesne, UT 84021

LTN Company
General Delivery
Duchesne, UT 84021

Aronco, Inc.
General Delivery
Duchesne, UT 84021

J. Arvel & Deon C. Rhoades
P. O. Box 342
Tabiona, UT 84072

James G. Ivie
230 E. 400 N.
Duchesne, UT 84021

Gulf Oil Corp. c/o Chevron USA
P. O. Box 290
Neola, UT 84053

Paul E. Hayes
Star Route 2, Box 40B
Duchesne, UT 84021

Leslie Wigget
P. O. Box 697
Duchesne, UT 84021

Edwin Carman
General Delivery
Duchesne, UT 84021

Howard M. & Janet B. Cowan
General Delivery (E. Old Hwy 40)
Duchesne, UT 84021

Clark L. & Laura L. Jensen
P. O. Box 898
Duchesne, UT 84021

Steven K. Merkley
300 East River Road
Duchesne, UT 84021

Jerry S. & Iris M. Wilson
P. O. Box 770
Duchesne, UT 84021

Clinton & Donnette Moon
HC 1, Box 113
Duchesne, UT 84021

Phillip Moon
1769 S. 320 W.
Orem, UT 84658

Remund Lloyd
P. O. Box 5
Duchesne, UT 84021

Melvin B. White
General Delivery
Duchesne, UT 84021

Bonnie P. Barr
P. O. Box 890
Duchesne, UT 84021

John Drain
1631 W. 2700 S.
West Valley City, UT 84119

Daryl L. & Valenna C. Grant
P. O. Box 553
Vernal, UT 84021

Dave Thomas
P. O. Box 151
Duchesne, UT 84021

John Swasey
General Delivery (E. Old Hwy 40)
Duchesne, UT 84021

Melvin J. Abbott
General Delivery
Duchesne, UT 84021

George L. Swasey
General Delivery
Duchesne, UT 84021

Wade, Leon A. & Rosalie K. Wilkins
P. O. Box 845
Duchesne, UT 84021

A & R Ranches
P. O. Box 184
Duchesne, UT 84021

Utah Board of Water Resources
1636 W. North Temple Street
Salt Lake City, UT 84116-3156

Orren J. Greenwood
10260 South 1480 West
South Jordan, UT 84095

Hal & Ravenna Firth
430 W. 100 S.
Heber City, UT 84032

Deborah Gogel
General Delivery
Duchesne, UT 84021

Calvin & Lola Hamilton
General Delivery
Duchesne, UT 84021

Ben Mitchell
Box 42B
Duchesne, UT 84021

Terry (Becky) & Henrietta J. Gober
3081 Bedford Road
Salt Lake City, UT 84119

Mark E. Johanson
P. O. Box 312
Duchesne, UT 84021

Ramon Johnson
457 East 300 South
Salt Lake City 84121-4470

Edward C. Garcia
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CLASS V INJECTION WELL
Technical Report
Utah Department of Environmental Quality
Division of Water Quality

Envirotech, Inc.
Facility: Blue Bench Disposal
Well: Blue Bench 13-1
March 23, 1997

1. Map 1 depicts the location of the Blue Bench 13-1 injection well, producing oil and gas wells, abandoned wells and water wells and is intended to disclose all known artificial penetrations. The map further depicts surface bodies of water, springs, quarries, residences and roads within the area of review (two mile radius from the Blue Bench 13-1). No faults are known or suspected within the area of review and none are indicated. The most recent mapping available for the bulk of the area of review is circa 1980 (United States Geological Survey 7.5 Minute Series Topographic Map of the Duchesne Quadrangle). All well information has been updated from various public records to current date.

Two tables are provided to be used in conjunction with Map 1. Table 1 is a compilation of all pertinent, pubicly available information from water wells (including those for public supply) drilled within the area of review. These wells typically produce fresh water of potable quality (1,000 mg/L TDS or less) from one of two aquifers. The first is unconfined and found within the modern flood plain of the Duchesne River and is resident in the Quaternary Duchesne River alluvium (Flood Plain aquifer or shallow water table). The second is perched or possibly confined and found in the Uinta Formation above the upper limits of slightly saline groundwater (between 1,000 and 3,000 mg/L TDS) and is referred to herein as the Bedrock aquifer. It is assumed that the Bedrock aquifer discharges into the Flood Plain aquifer. Table 2 provides details from the six artificial penetrations of the proposed injection zone other than the Blue Bench 13-1 within the area of review. No other aquifers are utilized within the area of review, even though some deeper aquifers would qualify as underground sources of drinking water (USDW).

2. The nearest public water supply wells are operated by Duchesne City in the vicinity of Murray Springs, approximately .72 mile southwest of the Blue Bench 13-1. The deepest of the seven wells operated by the city is 52'. All of the wells are completed in the shallow water table or Flood Plain aquifer. These wells may not be in a hydraulically down-gradient location relative to the Blue Bench 13-1 since surface run-off water from the Blue Bench Disposal site and that portion of the Blue Bench terrace is captured southward by the Duchesne River system six miles downstream from Murray Springs. If the city wells were completed in the Bedrock aquifer of the Uinta Formation, or Murray Springs is a manifestation of an outlet from the Bedrock aquifer, then they certainly would qualify as the nearest hydraulically down-gradient wells. Other public water supply wells are too distant to reliably catalog relative to the Blue Bench 13-1.

3. Piezometric maps of the ground water have been produced in the form of four overlays to Map 1. Overlay 1 depicts the Floodplain aquifer. Overlay 2 characterizes the Bedrock aquifer. Overlay 3 depicts the briny (more than 35,000 mg/L TDS) upper Green River Formation aquifer (including the Blue Bench 13-1 injection zone) which Glover (1996) termed the Douglas Creek-Renegade aquifer. Overlay 3 further serves to illustrate the behavior of the overlying Duchesne River-Uinta aquifer which contains moderately saline (between 3,000 and 10,000 mg/L TDS) and highly saline (between 10,000 and 35,000 mg/L TDS) groundwater (Glover, 1996). Overlay 4 depicts the oil, gas and water system in the overpressured fracture system "aquifer" found in the lower Green River and Wasatch formations. This fluid system is contained below a regional confining zone found below the middle of the Green River Formation. This lower fluid system lies in rocks categorized as the Wasatch-Green River confining unit in regional water-resources studies (Glover, 1996; Naftz, 1996). Figure 1 is a basin-scale cross section depiction of the relationships between the existing injection zone and the geologic formations serving as or qualified by definition to be USDW's.

What figure #1? Nothing here is labeled as figure 1!

K = Average of 23.2 fpd
h_o = 5,931 ft at Water Right (well) 6869
h = 5,700 ft at x ft down-gradient from h_o
x = 8,400 ft

which yielded a number for q of .638 fpd to the south-southwest.

The **Upper Green River Formation Aquifer** underlies the entire AOR. This aquifer contains ground water of highly variable quality that does not qualify as a USDW. The injection zone portion of the the upper Green River Formation aquifer contains briny ground water with more than 40,000 mg/L TDS. The aquifer is subnormally pressured throughout the western end of the Uinta Basin and is undergoing recharge on its flanks. It may discharge upward into the Duchesne River-Uinta aquifer and on into the Green River in the area of its confluence with the Duchesne and White rivers. It may also discharge into the Duchesne River-Uinta aquifer in the Duchesne fault zone.

Upper Confining Zone

Injection zone resident brines with up to 200,000 mg/L TDS are confined by multiple beds of self-healing calcareous shale deposited during Lacustrine Highstand 1 combined with underlying evaporite beds containing halite and sodium carbonate salts (Dyni and others, 1985) which form an upper confining zone positioned 3,300-4,000 ft from the surface in the AOR. The upper confining zone is utterly competent in an area centered on T3S, R5W which includes most of T3S, R4&6W as well (80 squared miles). However, on a basin-wide scale it forms a series of baffles which separate ground water of various chemistries similar to the situation under the AOR in the Duchesne River-Uinta aquifer (Howells and others, 1987). The injection zone aquifer, including an intermediate confining zone (Lacustrine Highstand 2), is bounded at its base by multiple beds of very low permeability limestone and self-healing calcareous shale 7,500-9,000 ft below the surface (Lacustrine Highstand 3). This lower confining zone caps the underlying overpressured and fractured lower Green River and Wasatch Formation oil and gas zones. The values selected for calculations were as follows:

K = .01 to .11 and average of .05 fpd
h_o = 5,520 ft at Blue Bench 13-1
h = 5,450 ft at x ft down-gradient from h_o
x = 7,000 ft

which yielded a range of q between .00010 fpd and .00110 fpd with an average number of .00050 fpd to the southeast.

The **Lower Green River and Wasatch Formation Aquifer** underlies the entire AOR and exhibits highly heterogeneous lithology and water chemistry. This aquifer is highly overpressured and much of its fluid content is crude oil and natural gas liquids, but it does contain some individual porous beds or fracture systems which contain water that qualify as a USDW. This unusual situation is surmised to be the result of ancient entrapment of meteoric water from recharge to the north limb of the Uinta Basin prior to its cutoff by the Uinta Mountain south flank fault system. There is no practical method of utilizing the portions of this aquifer that qualify as a USDW, and it is the oldest or deepest formation known to qualify as a USDW in the vicinity of the Blue Bench Disposal Facility.

Geology/Reservoir Discussion

This aquifer is overpressured due to its hydraulic contact by porosity and unhealed fractures with a currently active oil generating system along the Uinta Basin axis. It discharges upward into the upper Green River Formation aquifer outside the AOR through vertical fractures as pressure permits and through faults such as the Duchesne Fault zone. The values chosen for calculations are:

K = .01 to .04 and average of .025 fpd
h_o = 15,000 ft near G. Murphy 1-6C4
h = 12,000 ft near Blue Bench 13-1
x = 8,000 ft

which yielded a range of q between .00375 fpd and .01500 fpd with an average number of .00938 fpd to the southwest.

4. Six wells penetrate the Blue Bench 13-1 injection zone within the AOR.

a. Table 2 provides information pertinent to this study from the deep wells. They were all drilled to exploit oil and gas reserves in the Green River and Wasatch formations. Table 2 consists of six parts, one for each well, divulging the current operator, lessor (well name), well I. D., well type and construction data, date drilled and distance from the Blue Bench 13-1. Appended to Table 2 are copies of available casing and cementing records for each well. Map 1 bears appropriate well symbols for each well, the well operator, name, number and total depth drilled (TD).

b. Cross section schematic diagrams are provided for each part of Table 2 and are labelled "Schematics 1A through 6A." Note that these schematic diagrams indicate "confining zones" that include only the nearest aquitard beds both above and below the injection zone. It was surmised that the diagrams would become too cluttered if the confining zones in their entirety of hundreds of feet were drafted onto the diagrams.

5. A review was made of the construction details of all wells within the AOR which penetrate the injection zone. The injection zone is hydraulically isolated from USDW's both above and below its confining zones in all of the wells. Four of the wells provide for isolation of the injection zone from USDW's with casing and cement. The other two are exceptional.

The P&A Blue Bench 1-7C4 well lacks isolation at the top of the injection zone at its intersected depth of 4,460 ft. However, the abandonment cementing operation placed an annular plug from 1,090-2,675 ft. The base of moderately saline ground water occurs at a depth of 1,709 ft in this well which means that 966 ft of cement isolation is provided from the nearest USDW. The cemented section was placed in a series of beds with virtually no vertical component of hydraulic conductivity in the uppermost Green River Formation (top was intersected at 2,220 ft). No corrective action is proposed for the well.

The top of the injection zone in the shut-in Duchesne County 1-17 is isolated from an overlying USDW by casing only since the well was perforated in the injection zone. The proposed corrective action plan is to verify that standard plugging procedures (as normally required by the U. S. Bureau of Land Management (BLM) and/or the Utah Division of Oil, Gas & Mining (DOG&M) are employed by the operator to plug the Duchesne County 1-17 well at some point in the future. This procedure should include a cast iron bridge plug (CIBP) setting capped with 20 ft of cement above the shallowest perforations in the well, an annular plug across the surface casing shoe plus internal plugs. It is not clear when the Duchesne County 1-17 well might be plugged, but it has not been produced since it was completed in 1977. Note that Blue Bench Disposal must verify the adequacy of plugging plans for any deep well within the AOR. Notice from the BLM or DOG&M should be provided to Blue Bench Disposal of any deep well abandonment plans within the AOR.

6. Description of Blue Bench-Duchesne area topography, and geology pertinent to the injection operation:

a. Map 1 depicts the location of the Blue Bench Disposal facility boundaries, Blue Bench 13-1 well and all other wells, springs and surface water bodies within a two mile radius of the well on a

need 1/2 mile

scale of 1:24,000. Air Photo 1 shows the intake-unloading bays, wastewater storage tanks, pump building, office, oil separator and injection wellhead on a scale of approximately 1:24,000. **There are no hazardous waste treatment, storage or disposal facilities at the site.**

b. **Figure 2 depicts the local and regional geology surrounding Blue Bench Disposal. The line** of the geological-hydrological cross section, Figure 1 is plotted on Figure 2 and provides a clearer portrayal of geological relationships of the Tertiary section in the Uinta Basin.

c. **Cross Sections 1 and 2 are scale, shematic diagrams created from the analysis of the geophysical well logs of the deep wells drilled in the vicinity of Blue Bench Disposal. The sections are structural and built on sea level as a datum.** Formation boundaries, stratigraphic correlation markers, water quality boundaries, Blue Bench 13-1 injection zone and confining zones are depicted. Note that the base of the 3,000 mg/L TDS ground water is not shown due to lack of log data so near the surface. Naftz (1996) reported that shallow water wells (completed in the Bedrock aquifer of this report) in two areas of the Uinta Basin produce ground water with more than 3,000 mg/L TDS. The nearest points of such occurences to the Blue Bench 13-1 lie 18 miles to the west-southwest and 10 miles to the southeast. No data is available on the base of slightly saline groundwater in the AOR.

d. **The confining zones are thick sections of intercalated calcareous shale or mudrock (aquitard), shaly or mud supported limestone (aquiclude) and thin permeable beds that are hydraulically isolated both laterally and vertically.** The confining lithologies are the result of deposition in highstand periods of ancient lake levels. **The upper confining zone is approximately 700 ft in thickness with its upper portion formed during Lacustrine Highstand 1. Its base is composed of an evaporite sequence that includes bedded halite formed at the previous lowstand** (Dyni and others, 1985). This zone is part of the Parachute Creek Member of the Green River Formation which forms the basin-wide Parachute Creek geohydrologic confining unit (Glover, 1996).

Glover (1996, p. 3) asserted that on a basin scale "there is no evidence of vertical flow between the Douglas Creek-Renegade aquifer (the Blue Bench 13-1 injection zone) and the Duchesne River-Uinta aquifer" (which overlies the Green River Formation and its Parachute Creek confining unit). Due to the observed variability in the elevation of the base of moderately saline water in the basin there may be reason to believe that these two aquifers do communicate in the area of the Duchesne fault zone and the confluences of the Duchesne and White rivers with the Green River (Howells and others, 1987, Plates 1 and 2; Bredehoft and others, 1994, p. 1741).

The lower confining zone is approximately 1,500 ft in thickness and forms the base of the basin-wide Douglas Creek-Renegade aquifer. This report characterizes the the lower confining unit as the result of deposition during Lacustrine Highstand 3 of the Green River Formation. Glover (1996) classified it as part of the basin-wide Wasatch-Green River confining unit.

The gross intervals described in this study as the confining zones are characterized as aquicludes that exhibit extremely anisotropic hydraulic conductivity. There is no vertical hydraulic conductivity in the the confining zones. There are areas in the subsurface of Uinta Basin (no less than several miles from the AOR) that show evidence of mixing of ground water of variable chemistry, however. There are three conditions that allow such mixing through the Wasatch-Green River confining unit. They are abnormally high fluid pressures which maintain open fractures, a local joint system that is only partially filled with precipitates or an unhealed fault system (such as the Duchesne fault zone).

The cyclical nature of deposition of ancient lacustrine sediments creates the anisotropic

hydraulic conductivity. The injection zone differs from the confining zones only in the relative numbers and thicknesses of permeable beds within the depositional cycles or parasequences. Fouch and others (1992, p. 30) characterize the mudrock as "ductile" and it is observed in cores to be self-healing.

e. There is no recognizable faulting in the AOR, and none has been reported in the literature. There are no obvious lineaments identifiable on Air Photo 1. McCoy and Young (1992, p. 138) produced a detailed map of lineaments interpreted from air photos and Landsat imagery of a six township area north of Blue Bench Disposal. Their interpretation indicated a high density of lineaments trending east-west, northeast and north-northwest which correlated nicely with highly productive oil and gas wells completed in the Wasatch-Green River confining unit in the north halves of T2S, R3-5W. The east-west lineaments which seem to correlate with above average oil and gas production occur about six miles north of Blue Bench Disposal. Lineament density decreases southward into the AOR as does the productivity of oil and gas wells. Since the performance of oil and gas wells completed in the confining unit depends upon overpressure and fractures, it is logical to conclude that the subsurface of the AOR is not highly fractured.

The nearest known faulting that apparently affects the circulation of ground water through the Wasatch-Green River confining layer is in the Duchesne fault zone. See Figures 1 and 2. This east-west trending system of faults offsets surface outcrops and most likely controls the high altitude invasion of moderately saline water into the Duchesne River-Uinta aquifer (Howells and others, 1987). The Duchesne fault zone lies about six miles south of the Blue Bench 13-1.

f. The geologic history of the Blue Bench Disposal site that is germane to the disposal operation begins with the development of closed depositional basins in the latest Cretaceous. These basins were small depressions situated between the western thrust belt and the early rising Laramide structural blocks (Bredehoeft and others, 1994).

Bredehoft and others (1994) continued stating that more than 11,800 ft of lacustrine and associated sedimentary rocks was deposited in this intermontain system of basins in the interval from the Maastrichtian (latest Cretaceous) to the late Eocene. Lake Uinta had its largest areal extent during the latest Paleocene and middle Eocene; this followed a pronounced mountain-building episode on the tectonic blocks that bound the basin. The thickest deposits (9,800 ft) of lacustrine rocks formed along the Uinta and Piceance depositional axes. Lacustrine rocks crop out along the southern flank of both the Uinta and Piceance basins and along the Wasatch Mountains to the west. Because some deposits eroded away, the areal extent of the lake is uncertain.

Lake Uinta, within which the lacustrine rocks of the Green River Formation were deposited, evolved from the earlier Lake Flagstaff in the area of the Uinta Basin. In the Uinta Basin, the structural axis extends along what is now the northern margin of the basin (about 12 miles north of Blue Bench Disposal); the axis of the basin parallels the Uinta Mountain front. There is more than 9,800 ft of relief on the top of the Paleocene-Eocene contact. Along the structural axis, lacustrine sedimentary rocks of Paleocene and early Eocene Lake Flagstaff are verticcally continuous with those that formed in Eocene Lake Uinta.

Fouch and others (1992) subdivided the Green River Formation into several lithostratigraphic units. Figure 1 of this report has been corrected and modified from Fouch (1975), and it illustrates the complex depositional history of Lake Uinta. Three major facies are identified: an alluvial facies, a marginal lacustrine facies, and an open-lacustrine facies. The open-lacustrine facies deposits are the result of lacustrine highstands and contain most of the organic-rich carbonate rock (oil shale) and are now the most competent confining zones. Figure 1 describes the lithology of the lithostratigraphic units composing the resultant Tertiary section.

Glover (1996) described the hydrologic properties of the formations underlying the Blue Bench Disposal site with the following paragraphs, but first note that **the surface of the site is composed of the middle of the Uinta Formation and its preserved thickness there is about 2,000 ft.** The Uinta Formation overlies the Green River Formation and consists of thinly bedded calcareous shale, siltstone, and fine-grained sandstone. **Hydraulic conductivity of the formation is greatly enhanced by fracturing.** The formation yields water to wells except in the southern part of the basin where deeply incised streams have drained the formation.

Water in the Duchesne River-Uinta aquifer generally is under artesian conditions in the central part of the basin, probably due to variable surficial geology and attendant variable vertical hydraulic conductivity. Water-table conditions exist where the Duchesne River-Uinta aquifer is only partially saturated or eroded in upland areas (as is the case at Blue Bench Disposal). One possible explanation for the variable surficial geology and hydraulic conductivity is precipitation of minerals from the ground water such that fractures near land surface have been effectively sealed. The presence of relatively impermeable gilsonite veins near Roosevelt, Utah, provides some support for this explanation (Hood and Fields, 1978, p. 36).

The Parachute Creek confining unit, consisting of the Parachute Creek (Lacustrine Highstand 1; **Blue Bench 13-1 upper confining zone**) and Garden Gulch (Lacustrine Highstand 2) members of the upper Green River Formation underlies the Duchesne River-Uinta aquifer and overlies the Douglas Creek-Renegade aquifer. (Note that the Blue Bench 13-1 injection zone includes porous intervals of both the Parachute Creek confining unit and the Douglas Creek-Renegade aquifer as defined by Glover). Although local-scale ground water flow occurs within the Parachute Creek (as is the case in the Horse Bench sandstone) (Kimball, 1981; and Holmes and Kimball, 1983), it is assumed to be a basin confining unit. This assumption is credible because there is no evidence of vertical flow between the Douglas Creek-Renegade aquifer and the Duchesne River-Uinta aquifer. Also, Holmes and Kimball (1983) were able to successfully model ground water flow in the Douglas Creek-Renegade aquifer without consideration of vertical ground water flow.

The Douglas Creek-Renegade aquifer, consisting of the Douglas Creek Member of the Green River Formation and the Renegade Tongue of the Wasatch Formation is a basin aquifer underlying the Duchesne River-Uinta aquifer. The Douglas Creek-Renegade aquifer is the thicker of the two aquifers and has a hydraulic conductivity ranging from .05 to .25 fpd in the southeastern part of the Uinta Basin (Holmes and Kimball, 1983). In the northern and western parts of the Uinta Basin the aquifer becomes predominantly shale. (DST data supports this last assertion and much lower hydraulic conductivity values were used in the calculations previously appearing in this report.) Cross Sections 1 and 2 depict the Douglas Creek-Renegade aquifer sandwiched between Lacustrine Highstand 2 and Lacustrine Highstand 3 in the subsurface of Blue Bench Disposal.

The Wasatch-Green River confining unit (Lacustrine Highstand 3), composed of the Wasatch Formation below the Renegade Tongue and the Green River Formation (lower) below the Douglas Creek Member, underlies the Douglas Creek-Renegade aquifer and overlies unfractured limestone of the Paleocene and upper Cretaceous North Horn Formation.

Figure 3 depicts the potentiometric surface of the Duchesne River-Uinta aquifer on a basin scale. It is accurate with minor local adjustments for the Horse Bench sandstone within the Parachute Creek Member of the upper Green River Formation and the Douglas Creek-Renegade aquifer which are utilized as the Blue Bench 13-1 injection zone (Bredehoft and others, 1994, p. 1742).

g. Figure 4 is a basin scale structural contour map drawn on the Middle marker (Tgr3) of the Green River Formation. This marker is located in the lower part of the injection zone in the

Douglas Creek-Renegade aquifer. The marker separates the upper Green River Formation from its lower part. No structure map was produced for the top of the injection zone in the AOR since it would simply depict regional dip north toward the basin axis at 300 ft per mile similar to the situation depicted by Figure 4. Figure 5 depicts in detail the type of lithologies and configurations of porous zones in the injection zone near the Tgr3 marker.

h. **Isopach maps of the injection zone were not prepared for this report because they would be unremarkable and superfluous.** Within the AOR the injection zone thickens northward in the basin depositional and structural dip direction evenly from 3,250 ft to 3,500 ft. The west-east oriented Cross Section 1 depicts the injection zone with very little variance from a thickness of 3,400 ft over almost seven miles in the basin depositional and structural strike direction. The only locally extensive permeable zone is the Horse Bench sandstone, It thins from about 6 ft in the southwest to 4 ft in the northeast of the AOR.

7. **Geohydrology and reservoir mechanics of injection interval.** Since there are some confusing subdivisions of the geologic and geohydrologic section cropping up in this report, it must be made clear that the Blue Bench 13-1 injection interval is in the upper Green River Formation as confined by local lithologic units herein referred to as Lacustrine Highstands 1 and 3. Refer to Cross Sections 1 and 2.

Not available in this document

a. **The injection interval is composed of a wide range of lithologies as illustrated in Figure 5.** The range of porosity and permeability is substantial and relates directly to lithology. The mudrock which occcurs within the injection zone (and comprises the upper and lower confining zones) is described by Fouch and others (1992, p. 41) as oil and gas bearing but "whose *in situ* matrix permeability values are near, and commonly below, 0.1 md..." Core No. 2 recovered from 7,528-7,587 ft in the Brotherson 1-14B4 well (Section 14, T2S, R4W; 6.5 miles northeast of the Blue Bench 13-1) was described as follows by Shell Oil Company, "Dark brown oil on broken surfaces throughout core; no evidence of open fractures in formation, no porosity." This core was recovered from just below the Mahogany marker in Lacustrine Highstand 2 and is representative of the interval from 5,690-5,750 ft in the Blue Bench 13-1.

The porous carbonate rocks of the injection zone are described by Chidsey and Laine (1992, p. 127) as follows, "**grain-supported carbonate composed mainly of ostracods and oolites...**" with "**10 to 12 percent matrix porosity**" and permeability "**averaging about 1.5 md**" and further that "**vertical fractures are necessasry to provide reservoir permeability.**"

The sandstone intervals within the injection zone are the primary recipients of injectate. They are typically characterized as fluvial-deltaic sandstones deposited in a marginal lacustrine environment. They are common in the any portion of the upper Green River Formation above and below the lacustrine highstand sections. Refer to Cross Sections 1 and 2. These sandstone beds are "composed of very fine-grained sandstone and siltstone with porosity ranging from 10 to 14 percent..." with permeability "varying between 3 and 7 md..." according to Chidsey and Laine (1992, p. 131). Fouch and others (1992, p. 29) described these sandstones as "characterized by combined primary and secondary porosity values of 10 to 16 percent in normally pressured Tertiary oil and associated gas reservoirs whose matrix permeability values may be as high as 1 d."

The previous operator of Blue Bench Disposal calculated "net pay/pore volume" from the compensated neutron-formation density log run during 1984 in the Smith 1-14C5 well (5,600 ft west of the Blue Bench 13-1) over an interval equivalent to 4,100-6,520 ft in the Blue Bench 13-1. The porosity values are overstated in that work by 25 to 30 percent due to the logging equipment response to the very fine-grained sandstone beds, however it is accurate to say that the compilation does identify 1,304 ft of porous rock within the injection zone. The data is presented with this report as Table 3.

As recited above the average value for hydraulic conductivity, *K*, utilized for the injection zone is .05 fpd and was derived from multiple DST results. Several different numbers could be supported for an estimate of transmissivity, *T*, for the injection zone. This depends upon thickness assigned to the unit as an aquifer. The gross interval between the upper and lower confining zones is roughly 3,400 ft in thickness. However, the Blue Bench 13-1 is at most communicating with a little over 1,300 ft of recognizable aquifer zones. If that is true then the transmissivity of the injection zone is approximately 60 to 70 sfpd.

The temperature of the injection zone ranges from 120 to 182° F from uppermost to lowermost perf. This is derived from DST data at similar depths in the western Uinta Basin (Teller and Chafin, 1986) and the maximum recorded temperature from the Sun Oilfield Service, Inc. pressure test of the Blue Bench 13-1 casing on October 15, 1991.

b. The upper Green River Formation injection zone is estimated to have a hydrostatic head of no more than 5,520 ft. This is based upon the regional geohydrologic setting and the fact that the static water level in the Blue Bench 13-1 at the time of its completion in 1991 was more than 300 ft from the surface and possibly as much as 500 ft from the surface. After over five years of use for produced salt water disposal the well does not exhibit pressure at the surface and will take fresh water without pumping at rates up to 42 gallons (1 barrel) per minute or over 60,000 gallons (1,400 barrels) per day.

The injection zone is fully saturated with formation fluid and injectate. Prior to the introduction of injectate, a sample of formation fluid recovered by swabbing on October 14, 1991, was tested and determined to contain 47,585 mg/L TDS. The bulk of those dissolved solids were NaCl (42,793 mg/L). See Exhibit 1 for the complete water analysis report.

c. No evidence of faulting, fracturing and/or formation solution channels has been recognized in the injection zone.

d. The formation testing program to determine the chemical, physical and radiological characteristics of the injection zone was completed prior to commencement of the produced water injection program, therefore, no additional testing program is proposed.

e. Examination of hydraulic fracturing jobs performed on various sections of the Green River Formation in the Uinta Basin indicated that the breakdown pressures are at minimum in the range of .75 psig per foot of burial depth (frac gradient). This indicates that the minimum breakdown pressure for the uppermost section of the injection zone at 4,100 ft will exceed 1,230 psig if the injectate is briny (hydrostatic gradient of .45 psig/ft). When injection pressure at the Blue Bench 13-1 wellhead reaches 75% of 1,230 psig, a step-rate test will be performed on the well to determine site specific fracture pressure data.

8. Characteristics of injectate:

a. The injectate will be composed primarily of Class II exempt oil field wastewater as allowed under the current permit. Added to that stream will be wastewater with similar characteristics such as high TDS levels that may or may not be oily that are derived from non-produced water contamination in conjunction with pipeline, refinery, gas plant, tank farm, workover, general construction, manufacturing, food processing and trucking operations.

In order to insure compatibility with the the fluid now in the injection zone, the injectate must be proved nonhazardous using the Toxicity Characteristic Leaching Procedure (TCLP) to determine its corrosivity, toxicity, ignitability and reactivity. Wastewater accepted for disposal will

be limited to Ph range of 2.0 to 12.5, Specific Gravity from .9 to 1.15, Flash Point greater than 140 and be filtered to eliminate solids.

Information from the testing of new sources of wastewater will include complete chemical analyses of all inorganic constituents reported in ppm or mg/L and in cases where organic fractions are present, all such constituents will be reported in ppm or mg/L. Wastewater from new sources will not be accepted for disposal until approved. Upon approval and acceptance, daily reports will be compiled which define the volumes of Class II and Class V wastewaster injections in order to provide statistics regarding the toxicity and degradability rates and levels of the final composite injection stream.

On-site storage or injection of any hazardous waste as identified by EPA under 40 CFR 261.3 will not occur excepting exclusions provided under 40 CFR 261.4. There will further be no on-site storage or injection of any wastewater which previously was a TCLP hazardous waste but no longer is due to dilution. No radioactive waste will be stored on-site or injected which contains radioactive material in concentrations which exceed those listed in 10 CFR Part 20, Appendix B, Table II, Column 2. In view of the above, wastewater (other than Class II) transported to Blue Bench Disposal will be accompanied by a signed statement from the wastewater generator to the effect that none of the wastes meet the 40 CFR 261.3 definition of hazardous waste, and no diluted TCLP wastes are present in the shipment.

b. All of the Blue Bench Disposal facility piping is fiberglass and the injection tubing string is fiberglass lined. The seven inch diameter N-80 production casing and the carbon steel injectate holding tanks have predicted 30 year working lifespans for oil field use. The commingled injectate stream will reside within the parameters tested for oil field use which include saturated NaCl solutions with pH ranges from 4.0 to 11.0.

c. **The average rate of injection is 210 gallons per minute (gpm) and a maximum rate (with current equipment) of 420 gpm. The average injection rate per month (30 day period) is 5,670,000 gallons when operated at the rate of 210 gallons per minute for 15 hours per day. The maximum monthly rate is 9,072,000 gallons based upon the same rate of injection but operating 24 hours per day.**

~189,000 gal/da ~4500 bbl/da

Obviously, the injection rate per minute can be varied by at least 100 percent, but pumping efficiency is maximized and equipment stress is minimized when operating the equipment at the rate of 210 gallons per minute. The pump can be run 24 hours per day for some time, but must be stopped for maintenance periodically. With these constraints, the yearly volume of injected fluid will not exceed 108,864,000 gallons.

It is possible to make an estimate of the life of the project based upon the amount of time it will require to displace one pore volume of formation fluid from a uniform 1320 ft radius from the Blue Bench 13-1 over its estimated 1,304 ft of net porous injection zone. The total volume of of the injection zone is given by $V=\pi r^2 h$ or $V=(3.1416)(1{,}320^2)(1{,}304)$ or 7,137,979,996 cubic feet (cf). If the injection zone is allowed uniform porosity of 11 percent, then the pore volume available for displacement is 785,177,800 cf. The capacity of one pore volume in gallons is 5,873,915,118. At a maximum rate of 108,864,000 gallons per year the displacement would require almost 54 years. During this period of time the Blue Bench 13-1 would likely require replacement as well as much of the rest of the facility. The expected life of of the facility is 25 years.

9. Detailed outline of the construction and completion of the Blue Bench 13-1 well:

a. The well was drilled to a total depth of 9,234 ft as measured from a wellhead elevation at

ground level of 5,898 ft. The well was plugged back to a depth of 9,189 ft with cement.

b. The completion type is casing perforations, however, the upper four sets of perforations communicate with the 7 inch casing casing annulus which is uncemented from 4,100-6,520 ft. That part of the well is effectively a screen type completion.

c. The surface casing string was made up of 9 5/8 inch, 36 pound per ft (ppf) pipe set from the surface to 2,014 ft. The pipe is of unknown grade, but is assumed to be at least J-55. The surface casing string is not in contact with injectate. The second casing string or production string is composed of 7 inch, 29 ppf, N-80 pipe set from the surface to 9,234 ft. N-80 pipe has a wide range of resistance to injectate chemistry.

d. The 9 5/8 inch surface casing string was cemented in 12 1/4 inch hole from 2,014 ft to the surface with 510 sacks of Class H with 10 pounds per sack gilsonite, .25 pound per sack Flocele and 2 percent CaCl. The 7 inch production casing string was cemented in 8 1/2 inch hole from 9,234-6,520 ft with 435 sacks of 50/50 Pozolan with .25 pound per sack Flocele, 10 percent CaCl, and .6 percent Halad 9. Those cementing operations were completed in 1984 just after the well was drilled. During 1991, an annular sheath or plug was squeezed behind the 7 inch production casing string from 1,850-4,100 ft using 715 sacks of Halliburton Type V cement with 2 percent CaCl. The Halliburton Type V cement is an all-purpose oil well cement formulated between Class B and G which is used for any moderate temperature and pressure application that would require Class G cement.

e. No details are available on the techniques employed in the the 1984 cementing operations, but it is assumed that standard oil field practices were adhered to using guide shoes and plugs. The annular plug placed from 1,850-4,100 ft behind the 7 inch production casing utilized squeeze cementing techniques through perforations with a packer and bridge plug.

f. Perforations were made during 1991 into the 4,100-6,520 ft annular open hole injection zone with perforations in the 7 inch production casing from 4,106-4,121 ft, 4,832-4,847 ft, 5,268-5,283 ft and 6,085-6,090 ft. in the upper Green River Formation below the Halite marker. In addition, perforations were made through casing and cement just below the Tgr3 marker in the uppermost lower Green River Formation from 7,231-7,257 ft and 7,467-7,528 ft. Refer to Figures 6 and 6A for a schematic depiction.

g. The location and number of casing centralizers, wall scratchers or any other cementing accessories is unknown, but it is assumed that some centralizers were run at minimum to adhere to standard oil field practice when the production string was run in 1984

h. The injection tubing in the Blue Bench 13-1 is 3 1/2 inch, 9.3 ppf, J-55 lined with fiberglass coating and set at 4,077 ft.

i. The tubing packer utilized in the Blue Bench 13-1 is a 7 inch by 3 1/2 inch Mountain States Arrow Set I internally coated packer with stainless steel on/off tool run on the end of the tubing string at 4,077 ft.

j. Figures 6 and 6A depict the construction details of the Blue Bench 13-1 well. Figure 7 depicts the wellhead facilities and annulus monitoring system.

k. No well stimulation program is necessary and none is planned.

l. The Blue Bench 13-1 injection zone has been studied thoroughly and has been observed to

perform as expected since injection of Class II fluids began in late 1991. Injectivity tests are not planned for this permit.

m. A cased hole logging program consisting of gamma ray correlation and cement bond logs has been run. No further logging is proposed.

10. Wellhead installations:

a. Volume measurements of injected fluids are made by a Barton turbine meter and a non-resettable electronic readout on the discharge side of the injection pump. Pressures are recorded by a Barton seven day circular chart recorder at the wellhead. This chart recorder continuously monitors pressures in the injection line and casing/tubing annulus simultaneously. A nitrogen cushion is maintained at approximately 200 psig in the casing/tubing annulus. See Figure 7.

b. The filter canisters are FSI bag type with varying filtering capabilities dependent upon bag selection. Prior to injection the injectate is filtered through ten micron bags. Redundant canisters with capacities of 420,000 gallons (10,000 barrels) per day each are installed.

c. The injection pump is a National J-165 triplex set to operate at 210 gallons (5 barrels) per minute. The discharge is equipped with a pressure relief valve set to discharge back into the supply tank when injection pressure exceeds 1,200 psig. The pump is capable of operating at 420 gallons (10 barrels) per minute at 3,000 psig.

d. Schematic diagrams of the surface and subsurface construction details of the Blue Bench Disposal system are attached as Figures 8 through 11.

e. Wastewater is delivered via tank truck to the facility where they are unloaded via a pump and measuring device into one of the two unfiltered storage tanks depending upon the source of the wastewater. Class II fluids will be initially segregated from Class V fluids for relative volume control. The wastewater is later pumped through a set of bag type filters containing ten micron filter bags and on to the filtered wastewater tank. The injectate is sampled and, dependent upon throughput requirements, is either injected downhole with the triplex pump or allowed to gravity feed into the formation. With the exception of a minimal amount of surface piping, all lines in the facility are either fiberglass or steel lined with fiberglass. The holding tanks are constructed of steel and have capacities of 84,000 gallons (2,000 barrels). Refer to Figures 9 and 10.

f. Waste from the pre-injection treatment system is limited to plugged filter bags. These will be disposed of in the landfill operated by Duchesne County. Since Class V wastewater generators will be required to filter their wastewater prior to shipment, no hazardous filter cake is anticipated to be generated at the facility.

g. Detailed plans and specifications of the wellhead-associated facilities.

1) The wellhead-associated facilities are diked to totally contain spillage and eliminate run-on and run-off.

2) Diked areas and the truck unloading pad are lined with impermeable material and a gravel armor. Collection sumps are not planned since no hazardous wastewater will be accepted at the facility.

3) The pre-injection holding facilities are constructed above ground and are compatible with the injection fluid.

4) All storage facilities are above-ground vessels constructed of steel. No lined ponds will be used for any kind of storage. Diked areas will be used to contain only spills from equipment failure.

5) Well maintenance and workover operations will be supported with steel flat tanks rented from a well service company. No open pits will be constructed for such operations.

11. Other subsurface operations in the area:

a. There are no mining operations in the western Uinta Basin. There are ten Class II disposal wells in the vicinity which use the Green River Formation. They are listed below along with distance and direction from the Blue Bench 13-1:

OPERATOR	WELL	LOCATION	DIST. & DIRECTION FROM B B 13-1
Coastal	2-23B4 L. F.	Sect. 23, T2S, R4W	6.5 miles NE
Coastal	R. 2-32B4	Sect. 32, T2S, R4W	3.0 miles NE
Coastal	T. E. W. 1-9B5	Sect. 9, T2S, R5W	7.0 miles NNW
Coastal	E. 2-11B5	Sect. 11, T2S, R5W	7.5 miles NNW
Coastal	LDS C. 2-27B5	Sect. 27, T2S, R5W	4.5 miles NNW
Pennzoil	C. B. 2-17C5	Sect. 17, T3S, R5W	4.5 miles W
Barrett	Ute 1-A	Sect. 18, T3S, R6W	11 miles W
Medallion	A. SWD 1	Sect. 24, T3S, R6W	6.5 miles WSW
Petroglyph	U. T. 3-10D	Sect. 10, T4S, R4W	6.5 miles SSE
Petroglyph	D. U. T. 5	Sect. 16, T4S, R4W	7.0 miles SSE

b. Including the ten wells listed in Part a. above, and the Blue Bench 13-1 there are a total of 22 Class II permitted disposal wells in Duchesne County. In 1995, the most recent year for which data is available, these 22 wells disposed of 812,751,156 gallons (19,351,218 barrels) of crude oil contaminated (exempt) wastewater. The continued withdrawal of petroleum and natural gas from the Green River Formation and circulation of wastewater should ultimately improve permeability and reduce formation pressure overall. The positive disposal characteristics of the formation should improve with time.

12. Injection well operation:

a. The current average injection (injectate line) pressure is 300 psig when operating by pump at 210 gallons (5 barrels) per minute. The maximum injection pressure allowed under the current Class II permit and expected initially under a Class V permit is 1,230 psig. Technically, when injection pressure averages 75% of 1,230 psig (922.5 psig) the well must be shut-in for site specific fracture gradient testing.

b. Based upon the hydrodynamic nature of the fluid movement in the upper Green River Formation (the injection zone) and its predicted direction of movement to the southeast (refer to Overlay 3), it is apparent that injectate will disperse favoring that direction. Any other conclusions or calculations are impossible to reach since injection pressure declines during injection and falls off instantaneously upon cessation of injection. Until such time that the injection zone attains fillup to allow measurement of pressure responses to injection, no further analysis is possible. Considering the vast area of the injection zone and its continuing subnormal pressure it is not apparent that the zone will achieve fillup during the expected life of this project.

c. Blue Bench Disposal is typically manned by an experienced operator for two shifts each day coordinated under one supervisor. The operators are furnished outlines of injection and emergency

shut-in procedures and through each typical shift will repeat all of the procedures. Round-the-clock operations utilize three operators and a supervisor, all of whom are qualified operators. Maintenance on the entire facility requires attention of the operators or supervisor one hour per operating day.

d. The Emergency Response Plan is designed to terminate some or all operations at Blue Bench Disposal until a damage assessment is made and testing and remedial work is completed.

1) Any leaks from facility piping, vessels, pumps or tanks, excepting the injectate line downstream from the pump and the wellhead itself, or spills in the unloading bay discovered during daily visual inspections or upon occurrence will cause immediate refusal or referral of additional wastewater loads until repairs are made. Injection can be continued. In the event of a spill in the unloading area. The spill must be vacuumed immeditately into an unfiltered fluid tank and the diked gravel pad must be flushed with one pore volume of fresh water and vacuumed into the unfiltered fluid holding system for later processing.

2) Any leaks from the injectate line from the pump discharge to the wellhead and the wellhead itself discovered in daily inspections will cause immediate cessation of injection until the problem is identified and repairs are completed. Refusal or referral of wastewater loads may be required dependent upon downtime and storage capacity.

3) Should the tubing/casing annulus pressure monitoring system record greater than a ten percent anomalous (positive or negative) divergence from the norm observed during pumped injection operations, that event will cause immediate refusal or referral of additional wastewaster loads and cessation of injection until an appropriate mechanical integrity test (MIT) can be performed on the well and repairs made. Similar actions are required if the well fails a periodic MIT.

e. A periodic MIT will be performed on the Blue Bench 13-1 annually to insure that the possibility of significant releases of injectate into USDW's is eliminated. The periodic MIT will consist of a tubing/casing annulus pressure test and radioactive tracer survey under injection conditions.

13. A background (pre-injection) water analysis of the formation fluid in the injection zone was obtained in 1991 (refer to Exhibit 1). It is proposed that prior to injection of any Class V wastewater, that background groundwater analyses be performed on the two locally utilized USDW's, the Floodplain and Bedrock aquifers. Up-gradient wells proposed for sampling in each aquifer are on Water Rights 7907 and 7908 (see Map 1). Down-gradient wells proposed for sampling are on Water Rights 1981 and 3651 for the Floodplain aquifer and Water Right 8536 for the Bedrock aquifer.

14. It is proposed that post-injection USDW monitoring be accomplished by the compilation of analyses of samples caught from the same (or substitute wells if required) identified for background testing in Section 13, above on a quarterly basis.

Injectate monitoring will be accomplished by catching a sample of the commingled injectate each injection operating day which will be subjected to analysis. This data is to be combined with the pressure charts and relative volumes of Class II versus Class V injectate to form a permanent log of injection operations.

15. Proposed plugging and abandonment plan for the Blue Bench 13-1 (See Figure 12):

Plug 1: Place a balanced plug from 6,520-6,720 ft within the 7 inch production casing using 36 sacks of Class G cement (Halliburton Type V if served from Vernal, Utah).

Plug 2: Place a balanced plug from 3,360-3,560 ft within the 7 inch production casing using 36 sacks of Class G cement.

Plug 3: Place a balanced plug from 1,900-2,100 ft within the 7 inch production casing using 36 sacks of Class G cement.

Plug 4: Place surface plugs to a depth of 50 ft within the 7 inch production casing and production casing/surface casing annulus using 16 sacks of Class G cement.

16. The applicant has in place a $10,000 bond in favor of the EPA to accomplish the plugging and abandonment of the Blue Bench 13-1 in addition to a statewide $25,000 bond which can be called for the same purpose to fulfill the requirements of the Class II permits now in effect.

The current cost estimate to plug and abandon the Blue Bench 13-1 well is based upon the following budget:

Rig time 20 hours @ $140 per hour	$ 2,800
Rental equipment for three days @ $300 per day	900
Cementing services	4,000
Water and trucking	800
Scarifying and reseeding wellsite	1,000
Welder	300
TOTAL	$ 9,800

No provision in the preceeding budget is made for the recovery and resale of the wellhead, tubing string and packer, but those items would easily adjust the net plugging and abandonment costs by $5,000.

Map 1, Tables 1-3, Overlays 1-4, Figures 1-12, Cross Sections 1-2, Exhibit 1 and Air Photo 1 follow the bibliography.

look Fig. 1, X-sect. 1

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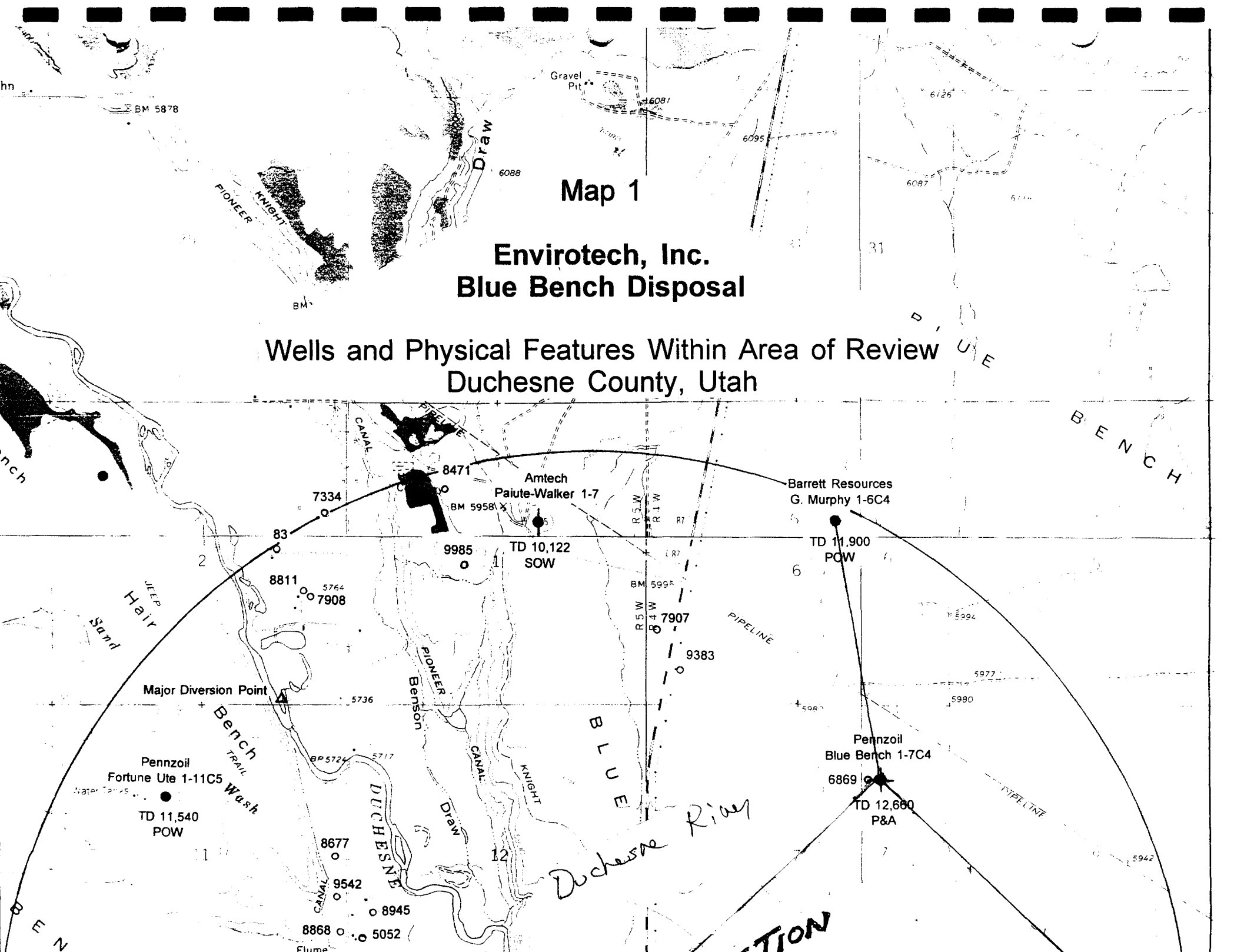
Map 1

Envirotech, Inc.
Blue Bench Disposal

Wells and Physical Features Within Area of Review
Duchesne County, Utah



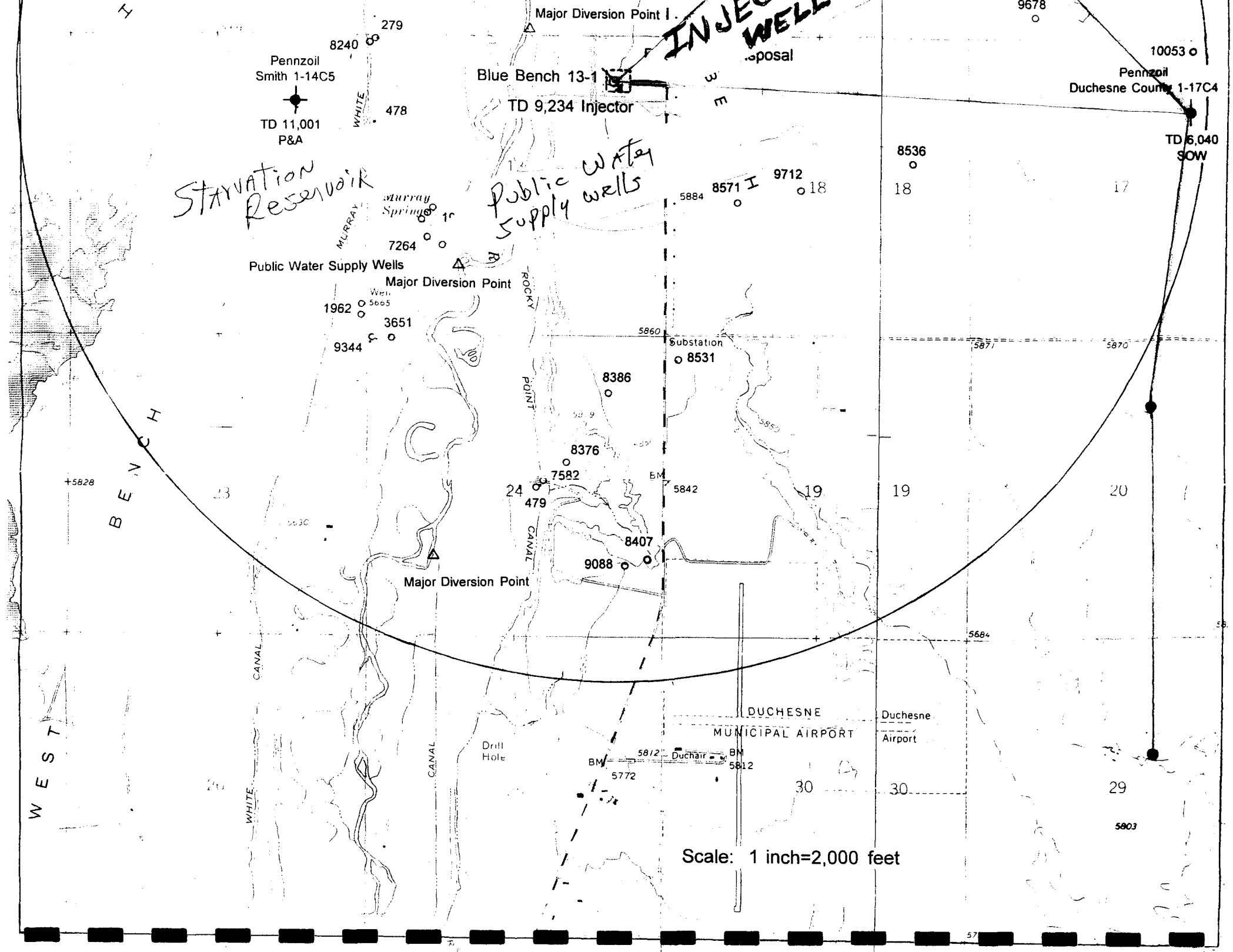

Major Diversion Point
INJECTION WELL
Disposal
Blue Bench 13-1
TD 9,234 Injector
Pennzoil
Smith 1-14C5
TD 11,001
P&A
Pennzoil
Duchesne County 1-17C4
TD 6,040
SOW
STARVATION Reservoir
Public Water Supply wells
Public Water Supply Wells
Major Diversion Point
Major Diversion Point
Substation
Drill Hole
DUCHESNE
MUNICIPAL AIRPORT
Duchesne
Airport
Duchair
BLUE BENCH
WEST
WHITE
CANAL
ROCKY POINT
MURRAY
Murray Spring
Scale: 1 inch=2,000 feet

Table 1

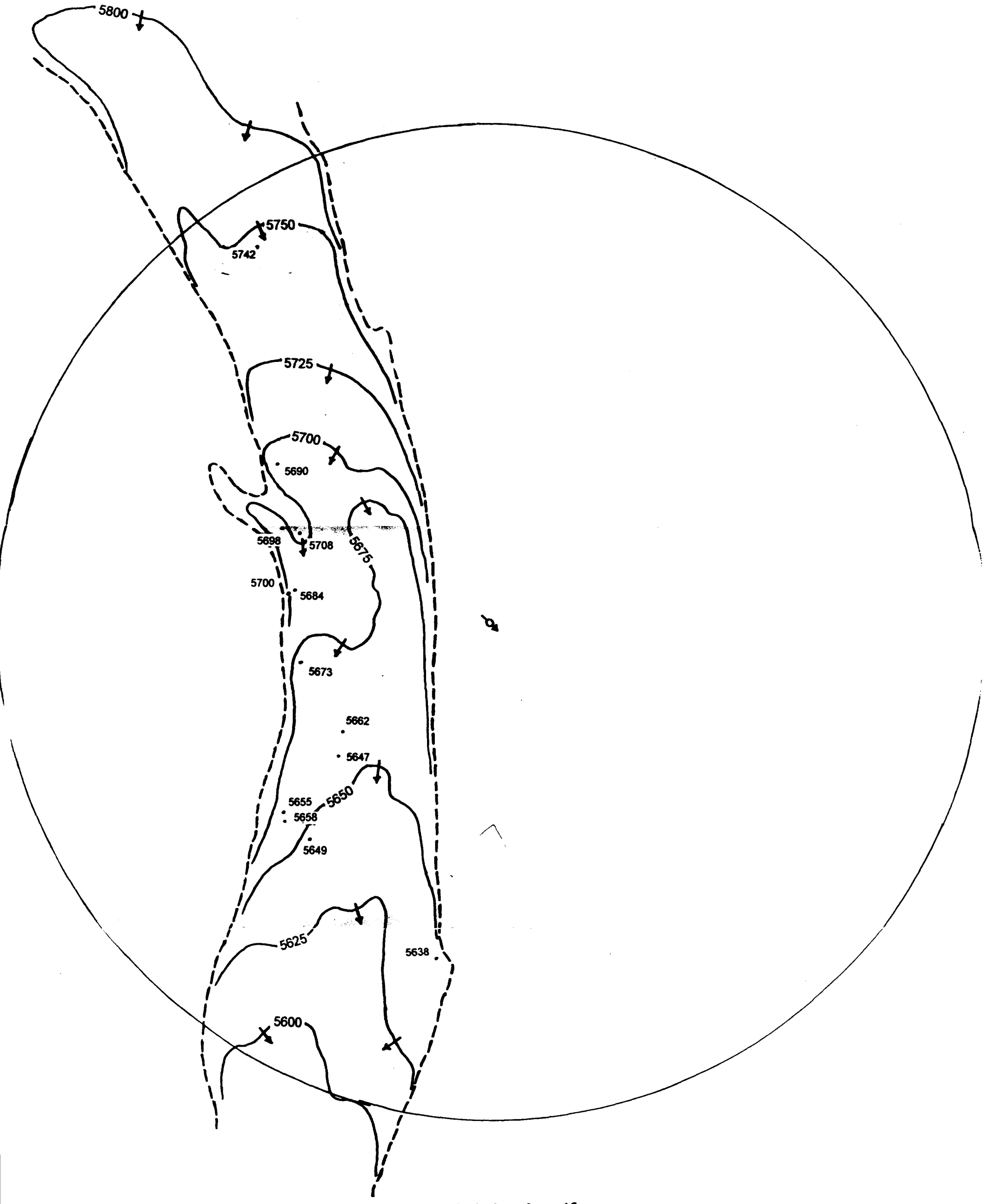
Envirotech, Inc.
Blue Bench Disposal

Tabulation of Shallow Wells by Water Right
Keyed to Map 1
(All Known Shallow Wells Were Drilled to Develop Water)

Map Code (Wtr Right)	Owner Address	Use Declared	Well Depth Below Surf. (Feet)	Elev. Surf. (Feet)	Static Wtr Lvl (Feet)	Head AMSL (Feet)	Date Tested (Well Completed)
8471	J. T. Morrison P. O. Box 27 Duchesne, UT 84201	Irrigation Domestic	310	5,905	115	5,790	04-12-80
7334	Kenneth L. Wilkenson Star Route, Box 37A Duchesne, UT 84021	Irrigation Domestic Stockwatering	140	5,775	-5	5,780	08-18-75
83	Kenneth L. Wilkenson Star Route, Box 37A Duchesne, UT 84021	Domestic Stockwatering Other	NA	5,765	NA	NA	NA
9985	Ralph L. Anderson 268 E. 700 S. (11-8) Roosevelt, UT 84066	Irrigation Domestic Stockwatering	280	5,880	NA	NA	1983
8811	Dale Workman & Gerald Wilkerson P. O. Drawer L Duchesne, UT 84021	Irrigation Domestic Stockwatering	120	5,765	NA	NA	1980
7908	Verl R. & Dorothy Ivie Star Route, Box 38 Duchesne, UT 84021	Irrigation Domestic	120	5,760	18	5,742	08-05-80
7907	Verl R. & Dorothy Ivie Star Route, Box 38 Duchesne, UT 84021	Irrigation Domestic	156	5,985	6	5,979	09-03-81
9383	Burton Beacham P. O. Box 729 Duchesne, UT 84021	Irrigation Domestic Stockwatering	NA	5,978	NA	NA	1987
6869	Gulf Oil Corporation P. O. Box 290 Neola, UT 84053	Other	460	5,961	30	5,931	04-27-72
8677	Stan Young P. O. Box 723 Duchesne, UT 84021	Irrigation Domestic	52	5,710	20	5,690	06-18-88

9542	James D. & Audrey Marcellin Star Route 2, Box 40B Duchesne, UT 84021	Irrigation Domestic Stockwatering	173	5,723	-3	5,726	11-13-84
8945	William M. Wardle P. O. Box 531 Duchesne, UT 84021	Irrigation Domestic Stockwatering	180	5,699	NA	NA	1981
8868	Paul E. Hayes Star Route 2, Box 40B Duchesne, UT 84021	Domestic	60	5,723	25	5,698	04-19-81
5052	Guy Taylor General Delivery Duchesne, UT 84021	Irrigation Domestic Stockwatering	47	5,720	17	5,703	08-24-64
9678	Leslie Wigget P. O. Box 697 Duchesne, UT 84021	Irrigation Domestic Stockwatering	NA	5,931	NA	NA	NA
279	Melvin B. White General Delivery Duchesne, UT 84021	Domestic	50	5,714	30	5,684	04-03-78
8240	Orren J. Greenwood 1375 E. 9400 S. Sandy, UT 84092	Irrigation Domestic Stockwatering	55	5,730	30	5,700	03-31-78
10053	Bonnie P. Barr P. O. Box 890 Duchesne, UT 84021	Irrigation Domestic Stockwatering	285	5,915	NA	NA	NA
478	J. Arvel & Deon C. Rhoades P. O. Box 342 Tabiona, UT 84072	Irrigation Domestic Stockwatering	50	5,691	18	5,673	04-19-57
10348	Hal & Ravenna Firth 430 W. 100 S. Heber City, UT 84032	Irrigation Domestic Stockwatering	125	5,689	-35	5,724	1992
8536	John Drain 1631 W. 2700 S. West Valley City, UT 84119	Irrigation Domestic Stockwatering	300	5,902	50	5,852	04-30-80
8571	Deborah Gogel General Delivery Duchesne, UT 84021	Irrigation Domestic Stockwatering	300	5,892	Dry	NA	07-03-80
9712	Abandoned		240	5,893	114	5,779	05-30-88
1981	Duchesne City P. O. Drawer B Duchesne, UT 84021	Municipal (3 Wells)	37	5,670	8	5,662	06-01-72
7264	Duchesne City	Municipal Municipal	39 45	5,660 5,659	NA 12	NA 5,647	NA 06-11-73
1962	Duchesne City	Municipal Municipal	51 53	5,665 5,661	10 3	5,655 5,658	07-03-59 10-30-57
3651	Duchesne City	Municipal	40	5,651	2	5,649	09-18-62

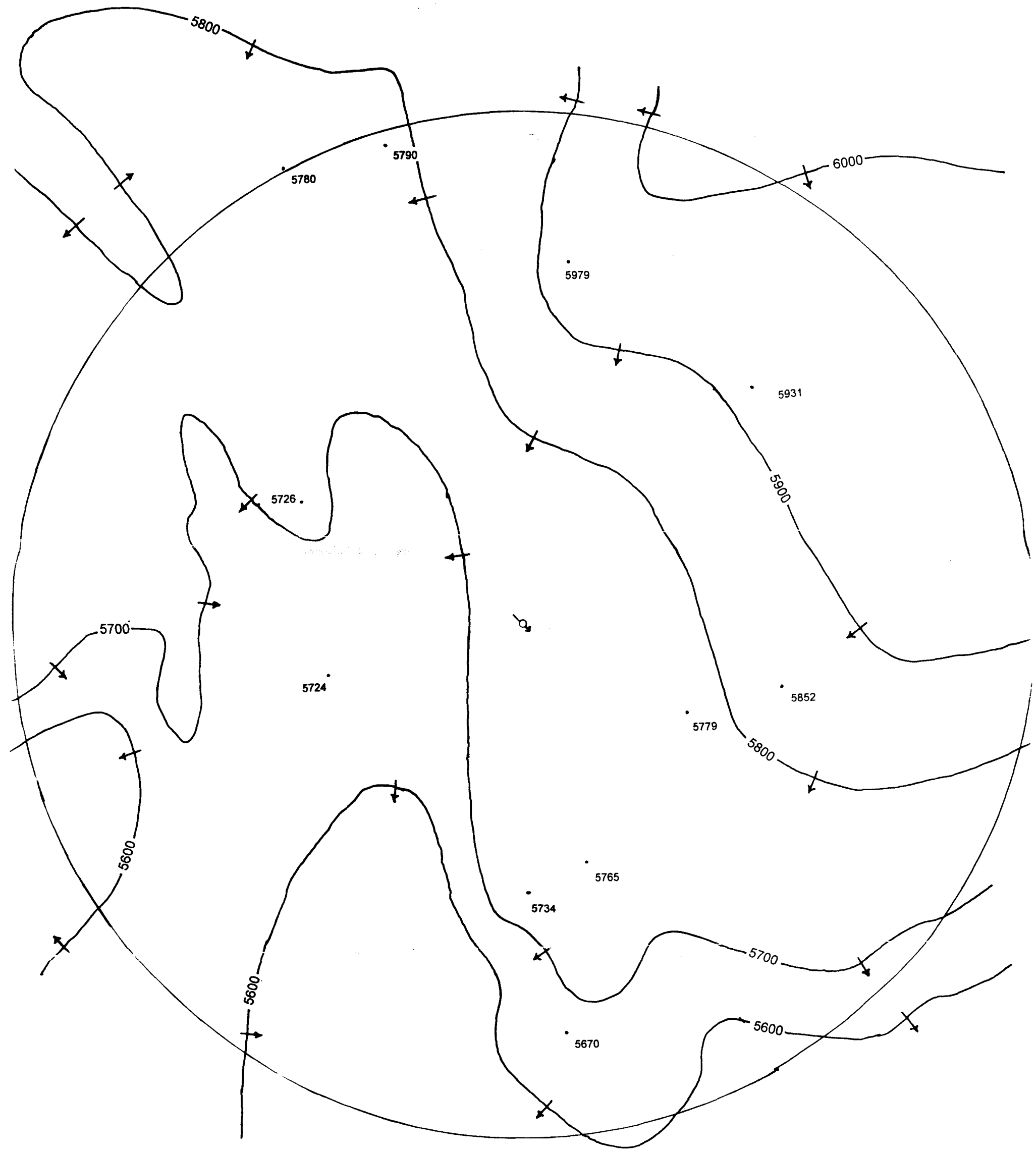
9344	Ben Mitchell Star Route 2, Box 42B Duchesne, UT 84021	Irrigation Domestic Stockwatering	NA	5,656	NA	NA	NA
8531	Norman G. & Ruth P. Mecham P. O. Box 754 Duchesne, UT 84021	Irrigation Domestic Stockwatering	200	5,855	90	5,765	11-21-79
8386	Henrietta J. & Terry Gober 3081 Bedford Road Salt Lake City, UT 84119	Irrigation Domestic Stockwatering	260	5,854	120	5,734	05-04-79
8376	Clark L. & Laura L. Jensen P. O. Box 898 Duchesne, UT 84021	Irrigation Domestic Stockwatering Other	206	5,710	NA	NA	1979
7582	Stan E. & Suzzann Young P. O. Box 723 Duchesne, UT 84021	Irrigation Domestic Stockwatering	180	5,668	30	5,638	10-16-74
479	Vernal Bromley c/o O. Greenwood 1375 E. 9400 S. Sandy, UT 84092	Domestic	100	5,660	NA	NA	NA
8407	Mark E. Johanson P. O. Box 312 Duchesne, UT 84021	Irrigation Domestic	260	5,790	120	5,670	05-21-85
9088	Peggy Dubbelman P. O. Box 835 Duchesne, UT 84021	Irrigation Domestic Stockwatering	280	5,802	NA	NA	1985



Overlay 1: Piezometric Map of Floodplain Aquifer

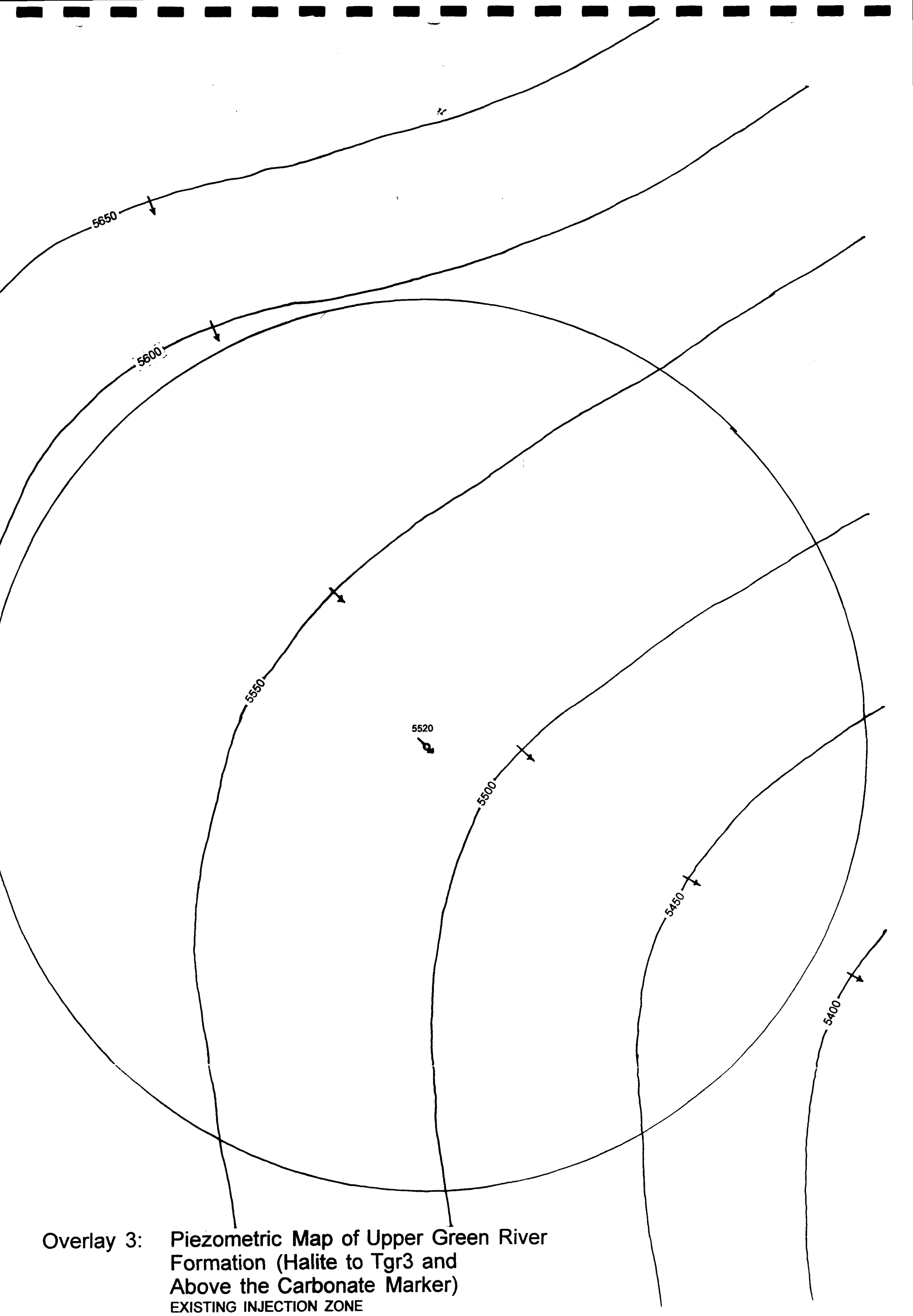
Head in feet AMSL

Arrows indicate direction of ground water flow
(Normal to contours)



Overlay 2: Piezometric Map of Bedrock Aquifer

Head in feet AMSL
Arrows indicate direction of ground water flow
(Normal to contours)

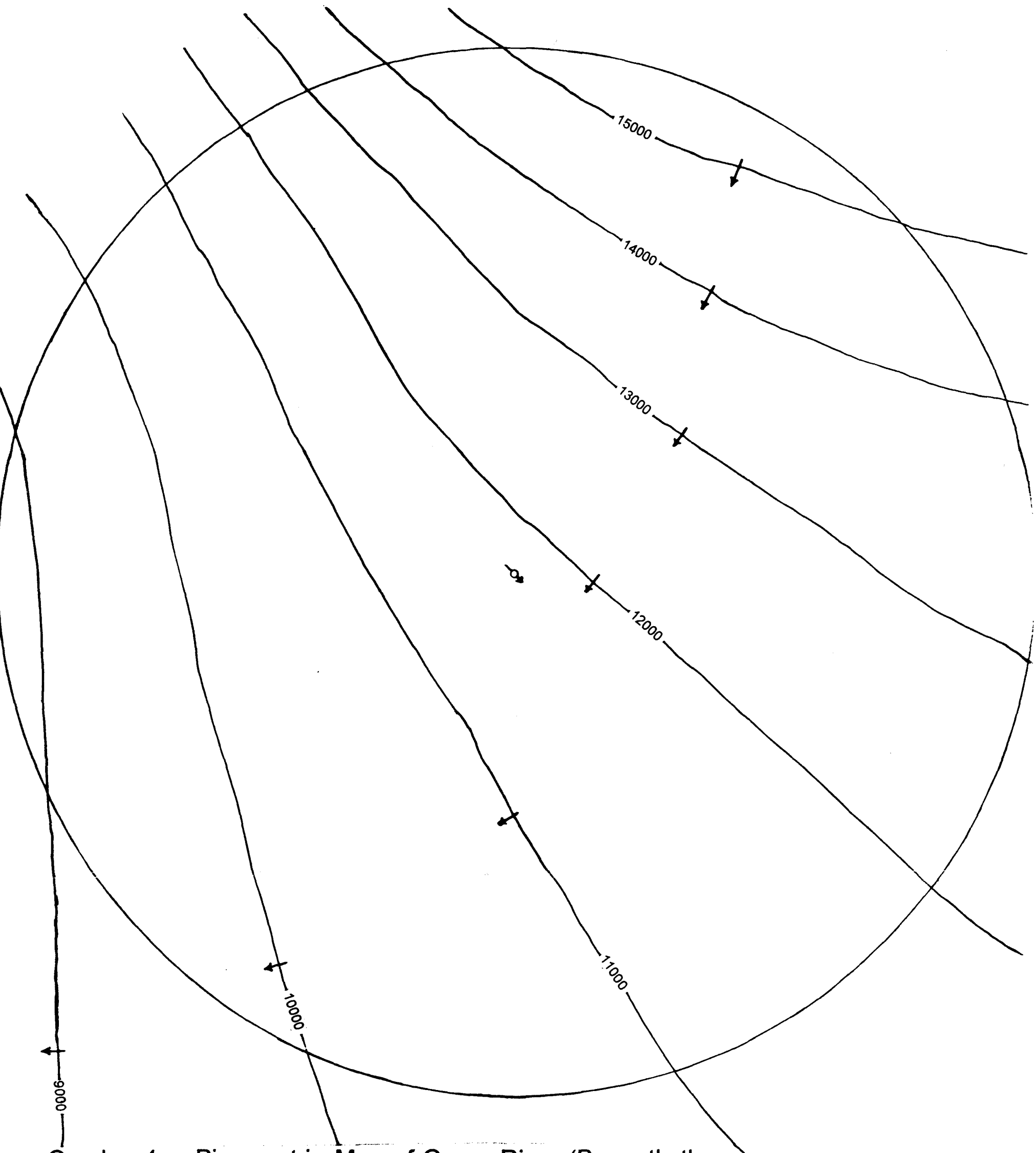


Overlay 3: Piezometric Map of Upper Green River Formation (Halite to Tgr3 and Above the Carbonate Marker)

EXISTING INJECTION ZONE

Head in feet AMSL

Arrows indicate direction of ground water flow (Normal to contours)



Overlay 4: Piezometric Map of Green River (Beneath the Carbonate Marker) and Wasatch Formations

BENEATH THE LOWER CONFINING ZONE

Head in feet AMSL

Arrows indicate direction of ground water flow (Normal to contours)

TABLE #2
ARTIFICIAL PENETRATIONS
PAGE 1/6

Owner	Pennzoil	Well Completed 10/30/84
Distance to Blue Bench 13-1	5707'	
Well Name	Smith	
Well Number	1-14C5	
Status	P&A	P&A Completed 2/3/92
Total Depth	11001	
Plug Back Depth	10671	
Surface Casing		
Size	9 5/8"	
Weight	36#	
Depth	0-1498	
Cement Info	910 sxs to surface	
Intermediate Casing		
Size	7"	
Weight	26#	
Depth	0-8798	
Cement Info	750 sxs Cement to 3060' calculated	
Liner Casing		
Size	5"	
Weight	NA	
Depth	8300-10671	
Cement Info	250 sxs Cement to 8650'	

P&A Info

CIBP @ 9420
CIBP @ 8251 w/100'cement cap
CIBP @ 7700 w/119'cement cap
Displace hole w/9.3# fresh water gell
CIBP @ 1599' w/ 210' cement cap
Cement plug 0-120'

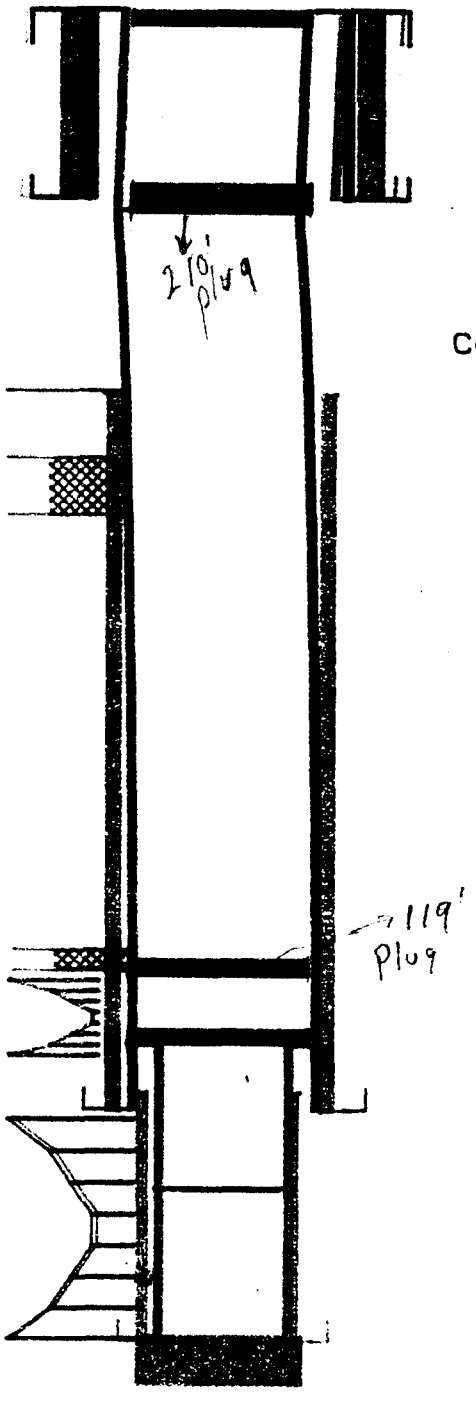
State forms attached to Table #2.

Above information was gathered from State of Utah Division of Oil, Gas and Mining well records and log files.

SMITH #1-14C5

NW/NE Sec 14 T3S R5W

(P&A)



10000 TDS DEPTH: 3043

UPPER CONFINING: 3580-4040

LOWER CONFINING: 7510-7680

*Lwr GR 7751-8360 (SI)

WS 8866-10644 (SI)

WELL DETAIL

CASING #1
9 5/8" O.D. in 12 1/4" hole
0 to 1498
Cement Top @ SURFACE

CASING #2
7" O.D. in 8 3/4" hole
0 to 8798
Cement Top @ 3060 (calculated)

CASING #3
5" O.D. in 6 1/8" hole
8300 to 10671
Cement Top @ 8850 (cbl)

CEMENT PLUGS
Internal: 0 to 120
Internal: 1389 to 1599
Internal: 7581 to 7700
Internal: 8151 to 8251

Bridge Plug @ 1599
Bridge Plug @ 7700
Bridge Plug @ 8251
Bridge Plug @ 9420

PBTD: 10617

— OPEN PERFS
* CEMENTED PERFS
SI: SELECTED INTERVALS

Diagram: 0" to 11001"
VERT Scale: 1"=1559"
HORZ Scale: 1"=7"
15 May 1993

Schematic #1A

October 3, 1984

Smith 1-14C5

Zones for Perforation

10641-44	9926-29	9436-40
10614-18	9860-66	9388-91
10542-50	9828-38	9354-58
10480-82	9818-26	9318-21
10470-78	9774-77	9288-94
10351-60	9746-48	9266-71
10224-27	9742-44	9257-59
10219-21	9734-38	9176-79
10175-78	9691-9702	9162-71
10169-71	9660-64	9146-51
10148-52	9620-24	9107-10
10116-120	9600-03	9001-04
10095-97	9594-96	8991-95
10081-83	9577-86	8985-87
10024-26	9536-39	8975-80
10019-21	9502-05	8914-18
9989-91	9496-98	8908-12
9966-69	9442-44	8878-84
		8866-70

55 Zones
225 Feet
675 Holes

RECEIVED
NOV 20 1984
DIVISION OF
GAS & MINING

October 3, 1984

Smith 1-14C5

Zones for Perforation

10641-44	9926-29	9436-40
10614		1
10542		8
10480		1
10470		4
10351		1
10224		9
10219		9
10175		1
10169		1
10148		0
10116		4
10095		5
10081		7
10024		0
10019		8
9989		2
9966		4
		8866-70

Confidential" Page on Smith 1-14C5 locked up

DNR form on new well completion

55 Zones
225 Feet
675 Holes

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DIVISION OF
GAS & MINING

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

2. Name of Operator
Pennzoil Exploration and Production Company

3. Address and Telephone No.
P.O. Box 2697, Houston, Texas 77252-2967 (713) 546-4000

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Section 14, T3S-R5W

8. Well Name and No.
Smith 1-14C5

9. API Well No.
43-013-30980

10. Field and Pool, or Exploratory Area
Altamont

11. County or Parish, State
Duchesne, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[X] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other _____	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Summary of work performed 5/14/91 to 6/7/91:

1. MIRU pulling unit.
2. Set CIBP at 9420' and another at 8500'.
3. Squeezed off perfs 7751-8360' with 250 sxs cement.
4. C.O. well to 9420'.
5. RIH with tubing.

RECEIVED
AUG 12 1991
DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Ralph C. Wells Title Supervising Engineer Date 8-8-91

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: 43-013-30980-00

6. If Indian, Allottee or Tribe Name:

7. If Unit or CA, Agreement Designation:

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Smith 1-14C5

2. Name of Operator: Pennzoil Exploration and Production Company

9. API Well No.: 43-013-30980

3. Address and Telephone No.: P.O. Box 2967, Houston, Texas 77252-2967 (713) 546-4000

10. Field and Pool, or Exploratory Area: Altamont Field

4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 1103' FNL and 1352' FEL Section 14, T3S-R5W

11. County or Parish, State: Duchesne County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[X] Abandonment	[ ] Change of Plans
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other _____	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1. Set 7" CIBP at 8250' with 100' cement on top.
2. Set 7" CIBP at 7700' with 100' cement on top.
3. Displace wellbore with 9 ppg jelled mud.
4. Set 7" CIBP at 1600' with 200' cement on top.
5. Set 100' surface cement plug.
6. Cut off casing 4' below surface. Cap casing and set well marker.
7. Remove surface equipment and reclaim location.
8. Starting date determined by approvals.

RECEIVED
DEC 16 1991
DIVISION OF
OIL GAS & MINING

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 12-18-91
BY: [signature]

14. I hereby certify that the foregoing is true and correct
Signed [signature] R.A. Williams Title Supervising Engineer Date 11-14-91

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: PENNZOIL EXPLORATION AND PRODUCTION CO.

3. ADDRESS OF OPERATOR: P.O. BOX 290 NEOLA, UT 84053

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1103' FNL & 1352' FEL (NW NE)

5. LEASE DESIGNATION AND SERIAL NO.: FEE LAND

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: SMITH

9. WELL NO.: 1-14C5

10. FIELD AND POOL, OR WILDCAT: ALTAMONT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SEC 14 T3S R5W

14. PERMIT NO.: API 43-013-30980-00

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5843 GR

12. COUNTY OR PARISH: DUCHESNE

13. STATE: UT

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]
(Other)			[ ]

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[X]
(Other)			[ ]

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

REPORT OF PLUGGING & ABANDONMENT
PLUGGING OPERATION PERFORMED 1/27/92-2/3/92

1. SET CIBP @ 8251'. PUMPED 25 SX. PLUG (100') ABOVE CIBP
2. SET CIBP @ 7700'. PUMPED 25 SX. PLUG (100') ABOVE CIBP
3. TAGGED TOP OF CEMENT @ 7581'.
4. DISPLACED HOLE W/9.3 PPG FRESH WATER GEL MUD
5. SET CIBP @ 1599'. PUMPED 50 SX. PLUG (210') ABOVE CIBP
6. PUMPED 25 SX. PLUG (100') FROM 120'
7. CUT OFF CASING AND CASING HEAD. INSTALLED DRY HOLE MARKER

FINISHED RESTORATION OF LOCATION 5/5/92.

RECEIVED
AUG 03 1992
DIVISION OF
OIL, GAS & MINING

I hereby certify that the foregoing is true and correct

SIGNED DR [signature] TITLE PETROLEUM ENGINEER DATE 7/31/92

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

TABLE #2
ARTIFICIAL PENETRATIONS
PAGE 2/6

Owner	Barrett Resources	Well Completed 9/27/81
Distance to Blue Bench 13-1	10,313'	
Well Name	G.Murphy	
Well Number	1-6C4	
Status	P&A Pending	
Total Depth	11900	
Plug Back Depth	11855	
Surface Casing		
Size	9 5/8"	
Weight	36#	
Depth	0-1502	
Cement Info	650 sxs to surface	
Intermediate Casing		
Size	7"	
Weight	29# & 26#	
Depth	0-9900	
Cement Info	850 sxs Cement to 4000	
Liner Casing		
Size	5"	
Weight	18#	
Depth	9594-11897	
Cement Info	325 sxs Cement to 9594	

P&A Info

Retainer @ 10554
CIBP @ 9470 w/20'cement cap
CIBP @ 8350 w/100'cement cap
Displace hole w/9.0# fresh water gell
CIBP @ 1602 w/ 200' cement cap
Cement plug 0-100'

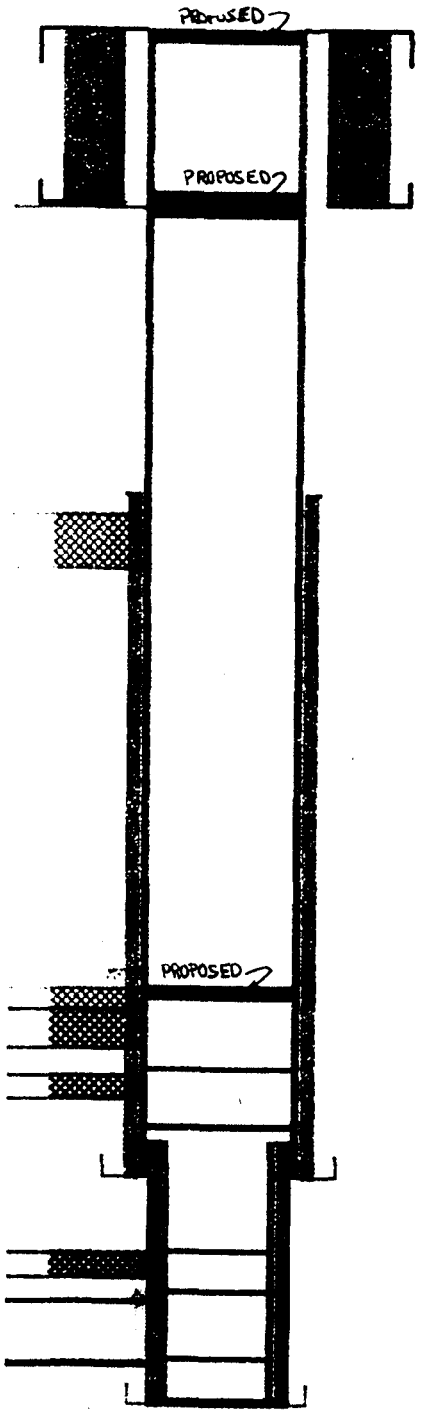
State forms attached to Table #2.

Above information was gathered from State of Utah Division of Oil, Gas and Mining well records and log files.

G. MURPHY #1-6C4

SE/NE Sec 6 T3S R4W

(Proposed P&A)



WELL DETAIL

CASING #1
9 5/8"O.D. in 14 3/4" hole
0 to 1502
Cement Top @ SURFACE

CASING #2
7"O.D. in 8 3/4" hole
0 to 9900
Cement Top @ 4000 (cbl)

CASING #3
[illegible]

CEMENT PLUGS
Internal: 0 to 100
Internal: 1402 to 1602
Internal: 8250 to 8350
Internal: 9450 to 9470

Bridge Plug @ 1602
Bridge Plug @ 8350
Bridge Plug @ 8970
Bridge Plug @ 9470
Retainer @ 10554
Retainer @ 10910
Bridge Plug @ 11500

PBTD: 11855

\- OPEN PERFS
* CEMENTED PERFS

Diagram: 0' to 11900'
VERT Scale: 1"=1687'
HORZ Scale: 1"=8.5"
15 May 1993

Schematic #2A

Form DOGC-1

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION
1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
328 5771

State Lease No.
Federal Lease No.
Indian Lease No.
Fee & Pat.

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE Utah COUNTY Duchesne FIELD/LEASE Altamont

The following is a correct report of operations and production (including drilling and producing wells) for the month of May, 19 81.

Agent's Address P. O. Box 2619
Casper, WY 82602

Phone No. 307-235-1311

Company Gulf Oil Corporation
Signed Lora L. Mayhew
Title Senior Clerk

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (in thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (If drilling, depth; if shut down, ca date and result of test for gasoli content of gas)
SW NE 6	3S	4W	1-6C4		6/1/81 TD 10220'. Drlg. w/Howco 350 sx Class "G" w/add. Circ 15 bbls cmt to surf & WOC. 7" csg set @ 9877'. Cmt 1st stage as follows: 100 sx Class "G" w/add followed by 350 sx Class "G" w/add. Cmt 2nd stage as follows: 400 sx Class "G" w/add.					9-5/8" csg @ 1502'. Circ & cmt

DISTRIBUTION:

2-Utah Oil & Gas
1-DeGolyer & MacNaughton
5-NUBDPPC
1-United Canso Oil & Gas Ltd
1-Wiggins, Townsend & Co.
1-Badger Oil & Gas
1-Tax Dept
1-Houston
1-OC
1-GP
2-File

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JUN 2
DIVISION OF
OIL, GAS & MINING

Geritz Murphy 1-6C4

GAS: (MCF)
Sold
Flared/Vented
Used On/Off Lease

OIL or CONDENSATE: (To be reported in Barrels)
On hand at beginning of month
Produced during month
Sold during month
Unavoidably lost
Reason:
On hand at end of month

DRILLING, PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

NOV 05 1990

8. Well Name and No.
Geritz Murphy 1-6C4

2. Name of Operator
Pennzoil Exploration and Production Company

9. API Well No.
43-013-30573 POW / TA

3. Address and Telephone No.
P.O. Box 2967, Houston, Texas 77252-2967 (713 546-4000

10. Field and Pool, or Exploratory Area
Altamont

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1976' FNL and 1978' FEL (SW/4, NE/4)
Sec. 6, 3S, 4W

11. County or Parish, State
Duchesne, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other Acidizing	☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

THE FOLLOWING IS A SUMMARY OF WORK PERFORMED BETWEEN
6/7/90 and 6/27/90 ✓

1. MIRU.
2. Set 7", 29# CIBP @ 9470'. Dump bailed 20' cement on plug.
3. Perforated 9026-9226' with 4 spf using 5" TCP.
4. Acidized perfs 9026-9226' with 15,000 gallons 15% HCl.
5. Placed on hydraulic pump.

14. I hereby certify that the foregoing is true and correct

Signed _____ Title Supervising Engineer Date 10-31-90

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Form 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

6. Lease Designation and Serial Number

7. Indian Allottee or Tribe Name

8. Unit or Communitization Agreement

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT— for such proposals

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DIVISION OF
OIL, GAS & MINING

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other (specify)

9. Well Name and Number
Geritz Murphy 1-6C4

2. Name of Operator
Pennzoil Exploration and Production Company

10. API Well Number
43-013-30573-00 POW

3. Address of Operator
P.O. Box 2967, Houston, Texas 77252-2967

4. Telephone Number
713-546-4000

11. Field and Pool, or Wildcat
Altamont

5. Location of Well
Footage : 1976' FNL and 1978' FEL (SE/4, NE/4)
QQ, Sec., T., R., M. : Section 6, T3S-R4W
County : Duchesne
State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

- ☐ Abandonment
- ☐ Casing Repair
- ☐ Change of Plans
- ☐ Conversion to Injection
- ☐ Fracture Treat
- ☐ Multiple Completion
- ☐ Other
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Recompletion
- ☐ Shoot or Acidize
- ☐ Vent or Flare
- ☐ Water Shut-Off

Approximate Date Work Will Start 10/29/90

SUBSEQUENT REPORT
(Submit Original Form Only)

- ☐ Abandonment *
- ☐ Casing Repair
- ☐ Change of Plans
- ☐ Conversion to Injection
- ☐ Fracture Treat
- ☒ Other Recomplete in Upper Green River
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Shoot or Acidize
- ☐ Vent or Flare
- ☐ Water Shut-Off

Date of Work Completion 11/25/90

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.
* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

SUMMARY OF WORKOVER FROM 10/29/90 to 11/25/90

1. MIRU pulling unit. POOH with production tubing
2. Set 7" CIBP at 8970'.
3. Perforated Green River from 8107-8790' (296', 888 holes). → CONFLICTS WITH WELL STATUS REPORT 1/22/92 WHICH STATES TOP PERF @ 8,450
4. Swab tested and ran production log.
5. Installed hydraulic pumping equipment.
6. RD pulling unit. Job complete.

Jess Dullnig
Neola, Utah
11/29/90

14. I hereby certify that the foregoing is true and correct

Name & Signature R. A. Williams Title Supervising Engineer Date 12-2-90

(State Use Only)

(90)

See Instructions on Reverse Side

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: 43-013-30573-00
6. If Indian, Allottee or Tribe Name:
7. If Unit or CA, Agreement Designation:

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other
2. Name of Operator: Pennzoil Exploration and Production Company
3. Address and Telephone No.: P.O. Box 2967, Houston, Texas 77252-2967
4. Location of Well (Footage, Sec., T., R., M., or Survey Description): Section 6, T3S-R4W
8. Well Name and No.: G. Murphy 1-6C4
9. API Well No.: 43-013-30573
10. Field and Pool, or Exploratory Area: Altamont
11. County or Parish, State: Duchesne, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[X] Abandonment	[ ] Change of Plans
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other _____	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1. Set 7" CIBP at 8350' and top with 100' cement.
2. Displace wellbore with 9.0 ppg gelled mud.
3. Set 7" CIBP at 1602' and top with 200' cement.
4. Set 100' surface cement plug.
5. Cut off casing 4' below surface.
6. Cap casing and set well marker.
7. Remove production equipment and restore location.
8. Starting date determined by approvals.

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 2-24-92
BY: [signature]

I hereby certify that the foregoing is true and correct
Signed [signature] Title Supervising Engineer Date 1-22-92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

WELLBORE SCHEMATIC

WELL NAME G. Murphy 1-6C4

AS OF Proposed Abandonment.

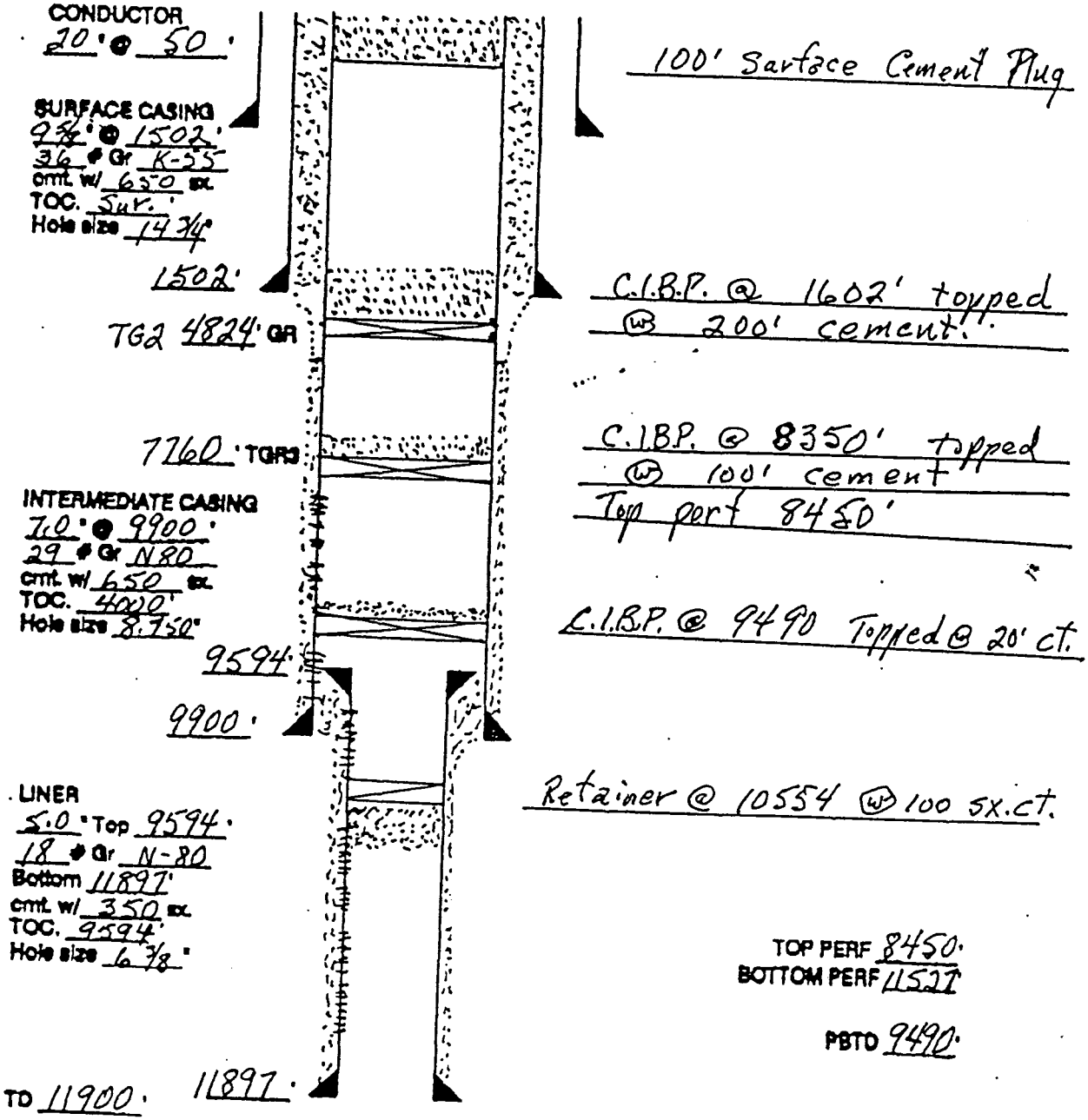


TABLE #2
ARTIFICIAL PENETRATIONS
PAGE 3/6

Owner	Amtech	Well Completed 10/31/84
Distance to Blue Bench 13-1	9,462'	
Well Name	Paiute-Walker	
Well Number	1-7	
Status	Producing	
Total Depth	10122	
Plug Back Depth	10122	
Surface Casing		
Size	10 3/4"	
Weight	40.5#	
Depth	0-1000	
Cement Info	To surface	
Production Casing		
Size	7"	
Weight	23#,26#,29# & 32#	
Depth	0-10122	
Cement Info	750 sxs Cement to 3320' Calculated - Bond log not available	

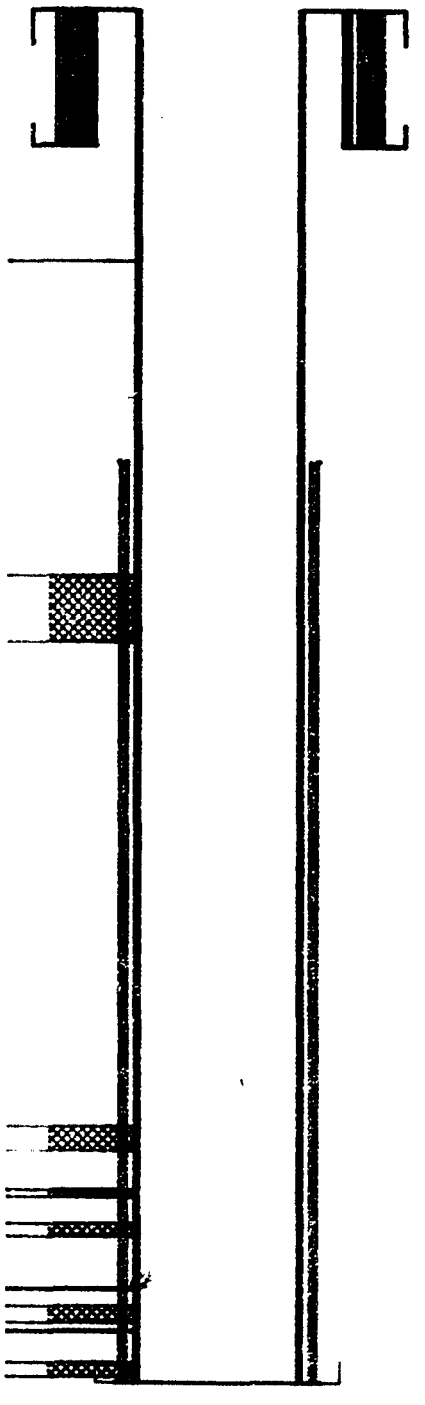
State forms attached to Table #2.

Above information was gathered from State of Utah Division of Oil, Gas and Mining well records and log files.

PAUITE WALKER #1-7

SW/NE Sec 1 T3W R5W

Producing



10000 TDS DEPTH: 1847

UPPER CONFINING: 4160-4640

LOWER CONFINING: 8220-8400

GR/WS 8690-8742

GR/WS 8940-9032

GR/WS 9420-9430

GR/WS 9552-9676

GR/WS 9735-9745

GR/WS 9973-10079

WELL DETAIL

CASING #1
10 3/4"O.D. in 13 3/4" hole
0 to 1000
Cement Top @ SURFACE

CASING #2
7"O.D. in 8 1/2" hole
0 to 10122
Cement Top @ 3320 (calculated)

PBTD: 10122

\- OPEN PERFS
* CEMENTED PERFS

Diagram: 0' to 10122'
VERT Scale: 1"=1435'
HORZ Scale: 1"=7.9"
15 May 1993

Schematic #3A

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

56 64 ~~01~~ 7

8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [X] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Paiute Oil & Mining Corporation

3. ADDRESS OF OPERATOR: 1901 Prospector Sq. Box 1329 Park City, Utah 84060

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: ~~1976~~ 1976' FNL 1976' FEL SW NE
At top prod. interval reported below
At total depth: As Above

5. LEASE DESIGNATION AND SERIAL NO.: -

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

7. UNIT AGREEMENT NAME: -

8. FARM OR LEASE NAME: Paiute

9. WELL NO.: 1-7 ND

10. FIELD AND POOL, OR WILDCAT: Altamont ~~Duchesne~~

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 1, T3S, R5W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: 43-013-30914 DATE ISSUED: 4-1-84

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
4-20-84	6-5-84	10-31-84	5997	5998

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
10,119	10,119		→	X	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Wasatch Same as Perfs

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: C/O, SGR, Ln, Gr & Bond Log

27. WAS WELL CORED: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10-/34	40.5	1000'	13-3/4	To Surface	
7	29, 26 & 23				

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8		
2-1/16	4650	

31. PERFORATION RECORD (Interval, size and number)

9973-89
9991-97
10011-17
10034-40
10051-57
10075-79

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
11-2-84	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11-2-84	14	20/64	→	196	750,000	0	38,300-1

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
400	0	→	336	750,000	0	52 @ 130%

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Used on Lease

TEST WITNESSED BY: Richard Ivy

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Donald J Johnson TITLE Vice President-Oil & Gas DATE 11-8-84

*(See Instructions and Spaces for Additional Data on Reverse Side)

TABLE #2
ARTIFICIAL PENETRATIONS
PAGE 4/6

Owner	Pennzoil	Well Completed 12/31/76
Distance to Blue Bench 13-1	8,714'	
Well Name	Fortune Ute	
Well Number	1-11C5	
Status	Producing	
Total Depth	11540	
Plug Back Depth	11497	
Surface Casing		
Size	9 5/8"	
Weight	36#	
Depth	0-3397	
Cement Info	1050 sxs to surface	
Intermediate Casing		
Size	7"	
Weight	26#	
Depth	0-9410	
Cement Info	525 sxs Cement to 7960'	
Liner Casing		
Size	5 1/2"	
Weight	20#	
Depth	8915-11538	
Cement Info	495 sxs Cement to 8915'	

State forms attached to Table #2.

Above information was gathered from State of Utah Division of Oil, Gas and Mining well records and log files.

FORTUNE UTE #1-11C5

SW/NE Sec 11 T3S R5W

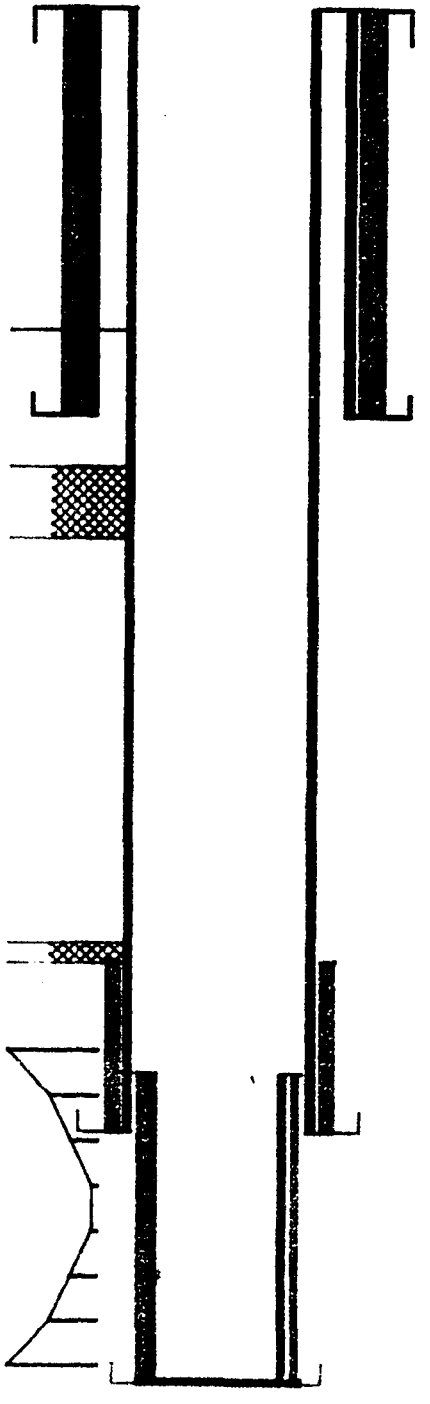
PRODUCING

10000 TDS DEPTH: 2687

UPPER CONFINING: 3830-4430

LOWER CONFINING: 7810-7980

GR/WS 8721-11386 (SI)



WELL DETAIL

CASING #1
9 5/8"O.D. in 12 1/4" hole
0 to 3397
Cement Top @ SURFACE

CASING #2
7"O.D. in 8 3/4" hole
0 to 9410
Cement Top @ 7960 (cbl)

CASING #3
5"O.D. in 6 1/8" hole
8915 to 11538
Cement Top @ 8915 (cbl)

PBTD: 11497

- OPEN PERFS
*** CEMENTED PERFS**
SI: SELECTED INTERVALS

Diagram: 0' to 11540'
VERT Scale: 1"=1635'
HORZ Scale: 1"=7"
15 May 1993

Schematic #4A

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: 14-20-H62-2390
6. If Indian, Allottee or Tribe Name: Ute Tribal
7. If Unit or CA, Agreement Designation:
1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other
8. Well Name and No.: Fortune Ute 1-11C5
2. Name of Operator: Pennzoil Exploration and Production Company
9. API Well No.: 43-013-30402
3. Address and Telephone No.: P.O. Box 2967 Houston, Texas 77252-2967 (713) 546-4000
10. Field and Pool, or Exploratory Area: Altamont
4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 1721' FNL and 2094' FWL ~~(SW NE)~~ SENW Section 11, T3S-R5W
11. County or Parish, State: Duchesne, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other Shoot or Acidize	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Workover conducted 7/16/91 thru 8/18/81:

1. Drilled out CIBP at 9450'.
2. Tagged filled 11,428'.
3. Perf'd additional Wasatch and Lower Green River 9465-11,386' (103 intervals, 755', 1510 holes).
4. Acidized all perfs 8721-11,386' with 40,000 gallons 15% HCl.
5. Returned to parallel-free hydraulic pumping system.

RECEIVED
SEP 0 9 1991
DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed Ralph A. Wall Title Supervising Engineer Date 8-28-91

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-H62-2390

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute

7. UNIT AGREEMENT NAME: ---

8. FARM OR LEASE NAME: Fortune Ute Federal

9. WELL NO.: 1-11C5

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 11-3S-5W

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Gulf Oil Corporation

3. ADDRESS OF OPERATOR: P. O. Box 2619; Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 1907' SNL & 1695' EWL (SE NW)
At top prod. interval reported below: Same
At total depth: Same

RECEIVED JAN 12 1977 DIVISION OF OIL, GAS & MINING

14. PERMIT NO. --- DATE ISSUED ---

12. COUNTY OR PARISH: Duchesne 13. STATE: Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
10-10-76	11-28-76	12-31-76	5937' GL	---

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
11540'	11,497'		→	Rotary	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 11,387'-9,464' Wasatch

25. WAS DIRECTIONAL SURVEY MADE:

26. TYPE ELECTRIC AND OTHER LOGS RUN: BHC, CDL, DIFL

27. WAS WELL CORED: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	36#	3397'	12 1/4"	1,050 sx	
7"	26#	9410'	8 3/4"	525 sx	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
5"	8,915'	11,538'	495	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"		8,846'
2 1/16"	4,015'	

31. PERFORATION RECORD (Interval, size and number): See Attached

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
9464' - 11,387'	30,000 gal. 15% HCl

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
12-24-76	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
12-31-76	19	24/64"		1,056	1,606	0	1520

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
2325 psi	---		1334	2,028	0	45.3°

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Lease fuel and sold to Shell's Altamont Gas Plant

TEST WITNESSED BY:

35. LIST OF ATTACHMENTS: Logs per item 26 and perforation record

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED J. D. Richards TITLE Area Production Manager DATE 1-10-77

*(See Instructions and Spaces for Additional Data on Reverse Side)

TABLE #2
ARTIFICIAL PENETRATIONS
PAGE 5/6

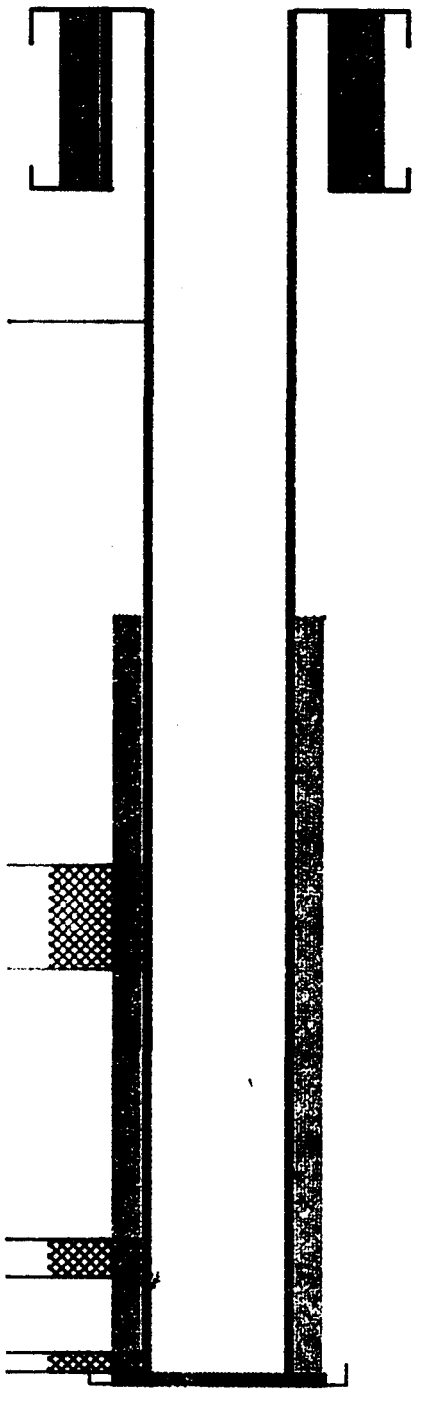
Owner	Barrett Resources	Well Completed 2/3/77
Distance to Blue Bench 13-1	9,987'	
Well Name	Duchesne County	
Well Number	1-17C4	
Status	Temporarily Abando ned	
Total Depth	6040	
Plug Back Depth	5793	
Surface Casing		
Size	8 5/8"	
Weight	24#	
Depth	0-786'	
Cement Info	390 sxs To surface	
Production Casing		
Size	5 1/2"	
Weight	14#	
Depth	0-6038	
Cement Info	510 sxs Cement to 2653' available	Calculated Bond log not

State forms attached to Table #2.

Above information was gathered from State of Utah Division of Oil, Gas and Mining well records and log files.

DUCHESNE COUNTY #1-17

NW/NE Sec 17 T3S R4W
(TA)



WELL DETAIL

CASING #1
8 5/8"O.D. in 12 1/4" hole
0 to 786
Cement Top @ SURFACE

CASING #2
5 1/2"O.D. in 7 7/8" hole
0 to 6038
Cement Top @ 2653 (calculated)

PBTD: 5993

\- OPEN PERFS
* CEMENTED PERFS

Diagram: 0' to 6040'
VERT Scale: 1"=856'
HORZ Scale: 1"=7"
15 May 1993

Schematic #5A

Form OGC-3

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other PA'd

2. NAME OF OPERATOR: Gulf Oil Corporation

3. ADDRESS OF OPERATOR: P. O. Box 2619, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 1247' FNL & 1514' FEL (NW NE)
At top prod. interval reported below: Same
At total depth: Same

5. LEASE DESIGNATION AND SERIAL NO.: ----

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: ----

7. UNIT AGREEMENT NAME: ----

8. FARM OR LEASE NAME: Duchesne County

9. WELL NO.: 1-17C4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 17-3S-4W

14. PERMIT NO. / DATE ISSUED

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
10-27-76	11-13-76	2-3-77 SI	5913' GL	----

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
6040'	5793'	----	→	10' - TD	None

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Shut in

25. WAS DIRECTIONAL SURVEY MADE: ----

26. TYPE ELECTRIC AND OTHER LOGS RUN
DILL, FDC, Fracture Indicator

27. WAS WELL CORED: Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
24"	--	22'	--	Cmt to surface	
8-5/8"	24	786'	12-1/4"	390 sx	
5-1/2"	14	6038'	7-7/8"	510 sx	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
----				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5262.75'	----

31. PERFORATION RECORD (Interval, size and number)
5900' - 5986' 4 holes/ft.
5394' - 5560' 4 holes / ft

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5900 - 86'	8000 gal diesel

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
----	Shut In	Shut In

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
----	----	----		----	----	----	----

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
----	----		----	----	----	----

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
NA

TEST WITNESSED BY

35. LIST OF ATTACHMENTS
Logs per Item #26

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED H. L. Sealy TITLE Area Engineer DATE June 8, 1977

*(See Instructions and Spaces for Additional Data on Reverse Side)

TABLE #2
ARTIFICIAL PENETRATIONS
PAGE 6/6

Owner	Pennzoil	Well Completed 8-20-72
Distance to Blue Bench 13-1	6,840'	
Well Name	Blue Bench	
Well Number	1-7C4	
Status	P&A	P&A Completed 3/12/90
Total Depth	12660	
Plug Back Depth	12580	
Surface Casing		
Size	10 3/4"	
Weight	40.5#	
Depth	0-1090	
Cement Info	to surface	
Intermediate Casing		
Size	7 5/8"	
Weight	29.7#	
Depth	0-9772	
Cement Info	800 sxs Cement to 4871 based on squeeze cementing of leaks in casing	
Liner Casing		
Size	5 1/2"	
Weight	20#	
Depth	9263-12361	
Cement Info	500 sxs Cement to 9263	

P&A Info

Retainer @ 11711 squeeze perfs to 12269
CIBP @ 6000
Cement squeeze 5676-5730 w/ 100 sxs (perfs)
Cement squeeze 4871-5625 w/ 900 sxs (csg leaks)
100 sx plug 5004-5420
Perf casing @ 2675'
Retainer @ 2675 pump 100 sxs below retainer 20 sxs on top of retainer
Perf casing @ 1130
Retainer @ 961 pump 340 sxs below retainer
Perf casing @ 103 pump 30 sxs down casing & up surface casing

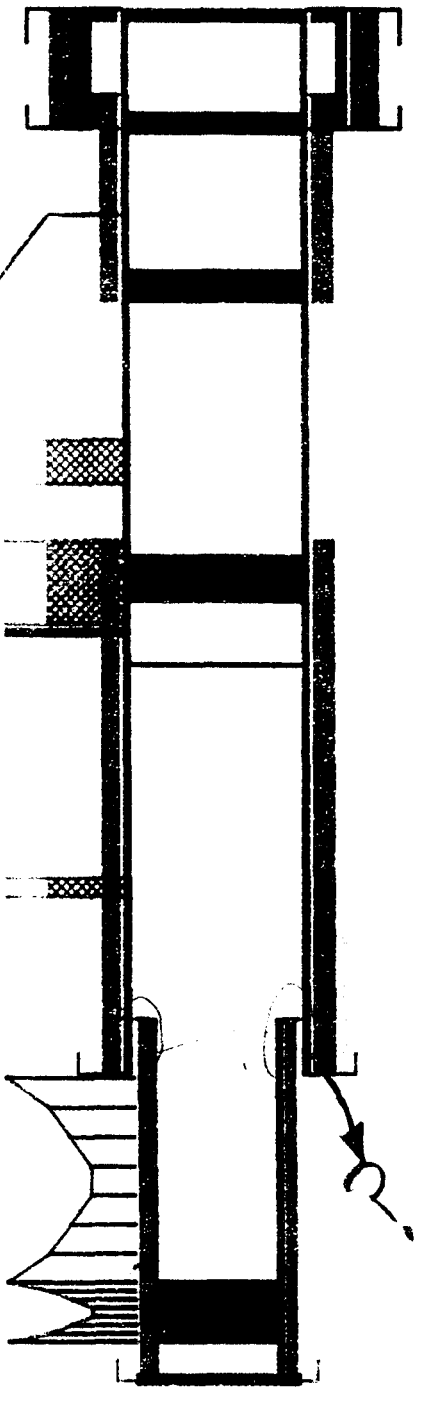
State forms attached to Table #2.

Above information was gathered from State of Utah Division of Oil, Gas and Mining well records and log files.

BLUEBENCH #1-7C4

C/NE Sec 7 T8S R4W

P&A



*LEAKS 4871-5625
*GRiver 5676-5700
*GRiver 5718-5730

LOWER CONFINING: 7960-8130

Wstch 9804-11711 (SI)

*Wstch 11711-12269 (SI)

WELL DETAIL

CASING #1
10 3/4"O.D. in 13 3/4" hole
0 to 1090
Cement Top @ SURFACE

CASING #2
7 5/8"O.D. in 9 7/8" hole
0 to 9772
Cement Top @ 4871 (calculated)

CASING #3
5 1/2"O.D. in 7 7/8" hole
9268 to 12660
Cement Top @ 8130 (calculated)

CEMENT PLUGS
Annular: 0 to 103
Annular: 785 to 1090
Annular: 1090 to 2675
Internal: 0 to 103
Internal: 961 to 1130
Internal: 2389 to 2675
Internal: 5004 to 5420
Internal: 11711 to 12269

Retainer @ 961
Retainer @ 2478
Bridge Plug @ 6000
Retainer @ 11711

PBTD: 12580

\- OPEN PERFS
* CEMENTED PERFS
SI: SELECTED INTERVALS

Diagram: 0' to 12660'
VERT Scale: 1"=1794'
HORZ Scale: 1"=7.9"
15 May 1993

Schematic #6A

(Formerly 9-331) DEPARTMENT OF THE INTERIOR (Other instructions on reverse side)
BUREAU OF LAND MANAGEMENT

Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR
Pennzoil Exploration and Production Company

3. ADDRESS OF OPERATOR
P.O. Box 2967, Houston, TX 77252

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1320' FNL and 1320' FEL (center NE¼)

5. LEASE DESIGNATION AND SERIAL NO.
FEE LAND

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Ute Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Bluebench

9. WELL NO.
1-7C4

10. FIELD AND POOL, OR WILDCAT
Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 7, T3S, R4W

14. PERMIT NO.
API 43-013-30116-00

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5959 (GR)

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]
(Other)			

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[X]
(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Well plugged 3/8/90-3/12/90 as witnessed by BLM inspector D. Brown as follows:

1. Circ well full of 13 ppg drilling mud.
2. Spotted 100 sx balance plug 5004-5420'.
3. Perforated 4 holes at 2675'.
4. Set cement retainer at 2478' and pumped 100 sx cement below retainer, left 20 sx on top of retainer.
5. Perforated 4 holes at 1130'.
6. Set cement retainer at 961' and pumped 340 sx cmt below retainer with full returns up surface casing. No cement to surface.
7. Perforated 4 holes at 103'. Pumped 30 sx cement down 7-5/8" casing. Returned cement to surface up surface casing.
8. Installed 4" OD dry hole marker inscribed.

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
1-TAS	
2- MICROFILM	
3- FILE	

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE Supervising Engineer DATE 3-27-90

(This space for Federal or State office use)

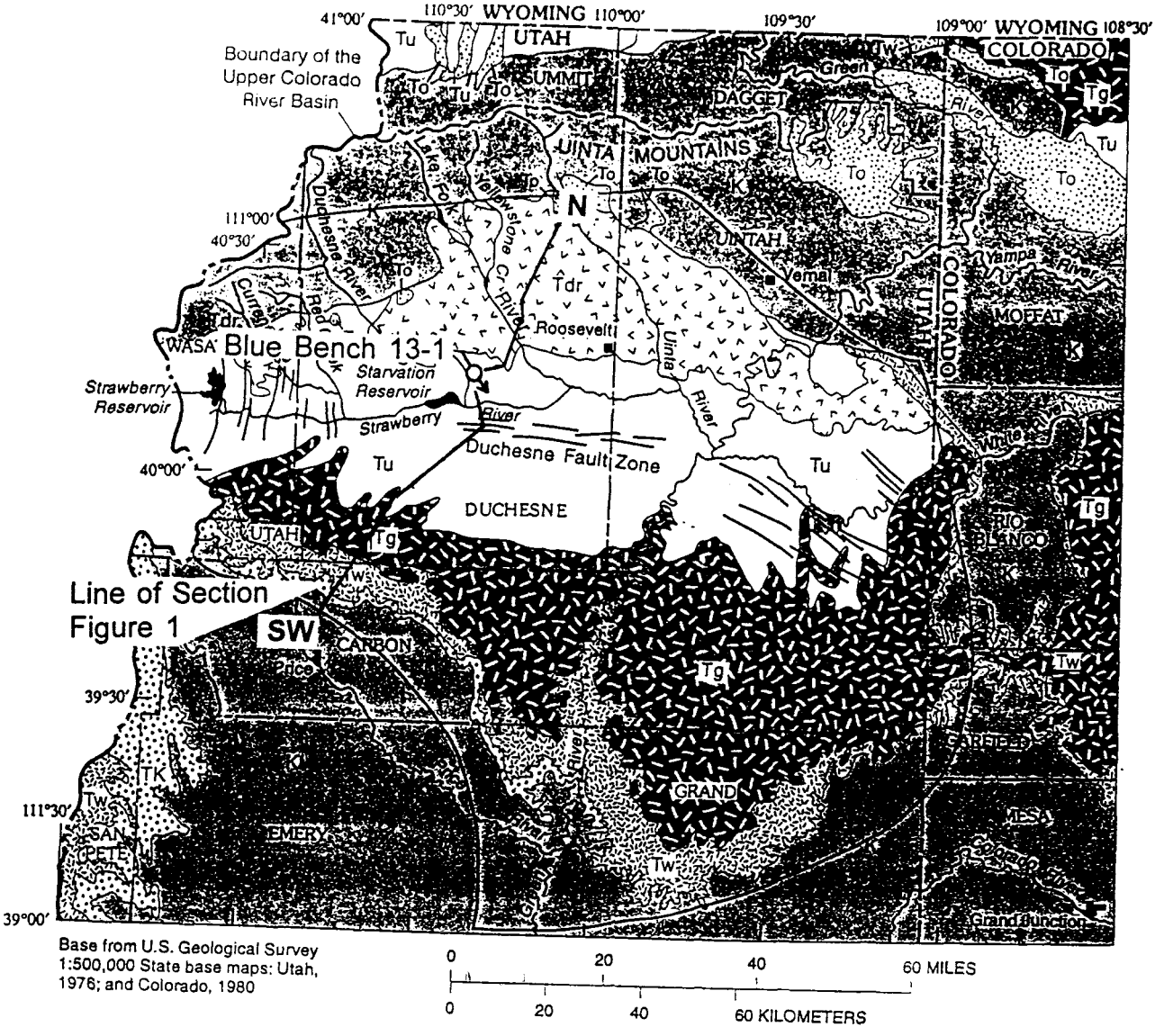
APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

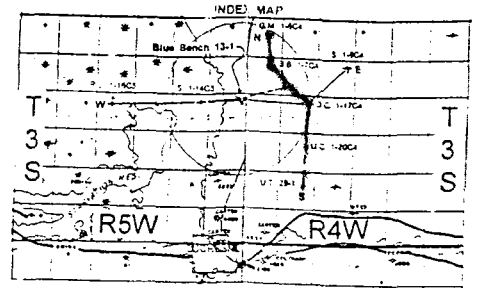
AIR PHOTO 1: AREA OF MAP 1



EXPLANATION

- To — OLIGOCENE AND YOUNGER ROCKS– Includes formations younger than Duchesne River Formation
- Tdr — DUCHESNE RIVER FORMATION
- Tu — UINTA FORMATION AND EQUIVALENT BRIDGER FORMATION NORTH OF THE UINTA MOUNTAINS
- Tg — GREEN RIVER FORMATION
- Tw — WASATCH FORMATION
- TK — TERTIARY FORMATIONS OLDER THAN WASATCH FORMATION
- K — CRETACEOUS AND OLDER ROCKS
- FAULT OR GILSONITE VEIN
- BOUNDARY OF THE UINTA BASIN

Figure 2: Local and Regional Surface Geology



The only X-sect. presented provides is an interpretive X-section (presents no wireline logs) Is this acceptable?

S

Uinta-Taylor Fund Ltd
U. T. 29-1

Barrett Resources
U. C. 1-20C4

Pennzoil
D. C. 1-17C4

Projected into Line of Section
Blue Bench Disposal
Blue Bench 13-1

Pennzoil
B. B. 1-7C4

N

Barrett Resources
G. M. 1-6C4

6,150' | 6,050' | 3,650' | 3,650' | 4,600'

Surface

MARKERS

Tgr

Base of Moderately Saline Water

Lacustrine Highstand 1

Halite

Base of Highly Saline Water

Horse Bench Ss.

Brine

Open Injection Intervals

Mahogany

Lacustrine Highstand 2

SEA LEVEL

Tgr3

Brine

TD 6,040
SOW

Lacustrine Highstand 3

UINTA FM.

UPPER GREEN RIVER FM.

DATUM

LOWER GREEN RIVER FM.

TD 9,315
POW

TD 9,910
SOW

TD 9,234
Injector

TD 12,660
P&A

TD 11,900
POW

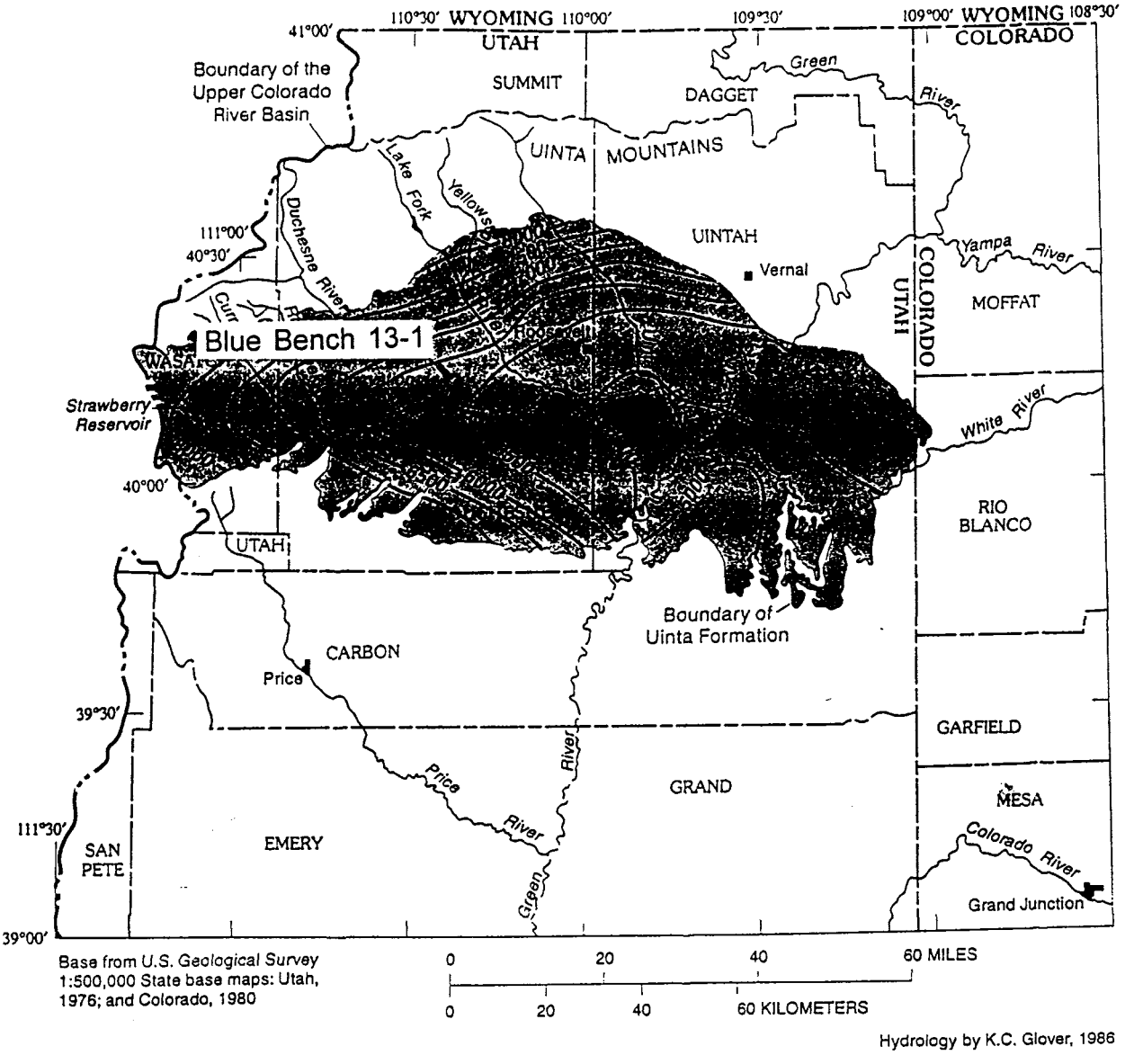
Marginal Lacustrine Facies
(BLUE BENCH 13-1 INJECTION ZONE)

Scale
2,000' 1,000' 0
2,000' 1,000'

Lacustrine Highstand Facies

Confining Zone

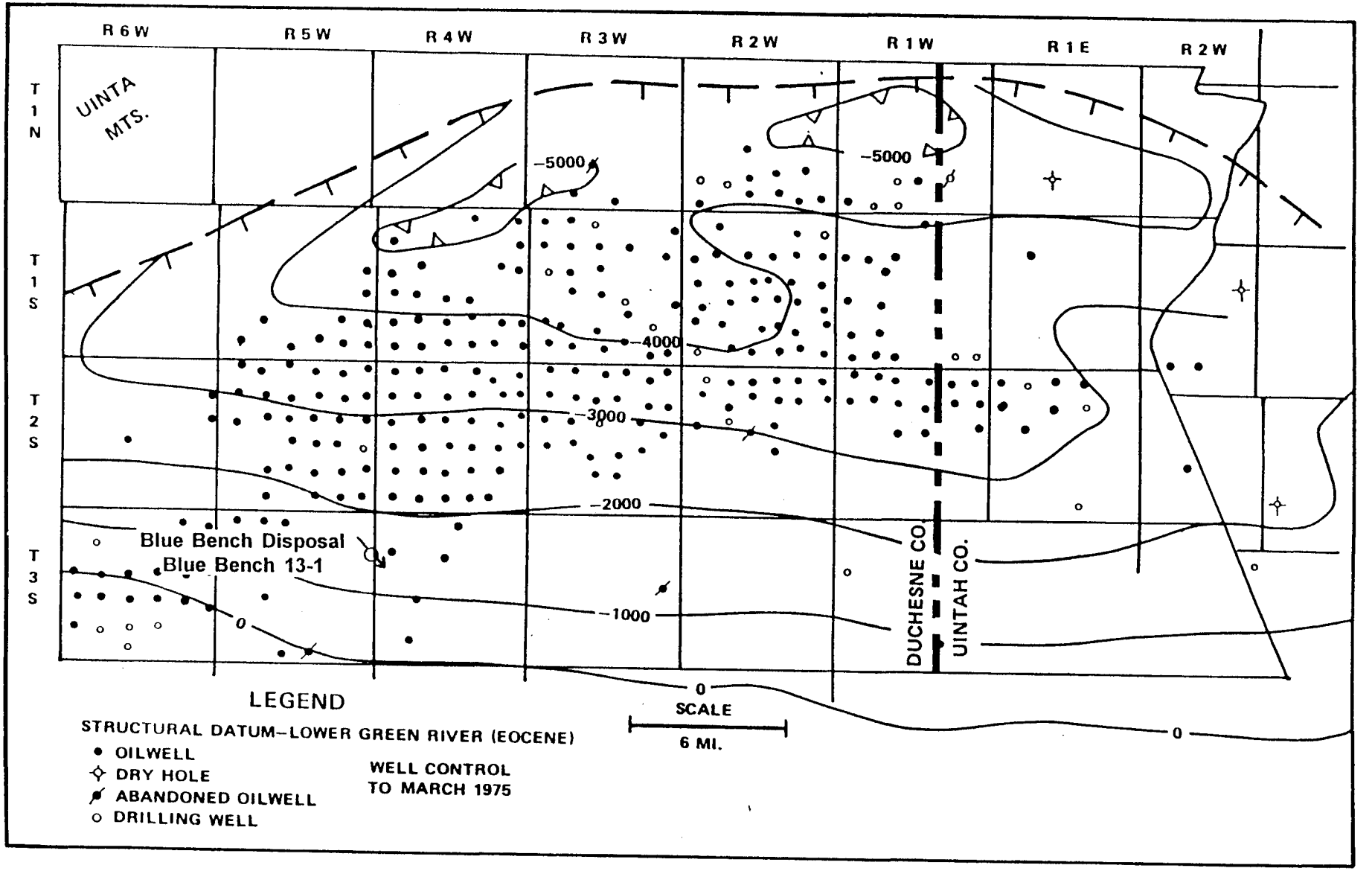
Cross Section 2: South-North Compiled from Deep Wells



EXPLANATION

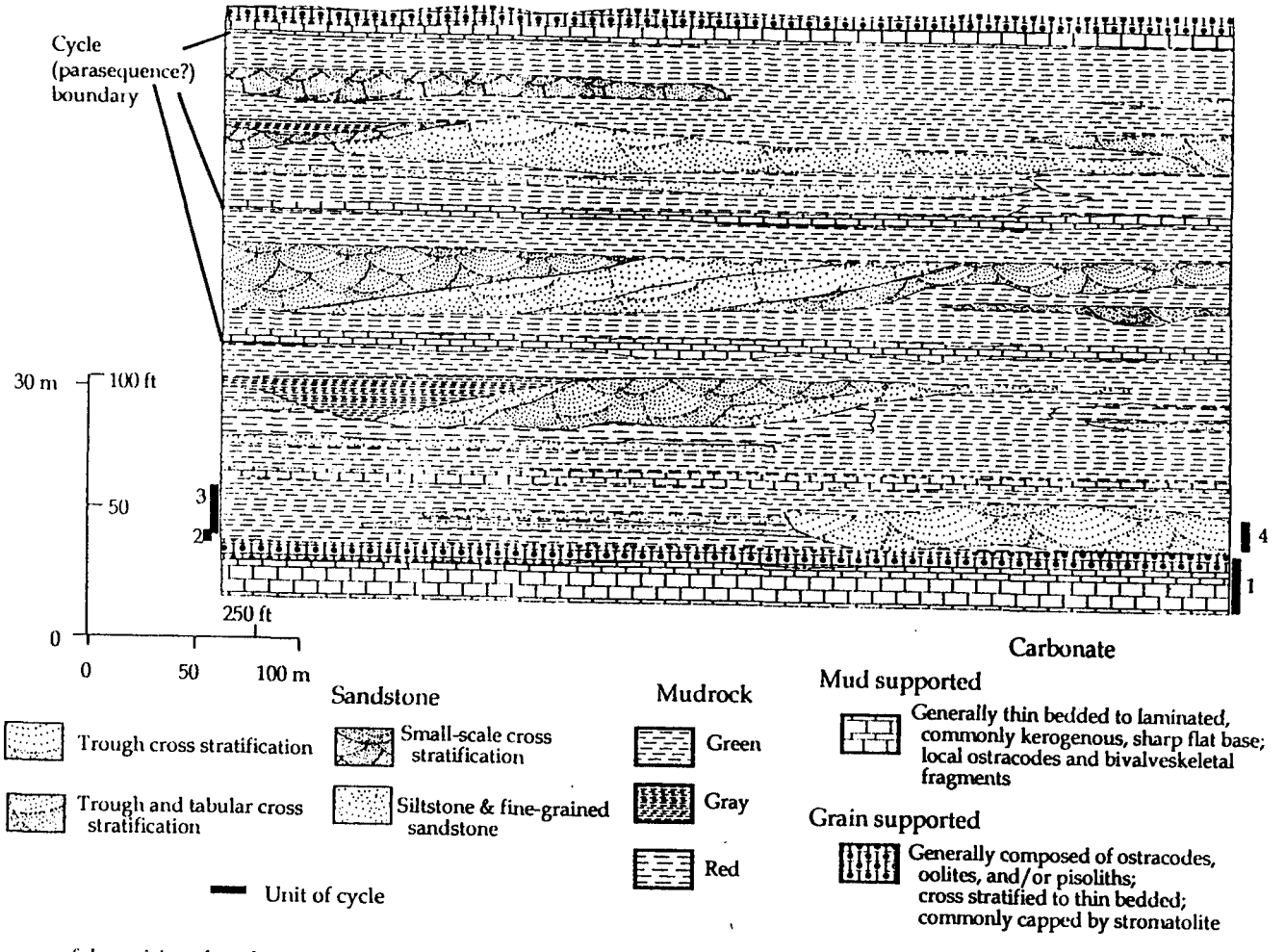
— *6500* — POTENTIOMETRIC CONTOUR-Shows altitude at which water level would have stood in tightly cased wells, 1985. Contour interval is 500 feet. Datum is sea level

Figure 3: Piezometric Map of Duchesne River-Uinta Aquifer (Similar Conditions Exist in the Upper Green River Formation Injection Zone)



— Structure map middle Green River marker, Altamont-Bluebell field, Utah. The structural nose across the east end of the field is the site of the original shallow Bluebell production.

Figure 4: Structure Contour Map of Green River Formation Drawn on Top of Middle (Tgr3) Marker (Located in Lower Part of Injection Zone)



Panel diagram of depositional cycles (parasequences?) between the carbonate and middle markers of the Green River Formation in a marginal-lacustrine setting exposed in strata near the intersection of Nine Mile and Gate Canyons. A cyclic depositional sequence in lower and middle Eocene marginal-lacustrine setting from oldest to youngest consists of: (unit 1) laterally continuous (as much as several miles) mud-supported, laminated carbonate rock or oil shale with a flooding surface at the base shoaling to an ostracode-, pisolite-, and (or) oolite-grainstone; (unit 2) mudcracked mudstone and (or) stromatolitic carbonate; (unit 3) mudcracked overbank mudstone or sandstone; and (unit 4) coalesced channel sandstone that locally eroded down to the underlying carbonate (unit 1) and aggraded laterally to form a composite sandstone sheet. Carbonate beds (unit 1) can commonly be traced over large areas using borehole logs. This sequence is typical of those throughout the lake system formed in a marginal-lacustrine setting crossed by numerous streams (also see Ryder and others, Fig. 9, 1976). The principal source and reservoir rocks for Tertiary strata are controlled by the geometry of the sedimentary and geochemical cycles. Marginal-lacustrine channel sandstones comprise the principal reservoirs for oil and associated gas in Tertiary strata, and alluvial channel sandstones are the basin's principal Tertiary (and Cretaceous) reservoirs for nonassociated gas.

Figure 5: Lithologic Relationships in the Injection Zone

TABLE 3
NET PAY & POROSITY CALCULATIONS

BLUE BENCH DISPOSAL
CALCULATION OF NET PAY/PORE VOLUME
FOR
CLASS I PERMIT
(USING SMITH #1-14 C5 - NWNE SEC 14 T3S-R5W)

DEPTH (SMITH 1-14 C5) (FDC-CNL 9/10/84)	NET PAY, FT	AVG POROSITY, %	POROSITY * FEET	REMARKS
4016-4024	0		0.00	
4027-4030	0		0.00	
4030-4046	0		0.00	
4046-4051	0		0.00	
4052-4057	0		0.00	
4058-4066	8	26	2.08	
4066-4078	12	15	1.80	
4078-4082	4	22	0.88	
4082-4088	6	26	1.56	
4088-4092	4	23	0.92	
4092-4098	6	17	1.02	
4108-4115	7	11	0.77	
4120-4145	25	13	3.25	
4152-4160	8	15	1.20	
4173-4180	7	13	0.91	
4180-4182	2	30	0.60	
4183-4184	1	14	0.14	
4190-4199	9	13	1.17	
4202-4210	8	12	0.96	
4222-4228	6	15	0.90	
4228-4234	6	12	0.72	
4236-4242	6	11	0.66	
4244-4250	6	11	0.66	
4250-4254	4	15	0.60	
4258-4260	2	11	0.22	
4268-4281	13	12	1.56	
4289-4296	7	12	0.84	
4310-4318	8	13	1.04	
4326-4336	10	14	1.40	
4341-4356	15	16	2.40	
4356-4366	10	13	1.30	
4366-4410	44	18	7.92	
4410-4414	4	13	0.52	
4418-4426	8	14	1.12	
4435-4450	15	15	2.25	
4450-4458	8	13	1.04	
4458-4467	9	12	1.08	
4476-4480	4	16	0.64	
4482-4485	3	13	0.39	
4494-4498	4	15	0.60	
4500-4502	2	12	0.24	
4512-4515	3	11	0.33	
4516-4518	2	11	0.22	
4526-4546	20	14	2.80	

TABLE 3
NET PAY & POROSITY CALCULATIONS

DEPTH (SMITH 1-14 C5) (FDC-CNL 9/10/84)	NET PAY, FT	AVG POROSITY, %	POROSITY * FEET	REMARKS
4552-4559	7	13	0.91	
4564-4566	2	10	0.20	
4566-4570	4	12	0.48	
4572-4584	12	16	1.92	
4584-4592	8	13	1.04	
4594-4601	7	11	0.77	
4601-4604	3	12	0.36	
4608-4615	7	13	0.91	
4623-4626	3	11	0.33	
4628-4634	6	16	0.96	
4634-4636	2	11	0.22	
4642-4650	8	12	0.96	
4654-4658	4	12	0.48	
4674-4680	6	12	0.72	
4686-4699	13	14	1.82	
4704-4716	12	14	1.68	
4721-4732	11	18	1.98	
4732-4736	4	12	0.48	
4736-4740	4	15	0.60	
4740-4742	2	11	0.22	
4742-4749	7	15	1.05	
4752-4754	2	11	0.22	
4758-4762	4	17	0.68	
4770-4774	4	14	0.56	
4794-4804	2	11	0.22	
4808-4812	4	14	0.56	
4824-4830	6	13	0.78	
4830-4832	2	11	0.22	
4832-4844	12	15	1.80	
4844-4856	12	13	1.56	
4866-4876	10	15	1.50	
4881-4884	3	15	0.45	
4892-4897	5	18	0.90	
4908-4914	6	13	0.78	
4917-4922	5	19	0.95	
4922-4924	2	11	0.22	
4924-4934	10	15	1.50	
4940-4942	2	11	0.22	
4944-4948	4	25	1.00	
4948-4956	8	14	1.12	
4964-4968	4	15	0.60	
4973-4976	3	13	0.39	
4978-4980	2	11	0.22	
4982-4988	6	15	0.90	
4988-4991	2	12	0.24	
4992-4997	5	17	0.85	
5000-5001	1	11	0.11	
5003-5008	5	12	0.60	
5010-5018	8	13	1.04	
5020-5030	10	25	2.50	
5030-5037	7	14	0.98	

TABLE 3
NET PAY & POROSITY CALCULATIONS

DEPTH (SMITH 1-14 C5) (FDC-CNL 9/10/84)	NET PAY, FT	AVG POROSITY, %	POROSITY * FEET	REMARKS
5039-5052	13	24	3.12	
5052-5066	14	21	2.94	
5067-5082	15	15	2.25	
5082-5092	10	15	1.50	OFF SCALE - ASSUME 15% POROSITY
5092-5094	2	16	0.32	
5094-5100	6	24	1.44	
5100-5104	4	12	0.48	
5104-5110	6	30	1.80	
5110-5120	10	22	2.20	
5120-5128	8	14	1.12	
5128-5136	8	15	1.20	OFF SCALE - ASSUME 15% POROSITY
5136-5140	4	18	0.72	
5140-5144	4	15	0.60	OFF SCALE - ASSUME 15% POROSITY
5148-5150	2	30	0.60	
5164-5172	8	13	1.04	
5176-5180	4	23	0.92	
5180-5182	2	12	0.24	
5186-5200	14	14	1.96	
5200-5203	3	16	0.48	
5203-5205	2	13	0.26	
5205-5210	5	12	0.60	
5246-5264	18	14	2.52	
5264-5276	12	12	1.44	
5276-5286	10	15	1.50	
5286-5292	6	18	1.08	
5292-5298	6	15	0.90	
5300-5320	20	14	2.80	
5322-5336	14	15	2.10	OFF SCALE - ASSUME 15% POROSITY
5336-5340	4	20	0.80	
5342-5350	8	20	1.60	
5350-5354	4	12	0.48	
5354-5356	2	30	0.60	
5356-5358	2	14	0.28	
5358-5364	6	26	1.56	
5364-5367	3	14	0.42	
5367-5374	7	15	1.05	OFF SCALE - ASSUME 15% POROSITY
5374-5382	8	16	1.28	
5386-5390	4	30	1.20	
5390-5392	2	20	0.40	
5396-5406	10	15	1.50	OFF SCALE - ASSUME 15% POROSITY
5406-5414	8	20	1.60	
5414-5424	10	16	1.60	
5424-5432	8	13	1.04	
5432-5462	30	14	4.20	
5463-5466	3	30	0.90	
5466-5468	2	16	0.32	
5468-5478	10	18	1.80	
5478-5480	2	12	0.24	
5480-5500	20	15	3.00	
5500-5516	16	18	2.88	
5516-5534	18	14	2.52	

TABLE 3
NET PAY & POROSITY CALCULATIONS

DEPTH (SMITH 1-14 C5) (FDC-CNL 9/10/84)	NET PAY, FT	AVG POROSITY, %	POROSITY * FEET	REMARKS
5536-5544	8	12	0.96	
5546-5551	5	13	0.65	
5554-5556	2	11	0.22	
5556-5566	10	16	1.60	
5612-5624	12	15	1.80	OFF SCALE - ASSUME 15% POROSITY
5628-5632	4	26	1.04	
5632-5636	4	16	0.64	
5636-5638	2	24	0.48	
5638-5640	2	16	0.32	
5640-5644	4	30	1.20	
5644-5646	2	18	0.36	
5646-5650	4	30	1.20	
5650-5658	8	22	1.76	
5658-5662	4	16	0.64	
5662-5666	4	25	1.00	
5666-5674	8	12	0.96	
5674-5694	20	15	3.00	OFF SCALE - ASSUME 15% POROSITY
5697-5708	11	15	1.65	OFF SCALE - ASSUME 15% POROSITY
5708-5714	6	13	0.78	
5714-5768	54	15	8.10	OFF SCALE - ASSUME 15% POROSITY
5774-5777	3	14	0.42	
5790-5796	6	20	1.20	
5798-5800	2	14	0.28	
5833-5834	1	11	0.11	
5838-5841	3	13	0.39	
5846-5848	2	12	0.24	
5848-5850	2	21	0.42	
5852-5854	2	12	0.24	
5859-5866	7	15	1.05	
5924-5926	2	12	0.24	
5944-5950	6	20	1.20	
5950-5952	2	11	0.22	
5984-5986	2	14	0.28	
5994-5996	2	14	0.28	
6003-6009	6	20	1.20	
6026-6028	2	13	0.26	
6030-6032	2	14	0.28	
6037-6040	3	15	0.45	
6046-6050	4	15	0.60	
6053-6054	1	12	0.12	
6086-6088	2	12	0.24	
6091-6092	1	11	0.11	
6100-6101	1	12	0.12	
6104-6108	4	12	0.48	
6116-6122	6	24	1.44	
6154-6158	4	19	0.76	
6162-6166	4	13	0.52	
6172-6173	1	12	0.12	
6180-6184	4	11	0.44	
6232-6236	4	11	0.44	
6242-6244	2	12	0.24	

TABLE 3
NET PAY & POROSITY CALCULATIONS

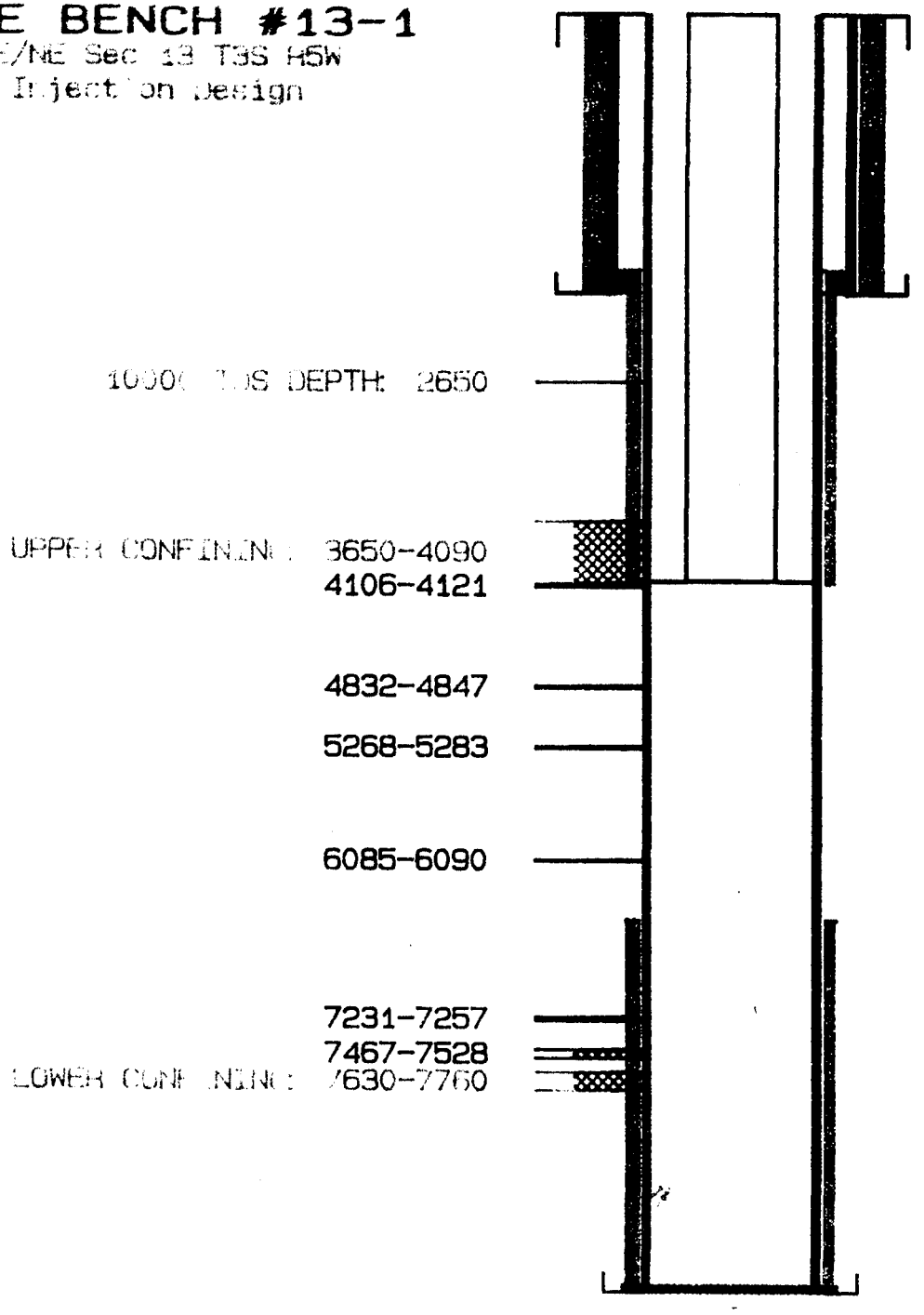
DEPTH (SMITH 1-14 C5) (FDC-CNL 9/10/84)	NET PAY, FT	AVG POROSITY, %	POROSITY * FEET	REMARKS
6266-6267	1	11	0.11	
6299-6300	1	11	0.11	
6328-6330	2	11	0.22	
6343-6345	2	14	0.28	
TOTAL	1304		203.34	

AVG POROSITY, %: 15.59

BLUE BENCH #13-1

NE/NE Sec 13 T3S R5W

Injection Design



WELL DETAIL

CASING #1
9 5/8"O.D. in 12 1/4" hole
0 to 2014
Cement Top @ SURFACE

CASING #2
7"O.D. in 8 1/2" hole
0 to 9234
Cement Top @ 6520 (cbl)

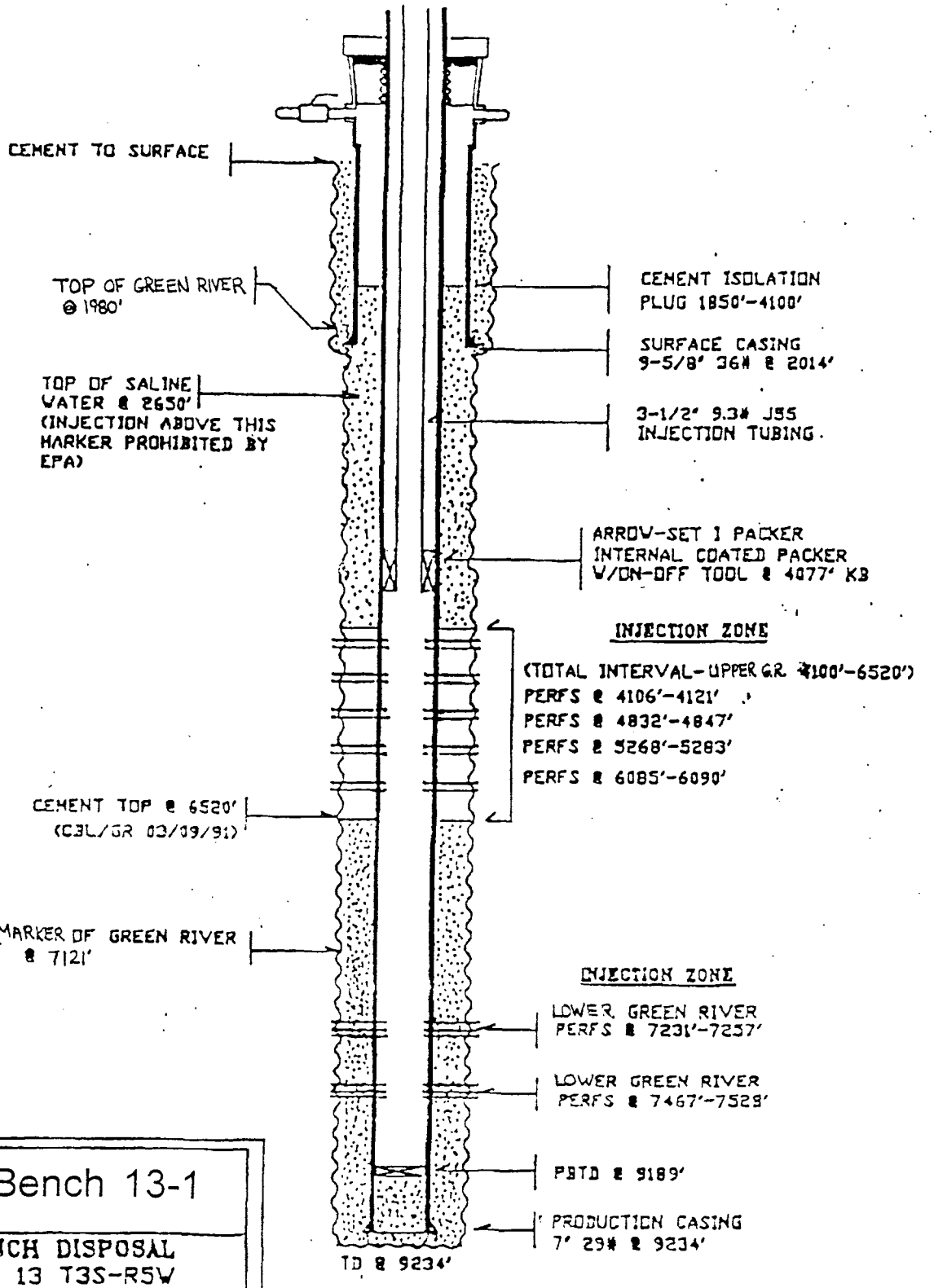
CEMENT PLUGS
Annular: 1850 to 4100

TBG 1: 3 1/2" @ 4077
PACKER @ 4077
PBTD: 9189

\- OPEN PERFS
* CEMENTED PERFS

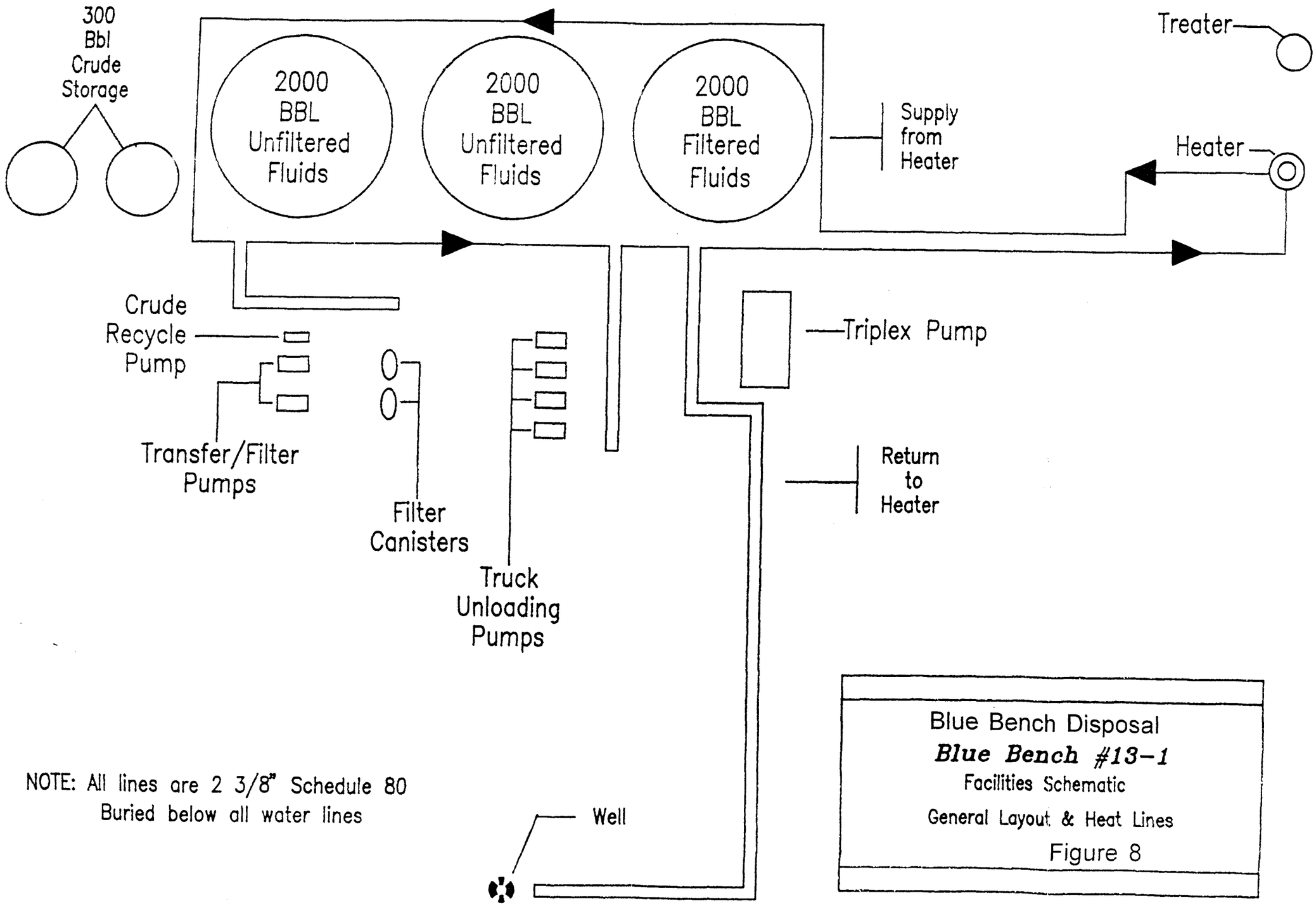
Diagram: 0' to 9234'
VERT Scale: 1"=1309'
HORZ Scale: 1"=7"
15 May 1993

Figure 6: Schematic Diagram of Blue Bench 13-1



Blue Bench 13-1	
BLUE BENCH DISPOSAL NENE SEC 13 T3S-R5W DUCHESNE CO, UTAH	
DRAWN BY: DCT	DATE: MAY 13, 1992
WELLBORE SCHEMATIC AS OF NOVEMBER 1, 1991	

Figure 6A: Schematic



NOTE: All lines are 2 3/8" Schedule 80
Buried below all water lines

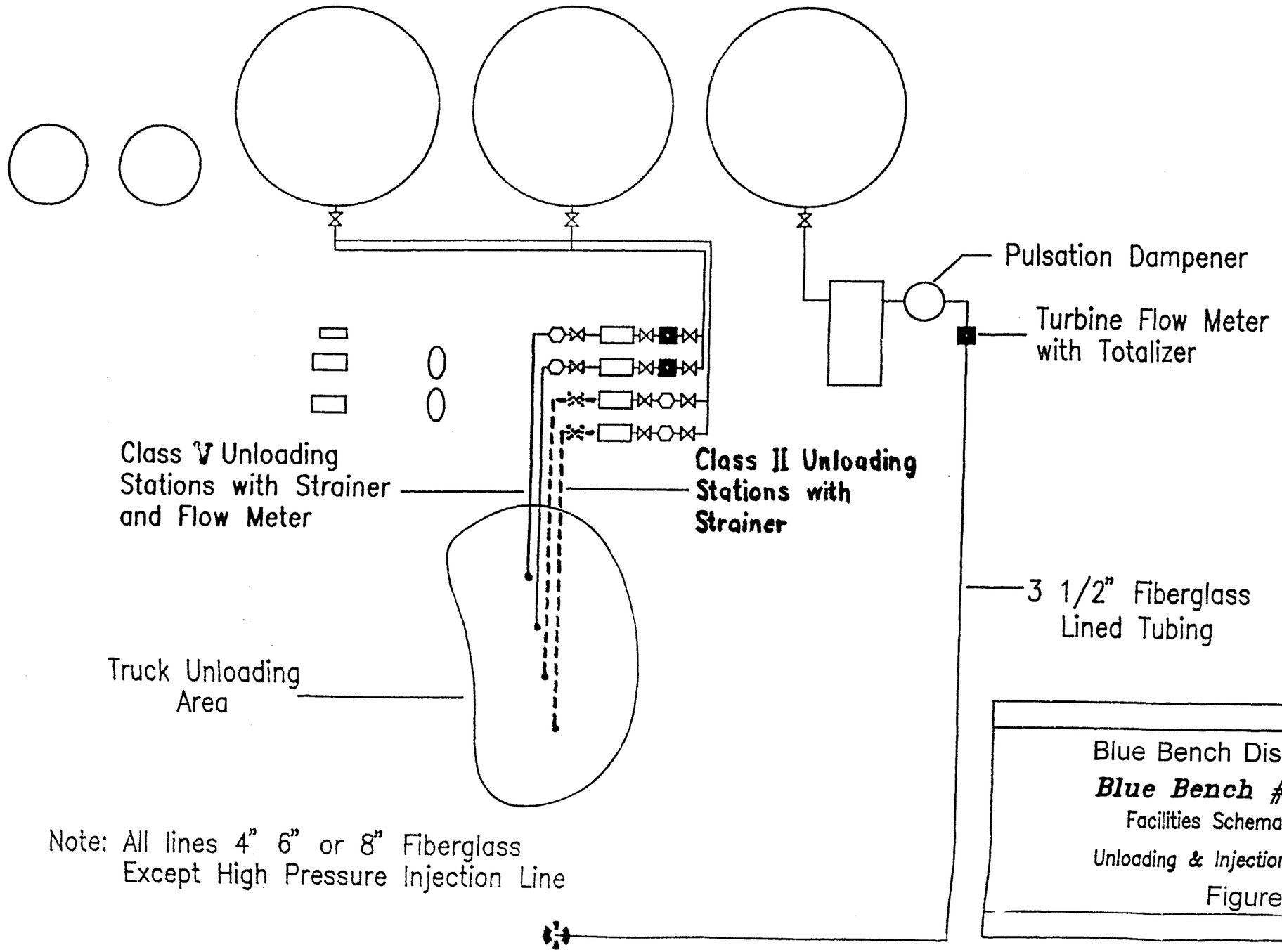
Blue Bench Disposal

Blue Bench #13-1

Facilities Schematic

General Layout & Heat Lines

Figure 8



Note: All lines 4" 6" or 8" Fiberglass
Except High Pressure Injection Line

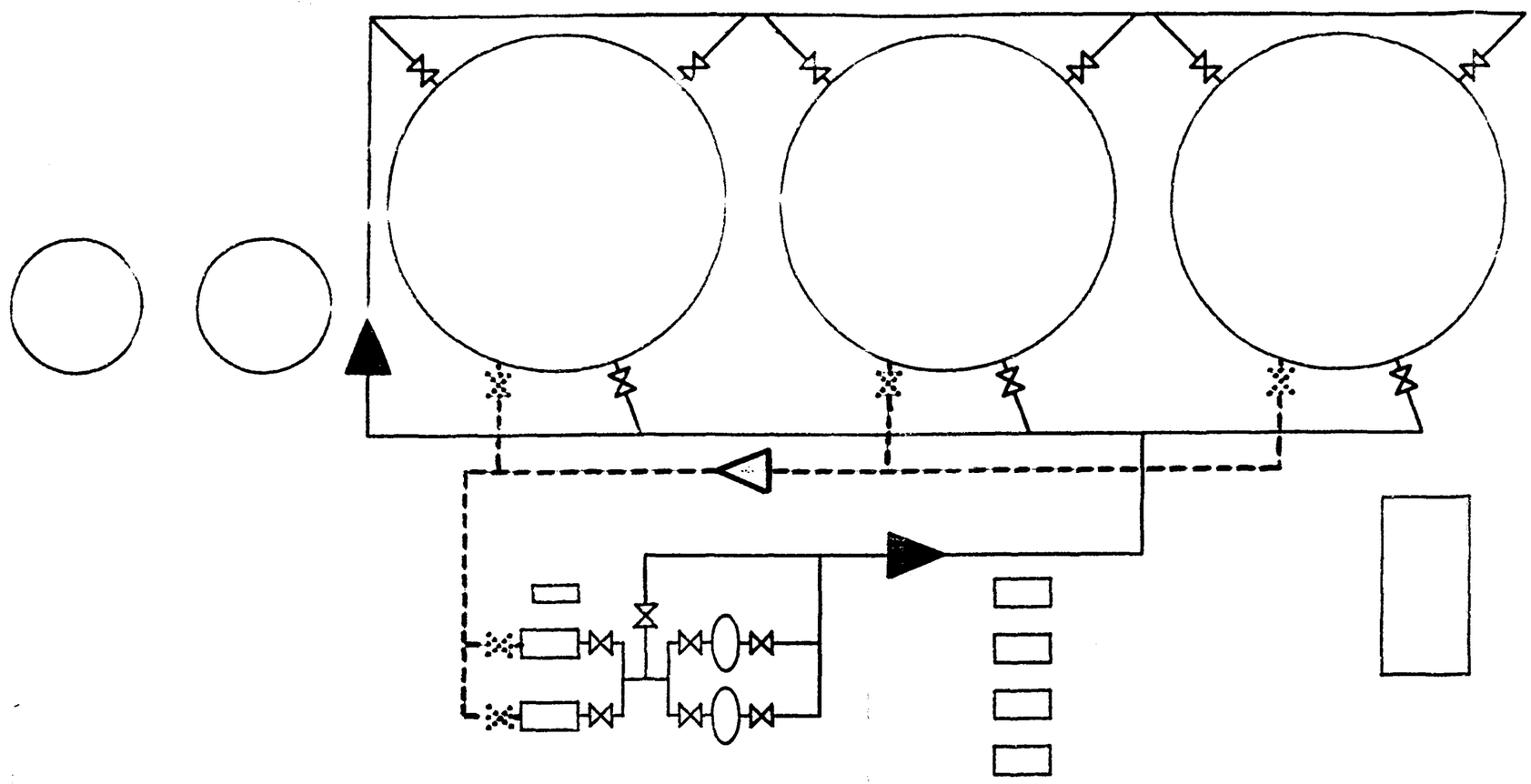
Blue Bench Disposal

Blue Bench #13-1

Facilities Schematic

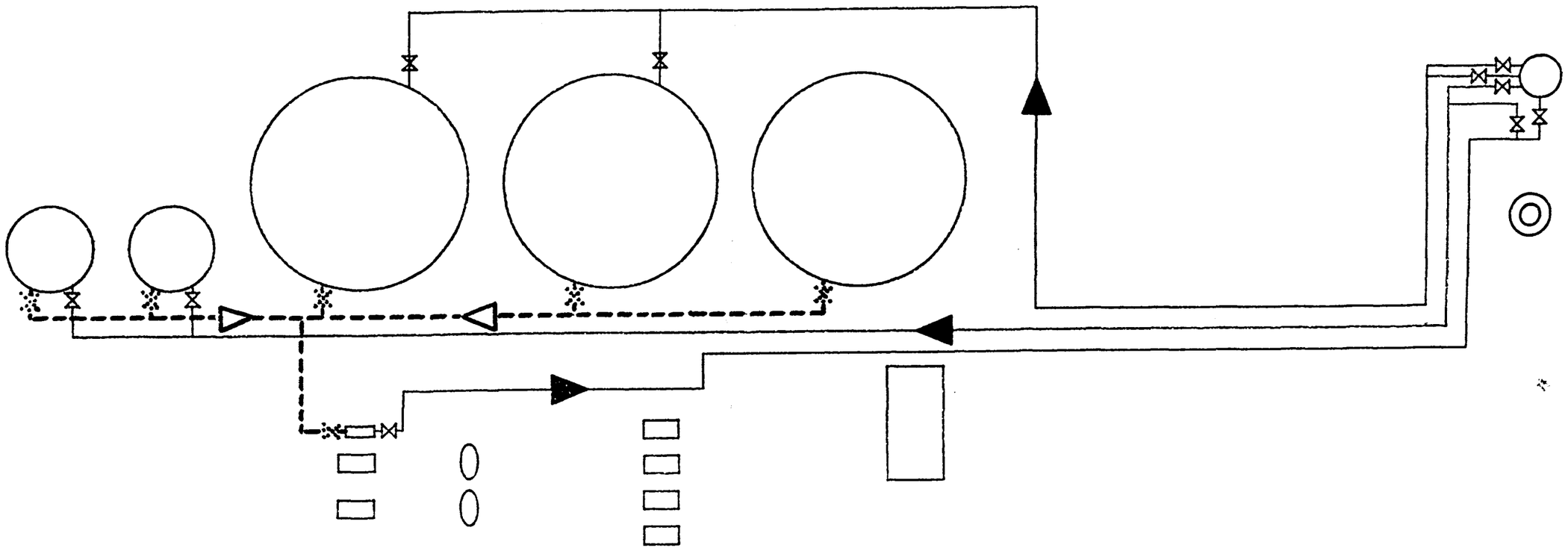
Unloading & Injection Lines

Figure 9



NOTE: All Lines are 4" or 6" Fiberglass

Envirotech, Inc.
Blue Bench Disposal
Blue Bench #13-1
Facilities Schematic
Water Transfer Lines
Figure 10



---- Pump Suction
—— Pump Discharge
—— Oil Outlet/Bypass
—— Water Outlet/Pressure Relief

NOTE: All Lines 3" or 4" Fiberglass

Blue Bench Disposal
Blue Bench #13-1
Facilities Schematic
Oil Recycle & Treater Outlet Lines
Figure 11

Jetco Chemicals, Inc.
A Procter & Gamble Co.

P.O. Box 217
Roosevelt, Utah 84066

Office (801) 722-5066
Fax (801) 722-5727

WATER ANALYSIS REPORT

COMPANY Blue Beach Disposal ADDRESS _____ DATE: 10-14-91

SOURCE Sample #2 - Formation DATE SAMPLED 10-14-91 ANALYSIS NO. _____

	Analysis	Mg/l (ppm)	*Meq/l			
1. PH	7.9					
2. H_2S (Qualitative)	.5					
3. Specific Gravity	1.043					
4. Dissolved Solids		47,585				
5. Suspended Solids						
6. Anaerobic Bacterial Count	CI	C/Ml				
7. Methyl Orange Alkalinity ($CaCO_3$)						
8. Bicarbonate (HCO_3)		HCO_3 3,540	÷61	58		HCO_3
9. Chlorides (Cl)		Cl 26,000	÷35.5	732		Cl
10. Sulfates (SO_4)		SO_4 90	÷48	2		SO_4
Calcium (Ca)		Ca 360	÷20	18		Ca
12. Magnesium (Mg)		Mg 230	÷12.2	15		Mg
13. Total Hardness ($CaCO_3$)		1,850				
14. Total Iron (Fe)		4.0				
15. Barium (Qualitative)						
16. Phosphate Residuals						

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

18	Ca	←	HCO_3	58
19	Mg	→	SO_4	2
755	Na	←	Cl	732

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	18	1458
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	19	1390
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	21	1764
Na_2SO_4	71.03	2	142
NaCl	58.46	732	42,793

Saturation Values	Distilled Water 20°C.
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

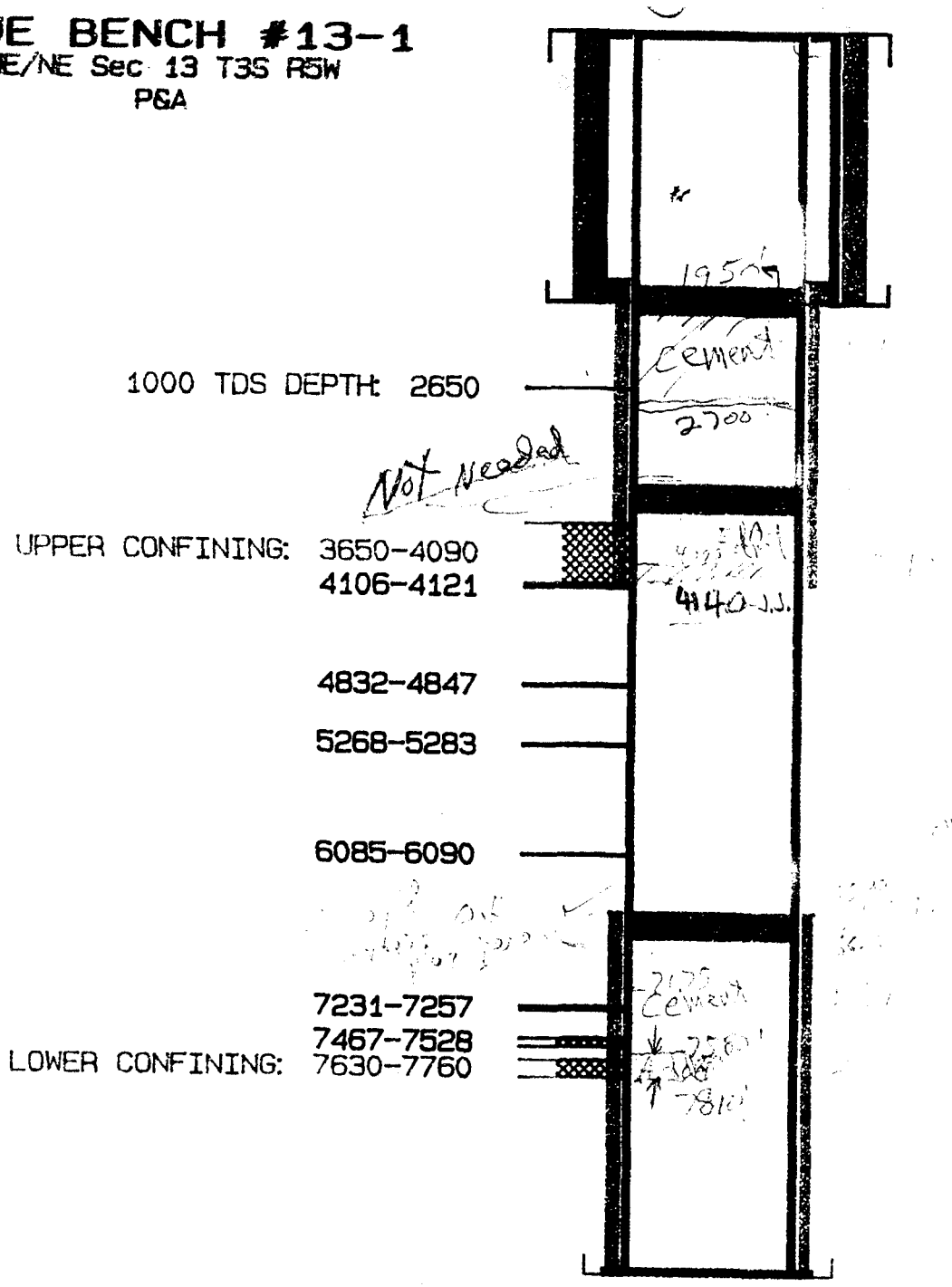
REMARKS _____

Exhibit 1: Injection Zone Water Analysis

BLUE BENCH #13-1

NE/NE Sec 13 T3S R5W

P&A



WELL DETAIL

CASING #1
9 5/8"O.D. in 12 1/4" hole
0 to 2014
Cement Top @ SURFACE

CASING #2
7"O.D. in 8 1/2" hole
0 to 9234
Cement Top @ 6520 (cbl)

CEMENT PLUGS
Annular: 0 to 50
Annular: 1850 to 4100
Internal: 0 to 50
Internal: 1900 to 2100
Internal: 3360 to 3560
Internal: 6520 to 6720

PBTD: 9189

– OPEN PERFS
* CEMENTED PERFS

Diagram: 0' to 9234'
VERT Scale: 1"=1309'
HORZ Scale: 1"=7"
15 May 1993

Figure 12: Abandonment Plan Schematic

February 17, 1999

Enviro-Tec, Inc.
1015 East 3900 South
Salt Lake City, Utah 84124

Re: Application for Class II Injection Permit, Blue Bench 13-1 Well, Section 13, Township 3 South, Range 5 West, Duchesne County, Utah

Gentlemen:

Thank you for the submitting the copy of CLASS V INJECTION WELL Permit Application and Technical Report under coversheet identifying the document as CLASS II INJECTION WELL PERMIT APPLICATION AND TECHNICAL REPORT, dated 2/16/99. I inventoried the information submitted to date by Enviro-Tec and conclude that additional informational requirements remain to be satisfied. The required information is detailed in the subheadings under R649-5-2, Requirements for Class II Injection Wells Including Water Disposal, Storage And Enhanced Recovery Wells, of the Utah Administrative Code. The following is my analysis of the completeness of Enviro-Tec's informational submittal to date:

Subheading	**Commentary**
2.0	Acceptable
2.1	The lately submitted plat satisfies the requirement for the injection well's location and that of all surrounding wells within a half mile radius, however, it lacks an explicit identification of the surface owners and other operators within that same radius.
2.2	Acceptable
2.3	The Acoustic Cement Bond Log already on file with the Department of Natural Resources Geological Library will satisfy part of this subheading. It does not, however,

document the cement bond for the cased interval above 6196', an interval targeted for injection according to the filed UIC Form 1. You will need to cement bond log the un-logged portion of the proposed injection interval (approximately 6196' TD upward to 3760' TD) and provide this Division with a copy.

2.4 Acceptable

2.5 The submitted Well Bore Schematic will satisfy the part of the subheading requiring a description but not that with respect to the proposed method for testing the casing before use of the well.

2.6 I find that Enviro-Tec has submitted no statement, specific to the Class II application, regarding the explicit source (listing of source wells and produced water zones) of the waters to be injected and an estimate of the volume to be injected daily.

2.7 I find that Enviro-Tec has submitted no standard laboratory analyses of the waters to be injected or a statement regarding its compatibility with the formation water.

2.8 The required proposed average injection pressure, **specific to the Class II application**, is not stated anywhere.

2.9 I find that Enviro-Tec has submitted geophysical data which supports of a finding that the proposed (1650 psig, UIC Form 1) maximum injection pressure **exceeds** that which may initiate fracturing (Item 7(e) of the CLASS V INJECTION WELL Technical Report dated March 23,1997 by Allin Proprietary - 1,230 psig @ 4100" TD; frac gradient of 0.75 psig per foot of burial depth) eventuating the behind-casing contamination of suprajacent fresh water aquifers. Enviro-Tec will need to present information to allay concerns that the likely fracturing will not engender vertical communication between the fresh and injection target zones. It is further noted that Enviro-Tec desires to reduce the thickness of the upper confining layer nearly by half.

2.10 I find that Enviro-Tec has submitted insufficient appropriate geological data to document the nature and lateral extent of the injection interval and confining beds in the area of the injection well. Relevant geologic cross sections and maps would help in this regard. You should provide workmanlike strike and dip stratigraphic cross sections through the subject well incorporating wire line logs, particularly density-neutron logs where available. The cross sections should extend at least 5 miles on either side of the subject well and provide correlations including, at a minimum, the confining layers, formation tops, the datum, the proposed injection zones, a locator map showing the lines of section and the identities of the wells by name and API number. They should be constructed using legible log reductions at a scale which is convenient for this use.

2.11 Not a factor at this location.

2.12 No affidavit is included certifying that a copy of the application has been provided to all operators, owners and surface owners (if such as these do exist) within a one-half mile radius of the proposed injection well.

We conclude that additional informational submissions are necessary until the specified subheadings are satisfied before we can proceed with a review of arguments for issuing a Class II Injection Well permit. If additional information is needed please feel free to contact me at (801) 538-5337.

Sincerely,

Christopher J. Kierst
Reclamation Specialist III

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

February 17, 1999

Enviro-Tec, Inc.
1015 East 3900 South
Salt Lake City, Utah 84124

Re: Application for Class II Injection Permit, Blue Bench 13-1 Well, Section 13, Township 3 South, Range 5 West, Duchesne County, Utah

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Sincerely,

Christopher J. Kierst
Reclamation Specialist III

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
999 18TH STREET - SUITE 500
DENVER, CO 80202-2466

MAY 17 1999

RECEIVED
MAY 26 1999
DIV. OF OIL, GAS & MINING

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Robert C. Pettit, President
Enviro-Tec, Inc.
1015 East 3900 South
Salt Lake City, UT 84124

Re: UNDERGROUND INJECTION CONTROL (UIC)
Class V Draft Permit
Blue Bench #13-1 (EPA UT5641-03726)
Duchesne County, Utah

Dear Mr. Pettit:

Enclosed is the Draft Class V Underground Injection Control Permit for the disposal of industrial waste fluids in the Blue Bench #13-1 well, located in Duchesne County, Utah. A Fact Sheet, which discusses development of the permit, is also enclosed.

A notice should appear soon in the Uintah Basin Standard, Fort Duchesne, Utah, and the Vernal Express, Vernal, Utah notifying the public of their opportunity to comment. A notice of our intent to issue a permit has also been sent to all interested parties that may be affected by the proposed action. The public comment period on this action will run for thirty (30) days from the date of publication. You may call Ms. Jo Ann Taylor at (303) 312-6152 to obtain the exact deadline for public comments.

EPA is accepting comments on the draft permit during the 30-day public comment period. The procedures for submission of comments as well as for EPA's consideration of such comments are set forth in 40 CFR Part 124, Subpart A. Should public comment warrant, EPA may, at its discretion, schedule a public hearing regarding the Draft Permit's requirements. Please be aware that a Final Permit decision will not be made until after the public comment period closes.

The enclosed permit is a "DRAFT" version of the proposed Final Permit. It is a "sample" of what the Final Permit will look like, and is being sent to you so that you have a chance to comment. This version of the permit is NOT official; however, the well may continue to operate as a Class II disposal well.

Printed on Recycled Paper

Following issuance of the Final Permit, but prior to commencement of injection operations as a Class V well, the Blue Bench #13-1 must undergo and pass the required mechanical integrity tests. A two (2) week notice of the scheduled tests is required so that we can arrange to witness them. Please contact John Carson at (303) 312-6203, in this regard, or if you have any questions on this action. **Also, please direct all correspondence to the attention of John Carson at Mail Code 8ENF-T.**

Sincerely,

D. Edwin Hogle
Director, Groundwater Program
Office of Partnerships and
Regulatory Assistance

Enclosures: Draft Permit
Fact Sheet
Public Notice

cc: Ronald Wopsock, Chairman
Uintah & Ouray Business Committee

Elaine Willie, Environmental Director
Ute Indian Tribe

David Allison
BIA - Uintah & Ouray Indian Agency

Don Ostler
Utah Department of Environmental Quality

Dennis Downs
Utah Department of Environmental Quality

Gilbert Hunt
State of Utah Natural Resources

Jerry Kenczka
BLM - Vernal District Office

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
999 18TH STREET - SUITE 500
DENVER, CO 80202-2466

PUBLIC NOTICE

INTENT TO ISSUE AN UNDERGROUND INJECTION CONTROL PERMIT TO ENVIRO-TEC, INC.

PURPOSE OF PUBLIC NOTICE

Pursuant to 40 CFR Section 124.10, EPA is soliciting public comment on the proposal by the Region VIII Office of the U.S. Environmental Protection Agency (EPA) to issue a permit to Enviro-Tec, Inc. to allow injection of nonhazardous industrial waste fluids underground via a Class V disposal well, the Blue Bench #13-1 in Duchesne County, Utah.

BACKGROUND

EPA Region VIII has reviewed an application (EPA Permit Application UT5641-03726) for a Class V Underground Injection Control Permit from Enviro-Tec, Inc., 1015 East 3900 South, Salt Lake City, Utah 84124, regarding nonhazardous industrial waste disposal operations. The injection fluids are to be reclaimed water associated with the removal of underground fuel storage tanks, pit water from oil field wash pits, contaminated surface water from construction sites, stored fuels, and other nonhazardous industrial waste fluids. The permit will allow only the disposal of nonhazardous wastes; reporting and monitoring requirements will assure that all fluids to be injected are not hazardous. EPA regulates underground injection of wastes pursuant to 40 CFR Parts 144 and 146.

The Blue Bench #13-1 well is located on fee land in the NE 1/4 of the NE 1/4 of Section 13, T3S-R5W, Duchesne County, Utah, and within the exterior boundary of the Uintah-Ouray Indian Reservation. The well has been in operation as a Class II salt water disposal well since January, 1992, as authorized by the Environmental Protection Agency. The disposal zone is the Green River Formation between the depths of 4,100 and 7,528 feet; this interval will also serve as the injection zone for the disposal of nonhazardous waste fluids. The injection zone in this area is not an underground source of drinking water (USDW); total dissolved solids [TDS] content of the formation water is 47,585 milligrams per liter (mg/l). Data indicate, however, that individual sand units within the underlying Wasatch Formation contain water with a TDS content less than 10,000 mg/l. Thus, the Blue Bench #13-1 is injecting above a USDW and is defined as a Class V well.

Printed on Recycled Paper

EPA has made a preliminary determination to approve the permit application, and that by doing so, any underground sources of drinking water will be protected. Therefore, EPA is hereby serving notice of intent to issue a Class V permit to Enviro-Tec, Inc. for the proposed underground injection activities.

PUBLIC COMMENTS

All data submitted by the applicant, as well as the draft permit prepared by EPA, are contained in the administrative record for Enviro-Tec, Inc. This information is available for public inspection at the following location from 9:00 a.m. to 5:00 p.m., or by contacting the following office:

U.S. Environmental Protection Agency
Region VIII, 8WM-DW
UIC Implementation Section
Attn: John Carson
999 18th Street, Suite 500
Denver, Colorado 80202-2466
Telephone (303) 312-6203

Public comments are encouraged and will be accepted, in writing, at the Denver Office for a period of thirty (30) days after publication of this notice. If any member of the public desires a public hearing on this draft permit, the request should be in writing, and should state the nature of the issues proposed to be raised at the hearing. A PUBLIC HEARING WILL BE HELD ONLY IF SIGNIFICANT INTEREST IS SHOWN.

FINAL PERMIT DECISION AND APPEAL PROCESS

After the close of the public comment period, EPA will issue a final permit decision, and will notify all commenters regarding this decision. The final decision may be to: issue; deny; modify; or revoke and reissue the draft permit. The final decision shall become effective thirty (30) days after the final decision is issued, unless no commenters requested a change in the draft permit, in which case the permit shall become effective immediately upon issuance.

Within thirty (30) days after a final permit decision has been issued, any person who filed comments on the draft permit or participated in a public hearing, may petition the EPA Environmental Appeals Board to review the permit decision. Commenters are referred to 40 CFR Sections 124.15 through 124.20 for procedural requirements of the appeal process.

MAY 25 1999

Date of Publication

DRAFT FACT SHEET

ENVIRO-TEC, INC.
BLUE BENCH #13-1, CLASS V WELL
DUCHESNE COUNTY, UTAH
EPA PERMIT NUMBER: UT5641-03726

CONTACT: John A. Carson
U.S. Environmental Protection Agency
UIC Implementation Section, 8WM-DW
999 18th Street, Suite 500
Denver, Colorado 80202-2466
Telephone: (303) 312-6203

DESCRIPTION OF FACILITY AND BACKGROUND INFORMATION:

On March 16, 1999, Enviro-Tec, Inc. made application for a Class V underground injection control permit for injection of nonhazardous industrial waste fluids into the upper and lower Green River Formation between the depths of 4,100 to 5728 feet, a zone which is not defined as a USDW.

Although a water sample analysis of the injection zone indicated a TDS content of 47,585 mg/l, there appears to be underlying units containing less than 10,000 mg/l. There is evidence that this condition exists in certain areas of the Uinta Basin as a result of many years of oil and gas production. That is, the produced oil and gas have been replaced by less saline water than originally contained in the formations, the source of the replacement water being inflow of fresh water from surface outcrops at the edge of the basin.

Nevertheless, a permit for the disposal of nonhazardous industrial waste can be issued for the Blue Bench #13-1 well as a Class V permit, which provides for injection into formations that are above, as well as below USDWs. Therefore, a Class V permit will be issued for the disposal of nonhazardous industrial waste, based on data submitted by the permittee.

The Blue Bench #13-1 has been in operation as a commercial Class II salt water disposal well since January, 1992, under UIC Permit UT2582-03533 issued by the United States Environmental Protection Agency, Region VIII. The injection zone for both Class V and Class II fluids will be those intervals noted above. All fluids injected to date have been waters associated with oil and gas operations in the Uinta Basin area. This Class V permit will authorize the Blue Bench #13-1 to dispose of nonhazardous industrial fluids, as well as Class II oil field waste fluids.

Class V nonhazardous waste fluids will consist of reclaimed water associated with the removal of underground fuel storage tanks, waters from surface pit operations, industrial process tanks, piping and wash pits, industrial process heat exchange systems, contaminated waters from construction sites, compost operation and agricultural site runoff impoundment sumps, treated municipal sewerage that will not meet standards for discharge into rivers and streams, stored fuels, and other nonhazardous industrial waste fluids. The permittee has requested a maximum injection pressure of 1,230 psig. Currently, the well injects Class II fluids on vacuum, and up to a surface injection pressure of approximately 200 psig.

The operation covered by the application is in a portion of the Altamont Field, located on fee land in the NE 1/4 of the NE 1/4 of Section 13, T3S-R5W, Duchesne County, Utah, and within the exterior boundary of the Uintah-Ouray Indian Reservation. Notices were previously sent to all surface landowners within one-quarter (1/4) mile of the well of the intent to apply for a permit for the disposal of nonhazardous industrial waste fluids.

On September 14, 1998, the permittee successfully performed a mechanical integrity test of the well in order to demonstrate that no leaks existed in the tubing, packer or casing. In addition, a radioactive tracer survey (RATS) and temperature log were conducted during September 23-25, 1998. These logs indicated that there was no upward movement of injection fluid or channeling behind casing. However, these tests must be repeated prior to authorization of the Blue Bench #13-1 as a Class V disposal well. The tests must be witnessed by a representative of the EPA and shall consist of two parts: (1) a casing/tubing annulus pressure test to verify the absence of leaks in the casing, tubing, and packer, and (2) a RATS and temperature log to verify that no movement of fluids exists outside the casing into an underground source of drinking water (USDW) through vertical channels adjacent to the wellbore.

Enviro-Tec, Inc. has submitted all required information and data necessary for permit issuance in accordance with 40 CFR Parts 124, 144, 146, and 147, and a draft permit has been prepared. The permit will be issued for a period of ten (10) years; no reapplication will be necessary during this period, unless the permit is terminated for reasonable cause (40 CFR 144.39, 144.40 and 144.41). However, the permit will be reviewed at least once every five (5) years to determine if changes in the permit are needed.

This Fact Sheet gives the derivation of the site-specific permit conditions and reasons for them, on the basis of the direct implementation regulations promulgated for the Uintah-Ouray Indian Tribal lands in the State of Utah, under the Underground Injection Control (UIC) program provisions for the Safe Drinking Water Act (SDWA). The referenced sections and conditions correspond to the sections and conditions in Permit UT5641-03726. The general permit conditions for which the

content is mandatory and not subject to site specific differences (based on 40 CFR Parts 124, 144, 146 and 147), are not included in the discussion.

Part II, Section A WELL CONSTRUCTION REQUIREMENTS

Casing and Cementing (Condition 1)

The Blue Bench #13-1 well was drilled during August, 1984, to as total depth of 9,234 feet, cased and cemented, but never completed as a producing well. During conversion to a Class II injector in 1991, additional cementing was performed by placing a cement isolation plug (715 sacks) within the annulus between the long string casing and wellbore, from 1,850 feet to 4,100 feet. All casing and cementing details were submitted with the permit application. For the injection well, construction is as follows:

(1) Surface casing (9-5/8 inch) is set in a 12-1/4 inch diameter hole to a depth of 2,014 feet kelly bushing (KB). The casing was secured with 510 sacks of cement which was circulated to the surface, isolating the casing from the wellbore.

(2) Long string casing (7 inch) is set in an 8-1/2 inch diameter hole to a depth of 9,234 feet KB. This casing is secured with cement from total depth, up to a depth of 6,520 feet KB with 435 sacks of cement, and from 4,100 feet KB up to a depth of 1,850 feet KB with 715 sacks of cement. A Cement Bond Log (CBL) of the well indicates adequate bonding between the casing and wellbore throughout the cemented intervals. The well is currently plugged back to a depth of 7,630 feet.

The only known underground sources of drinking water (USDWs) within a 1/4-mile radius of the well are above a depth of 2,650 feet, as indicated by the State of Utah Department of Natural Resources Technical Publication No.92. This depth places the base of the USDWs approximately 1,500 feet above the injection zone. These USDWs include Quaternary Duchesne River alluvium from near surface to a depth of 200 feet, and a perched aquifer in the Uinta Formation (the Bedrock aquifer) at a depth of approximately 1,100 feet. Deeper in the section, and below the injection zone, the lower Green River and Wasatch Formations contain some porous sands which may qualify as USDWs.

Overlying the injection zone all USDWs are adequately isolated with cemented surface and long string casings. The confining zone above the top of the uppermost injection interval at 4,100 feet, to the base of the USDWs at 2,650 feet, is 1,450 feet in thickness, and consists of interbedded calcareous shales, evaporite beds, siliceous sands and limestones of the Uinta and Green River Formations which provide an effective barrier to upward movement of injected fluids.

Below the lowermost injection interval the confining zone consists of Green River calcareous shale with interbedded thin silty sands and limestones from 7,528 feet to 9,234 feet, total depth of the well. This interval is cemented behind the long string casing. Based on the construction and cementing details of the well and the presence of adequate upper and lower confining beds, all known and potential USDWs should be adequately protected.

Tubing and Packer Specifications (Condition 2)

The tubing information (3-1/2 inch) submitted by the applicant is incorporated into the permit and shall be binding on the permittee. The depth of the packer is 4,077 feet, which is 30 feet above the top of the upper injection interval. In no instance is the packer to be more than 100 feet above the uppermost injection interval.

Monitoring Devices (Condition 3)

Prior to the injection of Class V fluids, the permittee shall have installed continuous recording devices which will monitor the operation of the well; these devices shall be maintained as long as the permit is in effect.

The monitoring devices shall continuously monitor: (1) injection pressure; (2) casinghead pressure of the tubing/casing annular space; and (3) flow rate and volume. The tubing/casing annulus shall be maintained full of fresh water treated with a non-toxic corrosion inhibitor and maintained under a minimum positive pressure of 200 psig. This may be achieved through the use of an above-ground fluid reservoir with a gas cap of nitrogen to maintain the positive pressure. Maintaining positive pressure on the annulus provides assurance that the monitoring is representative of actual downhole changes. A continuous recording of injection volume is to be accomplished by use of a non-resettable cumulative volume totalizer. In addition, a pump shut-off interlock device shall be installed in order to assure that the allowable maximum surface injection pressure is not exceeded.

The permittee shall provide and maintain in good operating condition: a ½ inch fitting with a cut-off valve at the wellhead on the tubing, and a similar fitting and cut-off valve for the casing/tubing annulus. These valves shall be positioned to allow the attachment of pressure gauges certified for ninety-five (95) percent accuracy, or better, throughout the range of permitted operation in order to monitor the injection and annulus fluid pressures. A flow meter with a volume totalizer and a sampling tap shall be installed between the injection pump and wellhead. The permittee shall be required to maintain these devices in good operating condition.

Formation Testing (Condition 5)

The permittee provided a static bottom-hole pressure of 1,821 psig and water analysis of the injection zone of 47,585 mg/l TDS during the completion of the well for Class II injection. The well is currently injecting Class II fluids at a low surface pressure ranging from vacuum to approximately 200 psig; therefore, a step-rate test and a pressure fall-off test of the injection zone(s), to be performed for this Class V operation, shall be delayed until such time as a significant amount of surface pressure is necessary to inject both Class V and Class II fluids. The point at which the step-rate test is to be performed shall be when the surface injection pressure reaches a stabilized pressure approximating seventy-five percent (75%) of the allowable maximum injection pressure specified in Part II, Section C. 4. of this permit. However, The initial pressure fall-off test is to be conducted prior to this surface injection pressure, that is, when the surface injection pressure approximates 500 psig, or when determined by the Director.

The step-rate test will obtain an accurate injection zone fracture pressure, breakdown pressure, and instantaneous shut-in pressure (ISIP). If operating conditions permit, it is recommended that the upper injection zone be tested separately, followed by a step-rate test of the combined upper and lower zones. The pressure fall-off test is to be performed on an annual basis for the purpose of monitoring pressure buildup in the injection zone(s) in order to detect any significant loss of fluids due to fracturing in the injection and/or confining zones, and to aid in determining the lateral extent of the injection plume.

The pressure fall-off tests shall involve injecting fluids at a constant rate for at least twenty-four (24) hours, or a sufficient period of time until the reservoir pressure reaches stability, followed by a shut-in period of sufficient duration to establish a valid observation of a pressure fall-off curve as the reservoir reaches ambient pressure. The initial pressure buildup should be performed with a downhole pressure gauge in order to avoid any effect of casing storage. It is important that the initial and subsequent tests follow the same test procedure, so that valid comparisons of reservoir pressure, permeability, and porosity can be made. The permittee shall analyze test results and provide an annual report which compares the results with previous test data.

PART II, Section B CORRECTIVE ACTION

There are no other wells within a 1/4-mile area of review (AOR) surrounding the Blue Bench #13-1 well; however, within a two-mile radius of the well there are six (6) wells which penetrate the injection zone. Although the AOR requirement is generally fixed at 1/4-mile, the Utah Department of Environmental Quality has requested that wells within a 2-mile AOR be evaluated. Of the six wells that penetrate the injection zone

within this wider AOR, three (3) are plugged and abandoned in such a manner that the base of the overlying USDWs are adequately isolated from the injection zone. The other three (3) wells are production wells, two of which have adequate cement behind casing that provides isolation from overlying USDWs; the remaining well (Fortune Ute #1-11C5, approximately 1.7 miles northwest of the injection well in Section 11, T3S-R5W) is uncemented across the injection zone. The Fortune #1-11C5 is considered to be outside the radius of direct influence of the injection well and any pressure increase would be minimal, in the order of 20 psi. Furthermore, the permit requires that a pressure fall-off test be conducted in the injection well on an annual basis. These tests will monitor the pressure buildup in the injection zone and help determine the lateral extent of the injection plume. The pressure values will be used to recalculate the long term pressure buildup to determine if permit changes are needed. In view of the above, no corrective action by the permittee is considered necessary prior to the issuance of a Class V permit.

PART II, Section C WELL OPERATION

Prior To Commencing Injection (Condition 1)

Injection of nonhazardous materials into the Blue Bench #13-1 will not commence until mechanical integrity tests have been performed and witnessed according to the guidelines discussed in the permit. These integrity tests are to include a standard tubing/casing annulus pressure test, and a radioactive tracer survey (RATS) and temperature log of the well (the first RATS and temperature log are to be conducted after 60 days of injection). Additional tests to be performed following sufficient buildup of reservoir pressure are a step-rate injectivity test and a pressure fall-off test. These tests will be planned, and must be approved by the Director prior to being conducted in the well.

Mechanical Integrity (Condition 2)

A tubing/casing annulus pressure test must be repeated at least every two (2) years in order to demonstrate continued tubing, packer, and casing integrity. The tests shall be run while the well is shut-in at a pressure which is at least 300 psi greater than the shut-in tubing pressure. Annular pressure in excess of 200 psi above the pressure to be maintained on the annulus shall be grounds for ceasing injection, evaluating the well's operation, and performing a mechanical integrity test, unless the increase in pressure can be determined to be caused by normal injection operations. Following six months of operation, the annulus pressure data will be evaluated to determine if changes in the annular pressure criteria are needed.

The absence of any flow behind casing must also be demonstrated; this shall be initially accomplished by performing a radioactive tracer survey (RATS) and a temperature log, with subsequent tests performed at five (5) year intervals. The

permittee shall provide a procedure for running the RATS and temperature log which must be approved by EPA. Elimination of subsequent RATS will depend on the results of the initial temperature log, that is, if both tests give similar results which are considered to be definitive.

Injection Interval (Condition 3)

Injection will be limited to the gross upper and lower Green River Formation (4,100 to 6,090 feet) and (7,231 to 7,528 feet), respectively. The permittee may find it necessary to perforate additional intervals within the above gross intervals. These additional perforations may be added later and reported on EPA Form 7520-12. Present casing perforations are between 4,106 and 6,090 feet, and between 7,231 and 7,528 feet.

Injection Pressure Limitation (Condition 4)

The permittee has requested a maximum surface injection pressure of 1,230 pounds per square inch gauge (psig), with an average of 1,000 psig. The maximum pressure limitation was calculated using a frac gradient of 0.733 psi/ft, based on 40 CFR 147.1353. To date, the permittee has not supplied site specific fracture pressure data for this well.

$$Pm = [(0.733)-(0.433)](Sg)d$$

Where:
Pm = maximum wellhead pressure (psig)
Sg = specific gravity of injected fluid (estimated at 1.0)
d = depth to injection zone (4,100 feet)

$$Pm = [(0.733-0.433)](1.00)(4100) = 1230 \text{ psig}$$

The permittee shall limit the maximum surface injection pressure to 1,230 psig, until such time as a step-rate injectivity test is performed. The testing method must be approved by the EPA prior to commencing the test. This step-rate test will be undertaken when the stabilized surface injection pressure is approximately 75% of the maximum allowable injection pressure. A new requested pressure will not exceed the formation breakdown pressure.

Injection Volume Limitation (Condition 5)

There is no limitation on the number of barrels of fluid per day (BFPD) that shall be injected into the Blue Bench #13-1, or in the cumulative number of barrels injected, provided that in no case shall injection pressure exceed that limit shown in Part II, Section C. 4. of this permit.

Injection Fluid Limitation (Condition 6)

Fluids injected into the Blue Bench #13-1 shall be limited to Class II fluids, plus nonhazardous industrial fluids as provided for in this Class V permit. The industrial fluids approved for injection are as follows:

1) reclaimed water associated with the removal of underground fuel storage tanks, if determined by analysis to be nonhazardous;

2) water from oil field surface pit operations;

3) contaminated waters from construction and operational sites;

4) stored fuels, if analyzed as nonhazardous;

5) Treated municipal sewerage;

6) agricultural site runoff impoundment sumps; and

7) nonhazardous industrial waste fluids that have been approved for disposal by the Director.

Class II fluids which are currently authorized for injection in the well are as follows:

1) produced water from oil and gas production;

2) waste fluids from the actual drilling operation;

3) pigging fluids from the cleaning of collection and injection lines within the field;

4) used workover and stimulation fluids recovered from production, injection, and exploratory wells;

5) gas, such as methane, CO_2 or nitrogen used for enhanced recovery/pressure maintenance of production reservoirs;

6) brine reject from water softeners associated with enhanced recovery;

7) waste fluids from methane sweetening and dehydration, which is blended with produced water, as long as it is not hazardous at the point of injection;

8) waste fluids from circulation during well cementing;

9) waste oil and fluids from cleanup associated with primary production (but not the transportation) of oil or gas within the oil field;

10) fresh water used for enhanced recovery makeup; and

11) water containing chemicals such as polymers for the purpose of enhanced recovery.

PART II Section D MONITORING, RECORDKEEPING AND REPORTING OF RESULTS

Injection Well Monitoring Program (Condition 1)

Continuous monitoring and recording of injection pressure, flow rate, volume, and tubing/casing annulus pressure shall be required. The permittee is also required to analyze water quality of the injected fluids.

All Class V fluids intended for injection will be sampled and tested for the following: corrosivity, toxicity using the Toxicity Characteristic Leaching Procedure (TCLP), ignitability, and reactivity, prior to being placed in onsite storage tanks, using one of the following criteria:

(a) FOR FLUIDS WHICH MAY VARY IN CHEMICAL COMPOSITION. Analysis of industrial waste fluids is to be performed prior to delivery to on-site storage tanks at the well site. Fluid samples shall be analyzed for Ph, conductivity, radiological, and biological parameters. At least one load in four must be screened for toxics using EPA Method 624, and analyzed for standard cations and anions. If, however, the analyses of four (4) loads from the same source indicates the material is not hazardous and the quality has little variability, the Director may waive the requirement for analyzing every load. Subsequent to this waiver, a minimum sampling schedule will be established by the Director.

(b) FOR FLUIDS ASSOCIATED WITH A SPECIFIC PROCESS, WHICH DO NOT VARY IN CHEMICAL COMPOSITION. Prior to being commingled with other fluids, analysis of industrial waste fluids received at the well site is to be performed at least once per quarter. Fluid samples shall be analyzed for standard anions and cations, including Ph and conductivity, and radiological constituents, and for toxicity using EPA Method 624. If, however, the analyses of the quarterly samples shows significant variability in chemical composition, the frequency of analyses may be increased to that specified in item (a) above.

(c) Analysis of commingled injection fluids (oil field water and nonhazardous fluids) prior to injection is to be performed at random, but not less than once every three months, for total dissolved solids, Ph, specific gravity, specific conductivity, major cations and anions, oil and grease, and total organic carbon.

The permit requires that the average, maximum and minimum monthly values of injection pressure, flow rate and volume, and annular pressure be reported quarterly, along with the data from the fluid analyses. In addition to routine quarterly reporting, the permittee is required to report the results of mechanical integrity tests, well workovers, logging, or testing of the well or injection zone. These reports are due within sixty (60) days of the completion of the activity, or at the time of the next scheduled quarterly report, whichever is sooner.

The permittee is being required to keep records concerning: (1) the location, date and time, nature of source activity, type and volume of fluids picked up for transport to the injection well, (2) the nature and composition of the injection fluids, (3) all monitoring data including the continuous pressure monitoring charts, and (4) copies of all reports sent to EPA. The permittee shall maintain copies (or originals) of all pertinent records at the office of Enviro-Tec, Inc., 1015 East 3900 South, Salt Lake City, UT 84124.

PART II, Section E PLUGGING AND ABANDONMENT

Plugging and Abandonment Plan (Condition 2)

The plugging and abandonment plan (Appendix C) submitted by the permittee consists of five (5) plugs with the following specifications. All voids between plugs within the 7-inch casing shall be filled with 9.2 ppg plugging gel. This plan has been reviewed and found to be adequate to isolate the injection intervals and to prevent significant flow within the wellbore between units overlying the injection zone. The plan is consistent with UIC regulations and guidance and has been approved as part of the permit.

Plug #1: Within the 7-inch long string casing, place a cement plug from 7,175 to 7,630 feet using Class G or Class V cement.

Plug #2: Within the 7-inch long string casing, place a cement plug from 6,520 to 6,720 feet using Class G or Class V cement.

Plug #3: Within the 7-inch long string casing, place a cement plug from 3,600 to 4,140 feet using Class G or Class V cement.

Plug #4: Within the 7-inch long string casing, place a cement plug from 1,900 to 2,700 feet using Class G or Class V cement.

Plug #5: Within the 7-inch long string casing and surface casing/long string casing annulus, place cement plugs from the surface to a depth of 50 feet using Class G or Class V cement.

PART II Section F FINANCIAL RESPONSIBILITY

Demonstration of Financial Responsibility (Condition 1)

Enviro-Tec, Inc. has chosen to demonstrate financial responsibility by a Letter of Credit and a Standby Trust Agreement which have been reviewed and approved by the EPA.

EPA ADVISORY

Please be advised that all required tests/surveys, i.e., mechanical integrity test (MIT), and step-rate test (SRT), will be conducted following GUIDELINES enclosed as Appendices within the Final Permit. Any deviation from those GUIDELINES, without the written consent of the Director, may result in denial of the particular test/survey.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
999 18TH STREET - SUITE 500
DENVER, CO 80202-2466

UNDERGROUND INJECTION CONTROL PROGRAM

Draft Permit

Class V Nonhazardous Industrial Waste Disposal Well

Permit No. UT5641-03726

Well Name: Blue Bench #13-1

Field Name: Altamont

County & State: Duchesne, Utah

issued to:

Enviro-Tec, Inc.
1015 East 3900 South
Salt Lake City, UT 84124

Date Prepared: April, 1999

Printed on Recycled Paper

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PART I. AUTHORIZATION TO INJECT

Pursuant to the Underground injection Control Regulations of the U.S. Environmental Protection Agency codified at Title 40 of the Code of Federal Regulations, Parts 124, 144, 146, and 147,

Enviro-Tec, Inc.
1015 East 3900 South
Salt Lake City, UT 84124

is hereby authorized to operate a Class V disposal well, commonly known as Blue Bench #13-1, located in the NE 1/4 of the NE 1/4, 820 feet from the north line and 932 feet from the east line of Section 13, Township 3 South, Range 5 West, in Duchesne County, Utah. Injection shall be for the purpose of disposing of nonhazardous industrial waste fluids and produced water from oil and gas fields, in accordance with conditions set forth herein.

Injection activities shall not commence until the operator has fulfilled all applicable conditions of this permit and has received written authorization from the Director. "Prior to Commencing Injection" requirements are set forth in Part II, Section C.1. of this permit.

All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations and are regulations that are in effect on the date that this permit becomes effective. This permit consists of a total of 50 pages and includes all items listed in the Table of Contents. Further, it is based upon representations made by the permittee and on other information contained in the administrative record.

This permit and the authorization to inject are issued for a period of ten (10) years, unless terminated (Part III, Section B); authorization to inject shall automatically expire due to prolonged postponement of conversion to a Class V injection well (Part II, Section A. 6.). The permit will be reviewed by EPA at least once every five (5) years to determine whether action under 40 CFR §144.36 (a) is warranted.

The State of Utah or the Northern Ute Indian Tribe of the Uintah-Ouray Reservation may apply for primary enforcement responsibility of the UIC program for Indian lands and may, if qualified, assume primary responsibility for regulating this permittee. Notwithstanding approval of any forthcoming State or Tribal UIC primacy application, EPA retains responsibility for directly administering and enforcing this federal permit, unless otherwise specifically addressed in the EPA/State or EPA/Tribe MOA (40 CFR § 145.25). If EPA determines that the State or Tribe has issued an equivalent permit under an EPA approved UIC program, EPA and the permittee may agree to terminate this federal permit.

Issued _____ DRAFT

This permit shall become effective _____.

DRAFT

_____

* Kerrigan G. Clough
Assistant Regional Administrator
Office of Partnerships and
Regulatory Assistance

*Note: The person holding this title is referred to as the "Director" throughout this permit.

PART II. SPECIFIC PERMIT CONDITIONS

A. WELL CONSTRUCTION REQUIREMENTS

1. Casing and Cementing. The construction details submitted with the application are hereby incorporated into this permit as Appendix A, and shall be binding on the permittee. Cement bonds between the wellbore and casing are as follows: (1) cement extends from the base of the long string casing up to a depth of 6,520 feet kelly bushing (KB), and from a depth of 4,100 feet up to a depth of 1,850 feet, inside the long string/surface casing annulus; and (2) cement extends from the base of the surface casing to the top of the surface casing. Injection between the outermost casing protecting underground sources of drinking water (USDWs) and the wellbore is prohibited.

2. Tubing and Packer Specifications. An injection tubing of three and one-half (3-1/2) inches diameter shall be utilized. A packer shall be set at a depth of 4,077 feet kelly bushing (KB). In no instance is the packer to be more than 100 feet above the top of the uppermost injection interval.

3. Monitoring Devices. Prior to beginning Class V nonhazardous injection operation, the operator shall install and maintain in good operating condition the following equipment:

(a) a tap on the injectate line, for the purpose of obtaining representative samples of the injection fluids;

(b) two (2), one-half (1/2) inch Female Iron Pipe (FIP) fittings, isolated by ball or needle valves, and located: 1) at the wellhead on the tubing; and 2) on the tubing/casing annulus, and positioned to allow attachment of 1/2 inch Male Iron Pipe (MIP) pressure gauges;

(c) pressure gauges attached to the FIP fittings of the: 1) tubing/casing annulus to allow for monitoring of the annulus fluid pressure; and 2) the tubing to allow injection pressure monitoring. The tubing/casing annulus shall be maintained full of non-toxic fluid with a corrosion inhibitor under **an initial positive pressure of at least 200 psig.** The operator must submit plans for maintaining and monitoring positive annulus pressure prior to installation of the device. Pressure gauges shall be certified for at least ninety-five (95) percent accuracy, throughout the range of anticipated pressures;

(d) a flow meter with cumulative volume recorder that is certified for at least ninety-five (95) percent accuracy, throughout the range of injection rates allowed by the permit; and

(e) installation of suitable equipment for the continuous monitoring and recording of injection pressure, annulus pressure, flow rate, and volume. A continuous recording of injection volume can be accomplished by use of a non-resettable cumulative volume totalizer; and

(f) **finally, installation of a pump shut-off interlock device to prevent the surface injection pressure from exceeding 1,230 psig.**

4. Proposed Changes and Workovers. The permittee shall give advance notice to the Director, as soon as possible for approval, of any planned physical alterations or additions to the permitted well. Major alterations or workovers of the permitted well shall meet all conditions as set forth in this permit. A major alteration/workover shall be considered any work performed, which affects casing, packer(s), or tubing.

Demonstration of mechanical integrity (tubing/casing annulus pressure test) shall be performed within thirty (30) days of completion of workovers/alterations and prior to resuming injection activities, in accordance with Part II, Section C. 2. (a).

The permittee shall provide all records of well workovers including any repairs, logging, or other test data to EPA within sixty (60) days of completion of the activity. Appendix B contains samples of the appropriate reporting forms.

5. Formation Testing. The permittee shall conduct appropriate tests during the operating life of the well.

(a) The permittee shall perform a controlled injectivity step-rate test to determine the fracture pressure of the injection zone(s). Since the well is currently injecting at a minimal surface pressure, this test shall be deferred until such time as stabilized injection conditions have been attained and the injection pressure is equal to seventy-five percent (75%) of the maximum allowable pressure specified in Part II C.4.(b) of this permit. This test shall utilize fluids normally being injected.

(b) **The permittee shall perform a pressure fall-off test of the injection zone(s) on an annual basis.** Subsequent tests must be run within one year of the previous test. It is recommended that the initial pressure buildup utilize a downhole pressure gauge, followed by the shut-in fall-off test. Each annual test is to be conducted in the same manner, and the results are to be analyzed in report form for comparison with previous year results.

6. Postponement of Conversion. If the well is not converted to Class V injection status within one (1) year from the effective date of this permit, the authorization to inject as a Class V well will automatically expire, unless the permittee requests an extension. The request shall be made to the Director in writing, in lieu of the annual reporting requirements of Part II, Section D.4., and shall state the reasons for the delay in conversion and confirm the protection of all USDWs. The extension under this section may not exceed one (1) year.

Financial responsibility and mechanical integrity shall be maintained during the period of inactivity in accordance with Part II, Section F. Once authorization to inject as a Class V well expires under this part, the full permitting process, including opportunity for public comment, must be repeated before authorization to inject will be reissued.

B. CORRECTIVE ACTION

The applicant is not required to take any corrective action. prior to the issuance of this permit.

C. WELL OPERATION

1. Prior to Commencing Injection. Injection operations as a Class V well may not commence until the permittee has complied with (a), and (b) as follows:

(a) Conversion is complete, **including installation of all monitoring devices**, and testing requirements have been fulfilled.

(i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the permit; or

(ii) The permittee has not received notice from the Director of his or her intent to inspect or otherwise review the injection well within

thirteen (13) days of the effective date of this permit, in which case prior inspection or review is waived and the permittee may commence injection. Note: However, in all circumstances, item (b) below must also be satisfied.

(b) The permittee demonstrates that the well has mechanical integrity and has received notice from the Director that such demonstration is satisfactory. Demonstration of mechanical integrity shall consist of two parts: (1) a tubing/casing annulus pressure test in accordance with 40 CFR 146.8 and Part II, Section C.2.(a), below, and verification that no flow of fluid exists adjacent to the casing, in accordance with Section C.2.(b), below. **The permittee shall notify EPA two (2) weeks prior to conducting these tests so that a representative may be present to observe the tests.** Results of the tests shall be submitted to the Director as soon as possible but no later than thirty (30) days after the demonstrations.

2. Mechanical Integrity.

(a) Absence of Significant Leaks. A demonstration of the absence of significant leaks in the casing, tubing and/or packer must be made by performing a tubing/casing annulus pressure test. The tubing/casing annulus shall be filled with non-toxic fluid with a corrosion inhibitor. **This test shall be for a minimum of forty-five (45) minutes at a pressure of at least 300 pounds per square inch gauge (psig) above the injection tubing pressure while the well is shut-in. The well should be shut-in at least two hours in advance of the test.** Pressure values shall be recorded at five (5) minute intervals. A well passes the mechanical integrity test if there is less than a ten (10) percent decrease or increase in pressure over the forty-five (45) minute period.

(b) Absence of Significant Flow Adjacent to the Casing. A demonstration of the absence of any significant flow of fluid adjacent to the casing must be made by **initially performing a radioactive tracer survey and a temperature log performed after 60 days of injection** to determine if there is any movement of fluid out of the injection

zone(s). The logging plan is to be submitted to the Director for approval, prior to running the logs.

(c) Schedule of Demonstration of Mechanical Integrity. A demonstration of mechanical integrity (tubing/casing annulus pressure test) **shall be made at regular intervals, no less frequently than every two (2) years from the effective date of this permit,** in accordance with 40 CFR 146.8 and paragraph (a) above, unless otherwise modified. A tubing/casing annulus pressure test is also required following any workover of the well. Initiation of mechanical integrity demonstrations will be according to the following provisions:

(i) It shall be the permittee's responsibility to arrange and conduct the routine two-year tubing/casing annulus pressure test demonstration, and five-year radioactive tracer survey and/or temperature log. The procedure for running the radioactive tracer survey and/or temperature log must be approved in advance by the Director. The permittee shall notify the Director of his intent to demonstrate mechanical integrity at least thirty (30) days prior to such demonstration. Results of the test shall be submitted to the Director as soon as possible but no later than sixty (60) days after the demonstration.

(ii) In addition to any demonstration made under paragraph (i) above, the Director may require a demonstration of mechanical integrity, as described in Part II, Section C.2.(a) and (b), at any time during the permitted life of the well.

(d) Loss of Mechanical Integrity. **The well must have mechanical integrity at all times. If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity as defined by 40 CFR 146.8 becomes evident during operation, injection shall be stopped immediately and the permittee shall notify the Director in accordance with Part III, Section E. 10. of this permit.** Operations shall not be resumed until the permittee has taken necessary actions to restore integrity to the well and EPA gives approval to recommence injection.

3. Injection Interval. Injection shall be limited to the gross subsurface intervals 4,100 to 6,520 feet and 7,231 to 7,528 feet, within the Green River Formation. Additional perforations within the gross intervals may be added later and reported on EPA Form 7520-12.

4. Injection Pressure Limitation.

(a) Injection pressure, measured at the surface, shall not exceed an amount that the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs.

(b) The exact pressure limit may be increased or decreased by the Director in order to ensure that the requirements in paragraph (a) are fulfilled. In order to determine an exact pressure limit, **the permittee shall conduct a step rate test or other authorized well test(s) that will serve to determine the fracture pressure of the injection zone(s).** Test procedures shall be pre-approved in writing by the Director. The Director will specify in writing, to the permittee, any increase or decrease to the injection pressure based upon the test results and/or other parameters reflecting actual injection operations. Until such time that this demonstration and approval is made, the initial injection pressure, measured at the surface, shall not exceed **1,230 psig.**

5. Injection Volume Limitation. There is no limitation on the number of barrels of fluid per day (BFPD) that shall be injected into this well, or the cumulative number of barrels injected, provided that in no case shall injection pressure exceed that limit shown in Part II, Section C.4.(b) of this permit.

6. Injection Fluid Limitation. The permittee is authorized to inject only Class II oil and gas related fluids, and nonhazardous industrial waste fluids as approved by the Director and listed in Appendix E. On-site storage or injection of any hazardous waste as identified by EPA under 40 CFR 261.3 is prohibited.

Additions to the list in Appendix E shall be made a binding part of this permit following the procedures outlined below:

For Class II fluid sources or other fluid sources which are exempt from RCRA Subtitle C:

a) Request that a new source of fluid be accepted for disposal. Include the source name, location, operator, type of operation, and nature of fluid and reason waste is believed to be exempt.

b) The request shall be accompanied by a Standard API analysis for oil field water.

c) Any approval for injection may be granted verbally, with subsequent written approval from the Director.

For nonhazardous fluid sources:

a) Request that a new source of fluid be accepted for disposal. Include the source name, location, operator, type of operation, name of process that generated the waste, and brief description of the nature of the fluid.

b) Since these wastes may not be exempt, include an analysis of the fluids (standard cations and anions), including corrosivity, toxicity (using EPA Method 624), ignitability, reactivity, chromium, lead, and cadimum.

c) If there are pesticides or herbicides stored, used or manufactured on site, the waste fluids must be analyzed for such compounds using an approved EPA Method.

d) Injection shall not take place without prior approval by the Director. This approval for injection may be granted verbally, with subsequent written approval from the Director.

7. Annular Fluid. The annulus between the tubing and the casing shall be maintained full of fresh water treated with a non-toxic corrosion inhibitor, or other fluid as approved, in writing, by the Director. **The operator shall provide EPA with a record of the date, time and volume of corrosion inhibitor added to the annulus. This record shall be included in the quarterly report which follows addition of inhibitors.**

D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Injection Well Monitoring Program. The permittee shall utilize the applicable analytical methods described in 40 CFR 136.3, or in Appendix III of 40 CFR Part 261, or in certain circumstances, by other methods that have been approved by the EPA. Samples and measurements shall be representative of the monitored activity. Monitoring shall consist of:

(a) FOR FLUIDS WHICH MAY VARY IN CHEMICAL COMPOSITION. Analysis of industrial waste fluids is to be performed prior to delivery to on-site storage tanks at the well site. Fluid samples shall be analyzed for Ph, conductivity, radiological, and biological parameters. At least one load in four must be screened for tonics using EPA Method 624, and analyzed for standard cations and anions. If, however, the analyses of four (4) loads from the same source indicates the material is not hazardous and the quality has little variability, the Director may waive the requirement for analyzing every load. Subsequent to this waiver, a minimum sampling schedule will be established by the Director.

(b) FOR FLUIDS ASSOCIATED WITH A SPECIFIC PROCESS, WHICH DO NOT VARY IN CHEMICAL COMPOSITION. Prior to being commingled with other fluids, analysis of industrial waste fluids received at the well site is to be performed at least once per quarter. Fluid samples shall be analyzed for standard anions and cations, including Ph and conductivity, and radiological constituents, and for toxicity using EPA Method 624. If, however, the analyses of the quarterly samples shows significant variability in chemical composition, the frequency of analyses may be increased to that specified in item (a) above.

(c) Analysis of commingled injection fluids prior to injection is to be performed at random, but not less than once every three months, for total dissolved solids, Ph, specific gravity, specific conductivity, major cations and anions, oil and grease, and total organic carbon.

(d) Sampling requirements in paragraphs (a), (b), and (c) above, may be modified as a minor permit modification after a review of the first quarter of data.

(e) Continuous monitoring of flow rate to be recorded on a continuous recording device. Daily observation of the wellhead flow meter shall be made and compared to continuous recording device readings as a means of assuring the accuracy of the continuous recording device. The permitted shall report the minimum and maximum daily injection rate for each month and the day on which it occurred, and the average monthly flow rate. Minimum, maximum and average daily volume and total monthly volume injected must also be reported. Cumulative volume shall be measured by a non-resettable volume totalizer.

(f) Continuous monitoring of injection pressure and casing/tubing annulus pressure to be recorded on a continuous recording device. Daily observations of the wellhead pressure gauges shall be made as a means of assuring the accuracy of the continuous recording device. The permitted shall report the minimum and maximum daily injection pressure and annulus pressure for each month and the day on which each occurred. The monthly average injection pressure and annulus pressure shall also be reported. The time, date, volume of the addition of any annular fluid will be reported. **If there is an increase in annulus pressure of more than 200 psi, the operator must assess the well's operation to determine if a loss of mechanical integrity has occurred or if the change is due to a change in injection fluid rate or temperature. EPA must be notified within 24 hours. If the pressure change cannot be explained by the well's operating procedure, a mechanical integrity test will be run.** The criteria for monitoring the annulus will be evaluated after at least six months of data has been collected. If warranted by the results of this review, a change in the annulus pressure requirement or the failure criteria may be made as a minor modification of the permit.

(g) Analysis of Class II oil field water intended for injection shall be performed prior to delivery to on-site storage tanks according to the procedure described in Part II, Section C.6. Injection Fluid Limitation.

(h) The permitted is required to record and retain records concerning: (1) the location, date and time, nature of source activity, type and volume

of fluids picked up for transport to the injection well, and (2) the nature and composition of the fluids.

2. Monitoring Information. Records of any monitoring activity required under this permit shall include:

(a) The date, exact place, the time interval of sampling, monitoring, or field measurements;

(b) The name of the individual(s) who performed the sampling or measurements;

(c) The exact sampling method(s) used to take samples along with quality assurance methods (i.e., chain-of-custody, etc.);

(d) The date(s) laboratory analyses were performed;

(e) The name of the individual(s) who performed the analyses;

(f) The analytical techniques or methods used by laboratory personnel; and

(g) The results of such analyses.

3. Record keeping.

(a) The permitted shall retain records concerning:

(I) the nature and composition of all injected fluids until three (3) years after the completion of plugging and abandonment which has been carried out in accordance with the Plugging and Abandonment Plan shown in Appendix C, and is consistent with 40 CAR 146.10.

(ii) all monitoring information, including all calibration and maintenance records and all original chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit for a period of a least five (5) years from the date of the sample, measurement or report throughout the operating life of the well.

(b) The permitted shall continue to retain such records after the retention period specified in paragraphs (a) (I) and (a) (ii) unless he delivers

the records to the Director or obtains written approval from the director to discard the records.

(c) The permitted shall maintain copies (or originals) of all pertinent records at the office of Environ-Ten, Inc., 1015 East 3900 South, Salt Lake City, UT 84124.

4. Reporting of Results. The permitted shall submit Quarterly Reports to the Director summarizing the results of the monitoring required by Part II, Section D.1. (a), (b), (c), (d), (e), (f) and (g) of this permit. Copies of all records on injected fluids, and any major changes in characteristics or sources of injected fluid shall be included in the Quarterly Report. Results of any mechanical integrity tests shall also be included in the Quarterly Report.

The first Quarterly Report shall cover the period from the effective date of the permit through the end of that quarter. Subsequently, the Quarterly Reports shall cover the period from January 1 through March 31; April 1 through June 30; July 1 through September 30; and October 1 through December 31. Each Quarterly Report shall be submitted to the Denver Office by the 15th of the following month. Appendix B contains Form 7520-8 which may be copied and used to submit the quarterly summary of monitoring.

E. PLUGGING AND ABANDONMENT

1. Notice of Plugging and Abandonment. **the permitted shall notify the Director in writing no later than forty-five (45) days before planned conversion or abandonment of the well.** The notice shall also include:

(a) Well Condition Report

The permitted shall provide a report on the current condition of the well in order to update, supplement or complete any information found in the Plugging and Abandonment Plan, Appendix C. This report shall discuss in detail and evaluate:

(1) The results of the well's most recent mechanical test,

(2) The location of any leaks or perforations in the casing,

(3) The location of any vertical migration of fluids behind the casing, and

(4) The adequacy of casing cement bonding across the penetrated formations, from cement bond logs run at the time of well construction or just prior to well abandonment.

Any supporting data or test results shall be attached to confirm the conclusions of the report.

(b) Individual Plugging and Abandonment Plan

The permitted shall also submit an individual plugging and abandonment plan for the injection well. In coordination with the Well Condition Report, this plan shall modify and supercede the Plugging and Abandonment Plan, Appendix C, as necessary, to ensure adequate plugging and abandonment of the well.

The plugging and abandonment of the well shall be subject to prior Director approval of the individual plugging and abandonment plan. The Director reserves the right to grant conditional approval of the individual plugging and abandonment plan to ensure adequate plugging of the well.

2. Plugging and Abandonment Plan. The permitted shall plug and abandon the well consistent with 40 CAR 146.10, as provided for in the Plugging and Abandonment Plan, Appendix C, and any conditions issued by the Director in approval of the individual plugging and abandonment plan required by Part II, E.1. of this permit. The Director may require the permitted to update the estimated plugging costs which a third party would incur to plug the well according to the plan, and provide a revised demonstration of financial responsibility if necessary.

3. Cessation of Injection Activities. After a cessation of operations of two (2) years, the permitted shall plug and abandon the well in accordance with the Plugging and Abandonment Plan, unless the permitted:

(a) has provided notice to the Director; and

(b) has demonstrated that the well will be used in the future; and

(c) has described actions or procedures, satisfactory to the Director, that will be taken to ensure that the well will not endanger underground sources of drinking water during the period of temporary abandonment.

4. Plugging and Abandonment Report. Within sixty (60) days after plugging the well, the permitted shall submit a report on form 7520-13 to the Director. The report shall be certified as accurate by the person who performed the plugging operation and the report shall consist of either: (1) a statement that the well was plugged in accordance with the plan; or (2) where actual plugging differed from the plan, a statement that specifies the different procedures followed.

F. FINANCIAL RESPONSIBILITY

1. Demonstration of Financial Responsibility. The permitted is required to maintain continuous financial responsibility and resources to close, plug and abandon the injection well as provided in the plugging and abandonment plan. The permitted may submit a written request to EPA to change the type of financial mechanism or instrument utilized. A change in demonstration of financial responsibility must be approved in writing by the Director.

2. Insolvency of Financial Institution. In the event that an alternate demonstration of financial responsibility has been approved, the permitted must submit an alternate demonstration of financial responsibility acceptable to the Director within sixty (60) days after either of the following events occur:

(a) The institution issuing the trust or financial instrument files for bankruptcy; or

(b) The authority of the trustee institution to act as trustee, or the authority of the institution issuing the financial instrument, is suspended or revoked.

3. Cancellation of Demonstration by Financial Institution. The permitted must submit an alternative demonstration of financial responsibility acceptable to the Director, within sixty (60) days after the institution issuing the trust or financial instrument serves 120-day notice to the EPA of their intent to cancel the trust or financial instrument.

PART III. GENERAL PERMIT CONDITIONS

A. EFFECT OF PERMIT

The permitted is allowed to engage in underground injection in accordance with the conditions of this permit. The permitted, as authorized by this permit, shall not construct, operate, maintain, convert, plug, abandon, or conduct any other injection activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CAR, Part 142 or otherwise adversely affect the health of persons. Any underground injection activity not authorized in this permit or otherwise authorized by permit or rule is prohibited. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of the private rights, or any infringement of State or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA), 42 USC § 300i, or any other law governing protection of public health or the environment for any imminent and substantial endangerment to human health, or the environment, nor does it serve as a shield to the permitted's independent obligation to comply with all UIC regulations.

B. PERMIT ACTIONS

1. Modification, Reissuance, or Termination. The Director may, for cause or upon a request from the permitted, modify, revoke and reissue, or terminate this permit in accordance with 40 CAR Sections 124.5, 144.12, 144.39, and 144.40 Also, the permit is subject to minor modifications for cause as specified in 40 CAR Section 144.41. The filing of a request for a permit modification, revocation and reissuance, or termination or the notification of planned changes or anticipated noncompliance on the part of the permitted does not stay the applicability or enforceability of any permit condition.

2. Conversions. The Director may, for cause or upon a request from the permitted allow conversion of the well from a Class V injection well to a non-Class V well. Requests to convert the injection well from its Class V status to a non-Class V well, such as, a production well, must be made in writing to the Director. Conversion may not proceed until a permit modification indicating the conditions of the proposed conversion is received by the permitted. Conditions of the modification may include such items as, but is not limited to, approval of the proposed well rework, follow up demonstration of mechanical

integrity, and well specific monitoring and reporting following the conversion.

3. Transfers. This permit is not transferrable to any person except after notice is provided to the Director and the requirements of 40 CAR 144.38 are complied with. The Director may require modification, or revocation and reissuance, of the permit to change the name of the permitted and incorporate such other requirements as may be necessary under the SDWA.

4. Operator Change of Address. Upon the operator's change of address, notice must be given to the appropriate EPA office at least fifteen (15) days prior to the effective date.

C. SEVERABILITY

If any provision of this permit or the application of any provision of this permit to any circumstance is stayed or held invalid, all remaining provisions of this permit shall remain fully effective and enforceable, except for those provisions which are not severable from the stayed or invalid provision.

D. CONFIDENTIALITY

In accordance with 40 CAR Part 2 and 40 CAR 144.5, any information submitted to EPA pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CAR Part 2 (Public Information). EPA will deny claims of confidentiality including but not limited to the following information:

- The name and address of the permitted; and
- Information which deals with the existence, absence, or level of contaminants in drinking water.

E. GENERAL DUTIES AND REQUIREMENTS

1. Duty to Comply. The permitted shall comply with all conditions of this permit, except to the extent and for the duration that such noncompliance is authorized by an emergency permit. Any permit noncompliance constitutes a violation of the SDWA and is grounds for enforcement action, permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. Such noncompliance may also be

grounds for enforcement action under the Resource Conservation and Recovery Act (RCRA).

2. Penalties for Violations of Permit Conditions. Any person who violates a permit requirement is subject to civil penalties, fines, and other enforcement action under the SDWA and may be subject to such actions pursuant to the RCRA. Any person who willfully violates permit conditions may be subject to criminal prosecution.

3. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permitted in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

4. Duty to Mitigate. The permitted shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

5. Proper Operation and Maintenance. The permitted shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permitted to achieve compliance with the conditions of this permit. All surface piping and storage tank leakage must be promptly repaired and notification of action taken reported to EPA. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance and procedures. This provision requires the operation of back-up, or auxiliary facilities or similar systems, only when necessary, to achieve compliance with the conditions of this permit.

6. Duty to Provide Information. The permitted shall furnish the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permitted shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

7. Inspection and Entry. The permitted shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the permitted's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

(d) Sample or monitor, at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA any substances or parameters at any location.

8. Records of Permit Application. The permitted shall maintain records of all data required to complete the permit application and any supplemental information submitted for a period of five (5) years from the effective date of this permit. This period may be extended by request of the Director at any time.

9. Signatory Requirements. All reports or other information requested by the Director shall be signed and certified according to 40 CAR 144.32.

10. Reporting of Noncompliance.

(a) Anticipated Noncompliance. The permitted shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than thirty (30) days following each schedule date.

(c) Twenty-four Hour Reporting.

(I) The permitted shall report to the Director any noncompliance which may endanger health or the environment. Information shall be provided orally within twenty-four (24) hours from the time the permitted becomes aware of the circumstances by telephoning EPA at (303) 312-6079 (during normal business hours) or at (303) 312-6337 (for reporting at all other

times). The following information shall be included in the verbal report:

(A) Any monitoring or other information which indicates that any contaminant may cause endangerment to an underground source of drinking water.

(B) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

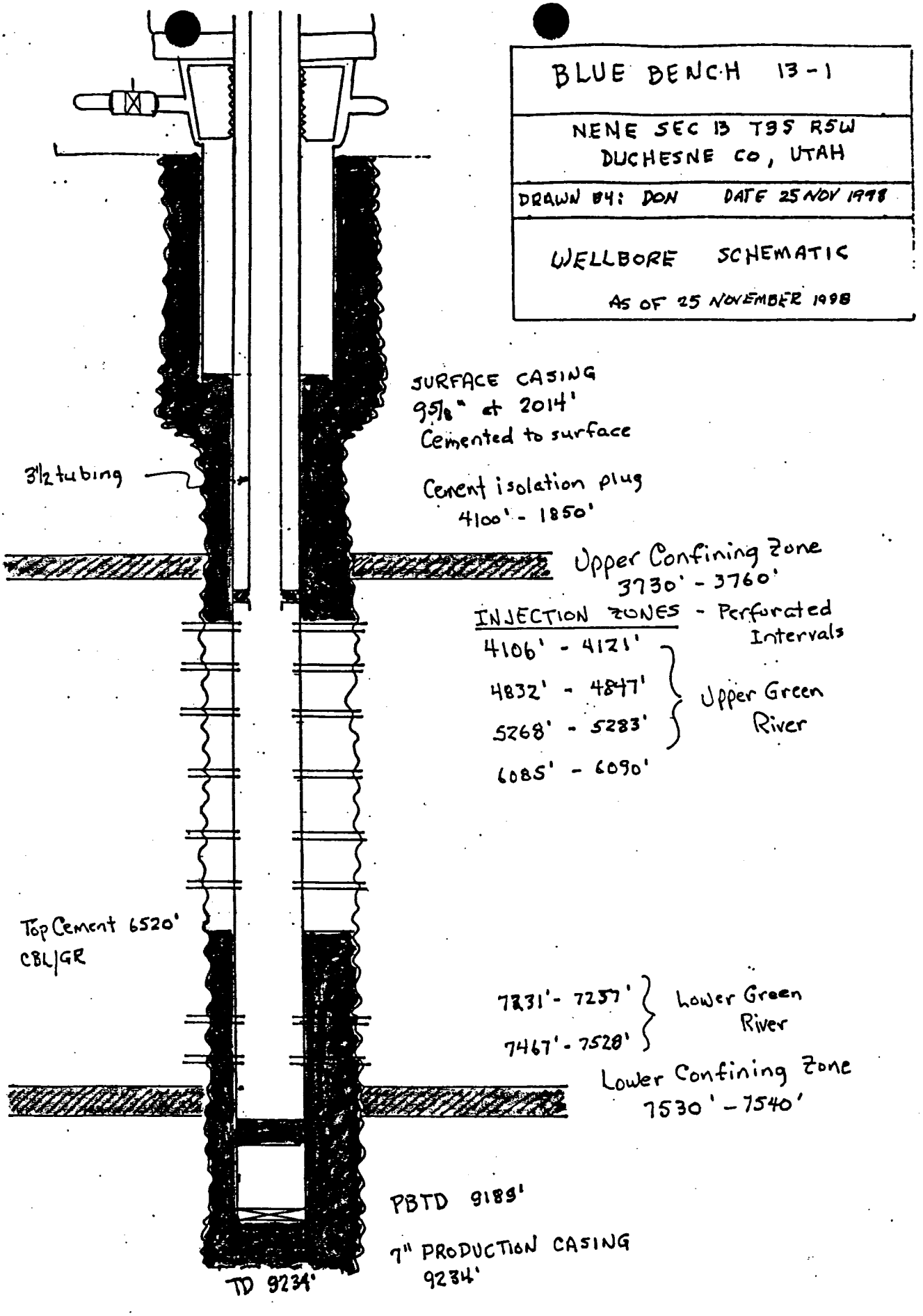
(ii) A written submission shall also be provided to the Director within five (5) days of the time the permitted becomes aware of the potential for endangerment to health or the environment. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

(d) Other Noncompliance. The permitted shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted. The reports shall contain the information listed in Part III, Section E. 10. (c) (ii) of this permit.

(e) Other Information. Where the permitted becomes aware that any relevant facts were not submitted in the permit application, or incorrect information was submitted in a permit application or in any report to the Director, the permitted shall submit such correct facts or information within two (2) weeks of the time such information becomes known.

11. Duty to Reapply. If the permitted wishes to continue an activity regulated by this permit after the expiration date of this permit, the permitted must apply for and obtain a new permit.

APPENDIX A (CONSTRUCTION DETAILS)


BLUE BENCH 13-1
NENE SEC 13 T9S R5W
DUCHESNE CO, UTAH
DRAWN BY: DON DATE 25 NOV 1998
WELLBORE SCHEMATIC
AS OF 25 NOVEMBER 1998
SURFACE CASING
9 5/8" at 2014'
Cemented to surface
3 1/2 tubing
Cement isolation plug
4100' - 1850'
Upper Confining Zone
3730' - 3760'
INJECTION ZONES - Perforated Intervals
4106' - 4121'
4832' - 4847'
5268' - 5283'
Upper Green River
6085' - 6090'
Top Cement 6520'
CBL/GR
7231' - 7257'
7467' - 7528'
Lower Green River
Lower Confining Zone
7530' - 7540'
PBTD 9189'
7" PRODUCTION CASING
9234'
TD 9234'

APPENDIX B (REPORTING FORMS)

1.	EPA Form 7520- 7:	APPLICATION TO TRANSFER PERMIT
2.	EPA Form 7520- 8:	INJECTION WELL MONITORING REPORT
3.	EPA Form 7520-10:	COMPLETION REPORT FOR BRINE DISPOSAL WELL
4.	EPA Form 7520-12:	WELL REWORK RECORD
5.	EPA Form 7520-13:	PLUGGING RECORD
6.	EPA Form R8:	MECHANICAL INTEGRITY PRESSURE TEST

Form Approved. OMB No. 2000-0042. Approval expires 9-30-96

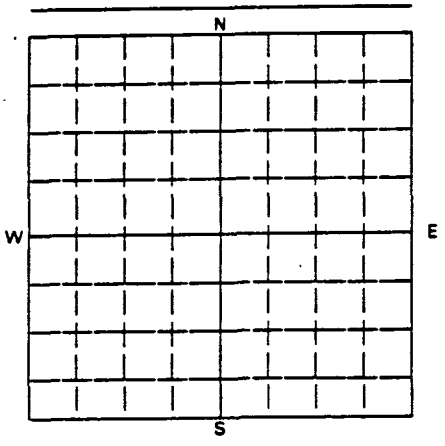
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

APPLICATION TO TRANSFER PERMIT

NAME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ____ ft. from (N/S) ____ Line of quarter section

and ____ ft. from (E/W) ____ Line of quarter section

WELL ACTIVITY	WELL STATUS	TYPE OF PERMIT
☐ Class I	☐ Operating	☐ Individual
☐ Class II	☐ Modification/Conversion	☐ Area
☐ Brine Disposal	☐ Proposed	Number of Wells ____
☐ Enhanced Recovery		
☐ Hydrocarbon Storage		
☐ Class III		
☐ Other		

Lease Name Well Number

NAME(S) AND ADDRESS(ES) OF NEW OWNER(S)	NAME AND ADDRESS OF NEW OPERATOR

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the director.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

INJECTION WELL MONITORING REPORT

Form Approved
OMB No. 2000-0042
Approval expires 9-30-86

YEAR	MONTH	MONTH	MONTH
Injection Pressure (PSI)			
1. Minimum			
2. Average			
3. Maximum			
Injection Rate (Gal/Min)			
1. Minimum			
2. Average			
3. Maximum			
Annular Pressure (PSI)			
1. Minimum			
2. Average			
3. Maximum			
Injection Volume (Gal)			
1. Monthly Total			
2. Yearly Cumulative			
Temperature (F°)			
1. Minimum			
2. Average			
3. Maximum			
pH			
1. Minimum			
2. Average			
3. Maximum			
Other			

Name and Address of Permittee	Permit Number

Name and Official Title *(Please type or print)*	Signature	Date Signed

EPA Form 7520-8 (2-84)

ED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

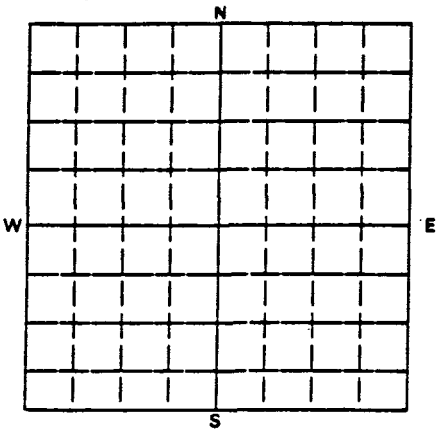
EPA

COMPLETION REPORT FOR BRINE DISPOSAL, HYDROCARBON STORAGE, OR ENHANCED RECOVERY WELL

Form Approved
OMB No. 2040-0042
Approval expires 9-30-96

NAME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ____ ft. from (N/S) ____ Line of quarter section

and ____ ft. from (E/W) ____ Line of quarter section

WELL ACTIVITY
- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT
- ☐ Individual
- ☐ Area

Number of Wells ____

Estimated Fracture Pressure of Injection Zone

Anticipated Daily Injection Volume (Bbls)		Injection Interval	
Average	Maximum	Feet	to Feet

Anticipated Daily Injection Pressure (PSI)		Depth to Bottom of Lowermost Freshwater Formation (Feet)
Average	Maximum	

Type of Injection Fluid *(Check the appropriate block(s))*
- ☐ Salt Water
- ☐ Brackish Water
- ☐ Fresh Water
- ☐ Liquid Hydrocarbon
- ☐ Other

Lease Name	Well Number

Name of Injection Zone

Date Drilling Began	Date Well Completed	Permeability of Injection Zone

Date Drilling Completed	Porosity of Injection Zone

CASING AND TUBING			CEMENT		HOLE	
OD Size	Wt/Ft — Grade — New or Used	Depth	Sacks	Class	Depth	Bit Diameter

INJECTION ZONE STIMULATION		WIRE LINE LOGS, LIST EACH TYPE	
Interval Treated	Materials and Amount Used	Log Types	Logged Intervals

Complete Attachments A — E listed on the reverse.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*		DATE SIGNED

Form Approved. OMB No. 2000-0042. Approval expires 9-30-86

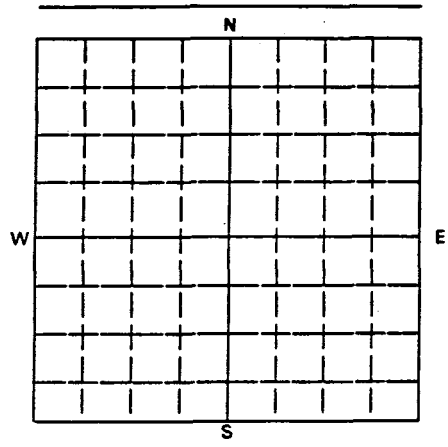
EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE	NAME AND ADDRESS OF CONTRACTOR

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY		TYPE OF PERMIT
☐ Brine Disposal ☐ Enhanced Recovery ☐ Hydrocarbon Storage	Total Depth Before Rework	☐ Individual ☐ Area Number of Wells _____
	Total Depth After Rework	
Lease Name	Date Rework Commenced	Well Number
	Date Rework Completed	

WELL CASING RECORD — BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

WELL CASING RECORD — AFTER REWORK *(Indicate Additions and Changes Only)*

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL USE ADDITIONAL SHEETS IF NECESSARY	WIRE LINE LOGS, LIST EACH TYPE	
	Log Types	Logged Intervals

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

PLUGGING RECORD

NAME AND ADDRESS OF PERMITTEE

NAME AND ADDRESS OF CEMENTING COMPANY

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

N / W / E / S

STATE | COUNTY | PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF | ¼ OF | ¼ SECTION | TOWNSHIP | RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ____ ft. from (N/S) ____ Line of quarter section

and ____ ft. from (E/W) ____ Line of quarter section

TYPE OF PERMIT

☐ Individual
☐ Area

Number of Wells

Describe in detail the manner in which the fluid was placed and the method used in introducing it into the hole

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	PUT IN WELL (FT)	LEFT IN WELL (FT)	HOLE SIZE

WELL ACTIVITY

☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage

METHOD OF EMPLACEMENT OF CEMENT PLUGS

☐ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method

Lease Name | Well Number

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of Hole or Pipe in which Plug Placed (inches)							
Depth to Bottom of Tubing or Drill Pipe (ft.)							
Sacks of Cement Used (each plug)							
Slurry Volume Pumped (cu. ft.)							
Calculated Top of Plug (ft.)							
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type Cement							

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

From	To	From	To

Signature of Cementer or Authorized Representative

Signature of EPA Representative

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. *(Ref. 40 CFR 122.22).*

NAME AND OFFICIAL TITLE *(Please type or print)* | SIGNATURE | DATE SIGNED

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

OPERATOR RESPONSIBILITIES FOLLOWING MIT FAILURES

1) IMMEDIATELY - Cease injection and shut-in the well as rapidly as feasible. In no case shall the well remain in operation beyond 48 hours unless the Director (TOM PIKE (303) 293-1544) allows for temporary operation of the well.

2) WITHIN 24 HOURS - Verbally notify the UIC Director of MIT failure even in cases where the failure is detected during a test which was witnessed by a UIC inspector.

3) WITHIN 5 DAYS - Submit a written follow-up report documenting test results, remediation taken or a proposed remediation plan and any limits established by the Director on appropriate volume or time for continued injection operation.

Mechanical Integrity Test
Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: ____/____/____

Test conducted by: _____

Others present: _____

Well Name:_____ Type: ER SWD Status: AC TA UC

Field:_____

Location:_____ Sec:____ T____N / S R____E / W County:_____State:___

Operator:_____

Last MIT: ____/____/____ Maximum Allowable Pressure: _____ PSIG

Is this a regularly scheduled test? [ ] Yes [ ] No

Initial test for permit? [ ] Yes [ ] No

Test after well rework? [ ] Yes [ ] No

Well injecting during test? [ ] Yes [ ] No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: _____ psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	psig	psig	psig
End of test pressure	psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	psig	psig	psig
5 minutes	psig	psig	psig
10 minutes	psig	psig	psig
15 minutes	psig	psig	psig
20 minutes	psig	psig	psig
25 minutes	psig	psig	psig
30 minutes	psig	psig	psig
minutes	psig	psig	psig
minutes	psig	psig	psig
RESULT	**[ ] Pass [ ]Fail**	**[ ] Pass [ ]Fail**	**[ ] Pass [ ]Fail**

Does the annulus pressure build back up after the test ? [ ] Yes [ ] No

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

SEP 27 1995

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 39
Pressure testing injection wells for Part I (internal) Mechanical Integrity

FROM: Tom Pike, Chief
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

Introduction

The Underground Injection Control (UIC) regulations require that an injection well have mechanical integrity at all times (40 CFR 144.28 (f)(2) and 40 CFR 144.51 (q)(1)). A well has mechanical integrity (40 CFR 146.8) if:

(1) There is no significant leak in the tubing, casing or packer; and

(2) There is no significant fluid movement into an underground source of drinking water (USDW) through vertical channels adjacent to the injection wellbore.

Definition: Mechanical Integrity Pressure Test for Part I. A pressure test used to determine the integrity of all the downhole components of an injection well, usually tubing, casing and packer. It is also used to test tubing cemented in the hole by using a tubing plug or retrievable packer. Pressure tests must be run at least once every five years. If for any reason the tubing/packer is pulled, the injection well is required to pass another mechanical integrity test of the tubing casing and packer prior to recommencing injection regardless of when the last test was conducted. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on either the attached form or an equivalent form containing the necessary information. A pressure recording chart documenting the actual annulus test pressures must be attached to the form.

This guidance addresses making a determination of Part I of Mechanical Integrity (no leaks in the tubing, casing or

packer). The Region's policy is: 1) to determine if there are significant leaks in the tubing, casing or packer; 2) to assure that the casing can withstand pressure similar to that which would be applied if the tubing or packer fails; 3) to make the Region's test procedure consistent with the procedures utilized by other Region VIII Primacy programs; and 4) to provide a procedure which can be easily administered and is applicable to all class I and II wells. Although there are several methods allowed for determining mechanical integrity, the principal method involves running a pressure test of the tubing/casing annulus. Region VIII's procedure for running a pressure test is intended to aid UIC field inspectors who witness pressure tests for the purpose of demonstrating that a well has Part I of Mechanical Integrity. The guidance is also intended as a means of informing operators of the procedures required for conducting the test in the absence of an EPA inspector.

Pressure Test Description

Test Frequency

The mechanical integrity of an injection well must be maintained at all times. Mechanical integrity pressure tests are required at least every five (5) years. If for any reason the tubing/packer is pulled, however, the injection well is required to pass another mechanical integrity test prior to recommencing injection regardless of when the last test was conducted. The Regional UIC program must be notified of the workover and the proposed date of the pressure test. The well's test cycle would then start from the date of the new test if the well passes the test and documentation is adequate. Tests may be required on a more frequent basis depending on the nature of the injectate and the construction of the well (see Section guidance on MITs for wells with cemented tubing and regulations for Class I wells).

Region VIII's criteria for well testing frequency is as follows:

1. Class I hazardous waste injection wells; initially [40 CFR 146.68(d)(1)] and annually thereafter;

2. Class I non-hazardous waste injection wells; initially and every two (2) years thereafter, except for old permits (such as the disposal wells at carbon dioxide extraction plants which require a test at least every five years);

3. Class II wells with tubing, casing and packer; initially and at least every five (5) years thereafter;

4. Class II wells with tubing cemented in the hole; initially and every one (1) or two (2) years thereafter depending on well specific conditions (See Region VIII UIC Section Guidance #36);

5. Class II wells which have been temporarily abandoned (TAd) must be pressure tested after being shut-in for two years; and

6. Class III uranium extraction wells; initially.

Test Pressure

To assure that the test pressure will detect significant leaks and that the casing is subjected to pressure similar to that which would be applied if the tubing or packer fails, the tubing/casing annulus should be tested at a pressure equal to the maximum allowed injection pressure or 1000 psig whichever is less. The annular test pressure must, however, have a difference of at least 200 psig either greater or less than the injection tubing pressure. Wells which inject at pressures of less than 300 psig must test at a minimum pressure of 300 psig, and the pressure difference between the annulus and the injection tubing must be at least 200 psi.

Test Criteria

1. The duration of the pressure test is 30 minutes.

2. Both the annulus and tubing pressures should be monitored and recorded every five (5) minutes.

3. If there is a pressure change of 10 percent or more from the initial test pressure during the 30 minute duration, the well has failed to demonstrate mechanical integrity and should be shut-in until it is repaired or plugged.

4. A pressure change of 10 percent or more is considered significant. If there is no significant pressure change in 30 minutes from the time that the pressure source is disconnected from the annulus, the test may be completed as passed

Recordkeeping and Reporting

The test results must be recorded on the attached form. The annulus pressure should be recorded at five (5) minute intervals. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on the attached form or an equivalent form . A pressure recording chart documenting the actual annulus test pressures must be attached to the submittal. The tubing pressure at the beginning and end of each test must be recorded. The volume of the annulus fluid bled back at the surface after the test should be measured and recorded on the form. This can be done by bleeding the annulus pressure off and discharging the associated fluid into a five gallon container. The volume information can be used to verify the approximate location of the packer.

Procedures for Pressure Test

1. Scheduling the test should be done at least two (2) weeks in advance.

2. Information on the well completion (location of the packer, location of perforations, previous cement work on the casing, size of casing and tubing, etc.) and the results of the previous MIT test should be reviewed by the field inspector in advance of the test. Regional UIC Guidance #35 should also be reviewed. Information relating to the previous MIT and any well workovers should be reviewed and taken into the field for verification purposes.

3. All Class I wells and Class II SWD wells should be shut-in prior to the test. A 12 to 24-hour shut-in is preferable to assure that the temperature of the fluid in the wellbore is stable.

4. Class II enhanced recovery wells may be operating during the test, but it is recommended that the well be shut-in if possible.

5. The operator should fill the casing/tubing annulus with inhibited fluid at least 24 hours in advance, if possible. Filling the annulus should be undertaken through one valve with the second valve open to allow air to escape. After the operator has filled the annulus, a check should be made to assure that the annulus will remain full. If the annulus can not maintain a full column of fluid, the operator should notify the Director and begin a rework. The operator should measure and report the volume of fluid added to

the annulus. If not already the case, the casing/tubing valves should be closed, at least, 24 hours prior to the pressure test.

Following steps are at the well:

6. Read tubing pressure and record on the form. If the well is shut-in, the reported information on the actual maximum operating pressure should be used to determine test pressures.

7. Read pressure on the casing/tubing annulus and record value on the form. If there is pressure on the annulus, it should be bled off prior to the test. If the pressure will not bleed-off, the guidance on well failures (Region VIII UIC Section Guidance #35) should be followed.

8. Ask the operator for the date of the last workover and the volume of fluid added to the annulus prior to this test and record information on the form.

9. Hook-up well to pressure source and apply pressure until test value is reached.

10. Immediately disconnect pressure source and start test time. (If there has been a significant drop in pressure during the process of disconnection, the test may have to be restarted.) The pressure gages used to monitor injection tubing pressure and annulus pressure should have a pressure range which will allow the test pressure to be near the mid-range of the gage. Additionally, the gage must be of sufficient accuracy and scale to allow an accurate reading of a 10 percent change to be read. For instance, a test pressure of 600 psi should be monitored with a 0 to 1000 psi gage. The scale should be incremented in 20 psi increments.

11. Record tubing and annulus pressure values every five (5) minutes.

12. At the end of the test, record the final tubing pressure.

13. If the test fails, check the valves, bull plugs and casing head close up for possible leaks. The well should be retested.

14. If the second test indicates a well failure, the Region should be informed of the failure within 24 hours by the operator, and the well should be shut-in within 48 hours per Headquarters guidance #76. A follow-up

letter should be prepared by the operator which outlines the cause of the MIT failure and proposes a potential course of action. This report should be submitted to EPA within five days.

15. Bleed off well into a bucket, if possible, to obtain a volume estimate. This should be compared to the calculated value obtained using the casing/tubing annulus volume and fluid compressibility values.

16. Return to office and prepare follow-up.

Alternative Test Option

While it is expected that the test procedure outlined above will be applicable to most wells, the potential does exist that unique circumstances may exist for a given well that precludes or makes unsafe the application of this test procedure. In the event that these exceptional or extraordinary conditions are encountered, the operator has the option to propose an alternative test or monitoring procedures. The request must be submitted by the operator in writing and must be approved in writing by the UIC-Implementation Section Chief or equivalent level of management.

Attachment

APPENDIX C

PLUGGING & ABANDONMENT PLAN

PLUGGING AND ABANDONMENT PLAN

The plugging and abandonment plan (Appendix C) submitted by the permitted consists of five (5) plugs with the following specifications. All voids between plugs within the 7 inch casing shall be filled with 9.2 ppg plugging gel. This plan has been reviewed and approved by the EPA and is consistent with UIC requirements.

Plug #1: Within the 7 inch long string casing, place a cement plug from 7,175 to 7,630 feet using Class G or Class V cement.

Plug #2: Within the 7 inch long string casing, place a cement plug from 6,520 to 6,720 feet using Class G or Class V cement.

Plug #3: Within the 7 inch long string casing, place a cement plug from 3,600 to 4,140 feet using Class G or Class V cement.

Plug #4: Within the 7 inch long string casing, place a cement plug from 1,900 to 2,700 feet using Class G or Class V cement.

Plug #5: Within the 7 inch long string casing and surface casing/long string casing annulus, place cement plugs from the surface to a depth of 50 feet using Class G or Class V cement.

APPENDIX D

Suggested Step-Rate Test Procedure

SUGGESTED STEP-RATE INJECTIVITY TEST PROCEDURES

The Step-Rate Test (SRT) results will be documented with service company or other appropriate (acceptable) records and/or charts and should be witnessed by an EPA inspector. Witnessing arrangements can be made by contacting the EPA Region VIII Underground Injection Control (UIC) offices using the EPA toll-free number 1-800-227-8917 (x1544).

The Step-Rate Test Procedure is as follows:

1) The well should be shut in long enough prior to testing that the bottom hole pressures approximate shut-in formation pressures. If the shut-in well flows to the surface, the wellhead injection string will be equipped with a gauge and the static surface pressure will be read and recorded.

2) A series of successively higher injection rates will be established as suggested below, with the elapsed time and pressure values read and recorded for each rate. Each step should last exactly as long as the preceding rate. If stabilized pressure values are not obtained within the times suggested below, the test will result in inconclusive results due to a high permeability and/or underpressured injection zone.

Formation Perm (md)	Time per step-rate (min)
≤ 5 md	60 min
≥ 10 md	30 min

3) Suggested injection rates:

5%
10%
20%
40%
60%
80%
100%

} Of Maximum Anticipated Injection Rate

4) Injection rates should be controlled with a constant flow regulator that has been tested prior to use. A throttling device is not sufficient.

5) Flow rates should be measured with a calibrated turbine flowmeter.

6) Record injection rates with a chart recorder or a strip chart.

7) Measure pressures with a down hole pressure bomb.

8) Measure and record injection pressures with a gauge or recorder (for immediate test results).

9) A plot of injection rates and the corresponding stabilized pressure values should be graphically represented as a constant slope straight line to a point at which the formation "breakdown" pressure is exceeded. The slope of the subsequent straight line should be less than that of the before-fracture straight line.

10) If the fracture pressure has definitely been exceeded with at least two injection rate-pressure combinations greater than the "breakdown" pressure, the injection pump should be stopped and the line valve closed so that the pressure is allowed to bleed-off into the injection formation. There will be an immediate pressure fall-off (Instantaneous Shut-in Pressure or ISIP), after which the pressure values begin to level out. The ISIP will be read and recorded.

11) Once the ISIP is obtained, the SRT is concluded. The ISIP obtained in this manner may be considered the minimum pressure required to hold the fracture open.

12) In the event that formation "breakdown" was not obtained at the maximum test injection pressure utilized, the test results may indicate that the formation is accepting fluids without fracturing.

This SRT outline is consistent with acceptable oilfield practices. It should identify an allowable injection pressure which will provide adequate protection of the underground sources of drinking water at an injection well having demonstrated mechanical integrity. The allowable injection pressure will be determined after an EPA review of the SRT results. Enclosed is a form which you may copy and use to record test data.

STEP-RATE TEST DATA

STEP #1 Test Rate (5% max rate) _____ (bbl/min)

Time (min) :	_____	_____	_____	_____	_____	_____	_____
Pressure (psi):	_____	_____	_____	_____	_____	_____	_____

STEP #2 Test Rate (10% max rate) _____ (bbl/min)

Time (min) :	_____	_____	_____	_____	_____	_____	_____
Pressure (psi):	_____	_____	_____	_____	_____	_____	_____

STEP #3 Test Rate (20% max rate) _____ (bbl/min)

Time (min) :	_____	_____	_____	_____	_____	_____	_____
Pressure (psi):	_____	_____	_____	_____	_____	_____	_____

STEP #4 Test Rate (40% max rate) _____ (bbl/min)

Time (min) :	_____	_____	_____	_____	_____	_____	_____
Pressure (psi):	_____	_____	_____	_____	_____	_____	_____

STEP #5 Test Rate (60% max rate) _____ (bbl/min)

Time (min) :	_____	_____	_____	_____	_____	_____	_____
Pressure (psi):	_____	_____	_____	_____	_____	_____	_____

STEP #6 Test Rate (80% max rate) _____ (bbl/min)

Time (min) :	_____	_____	_____	_____	_____	_____	_____
Pressure (psi):	_____	_____	_____	_____	_____	_____	_____

STEP #7 Test Rate (100% max rate) _____ (bbl/min)

Time (min) :	_____	_____	_____	_____	_____	_____	_____
Pressure (psi):	_____	_____	_____	_____	_____	_____	_____

ISIP : _____ (psi)

SRT EXAMPLE

The following is an example of a Step-Rate Test with tabular and graphic results. The operator of Anywell #1 set up a SRT for the following conditions:

A) Maximum anticipated injection rate was 4 bbl/min.

B) Following the recommended test procedures, the operator planned on using these rates for the test:

1) 5% of 4 bbl/min = 0.2 bbl/min
2) 10% of 4 bbl/min = 0.4 bbl/min
3) 20% of 4 bbl/min = 0.8 bbl/min
4) 40% of 4 bbl/min = 1.6 bbl/min
5) 60% of 4 bbl/min = 2.4 bbl.min
6) 80% of 4 bbl/min = 3.2 bbl/min
7) 100% of 4 bbl/min = 4.0 bbl/min

C) The formation permeability is estimated as 100 md, therefore each step will last for 30 minutes.

The step-rate test data and graphic results of the test are on the following pages. For this test, the injection formation broke down at approximately 1200 psi, and the ISIP was listed as 1000 psi. Since the injection formation will part at 1000 psi, the maximum injection pressure will be held to the ISIP.

If the formation had not broken down at 1200 psi, the maximum allowable injection pressure would be the maximum pressure obtained during the test.

STEP-RATE TEST ANYWELL #1

STEP #1 Test Rate (5% max rate) 0.2 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	0	90	95	98	99	100	100

STEP #2 Test Rate (10% max rate) 0.4 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	80	170	185	195	199	200	200

STEP #3 Test Rate (20% max rate) 0.8 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	190	325	385	392	398	399	400

STEP #4 Test Rate (40% max rate) 1.6 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	380	700	790	792	795	798	800

STEP #5 Test Rate (60% max rate) 2.4 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	750	990	1030	1090	1150	1180	1200

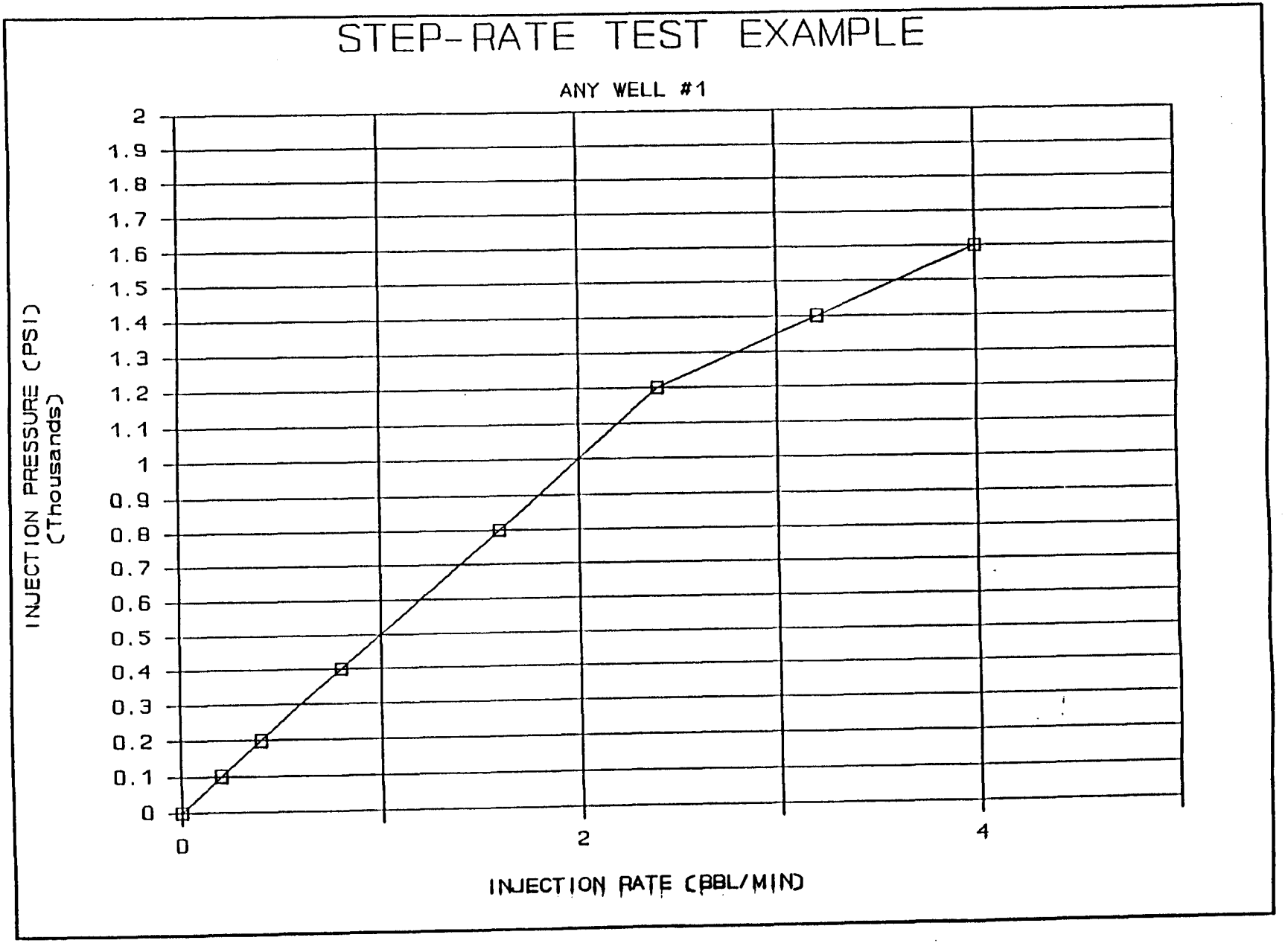
STEP #6 Test Rate (80% max rate) 3.2 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	1100	1250	1325	1370	1390	1395	1400

STEP #7 Test Rate (100% max rate) 4.0 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	1350	1450	1500	1530	1570	1590	1600

ISIP : 1000 (psi)


STEP-RATE TEST EXAMPLE
ANY WELL #1
INJECTION PRESSURE (PSI)
(Thousands)
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
2
4
INJECTION RATE (BBL/MIN)

APPENDIX E

Class V Sources

Nonhazardous Industrial Fluids

Potential sources of nonhazardous industrial waste fluids:

1. Reclaimed water associated with the removal of underground fuel storage tanks, if determined by analysis to be nonhazardous.
2. Water from oil field surface pit operations.
3. Contaminated waters from construction and operational sites.
4. Stored fuels, if analyzed as nonhazardous.
5. Treated municipal sewerage.
6. Agricultural site runoff impoundment sumps.
7. Nonhazardous industrial waste fluids that have been approved for disposal by the director.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

RECEIVED
JUL 15 1999
DIV. OF OIL, GAS & MINING

JUL 12 1999

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Robert C. Pettit, President
Enviro-Tec, Inc.
1015 East 3900 South
Salt Lake City, UT 84124

RE: UNDERGROUND INJECTION CONTROL (UIC)
Class V Final Permit
[redacted] (EPA UT5641-03726)
Duchesne County, Utah

Dear Mr. Pettit:

Enclosed is the Final Underground Injection Control Permit for the Class V disposal well, the Blue Bench #13-1, in Duchesne County, Utah. Also enclosed is a Final Fact Sheet which discusses development of the permit.

The thirty-day public comment period following the issuance of the draft permit for this Class V permit ended June 26, 1999. During the public comment period, no significant comments were received from the public, the Uintah & Ouray Tribe, or the State of Utah, Department of Environmental Quality. Therefore, the Final Permit is to become effective on the date of issuance.

If you have any questions or comments concerning this action, you may contact Douglas Minter at (303) 312-6079. **Also, please direct all correspondence to the attention of Douglas Minter at Mail Code 8P-W-GW.**

Sincerely,

Kerrigan G. Clough
Assistant Regional Administrator
Office of Partnerships and
Regulatory Assistance

Enclosures: Final Fact Sheet
Final Permit

cc: Roland McCook, Chairman
Uintah & Ouray Business Committee

Elaine Willie, Environmental Director
Ute Indian Tribe

David Allison
BIA - Uintah & Ouray Indian Agency

Don Ostler
Utah Department of Environmental Quality

Dennis Downs
Utah Department of Environmental Quality

Gilbert Hunt
State of Utah Natural Resources

Jerry Kenczka
BLM - Vernal District Office

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
999 18TH STREET - SUITE 500
DENVER, CO 80202-2466

UNDERGROUND INJECTION CONTROL PROGRAM

Final Permit

Class V Nonhazardous Industrial Waste Disposal Well

Permit No. UT5641-03726

Well Name: Blue Bench #13-1

Field Name: Altamont

County & State: Duchesne, Utah

issued to:

Enviro-Tec, Inc.
1015 East 3900 South
Salt Lake City, UT 84124

Date Prepared: July, 1999

Printed on Recycled Paper

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PART I. AUTHORIZATION TO INJECT

Pursuant to the Underground injection Control Regulations of the U.S. Environmental Protection Agency codified at Title 40 of the Code of Federal Regulations, Parts 124, 144, 146, and 147,

Enviro-Tec, Inc.
1015 East 3900 South
Salt Lake City, UT 84124

is hereby authorized to operate a Class V disposal well, commonly known as Blue Bench #13-1, located in the NE 1/4 of the NE 1/4, 820 feet from the north line and 932 feet from the east line of Section 13, Township 3 South, Range 5 West, in Duchesne County, Utah. Injection shall be for the purpose of disposing of nonhazardous industrial waste fluids and produced water from oil and gas fields, in accordance with conditions set forth herein.

Injection activities shall not commence until the operator has fulfilled all applicable conditions of this permit and has received written authorization from the Director. "Prior to Commencing Injection" requirements are set forth in Part II, Section C.1. of this permit.

All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations and are regulations that are in effect on the date that this permit becomes effective. This permit consists of a total of 50 pages and includes all items listed in the Table of Contents. Further, it is based upon representations made by the permittee and on other information contained in the administrative record.

This permit and the authorization to inject are issued for a period of ten (10) years, unless terminated (Part III, Section B); authorization to inject shall automatically expire due to prolonged postponement of conversion to a Class V injection well (Part II, Section A. 6.). The permit will be reviewed by EPA at least once every five (5) years to determine whether action under 40 CFR §144.36 (a) is warranted.

The State of Utah or the Northern Ute Indian Tribe of the Uintah-Ouray Reservation may apply for primary enforcement responsibility of the UIC program for Indian lands and may, if qualified, assume primary responsibility for regulating this permittee. Notwithstanding approval of any forthcoming State or Tribal UIC primacy application, EPA retains responsibility for directly administering and enforcing this federal permit, unless otherwise specifically addressed in the EPA/State or EPA/Tribe MOA (40 CFR § 145.25). If EPA determines that the State or Tribe has issued an equivalent permit under an EPA approved UIC program, EPA and the permittee may agree to terminate this federal permit.

Issued JUL 12 1999.

This permit shall become effective JUL 12 1999.

* Kerrigan G. Clough
Assistant Regional Administrator
Office of Partnerships and
Regulatory Assistance

*Note: The person holding this title is referred to as the "Director" throughout this permit.

PART II. SPECIFIC PERMIT CONDITIONS

A. WELL CONSTRUCTION REQUIREMENTS

1. Casing and Cementing. The construction details submitted with the application are hereby incorporated into this permit as Appendix A, and shall be binding on the permittee. Cement bonds between the wellbore and casing are as follows: (1) cement extends from the base of the long string casing up to a depth of 6,520 feet kelly bushing (KB), and from a depth of 4,100 feet up to a depth of 1,850 feet, inside the long string/surface casing annulus; and (2) cement extends from the base of the surface casing to the top of the surface casing. Injection between the outermost casing protecting underground sources of drinking water (USDWs) and the wellbore is prohibited.

2. Tubing and Packer Specifications. An injection tubing of three and one-half (3-1/2) inches diameter shall be utilized. A packer shall be set at a depth of 4,077 feet kelly bushing (KB). In no instance is the packer to be more than 100 feet above the top of the uppermost injection interval.

3. Monitoring Devices. Prior to beginning Class V nonhazardous injection operation, the operator shall install and maintain in good operating condition the following equipment:

(a) a tap on the injectate line, for the purpose of obtaining representative samples of the injection fluids;

(b) two (2), one-half (½) inch Female Iron Pipe (FIP) fittings, isolated by ball or needle valves, and located: 1) at the wellhead on the tubing; and 2) on the tubing/casing annulus, and positioned to allow attachment of ½ inch Male Iron Pipe (MIP) pressure gauges;

(c) pressure gauges attached to the FIP fittings of the: 1) tubing/casing annulus to allow for monitoring of the annulus fluid pressure; and 2) the tubing to allow injection pressure monitoring. The tubing/casing annulus shall be maintained full of non-toxic fluid with a corrosion inhibitor under **an initial positive pressure of at least 200 psig.** The operator must submit plans for maintaining and monitoring positive annulus pressure prior to installation of the device. Pressure gauges shall be certified for at least ninety-five (95) percent accuracy, throughout the range of anticipated pressures;

(d) a flow meter with cumulative volume recorder that is certified for at least ninety-five (95) percent accuracy, throughout the range of injection rates allowed by the permit; and

(e) installation of suitable equipment for the continuous monitoring and recording of injection pressure, annulus pressure, flow rate, and volume. A continuous recording of injection volume can be accomplished by use of a non-resettable cumulative volume totalizer; and

(f) **finally, installation of a pump shut-off interlock device to prevent the surface injection pressure from exceeding 1,230 psig.**

4. Proposed Changes and Workovers. The permittee shall give advance notice to the Director, as soon as possible for approval, of any planned physical alterations or additions to the permitted well. Major alterations or workovers of the permitted well shall meet all conditions as set forth in this permit. A major alteration/workover shall be considered any work performed, which affects casing, packer(s), or tubing.

Demonstration of mechanical integrity (tubing/casing annulus pressure test) shall be performed within thirty (30) days of completion of workovers/alterations and prior to resuming injection activities, in accordance with Part II, Section C. 2. (a).

The permittee shall provide all records of well workovers including any repairs, logging, or other test data to EPA within sixty (60) days of completion of the activity. Appendix B contains samples of the appropriate reporting forms.

5. Formation Testing. The permittee shall conduct appropriate tests during the operating life of the well.

(a) The permittee shall perform a controlled injectivity step-rate test to determine the fracture pressure of the injection zone(s). Since the well is currently injecting at a minimal surface pressure, this test shall be deferred until such time as stabilized injection conditions have been attained and the injection pressure is equal to seventy-five percent (75%) of the maximum allowable pressure specified in Part II C.4.(b) of this permit. This test shall utilize fluids normally being injected.

(b) **The permittee shall perform a pressure fall-off test of the injection zone(s) on an annual basis.** Subsequent tests must be run within one year of the previous test. It is recommended that the initial pressure buildup utilize a downhole pressure gauge, followed by the shut-in fall-off test. Each annual test is to be conducted in the same manner, and the results are to be analyzed in report form for comparison with previous year results.

6. Postponement of Conversion. If the well is not converted to Class V injection status within one (1) year from the effective date of this permit, the authorization to inject as a Class V well will automatically expire, unless the permittee requests an extension. The request shall be made to the Director in writing, in lieu of the annual reporting requirements of Part II, Section D.4., and shall state the reasons for the delay in conversion and confirm the protection of all USDWs. The extension under this section may not exceed one (1) year.

Financial responsibility and mechanical integrity shall be maintained during the period of inactivity in accordance with Part II, Section F. Once authorization to inject as a Class V well expires under this part, the full permitting process, including opportunity for public comment, must be repeated before authorization to inject will be reissued.

B. CORRECTIVE ACTION

The applicant is not required to take any corrective action. prior to the issuance of this permit.

C. WELL OPERATION

1. Prior to Commencing Injection. Injection operations as a Class V well may not commence until the permittee has complied with (a), and (b) as follows:

(a) Conversion is complete, **including installation of all monitoring devices**, and testing requirements have been fulfilled.

(i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the permit; or

(ii) The permittee has not received notice from the Director of his or her intent to inspect or otherwise review the injection well within

thirteen (13) days of the effective date of this permit, in which case prior inspection or review is waived and the permittee may commence injection. Note: However, in all circumstances, item (b) below must also be satisfied.

(b) The permittee demonstrates that the well has mechanical integrity and has received notice from the Director that such demonstration is satisfactory. Demonstration of mechanical integrity shall consist of two parts: (1) a tubing/casing annulus pressure test in accordance with 40 CFR 146.8 and Part II, Section C.2.(a), below, and verification that no flow of fluid exists adjacent to the casing, in accordance with Section C.2.(b), below. **The permittee shall notify EPA two (2) weeks prior to conducting these tests so that a representative may be present to observe the tests.** Results of the tests shall be submitted to the Director as soon as possible but no later than thirty (30) days after the demonstrations.

2. Mechanical Integrity.

(a) Absence of Significant Leaks. A demonstration of the absence of significant leaks in the casing, tubing and/or packer must be made by performing a tubing/casing annulus pressure test. The tubing/casing annulus shall be filled with non-toxic fluid with a corrosion inhibitor. **This test shall be for a minimum of forty-five (45) minutes at a pressure of at least 300 pounds per square inch gauge (psig) above the injection tubing pressure while the well is shut-in. The well should be shut-in at least two hours in advance of the test.** Pressure values shall be recorded at five (5) minute intervals. A well passes the mechanical integrity test if there is less than a ten (10) percent decrease or increase in pressure over the forty-five (45) minute period.

(b) Absence of Significant Flow Adjacent to the Casing. A demonstration of the absence of any significant flow of fluid adjacent to the casing must be made by **initially performing a radioactive tracer survey and a temperature log performed after 60 days of injection** to determine if there is any movement of fluid out of the injection

zone(s). The logging plan is to be submitted to the Director for approval, prior to running the logs.

(c) Schedule of Demonstration of Mechanical Integrity. A demonstration of mechanical integrity (tubing/casing annulus pressure test) **shall be made at regular intervals, no less frequently than every two (2) years from the effective date of this permit,** in accordance with 40 CFR 146.8 and paragraph (a) above, unless otherwise modified. A tubing/casing annulus pressure test is also required following any workover of the well. Initiation of mechanical integrity demonstrations will be according to the following provisions:

(i) It shall be the permittee's responsibility to arrange and conduct the routine two-year tubing/casing annulus pressure test demonstration, and five-year radioactive tracer survey and/or temperature log. The procedure for running the radioactive tracer survey and/or temperature log must be approved in advance by the Director. The permittee shall notify the Director of his intent to demonstrate mechanical integrity at least thirty (30) days prior to such demonstration. Results of the test shall be submitted to the Director as soon as possible but no later than sixty (60) days after the demonstration.

(ii) In addition to any demonstration made under paragraph (i) above, the Director may require a demonstration of mechanical integrity, as described in Part II, Section C.2.(a) and (b), at any time during the permitted life of the well.

(d) Loss of Mechanical Integrity. **The well must have mechanical integrity at all times. If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity as defined by 40 CFR 146.8 becomes evident during operation, injection shall be stopped immediately and the permittee shall notify the Director in accordance with Part III, Section E. 10. of this permit.** Operations shall not be resumed until the permittee has taken necessary actions to restore integrity to the well and EPA gives approval to recommence injection.

3. Injection Interval. Injection shall be limited to the gross subsurface intervals 4,100 to 6,520 feet and 7,231 to 7,528 feet, within the Green River Formation. Additional perforations within the gross intervals may be added later and reported on EPA Form 7520-12.

4. Injection Pressure Limitation.

(a) Injection pressure, measured at the surface, shall not exceed an amount that the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs.

(b) The exact pressure limit may be increased or decreased by the Director in order to ensure that the requirements in paragraph (a) are fulfilled. In order to determine an exact pressure limit, **the permittee shall conduct a step rate test or other authorized well test(s) that will serve to determine the fracture pressure of the injection zone(s).** Test procedures shall be pre-approved in writing by the Director. The Director will specify in writing, to the permittee, any increase or decrease to the injection pressure based upon the test results and/or other parameters reflecting actual injection operations. Until such time that this demonstration and approval is made, the initial injection pressure, measured at the surface, shall not exceed **1,230 psig.**

5. Injection Volume Limitation. There is no limitation on the number of barrels of fluid per day (BFPD) that shall be injected into this well, or the cumulative number of barrels injected, provided that in no case shall injection pressure exceed that limit shown in Part II, Section C.4.(b) of this permit.

6. Injection Fluid Limitation. The permittee is authorized to inject only Class II oil and gas related fluids, and nonhazardous industrial waste fluids as approved by the Director and listed in Appendix E. On-site storage or injection of any hazardous waste as identified by EPA under 40 CFR 261.3 is prohibited.

Additions to the list in Appendix E shall be made a binding part of this permit following the procedures outlined below:

For Class II fluid sources or other fluid sources which are exempt from RCRA Subtitle C:

a) Request that a new source of fluid be accepted for disposal. Include the source name, location, operator, type of operation, and nature of fluid and reason waste is believed to be exempt.

b) The request shall be accompanied by a Standard API analysis for oil field water.

c) Any approval for injection may be granted verbally, with subsequent written approval from the Director.

For nonhazardous fluid sources:

a) Request that a new source of fluid be accepted for disposal. Include the source name, location, operator, type of operation, name of process that generated the waste, and brief description of the nature of the fluid.

b) Since these wastes may not be exempt, include an analysis of the fluids (standard cations and anions), including corrosivity, toxicity (using EPA Method 624), ignitability, reactivity, chromium, lead, and cadimum.

c) If there are pesticides or herbicides stored, used or manufactured on site, the waste fluids must be analyzed for such compounds using an approved EPA Method.

d) Injection shall not take place without prior approval by the Director. This approval for injection may be granted verbally, with subsequent written approval from the Director.

7. Annular Fluid. The annulus between the tubing and the casing shall be maintained full of fresh water treated with a non-toxic corrosion inhibitor, or other fluid as approved, in writing, by the Director. **The operator shall provide EPA with a record of the date, time and volume of corrosion inhibitor added to the annulus. This record shall be included in the quarterly report which follows addition of inhibitors.**

D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Injection Well Monitoring Program. The permittee shall utilize the applicable analytical methods described in 40 CFR 136.3, or in Appendix III of 40 CFR Part 261, or in certain circumstances, by other methods that have been approved by the EPA. Samples and measurements shall be representative of the monitored activity. Monitoring shall consist of:

(a) FOR FLUIDS WHICH MAY VARY IN CHEMICAL COMPOSITION. Analysis of industrial waste fluids is to be performed prior to delivery to on-site storage tanks at the well site. Fluid samples shall be analyzed for Ph, conductivity, radiological, and biological parameters. At least one load in four must be screened for toxics using EPA Method 624, and analyzed for standard cations and anions. If, however, the analyses of four (4) loads from the same source indicates the material is not hazardous and the quality has little variability, the Director may waive the requirement for analyzing every load. Subsequent to this waiver, a minimum sampling schedule will be established by the Director.

(b) FOR FLUIDS ASSOCIATED WITH A SPECIFIC PROCESS, WHICH DO NOT VARY IN CHEMICAL COMPOSITION. Prior to being commingled with other fluids, analysis of industrial waste fluids received at the well site is to be performed at least once per quarter. Fluid samples shall be analyzed for standard anions and cations, including Ph and conductivity, and radiological constituents, and for toxicity using EPA Method 624. If, however, the analyses of the quarterly samples shows significant variability in chemical composition, the frequency of analyses may be increased to that specified in item (a) above.

(c) Analysis of commingled injection fluids prior to injection is to be performed at random, but not less than once every three months, for total dissolved solids, Ph, specific gravity, specific conductivity, major cations and anions, oil and grease, and total organic carbon.

(d) Sampling requirements in paragraphs (a), (b), and (c) above, may be modified as a minor permit modification after a review of the first quarter of data.

(e) Continuous monitoring of flow rate to be recorded on a continuous recording device. Daily observation of the wellhead flow meter shall be made and compared to continuous recording device readings as a means of assuring the accuracy of the continuous recording device. The permitted shall report the minimum and maximum daily injection rate for each month and the day on which it occurred, and the average monthly flow rate. Minimum, maximum and average daily volume and total monthly volume injected must also be reported. Cumulative volume shall be measured by a non-resettable volume totalizer.

(f) Continuous monitoring of injection pressure and casing/tubing annulus pressure to be recorded on a continuous recording device. Daily observations of the wellhead pressure gauges shall be made as a means of assuring the accuracy of the continuous recording device. The permittee shall report the minimum and maximum daily injection pressure and annulus pressure for each month and the day on which each occurred. The monthly average injection pressure and annulus pressure shall also be reported. The time, date, volume of the addition of any annular fluid will be reported. **If there is an increase in annulus pressure of more than 200 psi, the operator must assess the well's operation to determine if a loss of mechanical integrity has occurred or if the change is due to a change in injection fluid rate or temperature. EPA must be notified within 24 hours. If the pressure change cannot be explained by the well's operating procedure, a mechanical integrity test will be run.** The criteria for monitoring the annulus will be evaluated after at least six months of data has been collected. If warranted by the results of this review, a change in the annulus pressure requirement or the failure criteria may be made as a minor modification of the permit.

(g) Analysis of Class II oil field water intended for injection shall be performed prior to delivery to on-site storage tanks according to the procedure described in Part II, Section C.6. Injection Fluid Limitation.

(h) The permitted is required to record and retain records concerning: (1) the location, date and time, nature of source activity, type and volume

of fluids picked up for transport to the injection well, and (2) the nature and composition of the fluids.

2. Monitoring Information. Records of any monitoring activity required under this permit shall include:

(a) The date, exact place, the time interval of sampling, monitoring, or field measurements;

(b) The name of the individual(s) who performed the sampling or measurements;

(c) The exact sampling method(s) used to take samples along with quality assurance methods (i.e., chain-of-custody, etc.);

(d) The date(s) laboratory analyses were performed;

(e) The name of the individual(s) who performed the analyses;

(f) The analytical techniques or methods used by laboratory personnel; and

(g) The results of such analyses.

3. Record keeping.

(a) The permitted shall retain records concerning:

(I) the nature and composition of all injected fluids until three (3) years after the completion of plugging and abandonment which has been carried out in accordance with the Plugging and Abandonment Plan shown in Appendix C, and is consistent with 40 CAR 146.10.

(ii) all monitoring information, including all calibration and maintenance records and all original chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit for a period of a least five (5) years from the date of the sample, measurement or report throughout the operating life of the well.

(b) The permitted shall continue to retain such records after the retention period specified in paragraphs (a) (I) and (a) (ii) unless he delivers

the records to the Director or obtains written approval from the director to discard the records.

(c) The permitted shall maintain copies (or originals) of all pertinent records at the office of Environ-Ten, Inc., 1015 East 3900 South, Salt Lake City, UT 84124.

4. Reporting of Results. The permitted shall submit Quarterly Reports to the Director summarizing the results of the monitoring required by Part II, Section D.1. (a), (b), (c), (d), (e), (f) and (g) of this permit. Copies of all records on injected fluids, and any major changes in characteristics or sources of injected fluid shall be included in the Quarterly Report. Results of any mechanical integrity tests shall also be included in the Quarterly Report.

The first Quarterly Report shall cover the period from the effective date of the permit through the end of that quarter. Subsequently, the Quarterly Reports shall cover the period from January 1 through March 31; April 1 through June 30; July 1 through September 30; and October 1 through December 31. Each Quarterly Report shall be submitted to the Denver Office by the 15th of the following month. Appendix B contains Form 7520-8 which may be copied and used to submit the quarterly summary of monitoring.

E. PLUGGING AND ABANDONMENT

1. Notice of Plugging and Abandonment. **the permitted shall notify the Director in writing no later than forty-five (45) days before planned conversion or abandonment of the well.** The notice shall also include:

(a) Well Condition Report

The permitted shall provide a report on the current condition of the well in order to update, supplement or complete any information found in the Plugging and Abandonment Plan, Appendix C. This report shall discuss in detail and evaluate:

(1) The results of the well's most recent mechanical test,

(2) The location of any leaks or perforations in the casing,

(3) The location of any vertical migration of fluids behind the casing, and

(4) The adequacy of casing cement bonding across the penetrated formations, from cement bond logs run at the time of well construction or just prior to well abandonment.

Any supporting data or test results shall be attached to confirm the conclusions of the report.

(b) Individual Plugging and Abandonment Plan

The permitted shall also submit an individual plugging and abandonment plan for the injection well. In coordination with the Well Condition Report, this plan shall modify and supercede the Plugging and Abandonment Plan, Appendix C, as necessary, to ensure adequate plugging and abandonment of the well.

The plugging and abandonment of the well shall be subject to prior Director approval of the individual plugging and abandonment plan. The Director reserves the right to grant conditional approval of the individual plugging and abandonment plan to ensure adequate plugging of the well.

2. Plugging and Abandonment Plan. The permitted shall plug and abandon the well consistent with 40 CAR 146.10, as provided for in the Plugging and Abandonment Plan, Appendix C, and any conditions issued by the Director in approval of the individual plugging and abandonment plan required by Part II, E.1. of this permit. The Director may require the permitted to update the estimated plugging costs which a third party would incur to plug the well according to the plan, and provide a revised demonstration of financial responsibility if necessary.

3. Cessation of Injection Activities. After a cessation of operations of two (2) years, the permitted shall plug and abandon the well in accordance with the Plugging and Abandonment Plan, unless the permitted:

(a) has provided notice to the Director; and

(b) has demonstrated that the well will be used in the future; and

(c) has described actions or procedures, satisfactory to the Director, that will be taken to ensure that the well will not endanger underground sources of drinking water during the period of temporary abandonment.

4. Plugging and Abandonment Report. Within sixty (60) days after plugging the well, the permitted shall submit a report on form 7520-13 to the Director. The report shall be certified as accurate by the person who performed the plugging operation and the report shall consist of either: (1) a statement that the well was plugged in accordance with the plan; or (2) where actual plugging differed from the plan, a statement that specifies the different procedures followed.

F. FINANCIAL RESPONSIBILITY

1. Demonstration of Financial Responsibility. The permitted is required to maintain continuous financial responsibility and resources to close, plug and abandon the injection well as provided in the plugging and abandonment plan. The permitted may submit a written request to EPA to change the type of financial mechanism or instrument utilized. A change in demonstration of financial responsibility must be approved in writing by the Director.

2. Insolvency of Financial Institution. In the event that an alternate demonstration of financial responsibility has been approved, the permitted must submit an alternate demonstration of financial responsibility acceptable to the Director within sixty (60) days after either of the following events occur:

(a) The institution issuing the trust or financial instrument files for bankruptcy; or

(b) The authority of the trustee institution to act as trustee, or the authority of the institution issuing the financial instrument, is suspended or revoked.

3. Cancellation of Demonstration by Financial Institution. The permitted must submit an alternative demonstration of financial responsibility acceptable to the Director, within sixty (60) days after the institution issuing the trust or financial instrument serves 120-day notice to the EPA of their intent to cancel the trust or financial instrument.

PART III. GENERAL PERMIT CONDITIONS

A. EFFECT OF PERMIT

The permitted is allowed to engage in underground injection in accordance with the conditions of this permit. The permitted, as authorized by this permit, shall not construct, operate, maintain, convert, plug, abandon, or conduct any other injection activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CAR, Part 142 or otherwise adversely affect the health of persons. Any underground injection activity not authorized in this permit or otherwise authorized by permit or rule is prohibited. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of the private rights, or any infringement of State or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA), 42 USC § 300i, or any other law governing protection of public health or the environment for any imminent and substantial endangerment to human health, or the environment, nor does it serve as a shield to the permitted's independent obligation to comply with all UIC regulations.

B. PERMIT ACTIONS

1. Modification, Reissuance, or Termination. The Director may, for cause or upon a request from the permitted, modify, revoke and reissue, or terminate this permit in accordance with 40 CAR Sections 124.5, 144.12, 144.39, and 144.40 Also, the permit is subject to minor modifications for cause as specified in 40 CAR Section 144.41. The filing of a request for a permit modification, revocation and reissuance, or termination or the notification of planned changes or anticipated noncompliance on the part of the permitted does not stay the applicability or enforceability of any permit condition.

2. Conversions. The Director may, for cause or upon a request from the permitted allow conversion of the well from a Class V injection well to a non-Class V well. Requests to convert the injection well from its Class V status to a non-Class V well, such as, a production well, must be made in writing to the Director. Conversion may not proceed until a permit modification indicating the conditions of the proposed conversion is received by the permitted. Conditions of the modification may include such items as, but is not limited to, approval of the proposed well rework, follow up demonstration of mechanical

integrity, and well specific monitoring and reporting following the conversion.

3. Transfers. This permit is not transferrable to any person except after notice is provided to the Director and the requirements of 40 CAR 144.38 are complied with. The Director may require modification, or revocation and reissuance, of the permit to change the name of the permitted and incorporate such other requirements as may be necessary under the SDWA.

4. Operator Change of Address. Upon the operator's change of address, notice must be given to the appropriate EPA office at least fifteen (15) days prior to the effective date.

C. SEVERABILITY

If any provision of this permit or the application of any provision of this permit to any circumstance is stayed or held invalid, all remaining provisions of this permit shall remain fully effective and enforceable, except for those provisions which are not severable from the stayed or invalid provision.

D. CONFIDENTIALITY

In accordance with 40 CAR Part 2 and 40 CAR 144.5, any information submitted to EPA pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CAR Part 2 (Public Information). EPA will deny claims of confidentiality including but not limited to the following information:

- The name and address of the permitted; and
- Information which deals with the existence, absence, or level of contaminants in drinking water.

E. GENERAL DUTIES AND REQUIREMENTS

1. Duty to Comply. The permitted shall comply with all conditions of this permit, except to the extent and for the duration that such noncompliance is authorized by an emergency permit. Any permit noncompliance constitutes a violation of the SDWA and is grounds for enforcement action, permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. Such noncompliance may also be

grounds for enforcement action under the Resource Conservation and Recovery Act (RCRA).

2. Penalties for Violations of Permit Conditions. Any person who violates a permit requirement is subject to civil penalties, fines, and other enforcement action under the SDWA and may be subject to such actions pursuant to the RCRA. Any person who willfully violates permit conditions may be subject to criminal prosecution.

3. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permitted in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

4. Duty to Mitigate. The permitted shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

5. Proper Operation and Maintenance. The permitted shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permitted to achieve compliance with the conditions of this permit. All surface piping and storage tank leakage must be promptly repaired and notification of action taken reported to EPA. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance and procedures. This provision requires the operation of back-up, or auxiliary facilities or similar systems, only when necessary, to achieve compliance with the conditions of this permit.

6. Duty to Provide Information. The permitted shall furnish the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permitted shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

7. Inspection and Entry. The permitted shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the permitted's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

(d) Sample or monitor, at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA any substances or parameters at any location.

8. Records of Permit Application. The permitted shall maintain records of all data required to complete the permit application and any supplemental information submitted for a period of five (5) years from the effective date of this permit. This period may be extended by request of the Director at any time.

9. Signatory Requirements. All reports or other information requested by the Director shall be signed and certified according to 40 CAR 144.32.

10. Reporting of Noncompliance.

(a) Anticipated Noncompliance. The permitted shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than thirty (30) days following each schedule date.

(c) Twenty-four Hour Reporting.

(I) The permitted shall report to the Director any noncompliance which may endanger health or the environment. Information shall be provided orally within twenty-four (24) hours from the time the permitted becomes aware of the circumstances by telephoning EPA at (303) 312-6079 (during normal business hours) or at (303) 312-6337 (for reporting at all other

times). The following information shall be included in the verbal report:

(A) Any monitoring or other information which indicates that any contaminant may cause endangerment to an underground source of drinking water.

(B) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

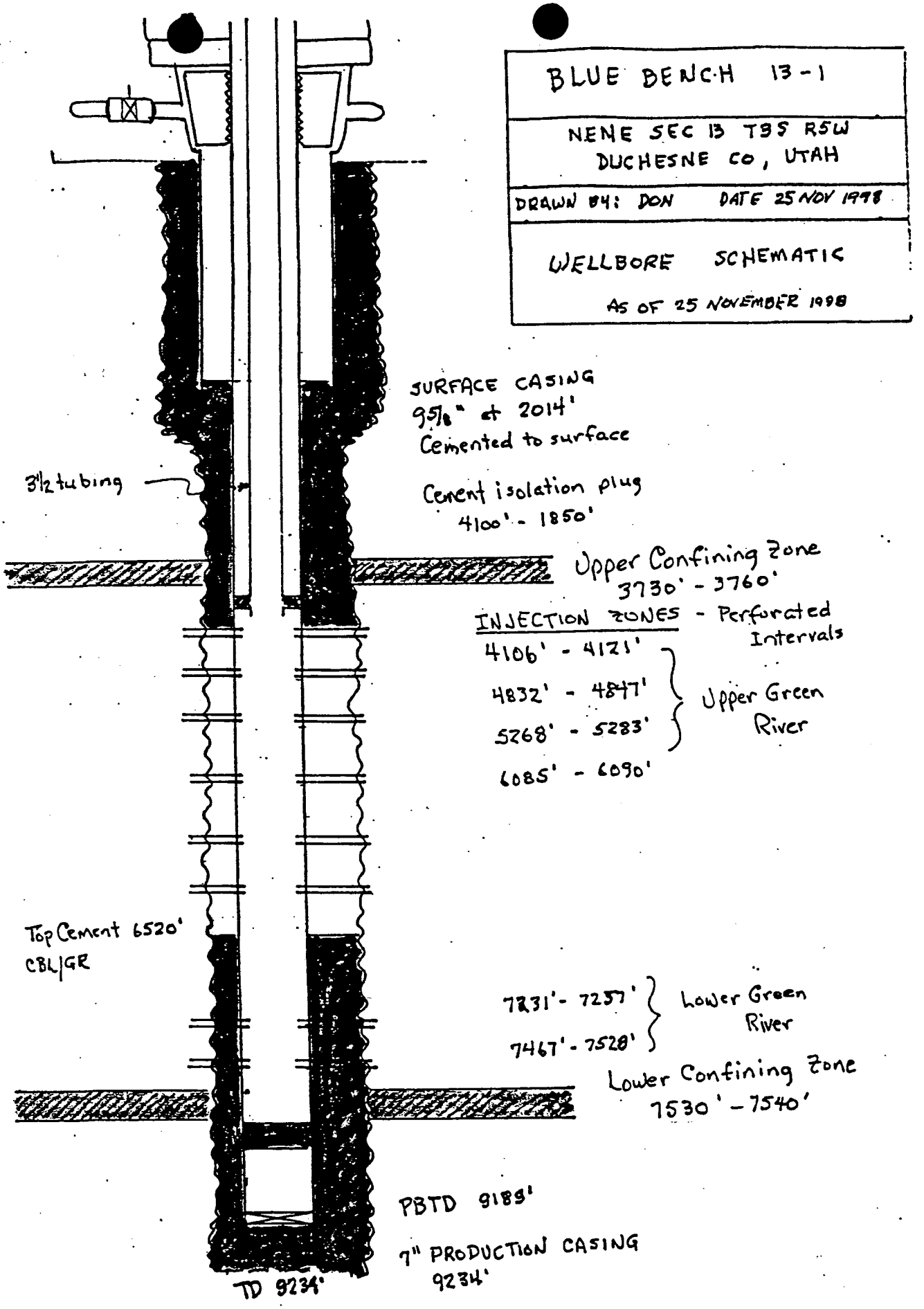
(ii) A written submission shall also be provided to the Director within five (5) days of the time the permitted becomes aware of the potential for endangerment to health or the environment. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

(d) Other Noncompliance. The permitted shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted. The reports shall contain the information listed in Part III, Section E. 10. (c) (ii) of this permit.

(e) Other Information. Where the permitted becomes aware that any relevant facts were not submitted in the permit application, or incorrect information was submitted in a permit application or in any report to the Director, the permitted shall submit such correct facts or information within two (2) weeks of the time such information becomes known.

11. Duty to Reapply. If the permitted wishes to continue an activity regulated by this permit after the expiration date of this permit, the permitted must apply for and obtain a new permit.

APPENDIX A (CONSTRUCTION DETAILS)


BLUE BENCH 13-1
NENE SEC 13 T9S R5W
DUCHESNE CO, UTAH
DRAWN BY: DON DATE 25 NOV 1998
WELLBORE SCHEMATIC
AS OF 25 NOVEMBER 1998
SURFACE CASING
9 5/8" at 2014'
Cemented to surface
3 1/2 tubing
Cement isolation plug
4100' - 1850'
Upper Confining Zone
3730' - 3760'
INJECTION ZONES - Perforated Intervals
4106' - 4121'
4832' - 4847'
5268' - 5283'
Upper Green River
6085' - 6090'
Top Cement 6520'
CBL/GR
7231' - 7257'
7467' - 7528'
Lower Green River
Lower Confining Zone
7530' - 7540'
PBTD 9189'
7" PRODUCTION CASING
9234'
TD 9234'

APPENDIX B (REPORTING FORMS)

1.	EPA Form 7520- 7:	APPLICATION TO TRANSFER PERMIT
2.	EPA Form 7520- 8:	INJECTION WELL MONITORING REPORT
3.	EPA Form 7520-10:	COMPLETION REPORT FOR BRINE DISPOSAL WELL
4.	EPA Form 7520-12:	WELL REWORK RECORD
5.	EPA Form 7520-13:	PLUGGING RECORD
6.	EPA Form R8:	MECHANICAL INTEGRITY PRESSURE TEST

Form Approved. OMB No. 2000-0042. Approval expires 9-30-86

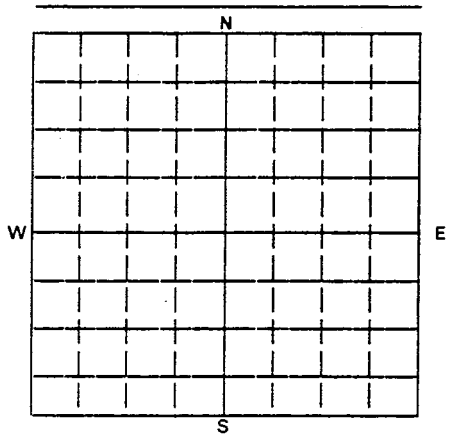
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

APPLICATION TO TRANSFER PERMIT

NAME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY	WELL STATUS	TYPE OF PERMIT
☐ Class I	☐ Operating	☐ Individual
☐ Class II	☐ Modification/Conversion	☐ Area
☐ Brine Disposal	☐ Proposed	Number of Wells _____
☐ Enhanced Recovery		
☐ Hydrocarbon Storage		
☐ Class III		
☐ Other		

Lease Name Well Number

NAME(S) AND ADDRESS(ES) OF NEW OWNER(S)	NAME AND ADDRESS OF NEW OPERATOR

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the director.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

INJECTION WELL MONITORING REPORT

Form Approved
OMB No. 2000-0042
Approval expires 9-30-86

YEAR	MONTH	MONTH	MONTH
Injection Pressure (PSI)			
1. Minimum			
2. Average			
3. Maximum			
Injection Rate (Gal/Min)			
1. Minimum			
2. Average			
3. Maximum			
Annular Pressure (PSI)			
1. Minimum			
2. Average			
3. Maximum			
Injection Volume (Gal)			
1. Monthly Total			
2. Yearly Cumulative			
Temperature (F°)			
1. Minimum			
2. Average			
3. Maximum			
pH			
1. Minimum			
2. Average			
3. Maximum			
Other			

Name and Address of Permittee		Permit Number
Name and Official Title *(Please type or print)*	Signature	Date Signed

EPA Form 7520-8 (2-84)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

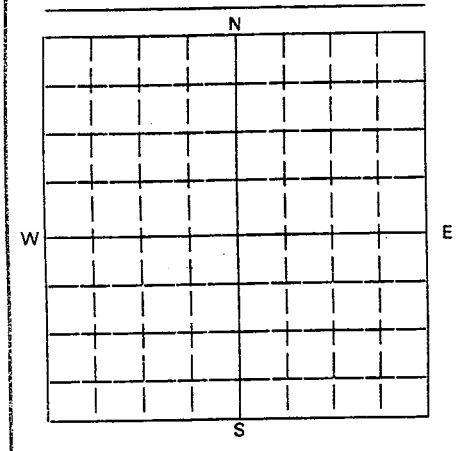
COMPLETION REPORT FOR BRINE DISPOSAL, HYDROCARBON STORAGE, OR ENHANCED RECOVERY WELL

Form Approved
OMB No. 2040-0042
Approval expires 9-30-86

NAME AND ADDRESS OF EXISTING PERMITTEE

NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ____ ft. from (N/S) ____ Line of quarter section

and ____ ft. from (E/W) ____ Line of quarter section

WELL ACTIVITY
- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT
- ☐ Individual
- ☐ Area

Number of Wells ____

Estimated Fracture Pressure of Injection Zone

Anticipated Daily Injection Volume (Bbls)		Injection Interval
Average	Maximum	Feet to Feet
Anticipated Daily Injection Pressure (PSI)		Depth to Bottom of Lowermost Freshwater Formation (Feet)
Average	Maximum	

Type of Injection Fluid *(Check the appropriate block(s))*
- ☐ Salt Water
- ☐ Brackish Water
- ☐ Fresh Water
- ☐ Liquid Hydrocarbon
- ☐ Other

Lease Name | Well Number

Name of Injection Zone

Date Drilling Began	Date Well Completed

Permeability of Injection Zone

Date Drilling Completed

Porosity of Injection Zone

CASING AND TUBING			CEMENT		HOLE	
OD Size	Wt/Ft — Grade — New or Used	Depth	Sacks	Class	Depth	Bit Diameter

INJECTION ZONE STIMULATION		WIRE LINE LOGS, LIST EACH TYPE	
Interval Treated	Materials and Amount Used	Log Types	Logged Intervals

Complete Attachments A — E listed on the reverse.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*		DATE SIGNED

Form approved. OMB No. 2000-0042. Approval expires 9-30-86

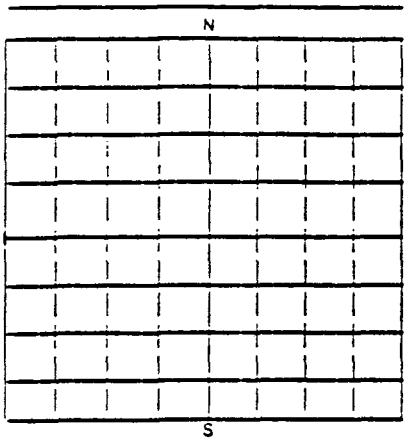
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE	NAME AND ADDRESS OF CONTRACTOR

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ____ ft. from (N/S) ____ Line of quarter section

and ____ ft. from (E/W) ____ Line of quarter section

WELL ACTIVITY		TYPE OF PERMIT
☐ Brine Disposal ☐ Enhanced Recovery ☐ Hydrocarbon Storage	Total Depth Before Rework	☐ Individual ☐ Area Number of Wells ____
	Total Depth After Rework	
Lease Name	Date Rework Commenced	Well Number
	Date Rework Completed	

WELL CASING RECORD — BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

WELL CASING RECORD — AFTER REWORK *(Indicate Additions and Changes Only)*

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL USE ADDITIONAL SHEETS IF NECESSARY	WIRE LINE LOGS. LIST EACH TYPE	
	Log Types	Logged Intervals

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

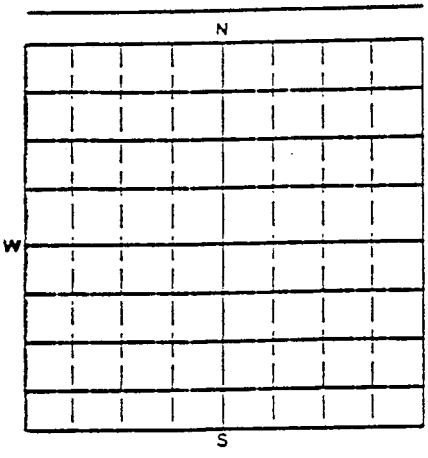
Form Approved. OMB No. 2060-0042 Approval Expires 3-30-91

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA PLUGGING RECORD

NAME AND ADDRESS OF PERMITTEE	NAME AND ADDRESS OF CEMENTING COMPANY

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location ____ ft. from (N/S) ____ Line of quarter section

and ____ ft. from (E/W) ____ Line of quarter section

TYPE OF AUTHORIZATION

- ☐ Individual Permit
- ☐ Area Permit
- ☐ Rule

Number of Wells ____

Lease Name

Describe in detail the manner in which the fluid was placed and the method used in introducing it into the hole

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE

WELL ACTIVITY

- ☐ CLASS I
- ☐ CLASS II
  - ☐ Brine Disposal
  - ☐ Ennanced Recovery
  - ☐ Hydrocarbon Storage
- ☐ CLASS III

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☐ The Balance Method
- ☐ The Dump Bailer Method
- ☐ The Two-Plug Method
- ☐ Other

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)							
Depth to Bottom of Tubing or Drill Pipe (ft.)							
Sacks of Cement To Be Used (each plug)							
Slurry Volume To Be Pumped (cu. ft.)							
Calculated Top of Plug (ft.)							
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type Cement or Other Material (Class III)							

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

From	To	From	To

Signature of Cementer or Authorized Representative	Signature of EPA Representative

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprinsonment for knowing violations. (REF. 40 CFR 122.22)

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

OPERATOR RESPONSIBILITIES FOLLOWING MIT FAILURES

1) IMMEDIATELY - Cease injection and shut-in the well as rapidly as feasible. In no case shall the well remain in operation beyond 48 hours unless the Director (TOM PIKE (303) 293-1544) allows for temporary operation of the well.

2) WITHIN 24 HOURS - Verbally notify the UIC Director of MIT failure even in cases where the failure is detected during a test which was witnessed by a UIC inspector.

3) WITHIN 5 DAYS - Submit a written follow-up report documenting test results, remediation taken or a proposed remediation plan and any limits established by the Director on appropriate volume or time for continued injection operation.

Mechanical Integrity Test
Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: ____/____/____

Test conducted by: _____

Others present: _____

Well Name:_____ Type: ER SWD Status: AC TA UC

Field:_____

Location:_____ Sec:____ T____N / S R____E / W County:_____State:___

Operator:_____

Last MIT: ____/____/____ Maximum Allowable Pressure: _____ PSIG

Is this a regularly scheduled test? [ ] Yes [ ] No

Initial test for permit? [ ] Yes [ ] No

Test after well rework? [ ] Yes [ ] No

Well injecting during test? [ ] Yes [ ] No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: _____ psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	psig	psig	psig
End of test pressure	psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	psig	psig	psig
5 minutes	psig	psig	psig
10 minutes	psig	psig	psig
15 minutes	psig	psig	psig
20 minutes	psig	psig	psig
25 minutes	psig	psig	psig
30 minutes	psig	psig	psig
minutes	psig	psig	psig
minutes	psig	psig	psig
RESULT	**[ ] Pass [ ]Fail**	**[ ] Pass [ ]Fail**	**[ ] Pass [ ]Fail**

Does the annulus pressure build back up after the test ? [ ] Yes [ ] No

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

SEP 27 1995

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 39
Pressure testing injection wells for Part I (internal) Mechanical Integrity

FROM: Tom Pike, Chief
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

Introduction

The Underground Injection Control (UIC) regulations require that an injection well have mechanical integrity at all times (40 CFR 144.28 (f)(2) and 40 CFR 144.51 (q)(1)). A well has mechanical integrity (40 CFR 146.8) if:

(1) There is no significant leak in the tubing, casing or packer; and

(2) There is no significant fluid movement into an underground source of drinking water (USDW) through vertical channels adjacent to the injection wellbore.

Definition: Mechanical Integrity Pressure Test for Part I. A pressure test used to determine the integrity of all the downhole components of an injection well, usually tubing, casing and packer. It is also used to test tubing cemented in the hole by using a tubing plug or retrievable packer. Pressure tests must be run at least once every five years. If for any reason the tubing/packer is pulled, the injection well is required to pass another mechanical integrity test of the tubing casing and packer prior to recommencing injection regardless of when the last test was conducted. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on either the attached form or an equivalent form containing the necessary information. A pressure recording chart documenting the actual annulus test pressures must be attached to the form.

This guidance addresses making a determination of Part I of Mechanical Integrity (no leaks in the tubing, casing or

packer). The Region's policy is: 1) to determine if there are significant leaks in the tubing, casing or packer; 2) to assure that the casing can withstand pressure similar to that which would be applied if the tubing or packer fails; 3) to make the Region's test procedure consistent with the procedures utilized by other Region VIII Primacy programs; and 4) to provide a procedure which can be easily administered and is applicable to all class I and II wells. Although there are several methods allowed for determining mechanical integrity, the principal method involves running a pressure test of the tubing/casing annulus. Region VIII's procedure for running a pressure test is intended to aid UIC field inspectors who witness pressure tests for the purpose of demonstrating that a well has Part I of Mechanical Integrity. The guidance is also intended as a means of informing operators of the procedures required for conducting the test in the absence of an EPA inspector.

Pressure Test Description

Test Frequency

The mechanical integrity of an injection well must be maintained at all times. Mechanical integrity pressure tests are required at least every five (5) years. If for any reason the tubing/packer is pulled, however, the injection well is required to pass another mechanical integrity test prior to recommencing injection regardless of when the last test was conducted. The Regional UIC program must be notified of the workover and the proposed date of the pressure test. The well's test cycle would then start from the date of the new test if the well passes the test and documentation is adequate. Tests may be required on a more frequent basis depending on the nature of the injectate and the construction of the well (see Section guidance on MITs for wells with cemented tubing and regulations for Class I wells).

Region VIII's criteria for well testing frequency is as follows:

1. Class I hazardous waste injection wells; initially [40 CFR 146.68(d)(1)] and annually thereafter;

2. Class I non-hazardous waste injection wells; initially and every two (2) years thereafter, except for old permits (such as the disposal wells at carbon dioxide extraction plants which require a test at least every five years);

3. Class II wells with tubing, casing and packer; initially and at least every five (5) years thereafter;

4. Class II wells with tubing cemented in the hole; initially and every one (1) or two (2) years thereafter depending on well specific conditions (See Region VIII UIC Section Guidance #36);

5. Class II wells which have been temporarily abandoned (TAd) must be pressure tested after being shut-in for two years; and

6. Class III uranium extraction wells; initially.

Test Pressure

To assure that the test pressure will detect significant leaks and that the casing is subjected to pressure similar to that which would be applied if the tubing or packer fails, the tubing/casing annulus should be tested at a pressure equal to the maximum allowed injection pressure or 1000 psig whichever is less. The annular test pressure must, however, have a difference of at least 200 psig either greater or less than the injection tubing pressure. Wells which inject at pressures of less than 300 psig must test at a minimum pressure of 300 psig, and the pressure difference between the annulus and the injection tubing must be at least 200 psi.

Test Criteria

1. The duration of the pressure test is 30 minutes.

2. Both the annulus and tubing pressures should be monitored and recorded every five (5) minutes.

3. If there is a pressure change of 10 percent or more from the initial test pressure during the 30 minute duration, the well has failed to demonstrate mechanical integrity and should be shut-in until it is repaired or plugged.

4. A pressure change of 10 percent or more is considered significant. If there is no significant pressure change in 30 minutes from the time that the pressure source is disconnected from the annulus, the test may be completed as passed

Recordkeeping and Reporting

The test results must be recorded on the attached form. The annulus pressure should be recorded at five (5) minute intervals. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on the attached form or an equivalent form . A pressure recording chart documenting the actual annulus test pressures must be attached to the submittal. The tubing pressure at the beginning and end of each test must be recorded. The volume of the annulus fluid bled back at the surface after the test should be measured and recorded on the form. This can be done by bleeding the annulus pressure off and discharging the associated fluid into a five gallon container. The volume information can be used to verify the approximate location of the packer.

Procedures for Pressure Test

1. Scheduling the test should be done at least two (2) weeks in advance.

2. Information on the well completion (location of the packer, location of perforations, previous cement work on the casing, size of casing and tubing, etc.) and the results of the previous MIT test should be reviewed by the field inspector in advance of the test. Regional UIC Guidance #35 should also be reviewed. Information relating to the previous MIT and any well workovers should be reviewed and taken into the field for verification purposes.

3. All Class I wells and Class II SWD wells should be shut-in prior to the test. A 12 to 24-hour shut-in is preferable to assure that the temperature of the fluid in the wellbore is stable.

4. Class II enhanced recovery wells may be operating during the test, but it is recommended that the well be shut-in if possible.

5. The operator should fill the casing/tubing annulus with inhibited fluid at least 24 hours in advance, if possible. Filling the annulus should be undertaken through one valve with the second valve open to allow air to escape. After the operator has filled the annulus, a check should be made to assure that the annulus will remain full. If the annulus can not maintain a full column of fluid, the operator should notify the Director and begin a rework. The operator should measure and report the volume of fluid added to

the annulus. If not already the case, the casing/tubing valves should be closed, at least, 24 hours prior to the pressure test.

Following steps are at the well:

6. Read tubing pressure and record on the form. If the well is shut-in, the reported information on the actual maximum operating pressure should be used to determine test pressures.

7. Read pressure on the casing/tubing annulus and record value on the form. If there is pressure on the annulus, it should be bled off prior to the test. If the pressure will not bleed-off, the guidance on well failures (Region VIII UIC Section Guidance #35) should be followed.

8. Ask the operator for the date of the last workover and the volume of fluid added to the annulus prior to this test and record information on the form.

9. Hook-up well to pressure source and apply pressure until test value is reached.

10. Immediately disconnect pressure source and start test time. (If there has been a significant drop in pressure during the process of disconnection, the test may have to be restarted.) The pressure gages used to monitor injection tubing pressure and annulus pressure should have a pressure range which will allow the test pressure to be near the mid-range of the gage. Additionally, the gage must be of sufficient accuracy and scale to allow an accurate reading of a 10 percent change to be read. For instance, a test pressure of 600 psi should be monitored with a 0 to 1000 psi gage. The scale should be incremented in 20 psi increments.

11. Record tubing and annulus pressure values every five (5) minutes.

12. At the end of the test, record the final tubing pressure.

13. If the test fails, check the valves, bull plugs and casing head close up for possible leaks. The well should be retested.

14. If the second test indicates a well failure, the Region should be informed of the failure within 24 hours by the operator, and the well should be shut-in within 48 hours per Headquarters guidance #76. A follow-up

letter should be prepared by the operator which outlines the cause of the MIT failure and proposes a potential course of action. This report should be submitted to EPA within five days.

15. Bleed off well into a bucket, if possible, to obtain a volume estimate. This should be compared to the calculated value obtained using the casing/tubing annulus volume and fluid compressibility values.

16. Return to office and prepare follow-up.

Alternative Test Option

While it is expected that the test procedure outlined above will be applicable to most wells, the potential does exist that unique circumstances may exist for a given well that precludes or makes unsafe the application of this test procedure. In the event that these exceptional or extraordinary conditions are encountered, the operator has the option to propose an alternative test or monitoring procedures. The request must be submitted by the operator in writing and must be approved in writing by the UIC-Implementation Section Chief or equivalent level of management.

Attachment

APPENDIX C

PLUGGING & ABANDONMENT PLAN

PLUGGING AND ABANDONMENT PLAN

The plugging and abandonment plan (Appendix C) submitted by the permitted consists of five (5) plugs with the following specifications. All voids between plugs within the 7 inch casing shall be filled with 9.2 ppg plugging gel. This plan has been reviewed and approved by the EPA and is consistent with UIC requirements.

Plug #1: Within the 7 inch long string casing, place a cement plug from 7,175 to 7,630 feet using Class G or Class V cement.

Plug #2: Within the 7 inch long string casing, place a cement plug from 6,520 to 6,720 feet using Class G or Class V cement.

Plug #3: Within the 7 inch long string casing, place a cement plug from 3,600 to 4,140 feet using Class G or Class V cement.

Plug #4: Within the 7 inch long string casing, place a cement plug from 1,900 to 2,700 feet using Class G or Class V cement.

Plug #5: Within the 7 inch long string casing and surface casing/long string casing annulus, place cement plugs from the surface to a depth of 50 feet using Class G or Class V cement.

APPENDIX D

Suggested Step-Rate Test Procedure

SUGGESTED STEP-RATE INJECTIVITY TEST PROCEDURES

The Step-Rate Test (SRT) results will be documented with service company or other appropriate (acceptable) records and/or charts and should be witnessed by an EPA inspector. Witnessing arrangements can be made by contacting the EPA Region VIII Underground Injection Control (UIC) offices using the EPA toll-free number 1-800-227-8917 (x1544).

The Step-Rate Test Procedure is as follows:

1) The well should be shut in long enough prior to testing that the bottom hole pressures approximate shut-in formation pressures. If the shut-in well flows to the surface, the wellhead injection string will be equipped with a gauge and the static surface pressure will be read and recorded.

2) A series of successively higher injection rates will be established as suggested below, with the elapsed time and pressure values read and recorded for each rate. Each step should last exactly as long as the preceding rate. If stabilized pressure values are not obtained within the times suggested below, the test will result in inconclusive results due to a high permeability and/or underpressured injection zone.

Formation Perm (md)	Time per step-rate (min)
≤ 5 md	60 min
≥ 10 md	30 min

3) Suggested injection rates:

5%
10%
20%
40%
60%
80%
100%

} Of Maximum Anticipated Injection Rate

4) Injection rates should be controlled with a constant flow regulator that has been tested prior to use. A throttling device is not sufficient.

5) Flow rates should be measured with a calibrated turbine flowmeter.

6) Record injection rates with a chart recorder or a strip chart.

7) Measure pressures with a down hole pressure bomb.

8) Measure and record injection pressures with a gauge or recorder (for immediate test results).

9) A plot of injection rates and the corresponding stabilized pressure values should be graphically represented as a constant slope straight line to a point at which the formation "breakdown" pressure is exceeded. The slope of the subsequent straight line should be less than that of the before-fracture straight line.

10) If the fracture pressure has definitely been exceeded with at least two injection rate-pressure combinations greater than the "breakdown" pressure, the injection pump should be stopped and the line valve closed so that the pressure is allowed to bleed-off into the injection formation. There will be an immediate pressure fall-off (Instantaneous Shut-in Pressure or ISIP), after which the pressure values begin to level out. The ISIP will be read and recorded.

11) Once the ISIP is obtained, the SRT is concluded. The ISIP obtained in this manner may be considered the minimum pressure required to hold the fracture open.

12) In the event that formation "breakdown" was not obtained at the maximum test injection pressure utilized, the test results may indicate that the formation is accepting fluids without fracturing.

This SRT outline is consistent with acceptable oilfield practices. It should identify an allowable injection pressure which will provide adequate protection of the underground sources of drinking water at an injection well having demonstrated mechanical integrity. The allowable injection pressure will be determined after an EPA review of the SRT results. Enclosed is a form which you may copy and use to record test data.

STEP-RATE TEST DATA

STEP #1 Test Rate (5% max rate) _____ (bbl/min)

Time (min) :	_____	_____	_____	_____	_____	_____	_____
Pressure (psi):	_____	_____	_____	_____	_____	_____	_____

STEP #2 Test Rate (10% max rate) _____ (bbl/min)

Time (min) :	_____	_____	_____	_____	_____	_____	_____
Pressure (psi):	_____	_____	_____	_____	_____	_____	_____

STEP #3 Test Rate (20% max rate) _____ (bbl/min)

Time (min) :	_____	_____	_____	_____	_____	_____	_____
Pressure (psi):	_____	_____	_____	_____	_____	_____	_____

STEP #4 Test Rate (40% max rate) _____ (bbl/min)

Time (min) :	_____	_____	_____	_____	_____	_____	_____
Pressure (psi):	_____	_____	_____	_____	_____	_____	_____

STEP #5 Test Rate (60% max rate) _____ (bbl/min)

Time (min) :	_____	_____	_____	_____	_____	_____	_____
Pressure (psi):	_____	_____	_____	_____	_____	_____	_____

STEP #6 Test Rate (80% max rate) _____ (bbl/min)

Time (min) :	_____	_____	_____	_____	_____	_____	_____
Pressure (psi):	_____	_____	_____	_____	_____	_____	_____

STEP #7 Test Rate (100% max rate) _____ (bbl/min)

Time (min) :	_____	_____	_____	_____	_____	_____	_____
Pressure (psi):	_____	_____	_____	_____	_____	_____	_____

ISIP : _____ (psi)

SRT EXAMPLE

The following is an example of a Step-Rate Test with tabular and graphic results. The operator of Anywell #1 set up a SRT for the following conditions:

A) Maximum anticipated injection rate was 4 bbl/min.

B) Following the recommended test procedures, the operator planned on using these rates for the test:

1) 5% of 4 bbl/min = 0.2 bbl/min
2) 10% of 4 bbl/min = 0.4 bbl/min
3) 20% of 4 bbl/min = 0.8 bbl/min
4) 40% of 4 bbl/min = 1.6 bbl/min
5) 60% of 4 bbl/min = 2.4 bbl.min
6) 80% of 4 bbl/min = 3.2 bbl/min
7) 100% of 4 bbl/min = 4.0 bbl/min

C) The formation permeability is estimated as 100 md, therefore each step will last for 30 minutes.

The step-rate test data and graphic results of the test are on the following pages. For this test, the injection formation broke down at approximately 1200 psi, and the ISIP was listed as 1000 psi. Since the injection formation will part at 1000 psi, the maximum injection pressure will be held to the ISIP.

If the formation had not broken down at 1200 psi, the maximum allowable injection pressure would be the maximum pressure obtained during the test.

STEP-RATE TEST ANYWELL #1

STEP #1 Test Rate (5% max rate) 0.2 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	0	90	95	98	99	100	100

STEP #2 Test Rate (10% max rate) 0.4 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	80	170	185	195	199	200	200

STEP #3 Test Rate (20% max rate) 0.8 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	190	325	385	392	398	399	400

STEP #4 Test Rate (40% max rate) 1.6 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	380	700	790	792	795	798	800

STEP #5 Test Rate (60% max rate) 2.4 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	750	990	1030	1090	1150	1180	1200

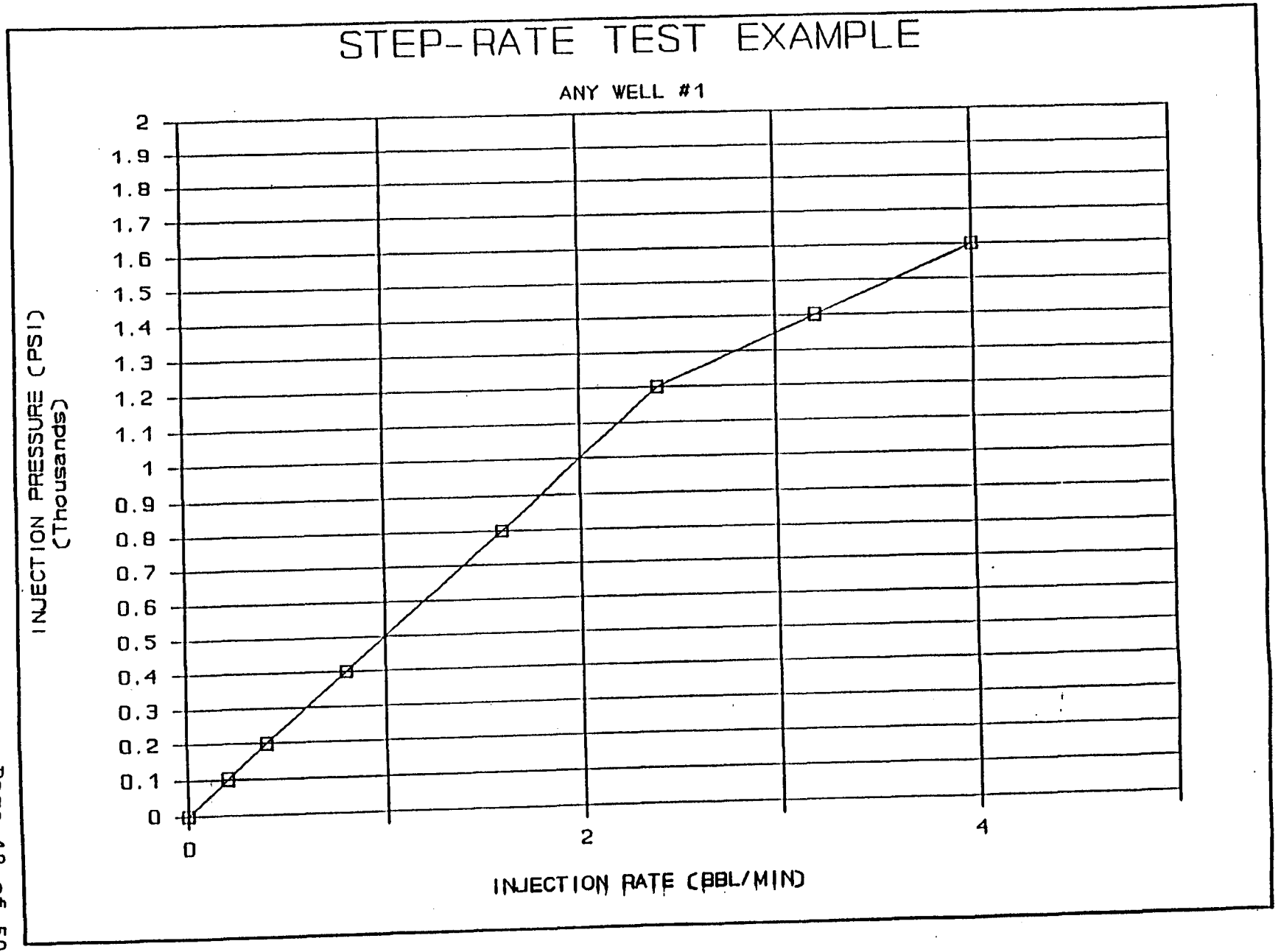
STEP #6 Test Rate (80% max rate) 3.2 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	1100	1250	1325	1370	1390	1395	1400

STEP #7 Test Rate (100% max rate) 4.0 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	1350	1450	1500	1530	1570	1590	1600

ISIP : 1000 (psi)


STEP-RATE TEST EXAMPLE
ANY WELL #1
INJECTION PRESSURE (PSI)
(Thousands)
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
2
4
INJECTION RATE (BBL/MIN)

APPENDIX E

Class V Sources

Nonhazardous Industrial Fluids

Potential sources of nonhazardous industrial waste fluids:

1. Reclaimed water associated with the removal of underground fuel storage tanks, if determined by analysis to be nonhazardous.
2. Water from oil field surface pit operations.
3. Contaminated waters from construction and operational sites.
4. Stored fuels, if analyzed as nonhazardous.
5. Treated municipal sewerage.
6. Agricultural site runoff impoundment sumps.
7. Nonhazardous industrial waste fluids that have been approved for disposal by the director.

FINAL FACT SHEET

ENVIRO-TEC, INC.
BLUE BENCH #13-1, CLASS V WELL
DUCHESNE COUNTY, UTAH
EPA PERMIT NUMBER: UT5641-03726

CONTACT: John A. Carson
U.S. Environmental Protection Agency
UIC Implementation Section, 8WM-DW
999 18th Street, Suite 500
Denver, Colorado 80202-2466
Telephone: (303) 312-6203

DESCRIPTION OF FACILITY AND BACKGROUND INFORMATION:

On March 16, 1999, Enviro-Tec, Inc. made application for a Class V underground injection control permit for injection of nonhazardous industrial waste fluids into the upper and lower Green River Formation between the depths of 4,100 to 5728 feet, a zone which is not defined as a USDW.

Although a water sample analysis of the injection zone indicated a TDS content of 47,585 mg/l, there appears to be underlying units containing less than 10,000 mg/l. There is evidence that this condition exists in certain areas of the Uinta Basin as a result of many years of oil and gas production. That is, the produced oil and gas have been replaced by less saline water than originally contained in the formations, the source of the replacement water being inflow of fresh water from surface outcrops at the edge of the basin.

Nevertheless, a permit for the disposal of nonhazardous industrial waste can be issued for the Blue Bench #13-1 well as a Class V permit, which provides for injection into formations that are above, as well as below USDWs. Therefore, a Class V permit will be issued for the disposal of nonhazardous industrial waste, based on data submitted by the permittee.

The Blue Bench #13-1 has been in operation as a commercial Class II salt water disposal well since January, 1992, under UIC Permit UT2582-03533 issued by the United States Environmental Protection Agency, Region VIII. The injection zone for both Class V and Class II fluids will be those intervals noted above. All fluids injected to date have been waters associated with oil and gas operations in the Uinta Basin area. This Class V permit will authorize the Blue Bench #13-1 to dispose of nonhazardous industrial fluids, as well as Class II oil field waste fluids.

Class V nonhazardous waste fluids will consist of reclaimed water associated with the removal of underground fuel storage tanks, waters from surface pit operations, industrial process tanks, piping and wash pits, industrial process heat exchange systems, contaminated waters from construction sites, compost operation and agricultural site runoff impoundment sumps, treated municipal sewerage that will not meet standards for discharge into rivers and streams, stored fuels, and other nonhazardous industrial waste fluids. The permittee has requested a maximum injection pressure of 1,230 psig. Currently, the well injects Class II fluids on vacuum, and up to a surface injection pressure of approximately 200 psig.

The operation covered by the application is in a portion of the Altamont Field, located on fee land in the NE 1/4 of the NE 1/4 of Section 13, T3S-R5W, Duchesne County, Utah, and within the exterior boundary of the Uintah-Ouray Indian Reservation. Notices were previously sent to all surface landowners within one-quarter (1/4) mile of the well of the intent to apply for a permit for the disposal of nonhazardous industrial waste fluids.

On September 14, 1998, the permittee successfully performed a mechanical integrity test of the well in order to demonstrate that no leaks existed in the tubing, packer or casing. In addition, a radioactive tracer survey (RATS) and temperature log were conducted during September 23-25, 1998. These logs indicated that there was no upward movement of injection fluid or channeling behind casing. However, these tests must be repeated prior to authorization of the Blue Bench #13-1 as a Class V disposal well. The tests must be witnessed by a representative of the EPA and shall consist of two parts: (1) a casing/tubing annulus pressure test to verify the absence of leaks in the casing, tubing, and packer, and (2) a RATS and temperature log to verify that no movement of fluids exists outside the casing into an underground source of drinking water (USDW) through vertical channels adjacent to the wellbore.

Enviro-Tec, Inc. has submitted all required information and data necessary for permit issuance in accordance with 40 CFR Parts 124, 144, 146, and 147, and a final permit has been prepared. The permit will be issued for a period of ten (10) years; no reapplication will be necessary during this period, unless the permit is terminated for reasonable cause (40 CFR 144.39, 144.40 and 144.41). However, the permit will be reviewed at least once every five (5) years to determine if changes in the permit are needed.

This Fact Sheet gives the derivation of the site-specific permit conditions and reasons for them, on the basis of the direct implementation regulations promulgated for the Uintah-Ouray Indian Tribal lands in the State of Utah, under the Underground Injection Control (UIC) program provisions for the Safe Drinking Water Act (SDWA). The referenced sections and conditions correspond to the sections and conditions in Permit UT5641-03726. The general permit conditions for which the

content is mandatory and not subject to site specific differences (based on 40 CFR Parts 124, 144, 146 and 147), are not included in the discussion.

Part II, Section A WELL CONSTRUCTION REQUIREMENTS

Casing and Cementing (Condition 1)

The Blue Bench #13-1 well was drilled during August, 1984, to as total depth of 9,234 feet, cased and cemented, but never completed as a producing well. During conversion to a Class II injector in 1991, additional cementing was performed by placing a cement isolation plug (715 sacks) within the annulus between the long string casing and wellbore, from 1,850 feet to 4,100 feet. All casing and cementing details were submitted with the permit application. For the injection well, construction is as follows:

(1) Surface casing (9-5/8 inch) is set in a 12-1/4 inch diameter hole to a depth of 2,014 feet kelly bushing (KB). The casing was secured with 510 sacks of cement which was circulated to the surface, isolating the casing from the wellbore.

(2) Long string casing (7 inch) is set in an 8-1/2 inch diameter hole to a depth of 9,234 feet KB. This casing is secured with cement from total depth, up to a depth of 6,520 feet KB with 435 sacks of cement, and from 4,100 feet KB up to a depth of 1,850 feet KB with 715 sacks of cement. A Cement Bond Log (CBL) of the well indicates adequate bonding between the casing and wellbore throughout the cemented intervals. The well is currently plugged back to a depth of 7,630 feet.

The only known underground sources of drinking water (USDWs) within a 1/4-mile radius of the well are above a depth of 2,650 feet, as indicated by the State of Utah Department of Natural Resources Technical Publication No.92. This depth places the base of the USDWs approximately 1,500 feet above the injection zone. These USDWs include Quaternary Duchesne River alluvium from near surface to a depth of 200 feet, and a perched aquifer in the Uinta Formation (the Bedrock aquifer) at a depth of approximately 1,100 feet. Deeper in the section, and below the injection zone, the lower Green River and Wasatch Formations contain some porous sands which may qualify as USDWs.

Overlying the injection zone all USDWs are adequately isolated with cemented surface and long string casings. The confining zone above the top of the uppermost injection interval at 4,100 feet, to the base of the USDWs at 2,650 feet, is 1,450 feet in thickness, and consists of interbedded calcareous shales, evaporite beds, siliceous sands and limestones of the Uinta and Green River Formations which provide an effective barrier to upward movement of injected fluids.

Below the lowermost injection interval the confining zone consists of Green River calcareous shale with interbedded thin silty sands and limestones from 7,528 feet to 9,234 feet, total depth of the well. This interval is cemented behind the long string casing. Based on the construction and cementing details of the well and the presence of adequate upper and lower confining beds, all known and potential USDWs should be adequately protected.

Tubing and Packer Specifications (Condition 2)

The tubing information (3-1/2 inch) submitted by the applicant is incorporated into the permit and shall be binding on the permittee. The depth of the packer is 4,077 feet, which is 30 feet above the top of the upper injection interval. In no instance is the packer to be more than 100 feet above the uppermost injection interval.

Monitoring Devices (Condition 3)

Prior to the injection of Class V fluids, the permittee shall have installed continuous recording devices which will monitor the operation of the well; these devices shall be maintained as long as the permit is in effect.

The monitoring devices shall continuously monitor: (1) injection pressure; (2) casinghead pressure of the tubing/casing annular space; and (3) flow rate and volume. The tubing/casing annulus shall be maintained full of fresh water treated with a non-toxic corrosion inhibitor and maintained under a minimum positive pressure of 200 psig. This may be achieved through the use of an above-ground fluid reservoir with a gas cap of nitrogen to maintain the positive pressure. Maintaining positive pressure on the annulus provides assurance that the monitoring is representative of actual downhole changes. A continuous recording of injection volume is to be accomplished by use of a non-resettable cumulative volume totalizer. In addition, a pump shut-off interlock device shall be installed in order to assure that the allowable maximum surface injection pressure is not exceeded.

The permittee shall provide and maintain in good operating condition: a ½ inch fitting with a cut-off valve at the wellhead on the tubing, and a similar fitting and cut-off valve for the casing/tubing annulus. These valves shall be positioned to allow the attachment of pressure gauges certified for ninety-five (95) percent accuracy, or better, throughout the range of permitted operation in order to monitor the injection and annulus fluid pressures. A flow meter with a volume totalizer and a sampling tap shall be installed between the injection pump and wellhead. The permittee shall be required to maintain these devices in good operating condition.

Formation Testing (Condition 5)

The permittee provided a static bottom-hole pressure of 1,821 psig and water analysis of the injection zone of 47,585 mg/l TDS during the completion of the well for Class II injection. The well is currently injecting Class II fluids at a low surface pressure ranging from vacuum to approximately 200 psig; therefore, a step-rate test and a pressure fall-off test of the injection zone(s), to be performed for this Class V operation, shall be delayed until such time as a significant amount of surface pressure is necessary to inject both Class V and Class II fluids. The point at which the step-rate test is to be performed shall be when the surface injection pressure reaches a stabilized pressure approximating seventy-five percent (75%) of the allowable maximum injection pressure specified in Part II, Section C. 4. of this permit. However, The initial pressure fall-off test is to be conducted prior to this surface injection pressure, that is, when the surface injection pressure approximates 500 psig, or when determined by the Director.

The step-rate test will obtain an accurate injection zone fracture pressure, breakdown pressure, and instantaneous shut-in pressure (ISIP). If operating conditions permit, it is recommended that the upper injection zone be tested separately, followed by a step-rate test of the combined upper and lower zones. The pressure fall-off test is to be performed on an annual basis for the purpose of monitoring pressure buildup in the injection zone(s) in order to detect any significant loss of fluids due to fracturing in the injection and/or confining zones, and to aid in determining the lateral extent of the injection plume.

The pressure fall-off tests shall involve injecting fluids at a constant rate for at least twenty-four (24) hours, or a sufficient period of time until the reservoir pressure reaches stability, followed by a shut-in period of sufficient duration to establish a valid observation of a pressure fall-off curve as the reservoir reaches ambient pressure. The initial pressure buildup should be performed with a downhole pressure gauge in order to avoid any effect of casing storage. It is important that the initial and subsequent tests follow the same test procedure, so that valid comparisons of reservoir pressure, permeability, and porosity can be made. The permittee shall analyze test results and provide an annual report which compares the results with previous test data.

PART II, Section B CORRECTIVE ACTION

There are no other wells within a 1/4-mile area of review (AOR) surrounding the Blue Bench #13-1 well; however, within a two-mile radius of the well there are six (6) wells which penetrate the injection zone. Although the AOR requirement is generally fixed at 1/4-mile, the Utah Department of Environmental Quality has requested that wells within a 2-mile AOR be evaluated. Of the six wells that penetrate the injection zone

within this wider AOR, three (3) are plugged and abandoned in such a manner that the base of the overlying USDWs are adequately isolated from the injection zone. The other three (3) wells are production wells, two of which have adequate cement behind casing that provides isolation from overlying USDWs; the remaining well (Fortune Ute #1-11C5, approximately 1.7 miles northwest of the injection well in Section 11, T3S-R5W) is uncemented across the injection zone. The Fortune #1-11C5 is considered to be outside the radius of direct influence of the injection well and any pressure increase would be minimal, in the order of 20 psi. Furthermore, the permit requires that a pressure fall-off test be conducted in the injection well on an annual basis. These tests will monitor the pressure buildup in the injection zone and help determine the lateral extent of the injection plume. The pressure values will be used to recalculate the long term pressure buildup to determine if permit changes are needed. In view of the above, no corrective action by the permittee is considered necessary prior to the issuance of a Class V permit.

PART II, Section C WELL OPERATION

Prior To Commencing Injection (Condition 1)

Injection of nonhazardous materials into the Blue Bench #13-1 will not commence until mechanical integrity tests have been performed and witnessed according to the guidelines discussed in the permit. These integrity tests are to include a standard tubing/casing annulus pressure test, and a radioactive tracer survey (RATS) and temperature log of the well (the first RATS and temperature log are to be conducted after 60 days of injection). Additional tests to be performed following sufficient buildup of reservoir pressure are a step-rate injectivity test and a pressure fall-off test. These tests will be planned, and must be approved by the Director prior to being conducted in the well.

Mechanical Integrity (Condition 2)

A tubing/casing annulus pressure test must be repeated at least every two (2) years in order to demonstrate continued tubing, packer, and casing integrity. The tests shall be run while the well is shut-in at a pressure which is at least 300 psi greater than the shut-in tubing pressure. Annular pressure in excess of 200 psi above the pressure to be maintained on the annulus shall be grounds for ceasing injection, evaluating the well's operation, and performing a mechanical integrity test, unless the increase in pressure can be determined to be caused by normal injection operations. Following six months of operation, the annulus pressure data will be evaluated to determine if changes in the annular pressure criteria are needed.

The absence of any flow behind casing must also be demonstrated; this shall be initially accomplished by performing a radioactive tracer survey (RATS) and a temperature log, with subsequent tests performed at five (5) year intervals. The

permittee shall provide a procedure for running the RATS and temperature log which must be approved by EPA. Elimination of subsequent RATS will depend on the results of the initial temperature log, that is, if both tests give similar results which are considered to be definitive.

Injection Interval (Condition 3)

Injection will be limited to the gross upper and lower Green River Formation (4,100 to 6,090 feet) and (7,231 to 7,528 feet), respectively. The permittee may find it necessary to perforate additional intervals within the above gross intervals. These additional perforations may be added later and reported on EPA Form 7520-12. Present casing perforations are between 4,106 and 6,090 feet, and between 7,231 and 7,528 feet.

Injection Pressure Limitation (Condition 4)

The permittee has requested a maximum surface injection pressure of 1,230 pounds per square inch gauge (psig), with an average of 1,000 psig. The maximum pressure limitation was calculated using a frac gradient of 0.733 psi/ft, based on 40 CFR 147.1353. To date, the permittee has not supplied site specific fracture pressure data for this well.

$$Pm = [(0.733)-(0.433)](Sg)d$$

Where:
Pm = maximum wellhead pressure (psig)
Sg = specific gravity of injected fluid (estimated at 1.0)
d = depth to injection zone (4,100 feet)

$$Pm = [(0.733-0.433)](1.00)(4100) = 1230 \text{ psig}$$

The permittee shall limit the maximum surface injection pressure to 1,230 psig, until such time as a step-rate injectivity test is performed. The testing method must be approved by the EPA prior to commencing the test. This step-rate test will be undertaken when the stabilized surface injection pressure is approximately 75% of the maximum allowable injection pressure. A new requested pressure will not exceed the formation breakdown pressure.

Injection Volume Limitation (Condition 5)

There is no limitation on the number of barrels of fluid per day (BFPD) that shall be injected into the Blue Bench #13-1, or in the cumulative number of barrels injected, provided that in no case shall injection pressure exceed that limit shown in Part II, Section C. 4. of this permit.

Injection Fluid Limitation (Condition 6)

Fluids injected into the Blue Bench #13-1 shall be limited to Class II fluids, plus nonhazardous industrial fluids as provided for in this Class V permit. The industrial fluids approved for injection are as follows:

1) reclaimed water associated with the removal of underground fuel storage tanks, if determined by analysis to be nonhazardous;

2) water from oil field surface pit operations;

3) contaminated waters from construction and operational sites;

4) stored fuels, if analyzed as nonhazardous;

5) Treated municipal sewerage;

6) agricultural site runoff impoundment sumps; and

7) nonhazardous industrial waste fluids that have been approved for disposal by the Director.

Class II fluids which are currently authorized for injection in the well are as follows:

1) produced water from oil and gas production;

2) waste fluids from the actual drilling operation;

3) pigging fluids from the cleaning of collection and injection lines within the field;

4) used workover and stimulation fluids recovered from production, injection, and exploratory wells;

5) gas, such as methane, CO_2 or nitrogen used for enhanced recovery/pressure maintenance of production reservoirs;

6) brine reject from water softeners associated with enhanced recovery;

7) waste fluids from methane sweetening and dehydration, which is blended with produced water, as long as it is not hazardous at the point of injection;

8) waste fluids from circulation during well cementing;

9) waste oil and fluids from cleanup associated with primary production (but not the transportation) of oil or gas within the oil field;

10) fresh water used for enhanced recovery makeup; and

11) water containing chemicals such as polymers for the purpose of enhanced recovery.

PART II Section D MONITORING, RECORDKEEPING AND REPORTING OF RESULTS

Injection Well Monitoring Program (Condition 1)

Continuous monitoring and recording of injection pressure, flow rate, volume, and tubing/casing annulus pressure shall be required. The permittee is also required to analyze water quality of the injected fluids.

All Class V fluids intended for injection will be sampled and tested for the following: corrosivity, toxicity using the Toxicity Characteristic Leaching Procedure (TCLP), ignitability, and reactivity, prior to being placed in onsite storage tanks, using one of the following criteria:

(a) FOR FLUIDS WHICH MAY VARY IN CHEMICAL COMPOSITION. Analysis of industrial waste fluids is to be performed prior to delivery to on-site storage tanks at the well site. Fluid samples shall be analyzed for Ph, conductivity, radiological, and biological parameters. At least one load in four must be screened for toxics using EPA Method 624, and analyzed for standard cations and anions. If, however, the analyses of four (4) loads from the same source indicates the material is not hazardous and the quality has little variability, the Director may waive the requirement for analyzing every load. Subsequent to this waiver, a minimum sampling schedule will be established by the Director.

(b) FOR FLUIDS ASSOCIATED WITH A SPECIFIC PROCESS, WHICH DO NOT VARY IN CHEMICAL COMPOSITION. Prior to being commingled with other fluids, analysis of industrial waste fluids received at the well site is to be performed at least once per quarter. Fluid samples shall be analyzed for standard anions and cations, including Ph and conductivity, and radiological constituents, and for toxicity using EPA Method 624. If, however, the analyses of the quarterly samples shows significant variability in chemical composition, the frequency of analyses may be increased to that specified in item (a) above.

(c) Analysis of commingled injection fluids (oil field water and nonhazardous fluids) prior to injection is to be performed at random, but not less than once every three months, for total dissolved solids, Ph, specific gravity, specific conductivity, major cations and anions, oil and grease, and total organic carbon.

The permit requires that the average, maximum and minimum monthly values of injection pressure, flow rate and volume, and annular pressure be reported quarterly, along with the data from the fluid analyses. In addition to routine quarterly reporting, the permittee is required to report the results of mechanical integrity tests, well workovers, logging, or testing of the well or injection zone. These reports are due within sixty (60) days of the completion of the activity, or at the time of the next scheduled quarterly report, whichever is sooner.

The permittee is being required to keep records concerning: (1) the location, date and time, nature of source activity, type and volume of fluids picked up for transport to the injection well, (2) the nature and composition of the injection fluids, (3) all monitoring data including the continuous pressure monitoring charts, and (4) copies of all reports sent to EPA. The permittee shall maintain copies (or originals) of all pertinent records at the office of Enviro-Tec, Inc., 1015 East 3900 South, Salt Lake City, UT 84124.

PART II, Section E PLUGGING AND ABANDONMENT

Plugging and Abandonment Plan (Condition 2)

The plugging and abandonment plan (Appendix C) submitted by the permittee consists of five (5) plugs with the following specifications. All voids between plugs within the 7-inch casing shall be filled with 9.2 ppg plugging gel. This plan has been reviewed and found to be adequate to isolate the injection intervals and to prevent significant flow within the wellbore between units overlying the injection zone. The plan is consistent with UIC regulations and guidance and has been approved as part of the permit.

Plug #1: Within the 7-inch long string casing, place a cement plug from 7,175 to 7,630 feet using Class G or Class V cement.

Plug #2: Within the 7-inch long string casing, place a cement plug from 6,520 to 6,720 feet using Class G or Class V cement.

Plug #3: Within the 7-inch long string casing, place a cement plug from 3,600 to 4,140 feet using Class G or Class V cement.

Plug #4: Within the 7-inch long string casing, place a cement plug from 1,900 to 2,700 feet using Class G or Class V cement.

Plug #5: Within the 7-inch long string casing and surface casing/long string casing annulus, place cement plugs from the surface to a depth of 50 feet using Class G or Class V cement.

PART II Section F FINANCIAL RESPONSIBILITY

Demonstration of Financial Responsibility (Condition 1)

Enviro-Tec, Inc. has chosen to demonstrate financial responsibility by a Letter of Credit and a Standby Trust Agreement which have been reviewed and approved by the EPA.

State of Utah
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WATER QUALITY

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Don A. Ostler, P.E.
Executive Secretary

January 31, 2000

Robert Pettit
Enviro-Tec, Inc.
1015 East 3900 South
Salt Lake City, Utah 84124

Dear Mr. Pettit:

Subject: Mechanical Integrity Tests on the Enviro-Tec, Inc Blue Bench 13-1 Injection Well; UIC Permit No. UTU500004

We have received from Production Logging Services, Inc., on your behalf, a submittal summarizing the results of the November 22-23, 1999 mechanical integrity tests (MIT's) for the Blue Bench 13-1 injection well. After review of the annulus pressure test results, discussions with the logger and review of the final well logs, it is our opinion that the Blue Bench 13-1 injection well has no significant leaks in its casing, tubing or packer, and no significant fluid movement into an USDW through vertical channels adjacent to its well bore. The November, 1999 MIT's are hereby approved as proof of mechanical integrity for the Blue Bench 13-1 injection well.

Sincerely,

Utah Water Quality Board

Don A. Ostler, P.E.
Executive Secretary

DAO:glj/fb/sal

cc: Joseph Shaffer, Director, TriCounty Health Dept.
Ted Allen, District Engineer
Douglas Minter, EPA Region VIII
Utah Div. of Oil, Gas & Mining

K:\WQ\PERMITS\GJACKSON\WP\E_TEC_99.MIT
FILE:ENVIRO-TEC, INC. / UIC

143 SOUTH MAIN ST.
P.O.BOX 15838
SALT LAKE CITY UTAH 84145
FED.TAX I.D.# 87-0217663

Newspaper Agency Corporation

The Salt Lake Tribune (NAC) DESERET NEWS

CUSTOMER'S COPY

PROOF OF PUBLICATION

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	D5385340L-07	04/22/00

ACCOUNT NAME	
DIV OF OIL-GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TL8200N2I41
SCHEDULE	
START 04/22/00 END 04/22/00	
CUST. REF. NO.	
CAPTION	
BEFORE THE DIVISION OF OIL, GA	
SIZE	
104 LINES 2.00 COLUMN	
TIMES	RATE
1	1.64
MISC. CHARGES	AD CHARGES
.00	170.56
	TOTAL COST
	170.56

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

—ooOoo—

IN THE MATTER OF THE APPLICATION OF FOR ADMINISTRATIVE APPROVAL OF THE BLUE BENCH #13-1 WELL LOCATED IN SECTION 13, TOWNSHIP 3S, RANGE 5W, UINTAH, DUCHESNE COUNTY, UTAH, AS A CLASS II INJECTION WELL

NOTICE OF AGENCY ACTION

CAUSE NO. UIC-233

—ooOoo—

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of ENVIROTEC, INCORPORATED for administrative approval of the BLUE BENCH #13-1 well located in Section 13, Township 3S, Range 5W, DUCHESNE County, Utah, for a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selective zones in the GREEN RIVER Formation will be used for water injection. The maximum requested injection pressure and rate will be determined on each individual well based on fracture gradient information submitted by ENVIROTEC, INCORPORATED.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 18th day of APRIL, 2000.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING

John R. Baza
Associate Director, Oil & Gas

8200N214

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY THAT THE ADVERTISEMENT OF BEFORE THE DIVISION OF OIL, GA DIV OF OIL-GAS & MINING WAS PUBLISHED BY NEWSPAPER AGENCY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON START 04/22/00 END 04/22/00

SIGNATURE Joanne Mooney

DATE 04/22/00

NOTARY PUBLIC
JOANNE MOONEY
2626 Hartford St.
Salt Lake City, UT 84106
My Commission Expires
April 1, 2004
STATE OF UTAH

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
PLEASE PAY FROM BILLING STATEMENT.

2827 N5AD001G GEDO

ENVIRO-TEC, INC.
File copied by this Enviro-Tec employee on 1/21/2008
Elaine Cawley
VICE PRESIDENT OPERATIONS

Corporate Office
1015 East 3900 South
Salt Lake City, Utah 84124

801.281.3102
Fax 801.281.4533
Mobile 801.201.8502

ENVIRO-TEC, INC.

Robert Pettit
PRESIDENT

Corporate Office
1015 East 3900 South
Salt Lake City, Utah 84124

801.281.3102
Fax 801.281.4533
Mobile 801.201.8346

CLASS II INJECTION WELL
PERMIT APPLICATION AND TECHNICAL SUPPORT

Submitted to

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

By

Envirotec, Inc.

BLUE BENCH DISPOSAL

BLUE BENCH #13-1

February 15, 2000

Duplicate report

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Envirotec, Inc.
ADDRESS 1015 East 3900 South
Salt Lake City, UT
84124

Well name and number: Blue Bench #13-1

Field or Unit name: Altamont Lease no. _____

Well location: QQ NENE section 13 township 3S range 5W county Duchesne

Is this application for expansion of an existing project? . . Yes [ ] No [X]

Will the proposed well be used for: Enhanced Recovery? . . Yes [ ] No [X]
Disposal? . . . . . Yes [X] No [ ]
Storage? . . . . . Yes [ ] No [X]

Is this application for a new well to be drilled? . . . . . Yes [ ] No [X]

If this application is for an existing well,
has a casing test been performed on the well? . . . . . Yes [X] No [ ]
Date of test: 8-14-98
API number: 43-013-30971

Proposed injection interval: from 4106' to 7528'

Proposed maximum injection: rate 7,500 BPD pressure 775 (psig

Proposed injection zone contains [X] oil, [X] gas, and/or [ ] fresh water within ¼ mile of the well.

IMPORTANT: Additional information as required by R649-5-2 should accompany this form.

List of Attachments: Memo with exhibits.

I certify that this report is true and complete to the best of my knowledge.

Name Robert C. Pettit
Title President
Phone No. (801) 281-3102
Signature Robert C. Pettit
Date 15 February 2000

(State use only)
Application approved by _____ Title _____
Approval Date _____

Comments:

15 February 2000

State of Utah
Department of Natural Resources
Division of oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

Re: Application for Class II Injection Permit, Blue Bench 13-1 Well
Township 3 South, Range 5 West, Duchesne County, Utah

Gentlemen:

Thank you for your letters of January 28 and February 17, 1999 relative to the above noted application submitted by Envirotec, Inc. dated 1/15/99.

Your comments regarding the lack of completeness of Envirotec's submittals in support of this Class II application are totally justified. This memo and attachments will provide the additional informational requirements, corrections to several errors contained in the prior applications and explanations of events and conditions not previously submitted.

History and Background

December 1991

Genesis Production Company of Denver, Colorado was granted approval by the US EPA, Region VIII, for Class II water injection into the above referenced well, then known as Paiute-Walker #13-1. (Copy of letter dated 16 December, 1991 is enclosed).

As noted in the EPA letter, the Well Completion Report, well schematic, water analysis of the injection zones, injection zone fluid pore pressure survey, Cement Bond Log and demonstration of Mechanical Integrity were reviewed and approved by the EPA. Envirotec does not have copies of these records; however, the originals and/or copies are undoubtedly on file with either or both the EPA and/or your offices.

July 1992

Genesis Production Company filed an application for an additional permit to allow injection of Class I nonhazardous fluids into the referenced well – now known as Blue Bench #13-1.

The final status of this application is unknown to Envirotec.

January 1995

The State of Utah, Division of Oil, Gas and Mining issued authority to inject Class II fluid into the subject well under UIC Class II permit.

Period 1992 to 1997

During this period, the ownership and operator of this injection facility was acquired by or transferred from Genesis Production to Uinta Oil and Gas of Roosevelt, Utah. The details of this transfer or name change are unknown to Envirotec.

March 1997

Uinta Oil and Gas was acquired by Coconino Oil & Gas Inc. and its wholly owned operating subsidiary, Enviro-Tech Well Services Inc. (name later changed to Envirotec, Inc.).

Following acquisition of Uinta Oil and Gas, the subject injection well and facilities, Envirotec, Inc. filed a Class V Permit application with The Utah Department of Environmental Quality, Division of Water Quality, Division of Solid and Hazardous Wastes. A copy of this application and technical report was provided to your offices in January 1999.

This Class V Permit application was approved 20 February 1998.

September 1998 – January 1999

A request for change of operator from Uinta Oil and Gas to Envirotec, Inc. effective April 18, 1999 and filed August 24, 1998, (copy enclosed) was approved by the State of Utah, Division of Oil, Gas and Mining as noted in a letter from Mr. Gil Hunt to Envirotec dated September 2, 1998 (copy enclosed).

A request for transfer of authority to inject from Uinta Oil and Gas to Envirotec dated April 18, 1998 (copy enclosed) was denied by the State of Utah, Division of Oil, Gas and Mining as noted in a letter from Mr. Gil Hunt to Uinta Oil and Gas dated September 23, 1998 (copy enclosed).

As a result of these decisions, Envirotec submitted an application for a Class II Permit for the subject well on October 6, 1998. This application was considered incomplete and was amended with a new application on 15 January 1999. This latter application was, as noted earlier, rejected for reasons stated in your letters of January 28 and February 17, 1999.

Comments Re Letter of Hunt to Envirotec dated September 2, 1998

The reasons given in this letter for the denial of the request for transfer of authority to inject were given as follows:

1 - "The Utah Division of Water Quality has issued a Class V Injection permit for the same well which would allow injection of similar fluids. **This action renders the Class II permit redundant and unnecessary.** (Emphasis added). Regulation of this facility by two State agencies would be awkward and difficult for all involved."

Comment While we *agree with that stated position, the Division of Water Quality has advised us that we do require a Class II permit in order to inject Class II fluids. The permit issued for Class V injection clearly states required procedures for the separate measurement and reporting of both Class II and Class V injected volumes.*

2 - "The well was recently plugged back without any notification to and/or approval from this Division for which the operator at that time, Uinta Oil & Gas, was issued a Notice of Violation. This does not show good operatorship by either company".

Comment *The plug back was a stipulation of requirements under the Class V permit issued by the Division of Water Quality. The actual well work was conducted in the presence of a representative of the Division of Water Quality.*

However, we accept the statement that a prudent operator would have also notified the Division of Oil, Gas and Mining – and will proceed accordingly.

3 - "The mixing or RCRA exempt wastes with non-exempt wastes, which are not allowable under a Class II injection permit, is probably best regulated under a Class V permit with the Division of Water Quality only".

Comment *We agree. All Class II fluid injection, monitoring, measuring and reporting in the subject well will be conducted in compliance with the Class V permit under the supervision and control of the Division of Water Quality.*

4 - "The well bore configuration, operation and thus the information originally approved by this Division for the Class II permit has substantially changed".

Comment *The only change that has been made in Blue Bench #13-1 since 1991 has been the following:*

A - the installation of a CIBP in the 7" casing at 7,810' and the placement of a cement plug above the CIBP with cement top at 7,650' as stipulated in the Class V permit for the subject well, and,
B - the installation of a new packer at 4,077'.

(Note enclosed Well Schematic.)

No other changes in well bore configuration, perforated intervals or operations have been made nor are any other changes of any nature contemplated. Envirotec will notify and obtain the prior approval of the Division of Water Quality of any future changes that may be required or desired as stipulated in the Class V permit.

February 1998 to Present

The Class V permit included several additional stipulations required prior to the issuance of an authorization to commence injection operations. These stipulations covered required abandonment and/or remediation of two wells within a two mile radius of the subject well for the protection of potable water zones.

Following discussions with the owner of the two wells, Barrett Resources Corporation of Denver, CO, in late 1998 and early 1999, Barrett agreed to permit Envirotec to workover and/or abandon these two wells pending resolution of their then active efforts to sell their wells and facilities in the Uinta Basin. Unfortunately, the sale of their Altamont-Bluebell properties to The Coastal Corporation was not finalized until late December 1999. Discussions with The Coastal Corporation began in early January 2000 These discussions have been delayed with the recent merger/acquisition of The Coastal Corporation by El Paso Energy.

On the positive side, El Paso/Coastal have assured us the matter involving these two wells will be satisfactorily resolved with Envirotec in the near future. When the required well workovers/abandonments are completed, Envirotec will be in compliance with these stipulations in the Class V permit, will then request authority to inject from the Division of Water Quality and, following receipt of authorization, will commence operations.

Conclusion

This review of the history of Blue Bench #13-1 applications and related events is not intended to rationalize the shortcomings and errors of previous Envirotec applications – for which we are responsible and for which we offer our apologies. Hopefully, this review will, in part, explain why and how the chain of events over the past 18 months transpired and brought us to this current "resubmittal" of our application for a Class II Injection permit.

The response to your questions and required items as outlined in your letter of February 17, 1999, per the subheadings under R649-5-2, Requirements for Class II Injection Wells of the Utah Administrative Code, includes the following data, comments and exhibits:

Subheading	Response
2.1	A listing of the surface owners within a half-mile radius of Blue Bench #13-1 is enclosed. No other operators are present within this half-mile radius.
2.2	The 7" production string was set at a depth of 9,234'. The primary cement job on the 7" casing resulted in a cement rise in the 7" X 8-1/2" hole annulus to a depth of 6,520'.In 1991, a secondary cement job through perforations at 4,100 placed a cement column in the 7" X 8-1/2" annulus from 4,100' to a depth of 1,850' to protect the fresh water aquifers lying above the injection zone. Cementing results and tops are based on logs (Cement Bond & Gamma Ray) submitted with the original Genesis application. Envirotec has neither seen nor is in possession of copies of these logs. Per the well reports and as shown on the well schematic, no cement exists in the 7" X 8-1/2" hole annulus between the depths of 6,520' and 4,100'. The primary and secondary cementing of this 7" casing string provides the required isolation of the injection zone from suprajacent fresh water aquifers lying either above or below the injection zone.
2.5	Yearly Mechanical Integrity Tests have been run in the subject well. The most recent test was run November 22, 1999 and consisted of a satisfactory 1,000 psi pressure test of the casing and the running of four temperature surveys at Time 0, +1 hour, +4 hours and +8 hours following the injection of approximately 450 barrels of 42 degree F. fluid. The temperature surveys indicated the injected fluid entered the formation at approximately 4,106' (the top set of perforations) with no fluid moving either around the packer into the 3-1/2" tubing X 7" casing annulus or up the hole behind the 7" casing in the 7" X 8-1/2" hole annulus.

The tests were witnessed and results approved by the Division of Water Quality. Copies of this survey are on file with the Division of Water Quality.

2.6 The source wells and source zones of produced water to be injected into the subject well will be from producing oil and gas wells in the Uinta Basin in the vicinity of the subject well. At this time, no "explicit" sources have been identified as potential users of this injection facility. When future user clients deliver water to be injected, representative samples of the water will be analyzed and reported in accordance with the Class II and/or Class V permits.

The maximum daily injection rate will be 7,500 BPD. This maximum rate will be less if the maximum allowable injection pressure of 775 psig is exceeded.

2.7 As noted above, analyses of waters to be injected will be run and reported. This facility has injected Class II produced waters from producing wells in the Uinta Basin for several years and has experienced no reservoir compatibility problems. With the source of the produced waters and the target zones for injection being the same formation – the Upper and Lower Green River Formations, reservoir compatibility problems are not expected in the future.

2.8 The average injection pressure will be a function of the rate of injection and could only be estimated at this time. However, the average and maximum injection pressure will be maintained at less than the maximum allowable injection pressure of 775 psig.

2.9 The proposed maximum injection pressure of 1,650 psig included in Envirotec's January 15, 1999 application was an **error.**

The maximum allowable injection pressure will be 775 psig. (The EPA approved a maximum allowable surface injection pressure of 1,128 psi in December, 1991.)

The reduction in the thickness of the upper confining zone as stated in Envirotec's January 15, 1999 application is also an **error**.

Envirotec is proposing no changes in the upper or lower confining zones in the subject well and regrets the errors made in the earlier application.

2.10 The geologic data documenting the nature and lateral extent of the injection zone and confining beds in the area of the injection well is included in the Permit Application and Technical Report for the Class V Injection Well previously submitted and approved.

As noted earlier, a copy of that application and technical report has been delivered to your office. As per your letter of January 28, 1999 (final paragraph), we hereby request you accept our submittal of that Permit Application and Technical Report to satisfy the requirements of this subheading.

2.12 Envirotec has no affidavit certifying the original Genesis application for a Class II permit was sent to all property owners and operators within a half-mile radius in 1991. Said owners and operators were notified of the change in operator in late 1998. When your office approves this application, a copy of the application will be sent to said owners if you so request.

We sincerely hope the above, including exhibits and enclosures, will meet your requirements for approving this application for a Class II Injection Permit for Blue Bench #13-1. We will be pleased to discuss further any item in this application and to provide any further data or back-up information you may require.

Thank you for your patience, understanding and cooperation.

Yours very truly,

Mr. Robert C. Pettit
President
Envirotec, Inc.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

DEC 16 1991

Ref: 8WM-DW

RECEIVED
DEC 19 1991
DIVISION OF
OIL GAS & MINING

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. David D. Wendt
Genesis Production Company
1600 Stout Street, Suite 720
Denver, CO 80202

RE: UNDERGROUND INJECTION CONTROL (UIC)
Authorization to Inject
Paiute-Walker #13-1
EPA Permit No. UT2582-03533
Duchesne County, Utah

Dear Mr. Wendt:

Thank you for the recently submitted information pertaining to the above-referenced injection well. The well Completion Report, well schematic, water analysis of the injection zones, injection zone fluid pore pressure survey, Cement Bond Log and demonstration of Mechanical Integrity have been reviewed and approved. Genesis has complied with all, except the step-rate test which will be run within six (6) months of the initial injection date, of the pertinent permit conditions (Part II, Section C. 1.) for the Paiute-Walker #13-1 salt water disposal well.

Pleased be advised that administrative approval has been granted for water injection into the above referenced well. Please also be aware of the Monitoring, Recordkeeping and Reporting requirements described in Part II, Section D of the permit and that the current maximum surface injection pressure is limited to 1128 psig. Please direct all correspondence to the attention of Chuck Williams at the above letterhead **(MAIL CODE 8WM-DW)** or contact Chuck at (303) 293-1550. Thank you for your continued cooperation.

Sincerely,

Max H. Dodson, Director
Water Management Division

cc: Mr. John Steuble
Direct Energy, Inc.

David D. Wendt
Genesis Production Company
Permit UT2582-03533

cc: Ferron Secakuku
Ute Indian Tribe

Charles Cameron
Bureau of Indian Affairs

Jerry Kenszka
Bureau of Land Management

Gilbert Hunt
State of Utah
Department of Natural Resources
Division of Oil, Gas, and Mining

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☐ OTHER: DISPOSAL
2. Name of Operator: VINTA OIL & GAS INC
3. Address and Telephone Number: PO BOX 1618 ROOSEVELT UT 84066 801-722-3000
4. Location of Well: Footage: CO, Sec., T., R., M.: NENE-13 3S 5W
5. Lease Designation and Serial Number:
6. If Indian, Allottee or Tribe Name: N/A
7. Unit Agreement Name: N/A
8. Well Name and Number: 13-1
9. API Well Number: 43-013-30971
10. Field and Pool, or Wildcat:
County: DUCHESNE
State: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- ☐ Abandon
- ☐ Repair Casing
- ☐ Change of Plans
- ☐ Convert to Injection
- ☐ Fracture Treat or Acidize
- ☐ Multiple Completion
- ☐ Other: CHANGE OF OPERATOR
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Recomplete
- ☐ Reperforate
- ☐ Vent or Flare
- ☐ Water Shut-Off

Approximate date work will start _____

SUBSEQUENT REPORT (Submit Original Form Only)

- ☐ Abandon *
- ☐ Repair Casing
- ☐ Change of Plans
- ☐ Convert to Injection
- ☐ Fracture Treat or Acidize
- ☐ Other _____
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Reperforate
- ☐ Vent or Flare
- ☐ Water Shut-Off

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

VINTA OIL & GAS INC RELINQUISHES OPERATORSHIP TO ENVIROTEC INC LOCONINO OIL & GAS INC EFFECTIVE 4-18-98

13. Name & Signature: VINTA OIL & GAS INC [signature] Title: PRES Date: 8-24-98

This space for State use only

(See Instructions on Reverse Side)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

TRANSFER OF AUTHORITY TO INJECT - UIC Form 5

Well name and number: Blue Bench Disposal 13-1
Field or Unit name: _____ API no. 43-013-3097
Well location: QQ NE NE section 13 township 3S range 5W county Duchesne
Effective Date of Transfer: 11-1-97

CURRENT OPERATOR
Transfer approved by:
Name Craig Phillips Company Vinta Oil & Gas
Signature _____ Address PO Box 1668
Title PRES
Date 11-98 eff. Phone 801, 722-3000
Comments:

NEW OPERATOR
Transfer approved by:
Name Jerry Moore Company Enviro-Tech of Colorado Oil & Gas Inc.
Signature _____ Address P.O. Box 2366-159
Title President Roswell, N.M. 88201
Date 11-18-98 Phone (505) 627-5553
Comments:

(State use only)
Transfer approved by _____ Title _____
Approval Date _____

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

Michael O. Leavitt
Governor
Lowell P. Braxton
Division Director

September 2, 1998

Enviro-Tech Well Services Inc.
dba Coconino Oil & Gas Inc.
P.O. Box 2366-159
Roswell, New Mexico 88201

Re: Transfer of Authority to Inject, Class II Permit, Blue Bench 13-1 Well, Section 13, Township 3 South, Range 5 West, Duchesne County, Utah

43-013-30971

Gentlemen:

The Division has accepted the change of operator from Uinta Oil & Gas to Enviro-Tech Well Services Inc. for the referenced well. We are also in receipt of a request for transfer of authority to inject for the above referenced well, from Uinta Oil & Gas to Enviro-Tech Well Services Inc. This letter is being sent to inform you that we are considering the denial of this request in light of the following facts and actions:

1. The Utah Division of Water Quality has issued a Class V injection permit for the same well which would allow injection of similar fluids. This action renders the Class II permit redundant and unnecessary. Regulation of this facility by two State agencies would be awkward and difficult for all involved.

2. The well was recently plugged back without any notification to and/or approval from this Division for which the operator at that time, Uinta Oil & Gas, was issued a Notice of Violation. This does not show good operatorship by either company.

3. The mixing of RCRA exempt wastes with non-exempt wastes, which are not allowable under a Class II injection permit, is probably best regulated under a Class V permit with the Division of Water Quality only.

4. The well bore configuration, operation and thus the information originally approved by this Division for the Class II permit has substantially changed.

If you would like to discuss this action and/or provide additional information which would be important in determining whether this permit should be transferred, please contact this office.

Sincerely,

Gil Hunt
Technical Services Manager

lwp
cc: Division of Water Quality
Uinta Oil and Gas
John Baza

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

Michael O. Leavitt
Governor

Lowell P. Braxton
Division Director

September 23, 1998

Uinta Oil & Gas
P.O. Box 1618
Roosevelt, Utah 84066

Re: Transfer of Authority to Inject, Class II Permit, Blue Bench 13-1 Well, Section 13, Township 3 South, Range 5 West, Duchesne County, Utah 43-013-30971

Gentlemen:

The Division is denying the request for transfer of authority to inject for the above referenced well. The reasons for this denial are outlined in our letter of September 2, 1998 (copy enclosed). As of this date the Division no longer considers this well and current operator to have a valid Class II injection permit and have removed it from our inventory of approved Class II injection wells.

If you have questions concerning this action, please contact this office.

Sincerely,

Gil Hunt
Technical Services Manager

lwp
Enclosure

cc: Enviro-Tech Well Services Inc.
Dan Jackson, U.S. EPA
Utah Division of Water Quality
John R. Baza

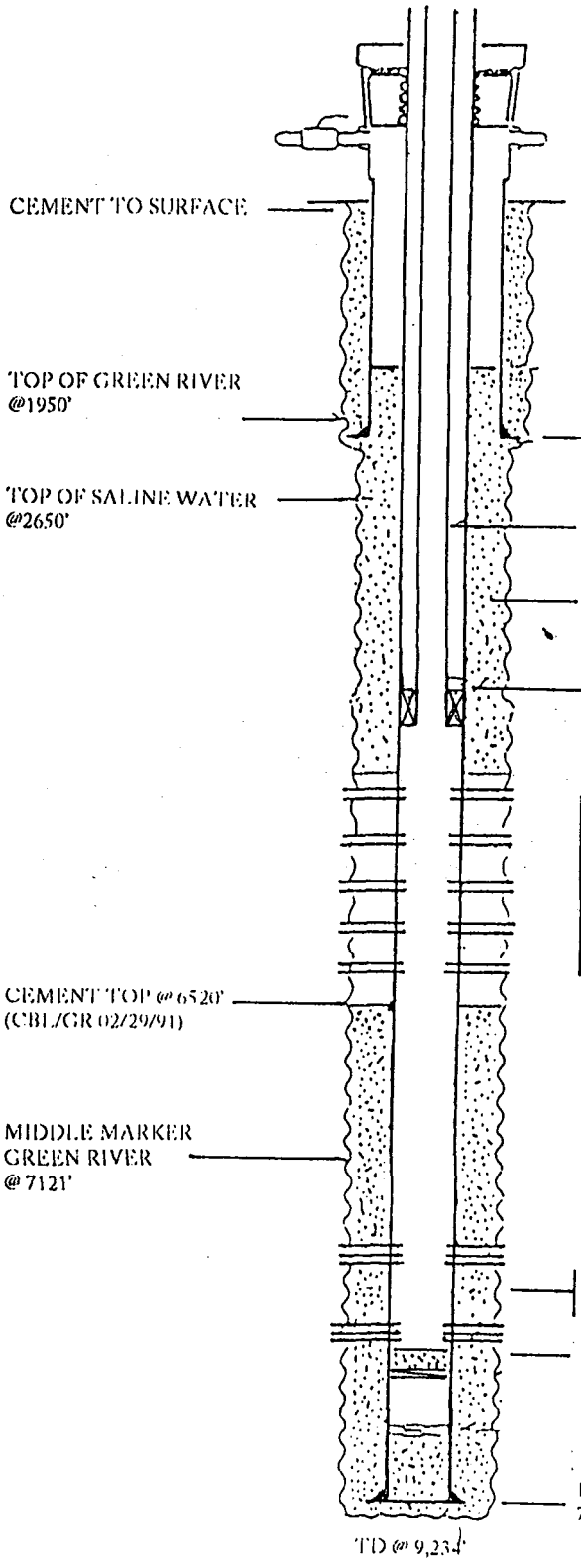
BLUE BENCH #13-1

BLUE BENCH DISPOSAL
NENE SEC 13 T3S - R5W
DUCHESNE CO., UTAH

DRAWN BY: DON DATE: 10 FEB 2000

WELLBORE SCHEMATIC

AS OF 10 FEBRUARY 2000



CEMENT TO SURFACE

TOP OF GREEN RIVER @1950'

TOP OF SALINE WATER @2650'

CEMENT TOP @ 6520' (CBL/GR 02/29/91)

MIDDLE MARKER GREEN RIVER @ 7121'

TD @ 9,234'

SURFACE CASING 9 5/8" @ 2,014'

3 1/2" INJECTION TUBING

CEMENT ISOLATION PLUG 1,950' 4,100'

PACKER @ 4,077'

INJECTION ZONE

TOTAL INTERVAL UPPER GREEN RIVER 4,100' 6,520'

PERFS @ 4,106' 4,121'

4,832' 4,847'

5,268' 5,283'

6,085' 6,090'

INJECTION ZONE

PERFS 7,231' - 7,257'

7,467' 7,528'

PBTD 7,650'

CIBP 7,810'

PRODUCTION CASING 7" @ 9,234'

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

February 17, 1999

Enviro-Tec, Inc.
1015 East 3900 South
Salt Lake City, Utah 84124

Re: Application for Class II Injection Permit, Blue Bench 13-1 Well, Section 13, Township 3 South, Range 5 West, Duchesne County, Utah

Gentlemen:

Thank you for the submitting the copy of CLASS V INJECTION WELL Permit Application and Technical Report under coversheet identifying the document as CLASS II INJECTION WELL PERMIT APPLICATION AND TECHNICAL REPORT, dated 2/16/99. I inventoried the information submitted to date by Enviro-Tec and conclude that additional informational requirements remain to be satisfied. The required information is detailed in the subheadings under R649-5-2, Requirements for Class II Injection Wells Including Water Disposal, Storage And Enhanced Recovery Wells, of the Utah Administrative Code. The following is my analysis of the completeness of Enviro-Tec's informational submittal to date:

Subheading	Commentary
2.0	Acceptable
2.1	The lately submitted plat satisfies the requirement for the injection well's location and that of all surrounding wells within a half mile radius, however, it lacks an explicit identification of the surface owners and other operators within that same radius.
2.2	Acceptable
2.3	The Acoustic Cement Bond Log already on file with the Department of Natural Resources Geological Library will satisfy part of this subheading. It does not, however,

document the cement bond for the cased interval above 6196', an interval targeted for injection according to the filed UIC Form 1. You will need to cement bond log the un-logged portion of the proposed injection interval (approximately 6196' TD upward to 3760' TD) and provide this Division with a copy.

2.4 Acceptable

2.5 The submitted Well Bore Schematic will satisfy the part of the subheading requiring a description but not that with respect to the proposed method for testing the casing before use of the well.

2.6 I find that Enviro-Tec has submitted no statement, specific to the Class II application, regarding the explicit source (listing of source wells and produced water zones) of the waters to be injected and an estimate of the volume to be injected daily.

2.7 I find that Enviro-Tec has submitted no standard laboratory analyses of the waters to be injected or a statement regarding its compatibility with the formation water.

2.8 The required proposed average injection pressure, **specific to the Class II application,** is not stated anywhere.

2.9 I find that Enviro-Tec has submitted geophysical data which supports of a finding that the proposed (1650 psig, UIC Form 1) maximum injection pressure **exceeds** that which may initiate fracturing (Item 7(e) of the CLASS V INJECTION WELL Technical Report dated March 23,1997 by Allin Proprietary - 1,230 psig @ 4100" TD; frac gradient of 0.75 psig per foot of burial depth) eventuating the behind-casing contamination of suprajacent fresh water aquifers. Enviro-Tec will need to present information to allay concerns that the likely fracturing will not engender vertical communication between the fresh and injection target zones. It is further noted that Enviro-Tec desires to reduce the thickness of the upper confining layer nearly by half.

2.10 I find that Enviro-Tec has submitted insufficient appropriate geological data to document the nature and lateral extent of the injection interval and confining beds in the area of the injection well. Relevant geologic cross sections and maps would help in this regard. You should provide workmanlike strike and dip stratigraphic cross sections through the subject well incorporating wire line logs, particularly density-neutron logs where available. The cross sections should extend at least 5 miles on either side of the subject well and provide correlations including, at a minimum, the confining layers, formation tops, the datum, the proposed injection zones, a locator map showing the lines of section and the identities of the wells by name and API number. They should be constructed using legible log reductions at a scale which is convenient for this use.

2.11 Not a factor at this location.

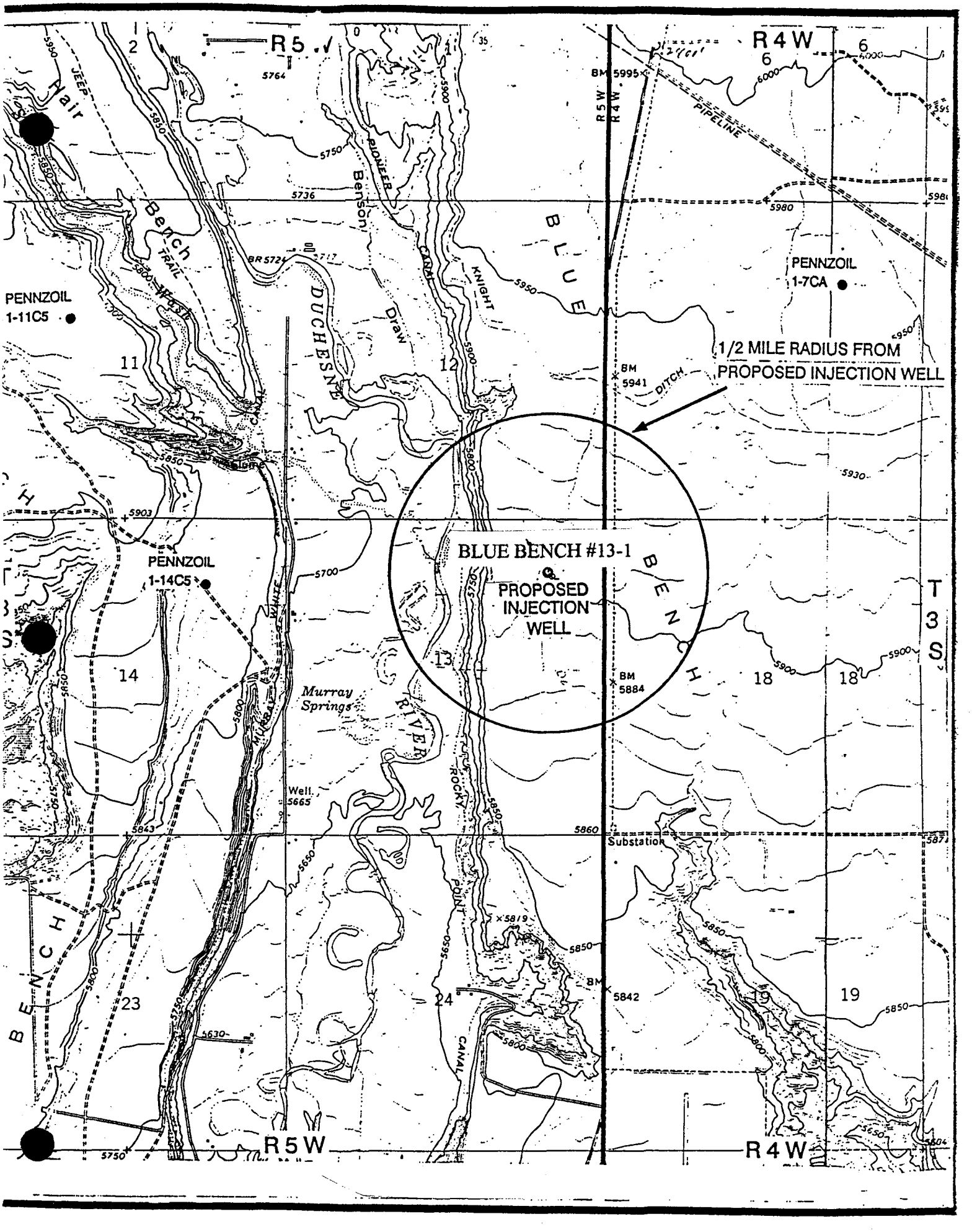
2.12 No affidavit is included certifying that a copy of the application has been provided to all operators, owners and surface owners (if such as these do exist) within a one-half mile radius of the proposed injection well.

We conclude that additional informational submissions are necessary until the specified subheadings are satisfied before we can proceed with a review of arguments for issuing a Class II Injection Well permit. If additional information is needed please feel free to contact me at (801) 538-5337.

Sincerely,

Christopher J. Kierst

Christopher J. Kierst
Reclamation Specialist III



R5W
R4W
T3S
PENNZOIL
1-11C5
PENNZOIL
1-7CA
PENNZOIL
1-14C5
1/2 MILE RADIUS FROM
PROPOSED INJECTION WELL
BLUE BENCH #13-1
PROPOSED
INJECTION
WELL
BLUE BENCH
Hair Bench
Benson Draw
DUCHESNE
RIVER
Murray Springs
Well
Substation
PIPELINE
DITCH
KNIGHT
PIONEER
CANAL
ROCKY POINT
MURRAY WHITE
JEEP TRAIL
BM 5995
BM 5941
BM 5884
BM 5842

Names and Addresses of Surface Owners Within One-half Mile Radius Of Blue Bench #13-1

(As of August 1998)

Capital Gardens Inc.
P.O. Box 9356
Salt Lake City, UT

Burton O. Parker
6416 E. Washington
Las Vegas, NV 8911

Rex N. Worthen
2294 East 2700 South
Salt Lake City, UT

Q. Perry Hislop
660 South 200 East Suite 306
Salt Lake City, UT 84111

Greenwood Holding Company
Old River Road
Duchesne, UT 84021

Verl Ray & Dorothy Ivie
P.O. Box 746
Duchesne, UT 84021

Wayne and Tamara Garner
P.O.Box 535
Duchesne, UT 84021

J. T. Morrison
P.O. Box 27
Duchesne, UT 84021

Kenneth L. Wilkerson
Star Route, Box 37A
Duchesne, UT 84021

Burton Beacham
General Delivery
Duchesne, UT 84021

Wright Ranch Company
457 E. 33 S.
Salt Lake City, UT 84111

Benjamin D. Mitchell
General Delivery – E. Old Hwy. 40
Duchesne, UT 84021

Stan E. & Suzzann Young
P.O. Box 723
Duchesne, UT 84021

Brad Taylor
HC 63, Box 39
Duchesne, UT 84021

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SURETY BOND - FORM 4-A

#GB0367

RECEIVED
MAR 17 1998
DIV. OF OIL, GAS & MINING

KNOW ALL MEN BY THESE PRESENTS: *GAS, INC.

That we ENVIRO-TECH WELL SERVICE, INC. d/b/a COCONINO OIL &* (operator name) as Principal,

and CONTRACTORS BONDING AND INSURANCE COMPANY (surety name) as Surety, duly authorized and qualified to do business in the State of Utah, are held and firmly bound unto the State of Utah in the sum of:

TWENTY THOUSAND AND 00/100 dollars ($20,000.00)

lawful money of the United States, payable to the Director of the Division of Oil, Gas and Mining, as agent of the State of Utah, for the use and benefit of the State of Utah for the faithful payment of which we bind ourselves, our heirs, executors, administrators and successors, jointly and severally by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, WHEREAS, the principal is or will be engaged in drilling, redrilling, deepening, repairing, operating, and plugging and abandonment a well or wells and restoring the well site or sites in the State of Utah for the purposes of oil or gas production and/or the injection and disposal of fluids in connection therewith for the following described land or well:

___ Blanket Bond: To cover all wells drilled in the State of Utah

_X_ Individual Bond: Well No. BLUE BENCH DISPOSAL 13-1 43-013-30971

Section 13 Township 3 SOUTH Range 5 WEST

DUCHESNE County, Utah

NOW, THEREFORE, if the above bounden principal shall comply with all the provisions of the laws of the State of Utah and the rules, orders and requirements of the Board of Oil, Gas and Mining of the State of Utah, including, but not limited to the proper plugging and abandonment of wells and well site restoration, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

IN TESTIMONY WHEREOF, said Principal has hereunto subscribed his or their names or has caused this instrument to be signed by its duly authorized officers and its corporate seal to be affixed this

20th day of NOVEMBER, 1997.

(Seal)

ENVIRO-TECH WELL SERVICES INC. d/b/a COCONINO OIL & GAS, INC.
Principal

By [signature] - CEO
Name and Title

IN TESTIMONY WHEREOF, said Surety has caused this instrument to be signed by its duly authorized officers and its corporate seal to be affixed this 20th day of NOVEMBER, 19 97.

(Seal)

CONTRACTORS BONDING AND INSURANCE COMPANY
Surety (Attach Power of Attorney)

By [signature]
Name and Title
Susan A. Sallada, Attorney-in-Fact
501 OFFICE CENTER DRIVE
Surety's Mailing Address
FT WASHINGTON PA 19034

(3/89)

D. O. " SWEDE " NELSON

INTERNATIONAL CONSULTANT

76 ALMENDRAL AVENUE
ATHERTON, CA 94027
USA

650

TEL 415•364•7273
FAX 415•367•0365

N PROPRIETARY
Mineral & Business Consulting
pro@sisna.com
ID L. ALLIN, Owner
oleum Geologist #2934, A.A.P.G.
eet
03
VOX (801) 521-0215
FAX (801) [redacted]

S35-0077

CLASS II INJECTION WELL
PERMIT APPLICATION AND TECHNICAL SUPPORT

Submitted to

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

By

Envirotec, Inc.

BLUE BENCH DISPOSAL

BLUE BENCH #13-1

February 15, 2000

MICROFICHE

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Envirotec, Inc.
ADDRESS 1015 East 3900 South
Salt Lake City, UT
84124

Well name and number: Blue Bench #13-1

Field or Unit name: Altamont Lease no. _____

Well location: QQ NENE section 13 township 3S range 5W county Duchesne

Is this application for expansion of an existing project? . . Yes [ ] No [X]

Will the proposed well be used for: Enhanced Recovery? . . Yes [ ] No [X]
Disposal? . . . . . Yes [X] No [ ]
Storage? . . . . . Yes [ ] No [X]

Is this application for a new well to be drilled? . . . . . Yes [ ] No [X]

If this application is for an existing well,
has a casing test been performed on the well? . . . . . Yes [X] No [ ]
Date of test: 8-14-98
API number: 43-013-30971

Proposed injection interval: from 4106' to 7528'

Proposed maximum injection: rate 7,500 BPD pressure 775 (psig

Proposed injection zone contains [X] oil, [X] gas, and/or [ ] fresh water within ¼ mile of the well.

IMPORTANT: Additional information as required by R649-5-2 should accompany this form.

List of Attachments: Memo with exhibits.

I certify that this report is true and complete to the best of my knowledge.

Name Robert C. Pettit
Title President
Phone No. (801) 281-3102

Signature _____
Date 15 February 2000

(State use only)
Application approved by _____ Title _____
Approval Date _____

Comments:

15 February 2000

State of Utah
Department of Natural Resources
Division of oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

Re: Application for Class II Injection Permit, Blue Bench 13-1 Well
Township 3 South, Range 5 West, Duchesne County, Utah

Gentlemen:

Thank you for your letters of January 28 and February 17, 1999 relative to the above noted application submitted by Envirotec, Inc. dated 1/15/99.

Your comments regarding the lack of completeness of Envirotec's submittals in support of this Class II application are totally justified. This memo and attachments will provide the additional informational requirements, corrections to several errors contained in the prior applications and explanations of events and conditions not previously submitted.

History and Background

December 1991

Genesis Production Company of Denver, Colorado was granted approval by the US EPA, Region VIII, for Class II water injection into the above referenced well, then known as Paiute-Walker #13-1. (Copy of letter dated 16 December, 1991 is enclosed).

As noted in the EPA letter, the Well Completion Report, well schematic, water analysis of the injection zones, injection zone fluid pore pressure survey, Cement Bond Log and demonstration of Mechanical Integrity were reviewed and approved by the EPA. Envirotec does not have copies of these records; however, the originals and/or copies are undoubtedly on file with either or both the EPA and/or your offices.

July 1992

Genesis Production Company filed an application for an additional permit to allow injection of Class I nonhazardous fluids into the referenced well – now known as Blue Bench #13-1.

The final status of this application is unknown to Envirotec.

January 1995

The State of Utah, Division of Oil, Gas and Mining issued authority to inject Class II fluid into the subject well under UIC Class II permit.

Period 1992 to 1997

During this period, the ownership and operator of this injection facility was acquired by or transferred from Genesis Production to Uinta Oil and Gas of Roosevelt, Utah. The details of this transfer or name change are unknown to Envirotec.

March 1997

Uinta Oil and Gas was acquired by Coconino Oil & Gas Inc. and its wholly owned operating subsidiary, Enviro-Tech Well Services Inc. (name later changed to Envirotec, Inc.).

Following acquisition of Uinta Oil and Gas, the subject injection well and facilities, Envirotec, Inc. filed a Class V Permit application with The Utah Department of Environmental Quality, Division of Water Quality, Division of Solid and Hazardous Wastes. A copy of this application and technical report was provided to your offices in January 1999.

This Class V Permit application was approved 20 February 1998.

September 1998 – January 1999

A request for change of operator from Uinta Oil and Gas to Envirotec, Inc. effective April 18, 1999 and filed August 24, 1998, (copy enclosed) was approved by the State of Utah, Division of Oil, Gas and Mining as noted in a letter from Mr. Gil Hunt to Envirotec dated September 2, 1998 (copy enclosed).

A request for transfer of authority to inject from Uinta Oil and Gas to Envirotec dated April 18, 1998 (copy enclosed) was denied by the State of Utah, Division of Oil, Gas and Mining as noted in a letter from Mr. Gil Hunt to Uinta Oil and Gas dated September 23, 1998 (copy enclosed).

As a result of these decisions, Envirotec submitted an application for a Class II Permit for the subject well on October 6, 1998. This application was considered incomplete and was amended with a new application on 15 January 1999. This latter application was, as noted earlier, rejected for reasons stated in your letters of January 28 and February 17, 1999.

Comments Re Letter of Hunt to Envirotec dated September 2, 1998

The reasons given in this letter for the denial of the request for transfer of authority to inject were given as follows:

1 - "The Utah Division of Water Quality has issued a Class V Injection permit for the same well which would allow injection of similar fluids. **This action renders the Class II permit redundant and unnecessary.** (Emphasis added). Regulation of this facility by two State agencies would be awkward and difficult for all involved."

Comment While we *agree with that stated position, the Division of Water Quality has advised us that we do require a Class II permit in order to inject Class II fluids. The permit issued for Class V injection clearly states required procedures for the separate measurement and reporting of both Class II and Class V injected volumes.*

2 - "The well was recently plugged back without any notification to and/or approval from this Division for which the operator at that time, Uinta Oil & Gas, was issued a Notice of Violation. This does not show good operatorship by either company".

Comment *The plug back was a stipulation of requirements under the Class V permit issued by the Division of Water Quality. The actual well work was conducted in the presence of a representative of the Division of Water Quality.*

However, we accept the statement that a prudent operator would have also notified the Division of Oil, Gas and Mining – and will proceed accordingly.

3 - "The mixing or RCRA exempt wastes with non-exempt wastes, which are not allowable under a Class II injection permit, is probably best regulated under a Class V permit with the Division of Water Quality only".

Comment *We agree. All Class II fluid injection, monitoring, measuring and reporting in the subject well will be conducted in compliance with the Class V permit under the supervision and control of the Division of Water Quality.*

4 - "The well bore configuration, operation and thus the information originally approved by this Division for the Class II permit has substantially changed".

Comment *The only change that has been made in Blue Bench #13-1 since 1991 has been the following:*

A - the installation of a CIBP in the 7" casing at 7,810' and the placement of a cement plug above the CIBP with cement top at 7,650' as stipulated in the Class V permit for the subject well, and,
B - the installation of a new packer at 4,077'.

(Note enclosed Well Schematic.)

No other changes in well bore configuration, perforated intervals or operations have been made nor are any other changes of any nature contemplated. Envirotec will notify and obtain the prior approval of the Division of Water Quality of any future changes that may be required or desired as stipulated in the Class V permit.

February 1998 to Present

The Class V permit included several additional stipulations required prior to the issuance of an authorization to commence injection operations. These stipulations covered required abandonment and/or remediation of two wells within a two mile radius of the subject well for the protection of potable water zones.

Following discussions with the owner of the two wells, Barrett Resources Corporation of Denver, CO, in late 1998 and early 1999, Barrett agreed to permit Envirotec to workover and/or abandon these two wells pending resolution of their then active efforts to sell their wells and facilities in the Uinta Basin. Unfortunately, the sale of their Altamont-Bluebell properties to The Coastal Corporation was not finalized until late December 1999. Discussions with The Coastal Corporation began in early January 2000 These discussions have been delayed with the recent merger/acquisition of The Coastal Corporation by El Paso Energy.

On the positive side, El Paso/Coastal have assured us the matter involving these two wells will be satisfactorily resolved with Envirotec in the near future. When the required well workovers/abandonments are completed, Envirotec will be in compliance with these stipulations in the Class V permit, will then request authority to inject from the Division of Water Quality and, following receipt of authorization, will commence operations.

Conclusion

This review of the history of Blue Bench #13-1 applications and related events is not intended to rationalize the shortcomings and errors of previous Envirotec applications – for which we are responsible and for which we offer our apologies. Hopefully, this review will, in part, explain why and how the chain of events over the past 18 months transpired and brought us to this current "resubmittal" of our application for a Class II Injection permit.

The response to your questions and required items as outlined in your letter of February 17, 1999, per the subheadings under R649-5-2, Requirements for Class II Injection Wells of the Utah Administrative Code, includes the following data, comments and exhibits:

Subheading	Response
2.1	A listing of the surface owners within a half-mile radius of Blue Bench #13-1 is enclosed. No other operators are present within this half-mile radius.
2.2	The 7" production string was set at a depth of 9,234'. The primary cement job on the 7" casing resulted in a cement rise in the 7" X 8-1/2" hole annulus to a depth of 6,520'.In 1991, a secondary cement job through perforations at 4,100 placed a cement column in the 7" X 8-1/2" annulus from 4,100' to a depth of 1,850' to protect the fresh water aquifers lying above the injection zone. Cementing results and tops are based on logs (Cement Bond & Gamma Ray) submitted with the original Genesis application. Envirotec has neither seen nor is in possession of copies of these logs. Per the well reports and as shown on the well schematic, no cement exists in the 7" X 8-1/2" hole annulus between the depths of 6,520' and 4,100'. The primary and secondary cementing of this 7" casing string provides the required isolation of the injection zone from suprajacent fresh water aquifers lying either above or below the injection zone.
2.5	Yearly Mechanical Integrity Tests have been run in the subject well. The most recent test was run November 22, 1999 and consisted of a satisfactory 1,000 psi pressure test of the casing and the running of four temperature surveys at Time 0, +1 hour, +4 hours and +8 hours following the injection of approximately 450 barrels of 42 degree F. fluid. The temperature surveys indicated the injected fluid entered the formation at approximately 4,106' (the top set of perforations) with no fluid moving either around the packer into the 3-1/2" tubing X 7" casing annulus or up the hole behind the 7" casing in the 7" X 8-1/2" hole annulus.

The tests were witnessed and results approved by the Division of Water Quality. Copies of this survey are on file with the Division of Water Quality.

2.6 The source wells and source zones of produced water to be injected into the subject well will be from producing oil and gas wells in the Uinta Basin in the vicinity of the subject well. At this time, no "explicit" sources have been identified as potential users of this injection facility. When future user clients deliver water to be injected, representative samples of the water will be analyzed and reported in accordance with the Class II and/or Class V permits.

OK - will accept!

The maximum daily injection rate will be 7,500 BPD. This maximum rate will be less if the maximum allowable injection pressure of 775 psig is exceeded.

2.7 As noted above, analyses of waters to be injected will be run and reported. This facility has injected Class II produced waters from producing wells in the Uinta Basin for several years and has experienced no reservoir compatibility problems. With the source of the produced waters and the target zones for injection being the same formation – the Upper and Lower Green River Formations, reservoir compatibility problems are not expected in the future.

Can we waive 2.7? OK accept

2.8 The average injection pressure will be a function of the rate of injection and could only be estimated at this time. However, the average and maximum injection pressure will be maintained at less than the maximum allowable injection pressure of 775 psig.

OK

2.9 The proposed maximum injection pressure of 1,650 psig included in Envirotec's January 15, 1999 application was an **error.**

The maximum allowable injection pressure will be 775 psig. (The EPA approved a maximum allowable surface injection pressure of 1,128 psi in December, 1991.)

Need step rate test to limit inj # from fracing

The reduction in the thickness of the upper confining zone as stated in Envirotec's January 15, 1999 application is also an **error.**

Envirotec is proposing no changes in the upper or lower confining zones in the subject well and regrets the errors made in the earlier application.

2.10 The geologic data documenting the nature and lateral extent of the injection zone and confining beds in the area of the injection well is included in the Permit Application and Technical Report for the Class V Injection Well previously submitted and approved by DEQ

As noted earlier, a copy of that application and technical report has been delivered to your office. As per your letter of January 28, 1999 (final paragraph), we hereby request you accept our submittal of that Permit Application and Technical Report to satisfy the requirements of this subheading.

2.12 Envirotec has no affidavit certifying the original Genesis application for a Class II permit was sent to all property owners and operators within a half-mile radius in 1991. Said owners and operators were notified of the change in operator in late 1998. When your office approves this application, a copy of the application will be sent to said owners if you so request.

We sincerely hope the above, including exhibits and enclosures, will meet your requirements for approving this application for a Class II Injection Permit for Blue Bench #13-1. We will be pleased to discuss further any item in this application and to provide any further data or back-up information you may require.

Thank you for your patience, understanding and cooperation.

Yours very truly,

Robert C. Pettit

Mr. Robert C. Pettit
President
Envirotec, Inc.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

DEC 16 1991

Ref: 8WM-DW

RECEIVED
DEC 19 1991
DIVISION OF
OIL GAS & MINING

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. David D. Wendt
Genesis Production Company
1600 Stout Street, Suite 720
Denver, CO 80202

RE: UNDERGROUND INJECTION CONTROL (UIC)
Authorization to Inject
Paiute-Walker #13-1
EPA Permit No. UT2582-03533
Duchesne County, Utah

Dear Mr. Wendt:

Thank you for the recently submitted information pertaining to the above-referenced injection well. The well Completion Report, well schematic, water analysis of the injection zones, injection zone fluid pore pressure survey, Cement Bond Log and demonstration of Mechanical Integrity have been reviewed and approved. Genesis has complied with all, except the step-rate test which will be run within six (6) months of the initial injection date, of the pertinent permit conditions (Part II, Section C. 1.) for the Paiute-Walker #13-1 salt water disposal well.

Pleased be advised that administrative approval has been granted for water injection into the above referenced well. Please also be aware of the Monitoring, Recordkeeping and Reporting requirements described in Part II, Section D of the permit and that the current maximum surface injection pressure is limited to 1128 psig. Please direct all correspondence to the attention of Chuck Williams at the above letterhead **(MAIL CODE 8WM-DW)** or contact Chuck at (303) 293-1550. Thank you for your continued cooperation.

Sincerely,

Max H. Dodson, Director
Water Management Division

cc: Mr. John Steuble
Direct Energy, Inc.

David D. Wendt
Genesis Production Company
Permit UT2582-03533

cc: Ferron Secakuku
Ute Indian Tribe

Charles Cameron
Bureau of Indian Affairs

Jerry Kenszka
Bureau of Land Management

Gilbert Hunt
State of Utah
Department of Natural Resources
Division of Oil, Gas, and Mining

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☐ OTHER: DISPOSAL
2. Name of Operator: VINTA OIL & GAS INC
3. Address and Telephone Number: PO BOX 1618 ROOSEVELT UT 84066 801-722-3000
4. Location of Well: Footage: CO, Sec., T., R., M.: NENE-13 3S 5W
5. Lease Designation and Serial Number:
6. If Indian, Allottee or Tribe Name: N/A
7. Unit Agreement Name: N/A
8. Well Name and Number: 13-1
9. API Well Number: 43-013-30971
10. Field and Pool, or Wildcat:
County: DUCHESNE
State: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- ☐ Abandon
- ☐ Repair Casing
- ☐ Change of Plans
- ☐ Convert to Injection
- ☐ Fracture Treat or Acidize
- ☐ Multiple Completion
- ☐ Other: CHANGE OF OPERATOR
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Recomplete
- ☐ Reperforate
- ☐ Vent or Flare
- ☐ Water Shut-Off

Approximate date work will start: _____

SUBSEQUENT REPORT (Submit Original Form Only)

- ☐ Abandon *
- ☐ Repair Casing
- ☐ Change of Plans
- ☐ Convert to Injection
- ☐ Fracture Treat or Acidize
- ☐ Other _____
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Reperforate
- ☐ Vent or Flare
- ☐ Water Shut-Off

Date of work completion: _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

VINTA OIL & GAS INC RELINQUISHES OPERATORSHIP TO ENVIROTEC INC COCONINO OIL & GAS INC EFFECTIVE 4-13-98

13. Name & Signature: VINTA OIL & GAS INC [signature] Title: PRES Date: 8-24-98

This space for State use only

(See Instructions on Reverse Side)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: Blue Bench Disposal 13-1
Field or Unit name: _____ API no. 43-013-3097
Well location: QQ NE NE section 13 township 3S range 5W county Duchesne
Effective Date of Transfer: 11-1-97

CURRENT OPERATOR
Transfer approved by:
Name Craig Phillips Company Vinta Oil & Gas
Signature _____ Address PO Box 1668
Title Pres
Date 10-98 eff. Phone (801) 722-3000
Comments:

NEW OPERATOR
Transfer approved by:
Name Delay Moore Company Enviro-Tech Consulting Inc.
Signature _____ Address P.O. Box 2366-159
Title President Roswell, N.M. 88201
Date 4-10-98 Phone (505) 627-5553
Comments:

(State use only)
Transfer approved by _____ Title _____
Approval Date _____

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

Michael O. Leavitt
Governor
Lowell P. Braxton
Division Director

September 2, 1998

Enviro-Tech Well Services Inc.
dba Coconino Oil & Gas Inc.
P.O. Box 2366-159
Roswell, New Mexico 88201

Re: Transfer of Authority to Inject, Class II Permit, Blue Bench 13-1 Well, Section 13, Township 3 South, Range 5 West, Duchesne County, Utah

43-013-30971

Gentlemen:

The Division has accepted the change of operator from Uinta Oil & Gas to Enviro-Tech Well Services Inc. for the referenced well. We are also in receipt of a request for transfer of authority to inject for the above referenced well, from Uinta Oil & Gas to Enviro-Tech Well Services Inc. This letter is being sent to inform you that we are considering the denial of this request in light of the following facts and actions:

1. The Utah Division of Water Quality has issued a Class V injection permit for the same well which would allow injection of similar fluids. This action renders the Class II permit redundant and unnecessary. Regulation of this facility by two State agencies would be awkward and difficult for all involved.

2. The well was recently plugged back without any notification to and/or approval from this Division for which the operator at that time, Uinta Oil & Gas, was issued a Notice of Violation. This does not show good operatorship by either company.

3. The mixing of RCRA exempt wastes with non-exempt wastes, which are not allowable under a Class II injection permit, is probably best regulated under a Class V permit with the Division of Water Quality only.

4. The well bore configuration, operation and thus the information originally approved by this Division for the Class II permit has substantially changed.

If you would like to discuss this action and/or provide additional information which would be important in determining whether this permit should be transferred, please contact this office.

Sincerely,

Gil Hunt
Technical Services Manager

lwp
cc: Division of Water Quality
Uinta Oil and Gas
John Baza

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

Michael O. Leavitt
Governor
Lowell P. Braxton
Division Director

September 23, 1998

Uinta Oil & Gas
P.O. Box 1618
Roosevelt, Utah 84066

Re: Transfer of Authority to Inject, Class II Permit, Blue Bench 13-1 Well, Section 13, Township 3 South, Range 5 West, Duchesne County, Utah 43-013-30971

Gentlemen:

The Division is denying the request for transfer of authority to inject for the above referenced well. The reasons for this denial are outlined in our letter of September 2, 1998 (copy enclosed). As of this date the Division no longer considers this well and current operator to have a valid Class II injection permit and have removed it from our inventory of approved Class II injection wells.

If you have questions concerning this action, please contact this office.

Sincerely,

Gil Hunt
Technical Services Manager

lwp
Enclosure

cc: Enviro-Tech Well Services Inc.
Dan Jackson, U.S. EPA
Utah Division of Water Quality
John R. Baza

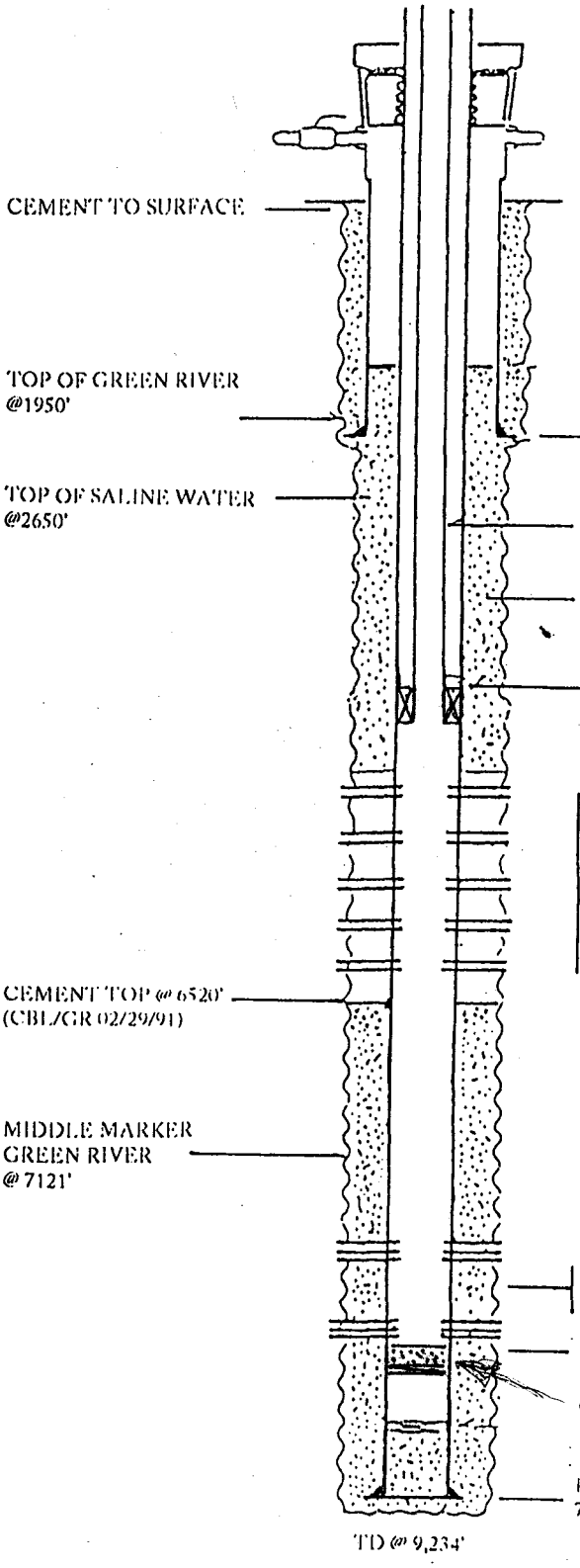
BLUE BENCH #13-1

BLUE BENCH DISPOSAL
NENE SEC 13 T3S - R5W
DUCHESNE CO., UTAH

DRAWN BY: DON DATE: 10 FEB 2000

WELLBORE SCHEMATIC

AS OF 10 FEBRUARY 2000



SURFACE CASING
9 5/8" @ 2,014'

3 1/2" INJECTION TUBING

CEMENT ISOLATION PLUG 1,950' 4,100'

PACKER @ 4,077'

INJECTION ZONE

(TOTAL INTERVAL UPPER GREEN RIVER
4,100' 6,520'

PERFS @ 4,106' 4,121'

4,832' 4,847'

5,268' 5,283'

6,085' 6,090'

INJECTION ZONE

PERFS 7,231' - 7,257'

7,467' 7,528'

PBTD 7,650'

CIBP 7,810'

PRODUCTION CASING
7" @ 9,234'

Which zone is the one which lost circulation.

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

February 17, 1999

Enviro-Tec, Inc.
1015 East 3900 South
Salt Lake City, Utah 84124

Re: Application for Class II Injection Permit, Blue Bench 13-1 Well, Section 13, Township 3 South, Range 5 West, Duchesne County, Utah

Gentlemen:

Thank you for the submitting the copy of CLASS V INJECTION WELL Permit Application and Technical Report under coversheet identifying the document as CLASS II INJECTION WELL PERMIT APPLICATION AND TECHNICAL REPORT, dated 2/16/99. I inventoried the information submitted to date by Enviro-Tec and conclude that additional informational requirements remain to be satisfied. The required information is detailed in the subheadings under R649-5-2, Requirements for Class II Injection Wells Including Water Disposal, Storage And Enhanced Recovery Wells, of the Utah Administrative Code. The following is my analysis of the completeness of Enviro-Tec's informational submittal to date:

Subheading	Commentary
2.0	Acceptable
2.1	The lately submitted plat satisfies the requirement for the injection well's location and that of all surrounding wells within a half mile radius, however, it lacks an explicit identification of the surface owners and other operators within that same radius.
2.2	Acceptable
2.3	The Acoustic Cement Bond Log already on file with the Department of Natural Resources Geological Library will satisfy part of this subheading. It does not, however,

document the cement bond for the cased interval above 6196', an interval targeted for injection according to the filed UIC Form 1. You will need to cement bond log the un-logged portion of the proposed injection interval (approximately 6196' TD upward to 3760' TD) and provide this Division with a copy.

2.4 Acceptable

2.5 The submitted Well Bore Schematic will satisfy the part of the subheading requiring a description but not that with respect to the proposed method for testing the casing before use of the well.

2.6 I find that Enviro-Tec has submitted no statement, specific to the Class II application, regarding the explicit source (listing of source wells and produced water zones) of the waters to be injected and an estimate of the volume to be injected daily.

2.7 I find that Enviro-Tec has submitted no standard laboratory analyses of the waters to be injected or a statement regarding its compatibility with the formation water.

2.8 The required proposed average injection pressure, **specific to the Class II application**, is not stated anywhere.

2.9 I find that Enviro-Tec has submitted geophysical data which supports of a finding that the proposed (1650 psig, UIC Form 1) maximum injection pressure **exceeds** that which may initiate fracturing (Item 7(e) of the CLASS V INJECTION WELL Technical Report dated March 23,1997 by Allin Proprietary - 1,230 psig @ 4100" TD; frac gradient of 0.75 psig per foot of burial depth) eventuating the behind-casing contamination of suprajacent fresh water aquifers. Enviro-Tec will need to present information to allay concerns that the likely fracturing will not engender vertical communication between the fresh and injection target zones. It is further noted that Enviro-Tec desires to reduce the thickness of the upper confining layer nearly by half.

2.10 I find that Enviro-Tec has submitted insufficient appropriate geological data to document the nature and lateral extent of the injection interval and confining beds in the area of the injection well. Relevant geologic cross sections and maps would help in this regard. You should provide workmanlike strike and dip stratigraphic cross sections through the subject well incorporating wire line logs, particularly density-neutron logs where available. The cross sections should extend at least 5 miles on either side of the subject well and provide correlations including, at a minimum, the confining layers, formation tops, the datum, the proposed injection zones, a locator map showing the lines of section and the identities of the wells by name and API number. They should be constructed using legible log reductions at a scale which is convenient for this use.

2.11 Not a factor at this location.

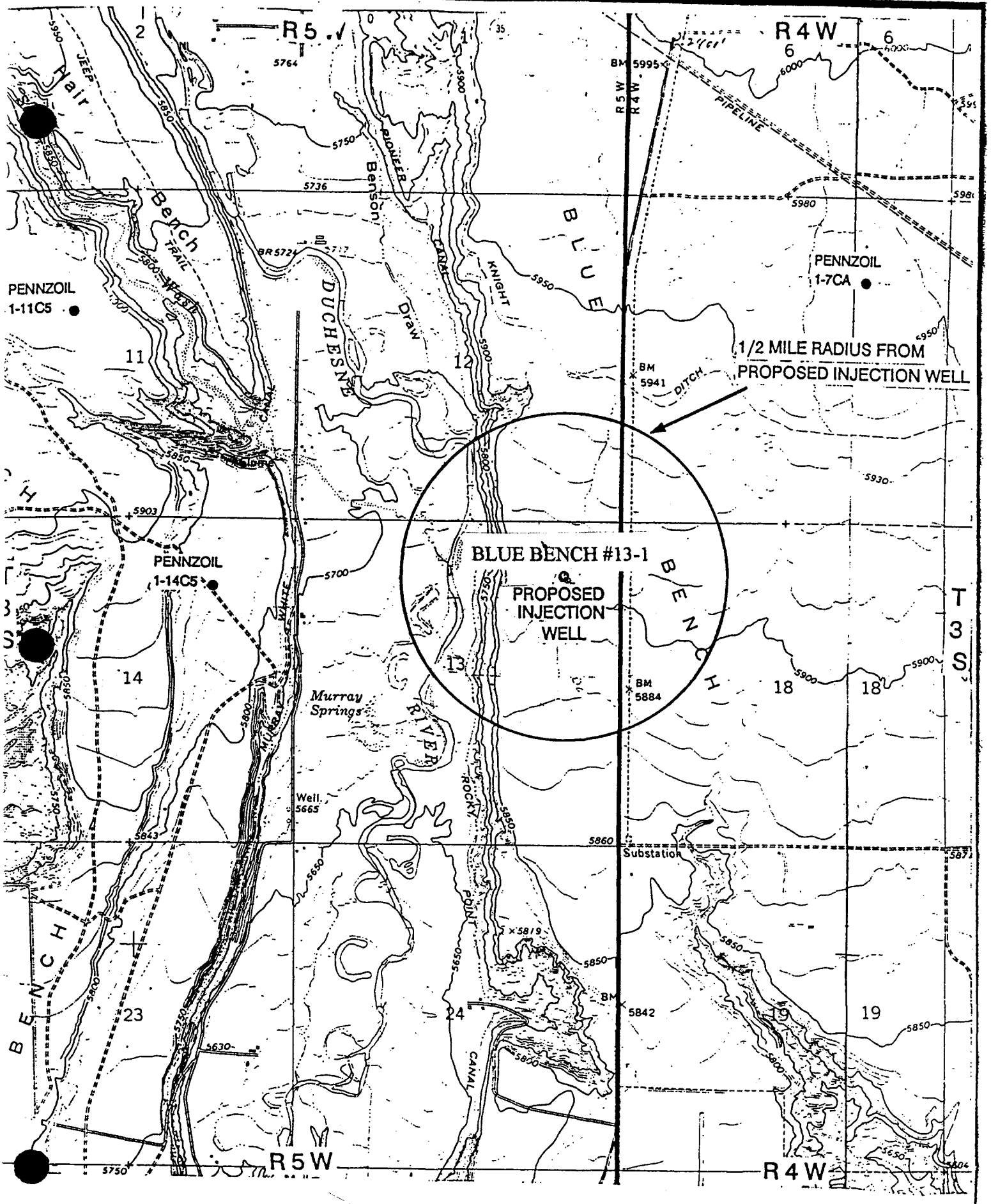
2.12 No affidavit is included certifying that a copy of the application has been provided to all operators, owners and surface owners (if such as these do exist) within a one-half mile radius of the proposed injection well.

We conclude that additional informational submissions are necessary until the specified subheadings are satisfied before we can proceed with a review of arguments for issuing a Class II Injection Well permit. If additional information is needed please feel free to contact me at (801) 538-5337.

Sincerely,

Christopher J. Kierst

Christopher J. Kierst
Reclamation Specialist III



R5W
R4W
T3S
PENNZOIL
1-11C5
PENNZOIL
1-7CA
PENNZOIL
1-14C5
1/2 MILE RADIUS FROM
PROPOSED INJECTION WELL
BLUE BENCH #13-1
PROPOSED
INJECTION
WELL
BLUE BENCH
Hair Bench
Benson Draw
DUCHESNE
RIVER
Murray Springs
Well
5665
Substation
PIPELINE
DITCH
KNIGHT
CANAL
ROCKY POINT
WHITE
MURRAY
JEEP TRAIL
BM 5995
BM 5941
BM 5884
BM 5842
5764
5736
5903
5843
5860
5819
5630
5750
5800
5850
5900
5950
5930
5980
6000

Names and Addresses of Surface Owners Within One-half Mile Radius Of Blue Bench #13-1

(As of August 1998)

Capital Gardens Inc.
P.O. Box 9356
Salt Lake City, UT

Burton O. Parker
6416 E. Washington
Las Vegas, NV 8911

Rex N. Worthen
2294 East 2700 South
Salt Lake City, UT

Q. Perry Hislop
660 South 200 East Suite 306
Salt Lake City, UT 84111

Greenwood Holding Company
Old River Road
Duchesne, UT 84021

Verl Ray & Dorothy Ivie
P.O. Box 746
Duchesne, UT 84021

Wayne and Tamara Garner
P.O.Box 535
Duchesne, UT 84021

J. T. Morrison
P.O. Box 27
Duchesne, UT 84021

Kenneth L. Wilkerson
Star Route, Box 37A
Duchesne, UT 84021

Burton Beacham
General Delivery
Duchesne, UT 84021

Wright Ranch Company
457 E. 33 S.
Salt Lake City, UT 84111

Benjamin D. Mitchell
General Delivery – E. Old Hwy. 40
Duchesne, UT 84021

Stan E. & Suzzann Young
P.O. Box 723
Duchesne, UT 84021

Brad Taylor
HC 63, Box 39
Duchesne, UT 84021

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SURETY BOND - FORM 4-A

#GB0367

RECEIVED
MAR 17 1998
DIV. OF OIL, GAS & MINING

KNOW ALL MEN BY THESE PRESENTS: *GAS, INC.

That we ENVIRO-TECH WELL SERVICE, INC. d/b/a COCONINO OIL &* (operator name) as Principal,

and CONTRACTORS BONDING AND INSURANCE COMPANY (surety name) as Surety, duly authorized and qualified to do business in the State of Utah, are held and firmly bound unto the State of Utah in the sum of:

TWENTY THOUSAND AND 00/100 dollars ($20,000.00)

lawful money of the United States, payable to the Director of the Division of Oil, Gas and Mining, as agent of the State of Utah, for the use and benefit of the State of Utah for the faithful payment of which we bind ourselves, our heirs, executors, administrators and successors, jointly and severally by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, WHEREAS, the principal is or will be engaged in drilling, redrilling, deepening, repairing, operating, and plugging and abandonment a well or wells and restoring the well site or sites in the State of Utah for the purposes of oil or gas production and/or the injection and disposal of fluids in connection therewith for the following described land or well:

____ Blanket Bond: To cover all wells drilled in the State of Utah

X Individual Bond: Well No. BLUE BENCH DISPOSAL 13-1 43-013-30971

Section 13 Township 3 SOUTH Range 5 WEST

DUCHESNE County, Utah

NOW, THEREFORE, if the above bounden principal shall comply with all the provisions of the laws of the State of Utah and the rules, orders and requirements of the Board of Oil, Gas and Mining of the State of Utah, including, but not limited to the proper plugging and abandonment of wells and well site restoration, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

IN TESTIMONY WHEREOF, said Principal has hereunto subscribed his or their names or has caused this instrument to be signed by its duly authorized officers and its corporate seal to be affixed this

20th day of NOVEMBER, 1997.

(Seal)

ENVIRO-TECH WELL SERVICES INC. d/b/a COCONINO OIL & GAS, INC.
Principal

By [signature] - CEO
Name and Title

IN TESTIMONY WHEREOF, said Surety has caused this instrument to be signed by its duly authorized officers and its corporate seal to be affixed this 20th day of NOVEMBER, 19 97.

(Seal)

CONTRACTORS BONDING AND INSURANCE COMPANY
Surety (Attach Power of Attorney)

By [signature]
Name and Title
Susan A. Sallada, Attorney-in-Fact
501 OFFICE CENTER DRIVE
Surety's Mailing Address
FT WASHINGTON PA 19034

(3/89)

UINTAH AND OURAY

T 2 S

T 3 S

T 4 S

DUCHESNE

RIVER

INDIAN CANYON

STRAWBERRY RIVER

INDIAN RES.

UTEX 5-85 590 BOD

LINMAR 1518 BOD

UTEX 1-86 597 BOD

UTEX 5-85 13400 820 BOD

UTEX 2-86 245 BOD

UTEX 2-86 205 BOD 450 MCF

UTEX 11-85 1047 BOD

UTEX 8-85 735 BOD

UTEX 5-85 725 BOD 1.8 MMCF

UTEX 11-85 682 BOD

UTEX 11-85 20,600 BW 422 MCF

UTEX 3-86 397 BOD

UTEX 7-85 461 BOD

UTEX 12-85 499 BOD

UTEX 8-85 234 BOC 285 MCF

UTEX 9-85 639 BOD

LINMAY 15,000(Tw)

ANR 3/82

WA RES 13,000 Tw

SHELL SMITH 1-21 B-C 2/82

LINMAR 6/82

LINMAR 6/84

LINMAR 2-84 1750 BOD 174 MCF

Linmar Santa Fe 1/84

Uteх 3/86

Utex 5/85

Utex 4/86

Tgrm E6233 H6410

PAINTE 336 BOD 750 MCF

Paiute 6/84

Gulf 9/81

UTEX 9/87 Duchesne 1-80 TD 12,455 IP 572 BOD 572 MCFD

GULF Blue Bench Ute 1 8-72 TD 12,660' IPF 470 BOD 364 MCFD(Tgr & Tw)

GULF Duchesne Co. 1-904 5-75 TD 10,050' IP 233 BOD(Tgr)

GULF 1-17C4 2-77 TD 6040'

GULF Ute 1-20C4 4-73 TD 9910' IPF 206 BO 155 MCF(Tw)

BRINKERHOFF Ute 29-1 1-72 TD 9315'(Tw) IPF 835 BOD 1190 MCF(Tgr)

UTEX Wilson 1-34C4 3-81 TD 9705(Tw) IP 718O 114 MCF(Tw)

HUMBLE Poulsen 1 6-54 TD 8934

COLTHARP Mitchell-1 TD 2100 9-57

LINMAR 229 BOD 970 BW

CONOCO Ute 1-462 TD 4800 7-62

GULF Davidson 1 TD 8850 11-78

GULF Ute 1-15-D4 Eval

HUMBLE Moon 1 TD 7-52

GULF Ute 1 TD 8500' 7-66 IPF 898OD 109 MCFD(Tg)

LOMAX 10-85 IP 9 8527 173 BOD

LOMAX 4-18 3-84, R25E 280 BOD 81 MCF

LX 16-2 8-84 434 BOD

LX 3-13 11-85 7 BOD

GULF Ute 4 TD 8400' 11-69 IPF 429 BOD 280 MCFGD(Tw)

LOMAX 10-17

LOMAX 16-7

CONOCO Ute 3 TD 3667 11-58 IP 28 BO 180 MCF

CONOCO Smith 2R

CONOCO-CH TD 3750'

SANTA FE 11-85 298 BOD 988 MCF

SANTA FE TD 8350 5-67 IP 228 BOD 588 MCFD (Tw)

BRINKERHOFF 10-1 1-72 TD 8163' IP 132 BOD 103 MCFD (Tgr & Tw)

BRINKERHOFF 5-1 TD 1303' 8-72 IP 157 BOD 56 MCF(Tw)

BRINKERHOFF 3-1 TD 8454' 12-71 IP 275 BOD 225 MCFD(Tw)

UTAH 1-4 TD 9248' 10-77 IP 235 BOD 230 MCFD (Tw)

GULF 2 TD 11122' IP 1230 BOPD 1410 MCFD(Tgr)

LM 9-85 87 BOD 370 BOD

LM 6-85 132 BOD

LM 12-85 157 BOD

LM 9-85 10,582 249 BOD

Tgrm E6405 DST H6084

Tgrm DST E6292 H5894

Tgrm DST E6244 ① H5009 ② H6076

Linmar 9/83

Page 11/81

Page 2/81

GULF 2/81

GULF 9/84

UTEX 10/84

UTEX 9-83

PRN 12/84

UTEX 3/82

Utex 6/82

GULF 1/82

Utex 3/86

Utex 5/85

Utex 4/86

Utex 6/84

Linmar

Santa Fe 1/84

Tgrm E6233 H6410

ANR 3/82

Paiute 6/84

Gulf 9/81

Linmar 9/83

Page 11/81

Page 2/81

PRN 12/84

UTEX 10/84

UTEX 3/82

Utex 6/82

GULF 1/82

may not be Comp

5W

1

B'

B

5

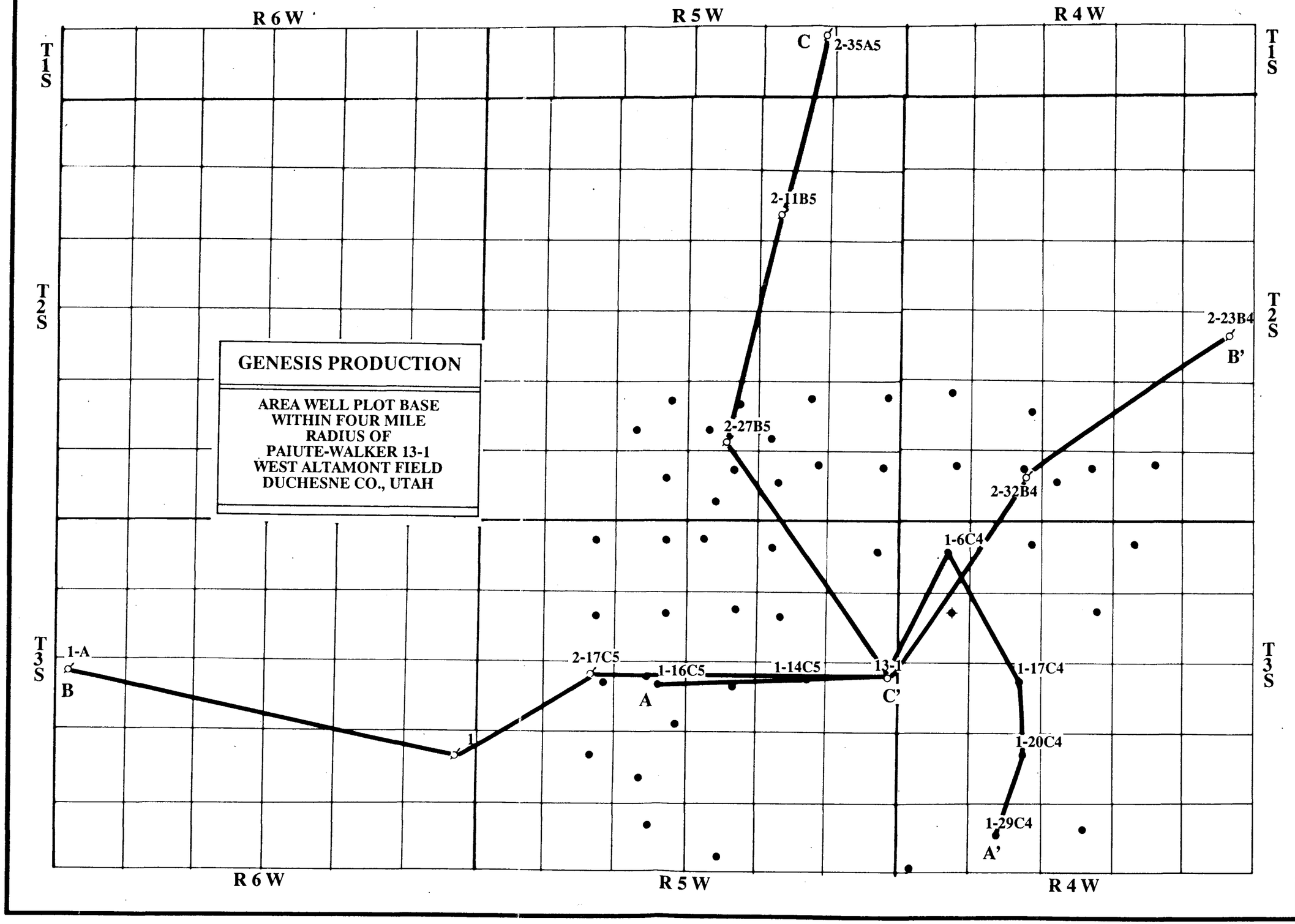
2

4

3

6300'

5600'


R 6 W
R 5 W
R 4 W
T 1 S
T 2 S
T 3 S
GENESIS PRODUCTION
AREA WELL PLOT BASE
WITHIN FOUR MILE
RADIUS OF
PAIUTE-WALKER 13-1
WEST ALTAMONT FIELD
DUCHESNE CO., UTAH
C
2-35A5
2-11B5
2-27B5
2-23B4
B'
2-32B4
1-6C4
1-17C4
1-20C4
1-29C4
A'
1-A
B
1
2-17C5
1-16C5
1-14C5
A
13-1
C'

HALLIBURTON
LOGGING SERVICES, INC.

ACOUSTIC CEMENT BOND LOG

COMPANY GENESIS PRODUCTION COMPANY

WELL PAIUTE WALKER 13-ND-1

FIELD ALTAMONT

COUNTY DUCHESNE STATE UTAH

API No.: NF NE

Location:

Sec. 13 Twp 3S Rge 5W

Other Services:

COMPANY GENESIS PROD. CO.
WELL PAIUTE WALKER 13-ND-1
FIELD ALTAMONT
COUNTY DUCH STATE UT

Permanent Datum GL Elev. --
Log Measured From GL -- Ft. Above Perm. Datum
Drilling Measured From --

Elev.: K.B. ---
D.F. ---
G.L. ---

Date & time Logged	3-9-91 12:30	Type of Fluid in Hole	WATER
Run No.	ONE	Density of Fluid	---
Depth — Driller	---	Fluid Level	FULL
Depth — Logger	7800	Cement Top Est. — Logged	6490
Btm. Logged Interval	7800	Equipment-Locatio	6093 VERNAL
Top Logged Interval	3500	Recorded By	EDMUNDS
Max. Temp. °F	--	Witnessed By	MR. STEUBLE

CEMENTING DATA	Surface String	Protection String	Production String	Liner
Date/Time Cemented				
Primary/Squeeze				
Expected Comp. Strength	psi	psi	psi	psi
Cement Volume				
Cement Type/Weight				
FORMULATION:				
Mud Type Mud Wt.				

RUN No	BOREHOLE RECORD Bit	From	To	CASING & TUBING RECORD Size	Wgt.	From	To
				7	29#	0	9234

Fold Here

Part Number 261

PGM Version: 34

API Serial No.:

Service Ticket No.: 60830

The Well Name, Location, Cementing Data & Borehole Description Furnished By Client

CEMENTING DATA

Cement pumped ____ bbl/min @ ____ psi
Preceding fluid ____ volume ____ bbl
Returns? ☐ full ☐ partial ☐ none
Pipe rotated/recipicated during pumping? ☐ yes ☐ no
after plug down? ☐ yes ☐ no
Plug bumped? ☐ yes ☐ no
Plug landing pressure: ____ psi
Pressure held ____ psi ____ hrs after pumping

Centralizers ____ / Joint From ____ to ____
____ / Joint From ____ to ____
____ / Joint From ____ to ____

Scratches ____ / Joint From ____ to ____
____ / Joint From ____ to ____
____ / Joint From ____ to ____

EQUIPMENT DATA

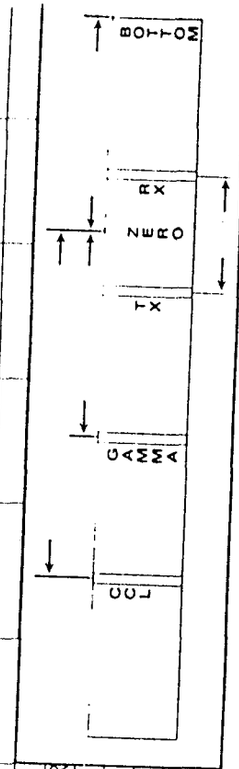
GAMMA		NEUTRON		ACOUSTIC	
Run No.	ONE	Run No.		Run No.	ONE
Serial No.	340	Serial No.		Serial No.	340
Model No.	COMBO	Model No.		Model No.	COMBO
Diameter		Diameter		No. of Cent	2
Detector Model No.		Log Type		Spacing	TOP & BOTTOM
Type	SCINT	Source Type			
Length		Serial No.			
Distance to Source		Strength			

LOGGING DATA

GENERAL Run No.	Depths From	To	Well head Pressure, psi	Speed ft./min.	GAMMA Scale L	R	NEUTRON Scale L	R	ACOUSTIC Scale L	R
ONE	7800	---	1000	35	0	150			0	100
									0	20

Remarks:

NO OPEN HOLE LOGS, ALL FURTHER OPERATIONS MUST BE CORRELATED WITH THIS LOG.
RAN GR/CCL FROM 6200-3500
MAIN LOG RAN WITH 1000 PSI
REPEAT RUN WITH 0 PSI



TOOL CALIBRATION	6.040 VOLTS	CASING O.D.	7.000 IN
GATE WINDOW	283 TO 323 µSEC	CEMENT STRENGTH	0 PSI
TOTAL BOND	0.0 DB/FT	CASING THICKNESS	0.408 IN
PLAYBACK OFFSET	0.0 FT	BMAX	0.0 MV

03-09-91 14:58 3498.0 60830 0072-34 0 3

1000 CCL -400

0 GR API 150

5"=100'

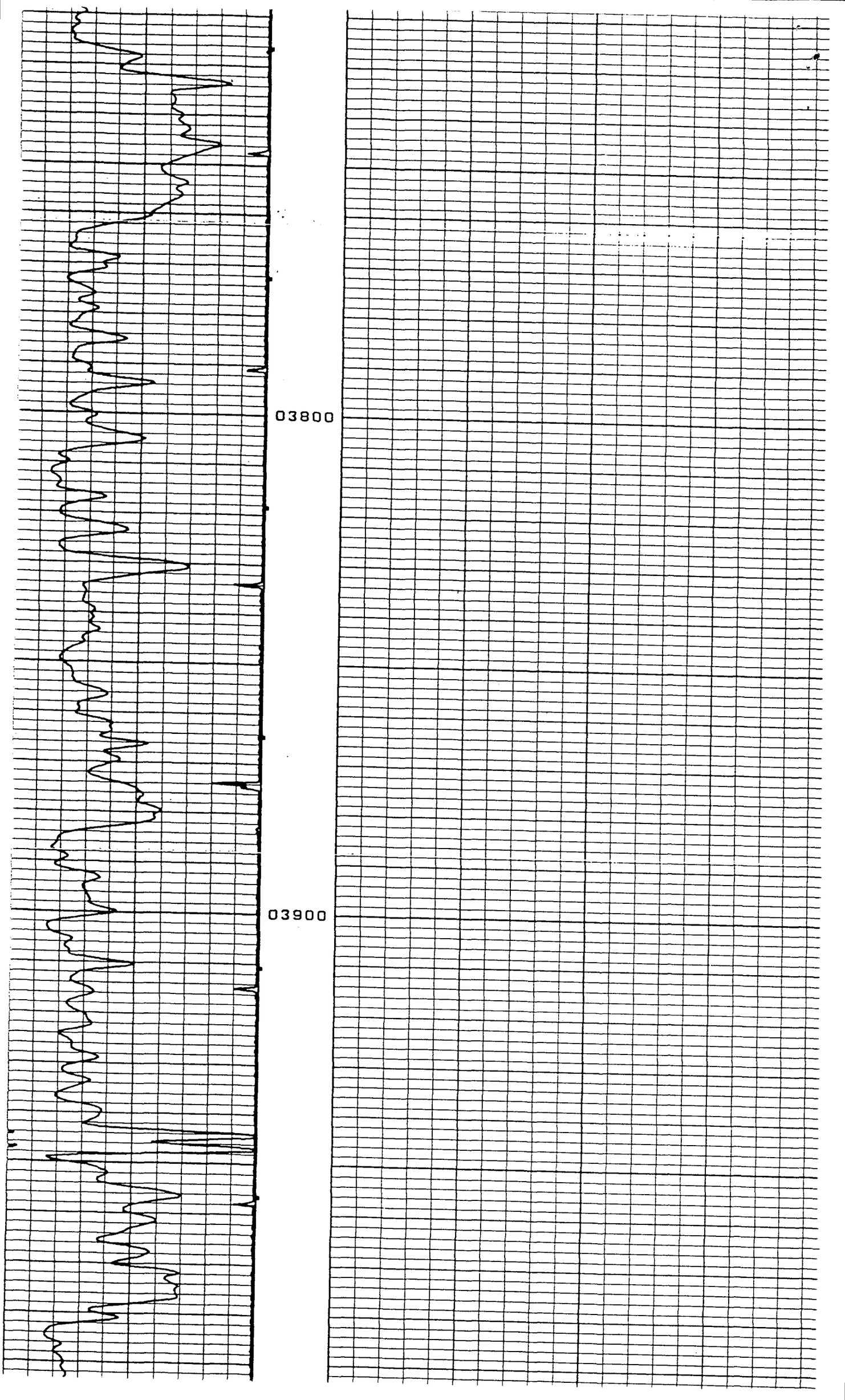
03500

GAMMA

CASING COLLARS AT TRUE DEPTH

03600

03700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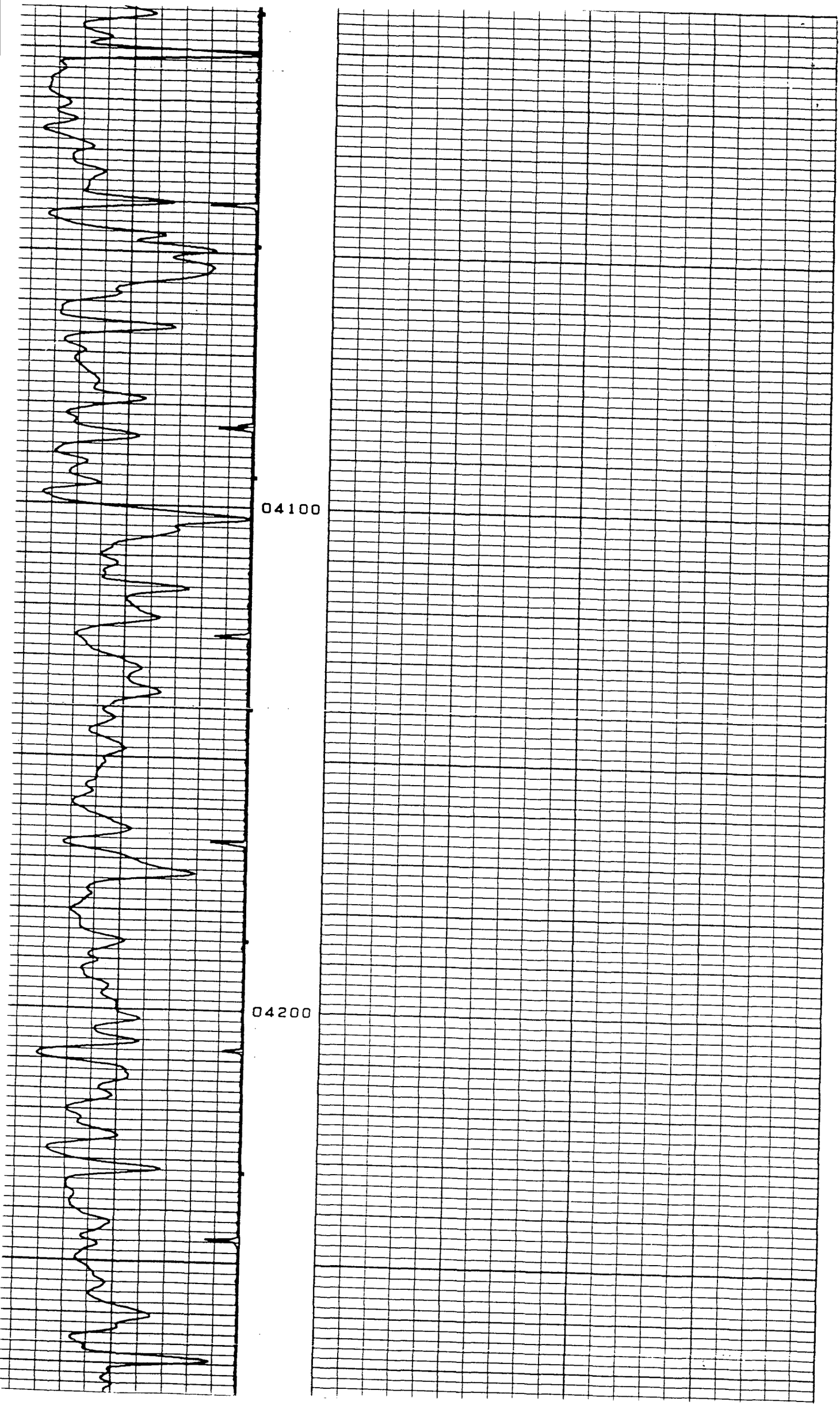
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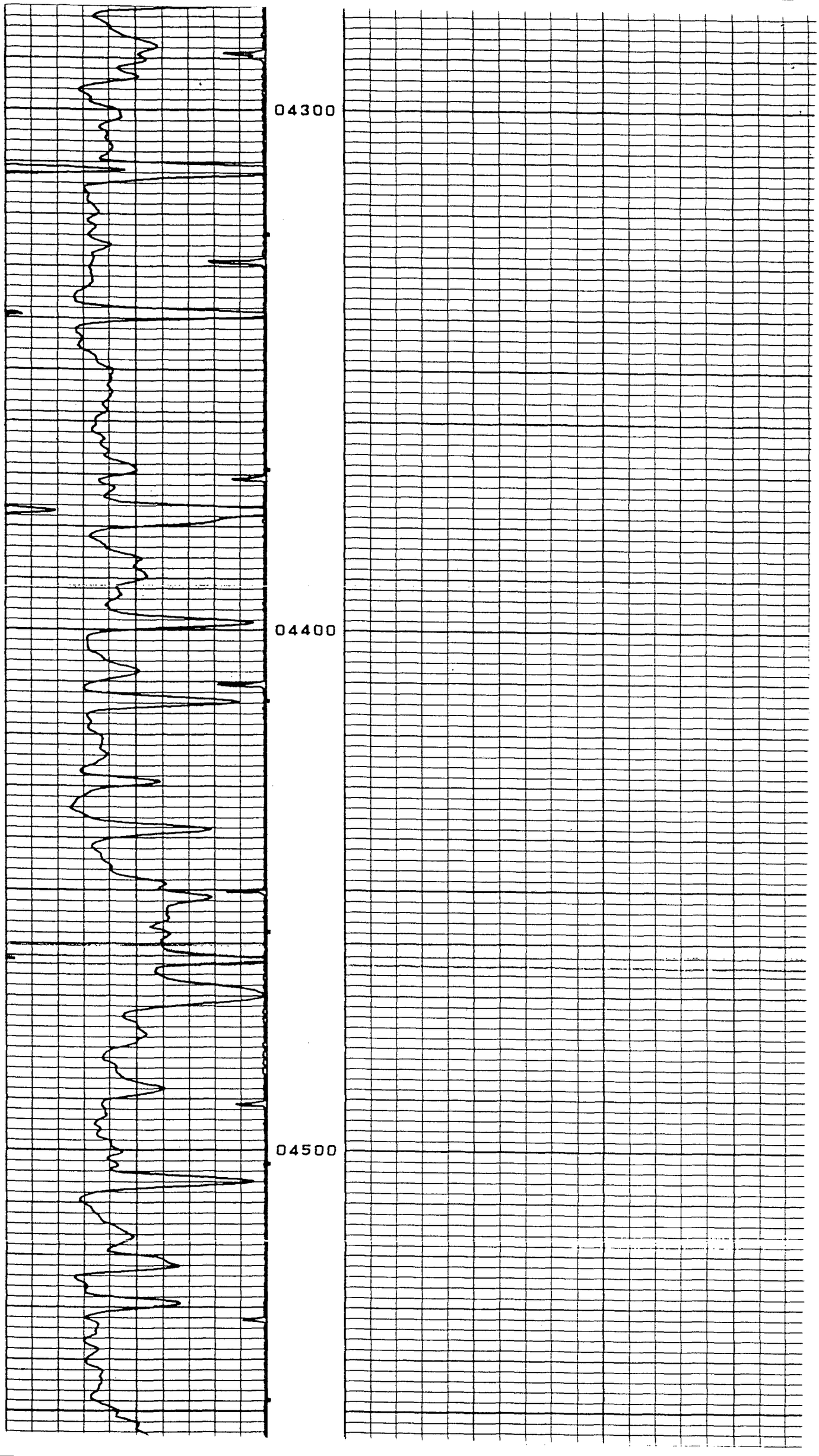
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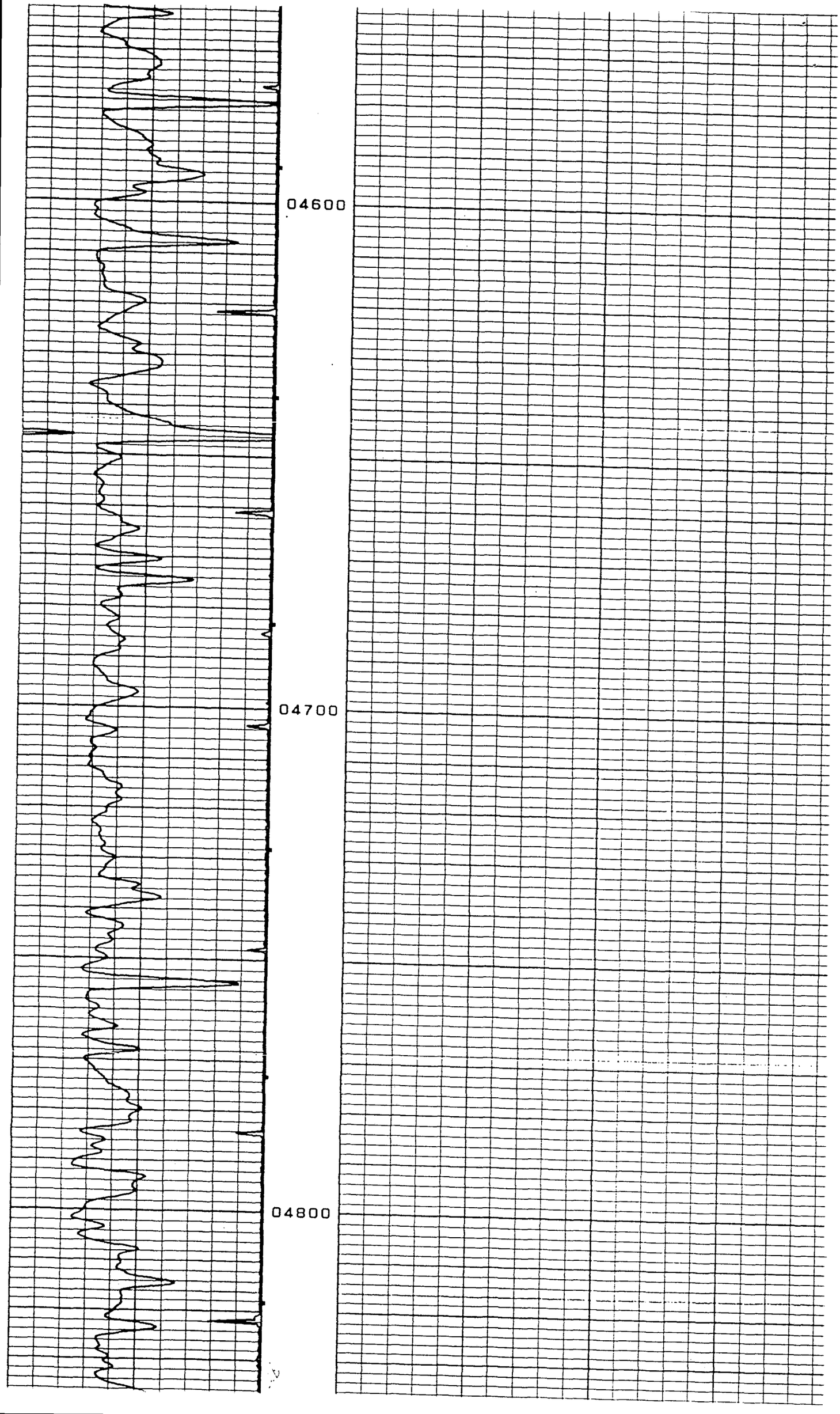
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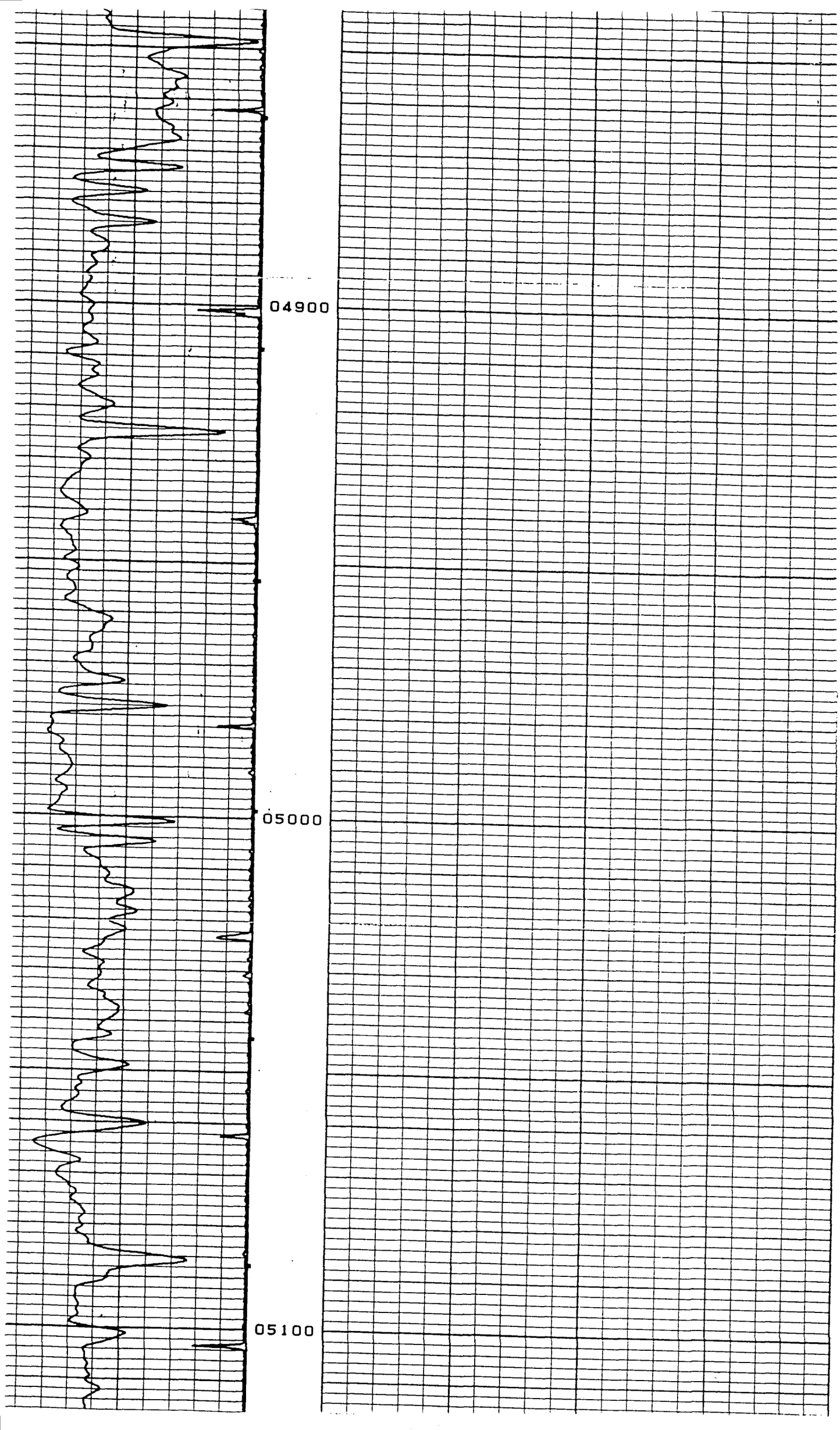
04800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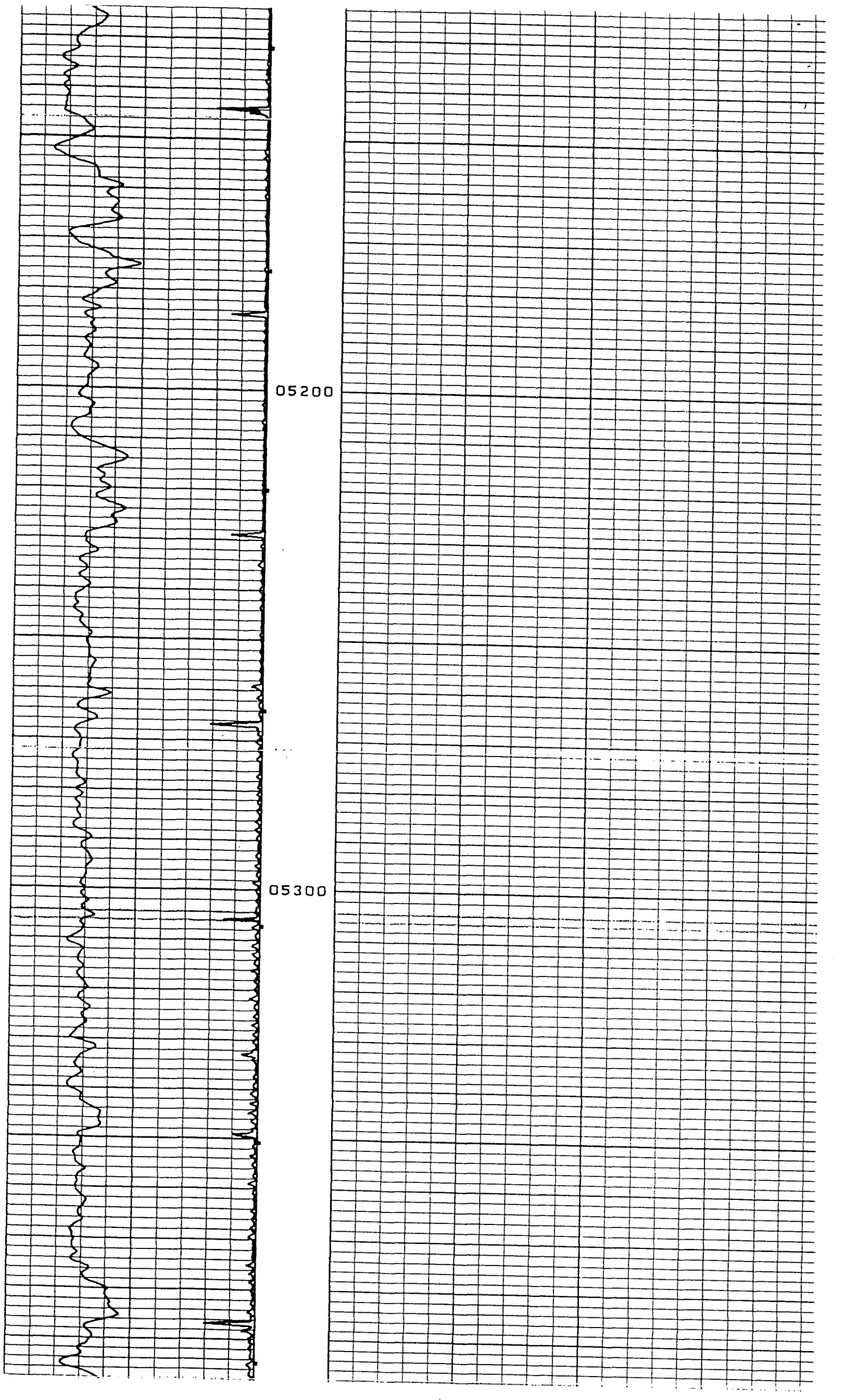
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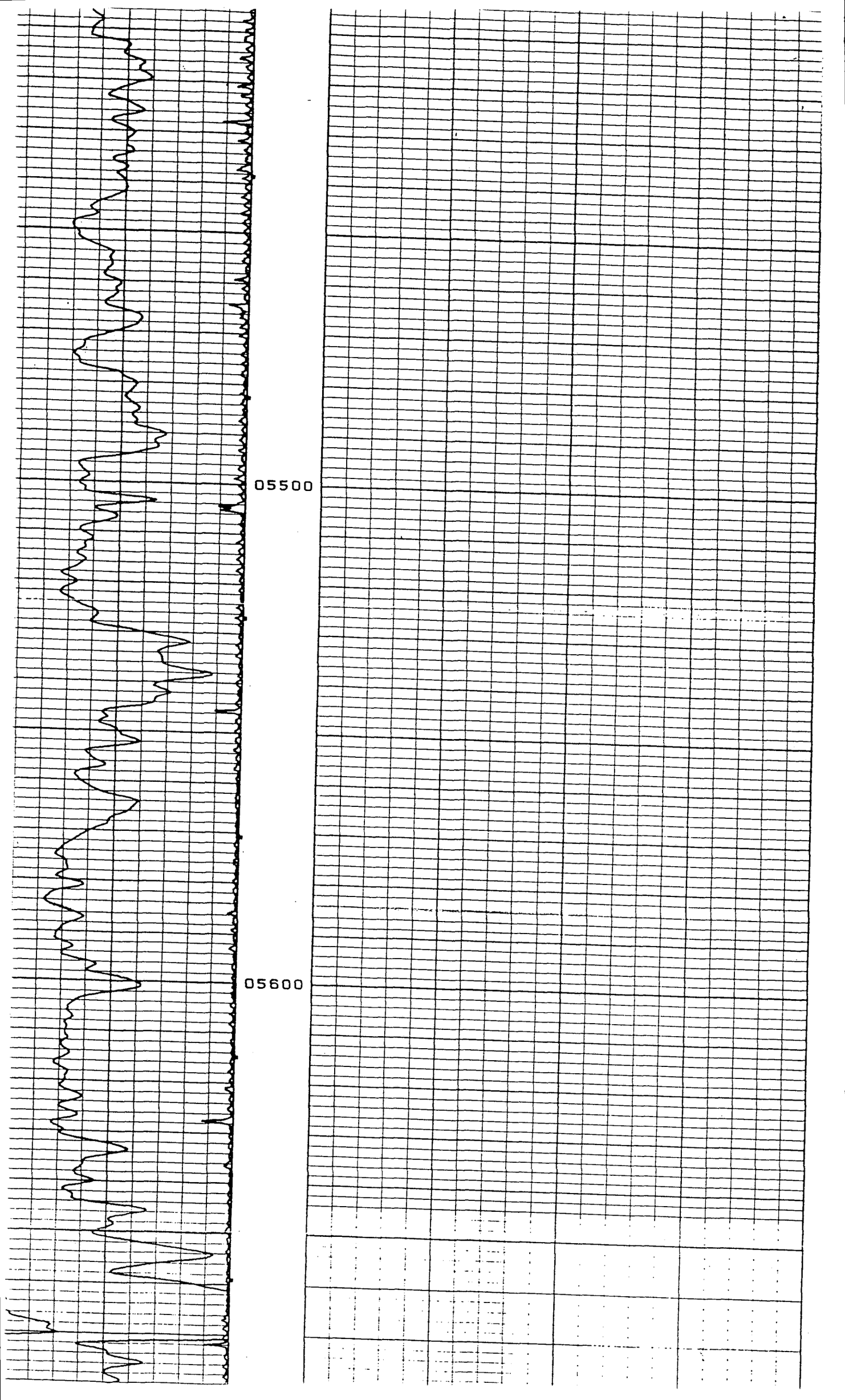
05500
05600

TOOL CALIBRATION	6.040 VOLTS	CASING O.D.	7.000 IN
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PLAYBACK OFFSET	0.0 FT	BMAX	0.0 MV

03-09-91 14:58 3498.0 60830 0072-34 0 3

1000 CCL -400

0 GR API 150

5"=100'

03500

GAMMA

CASING COLLARS AT TRUE DEPTH

03600

03700

TOOL CALIBRATION	6.040 VOLTS	CASING O.D.	7.000 IN
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PLAYBACK OFFSET	0.0 FT	BMAX	0.0 MV

03-09-91 14:58 3498.0 60830 0072-34 0 3

1000 CCL -400

0 GR API 150

5"=100'

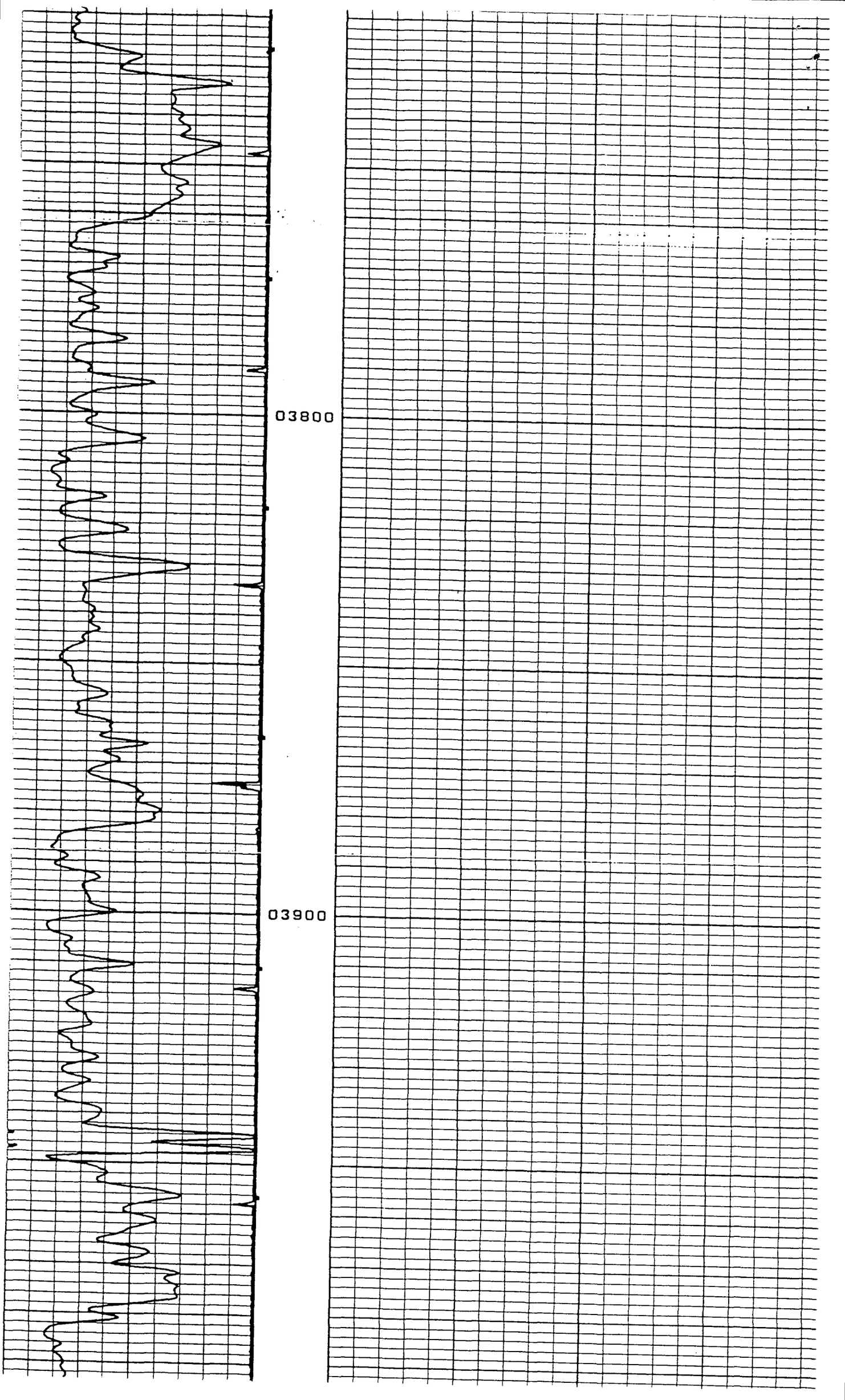
03500

GAMMA

CASING COLLARS AT TRUE DEPTH

03600

03700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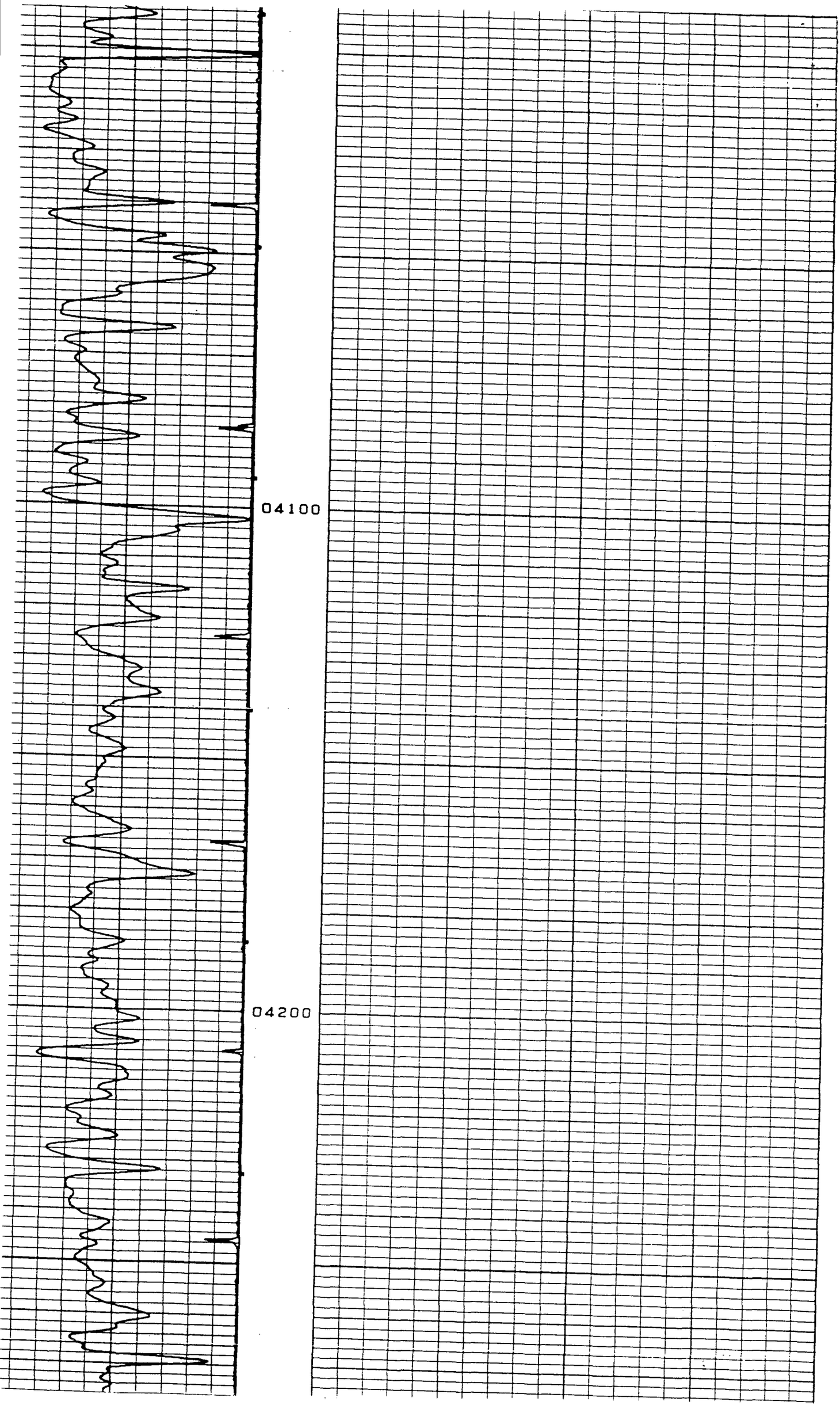
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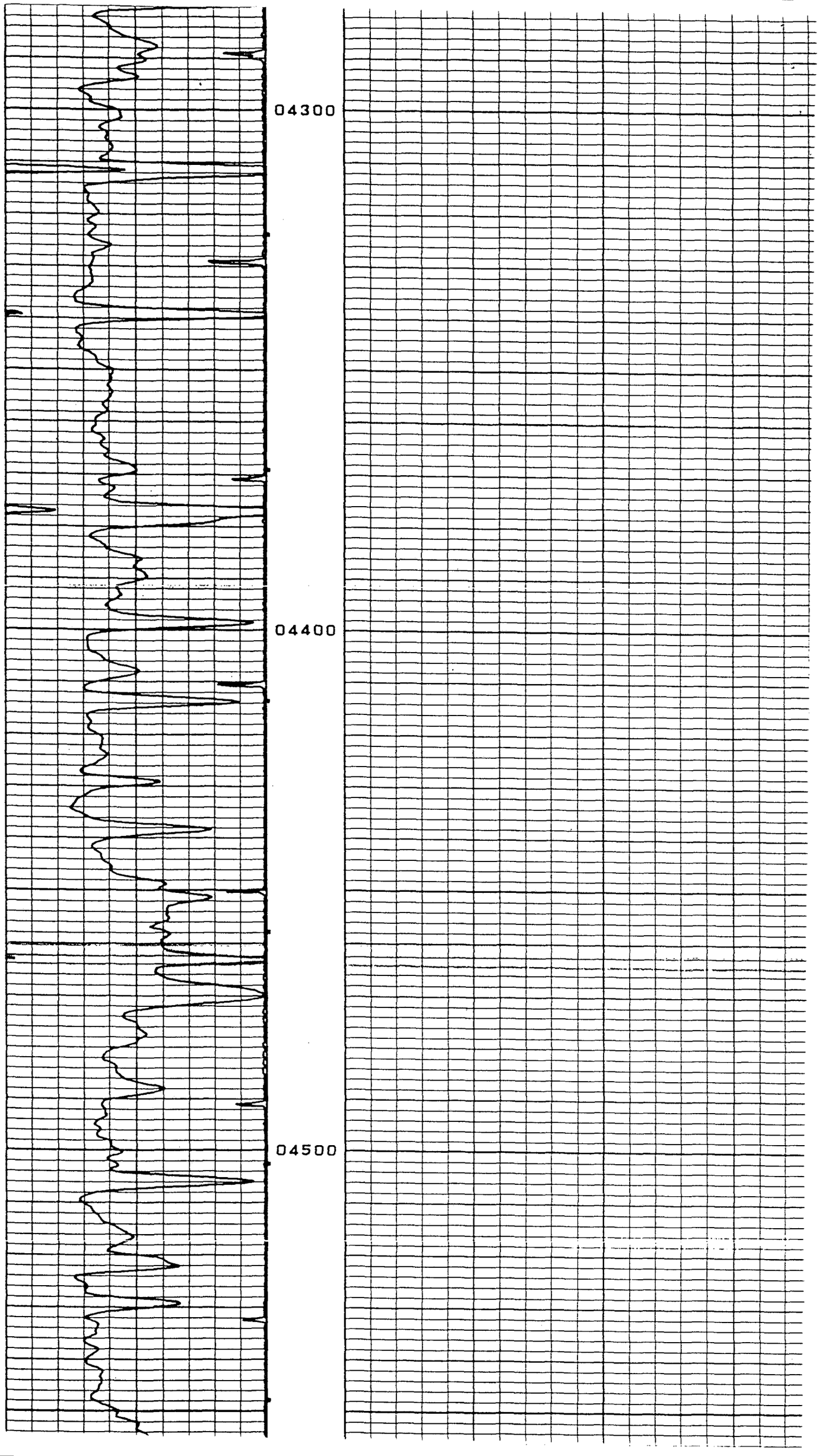
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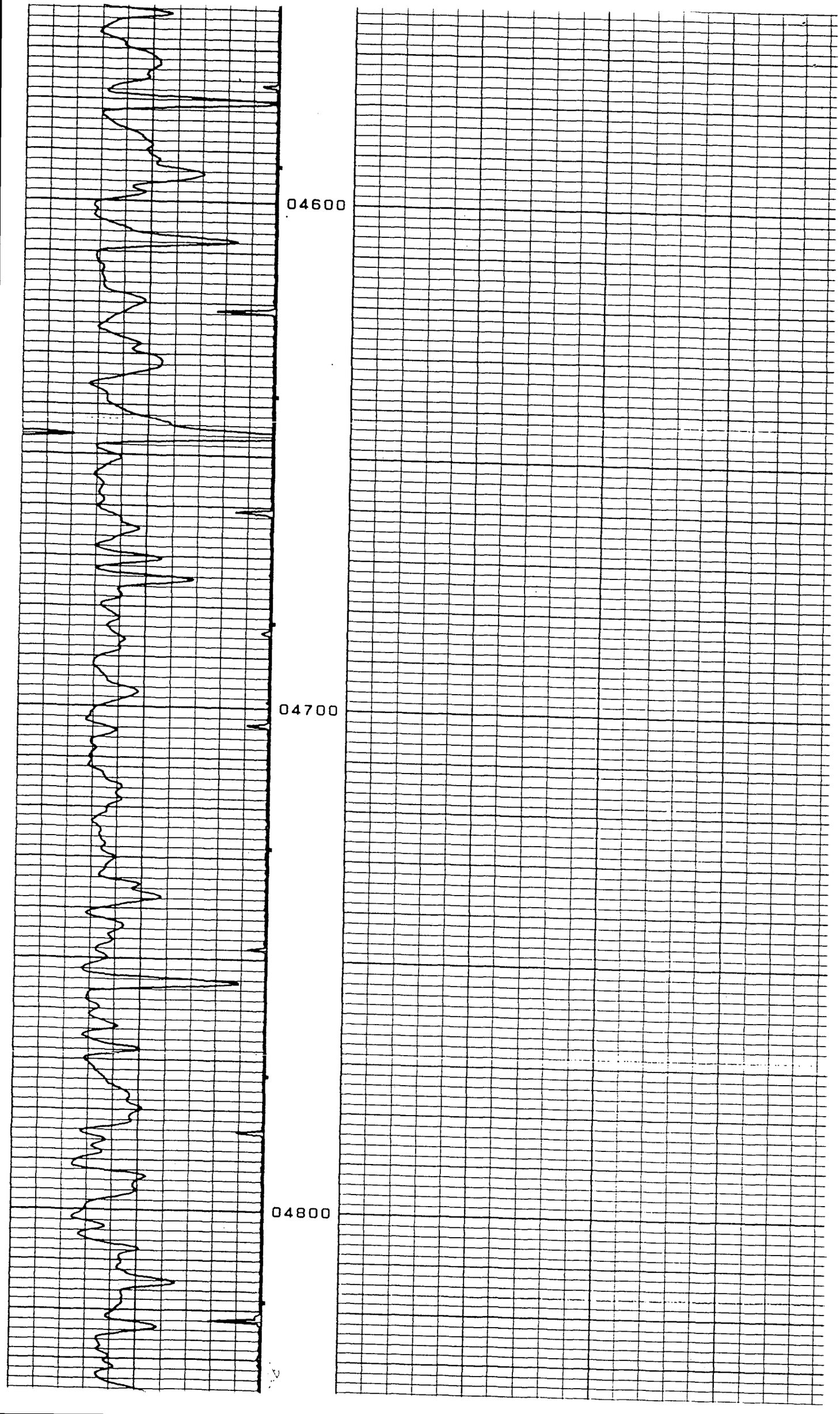
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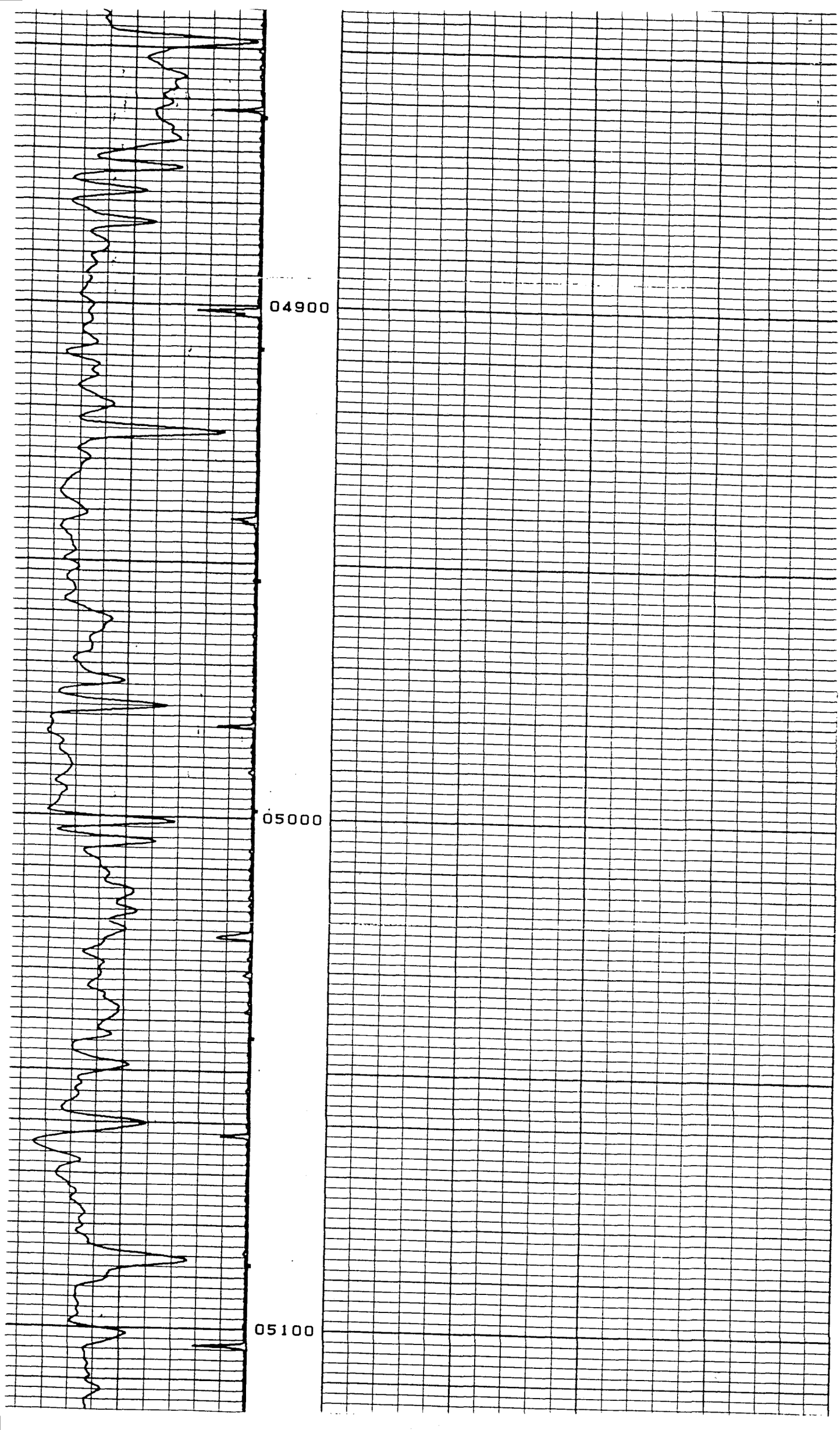
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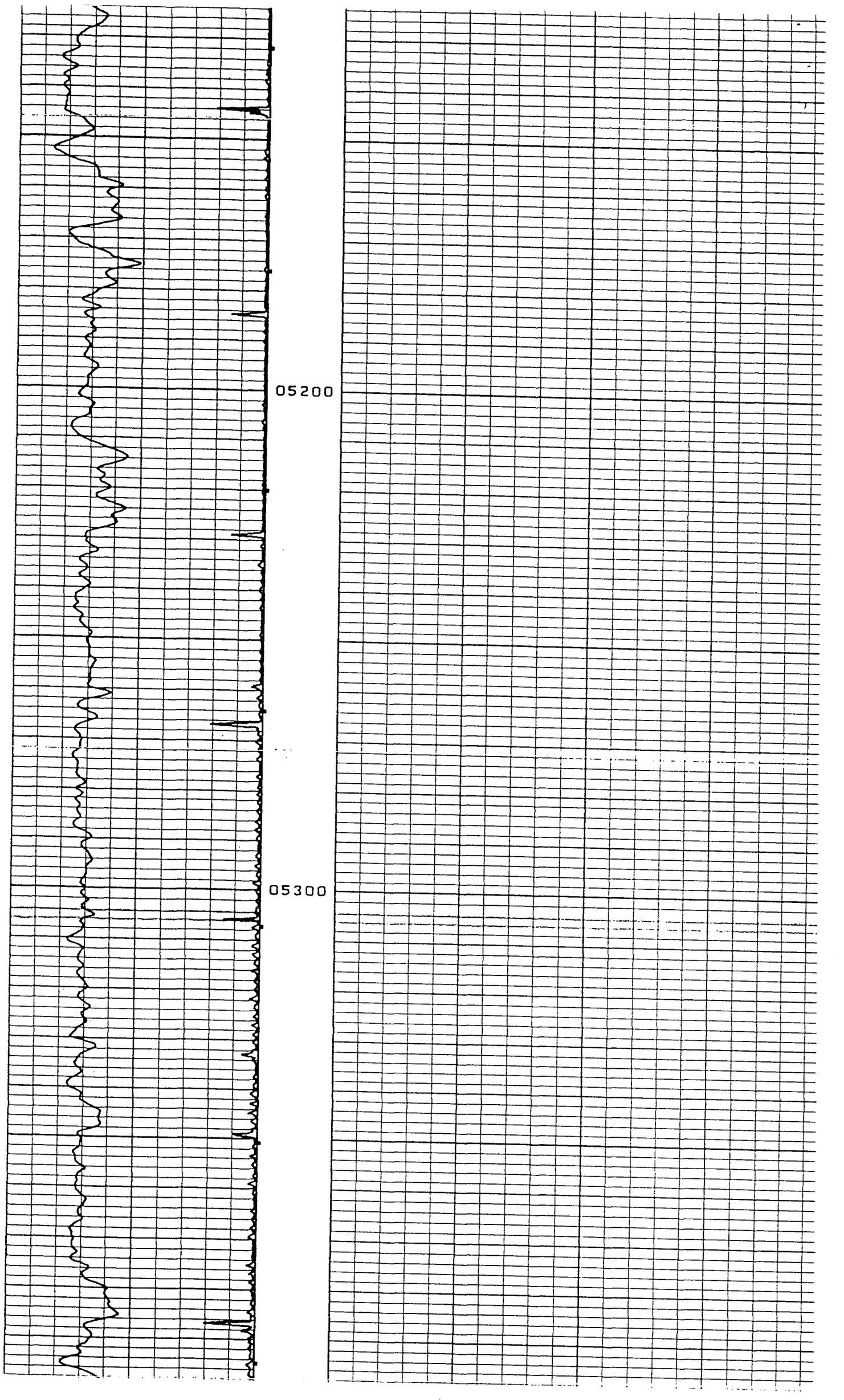
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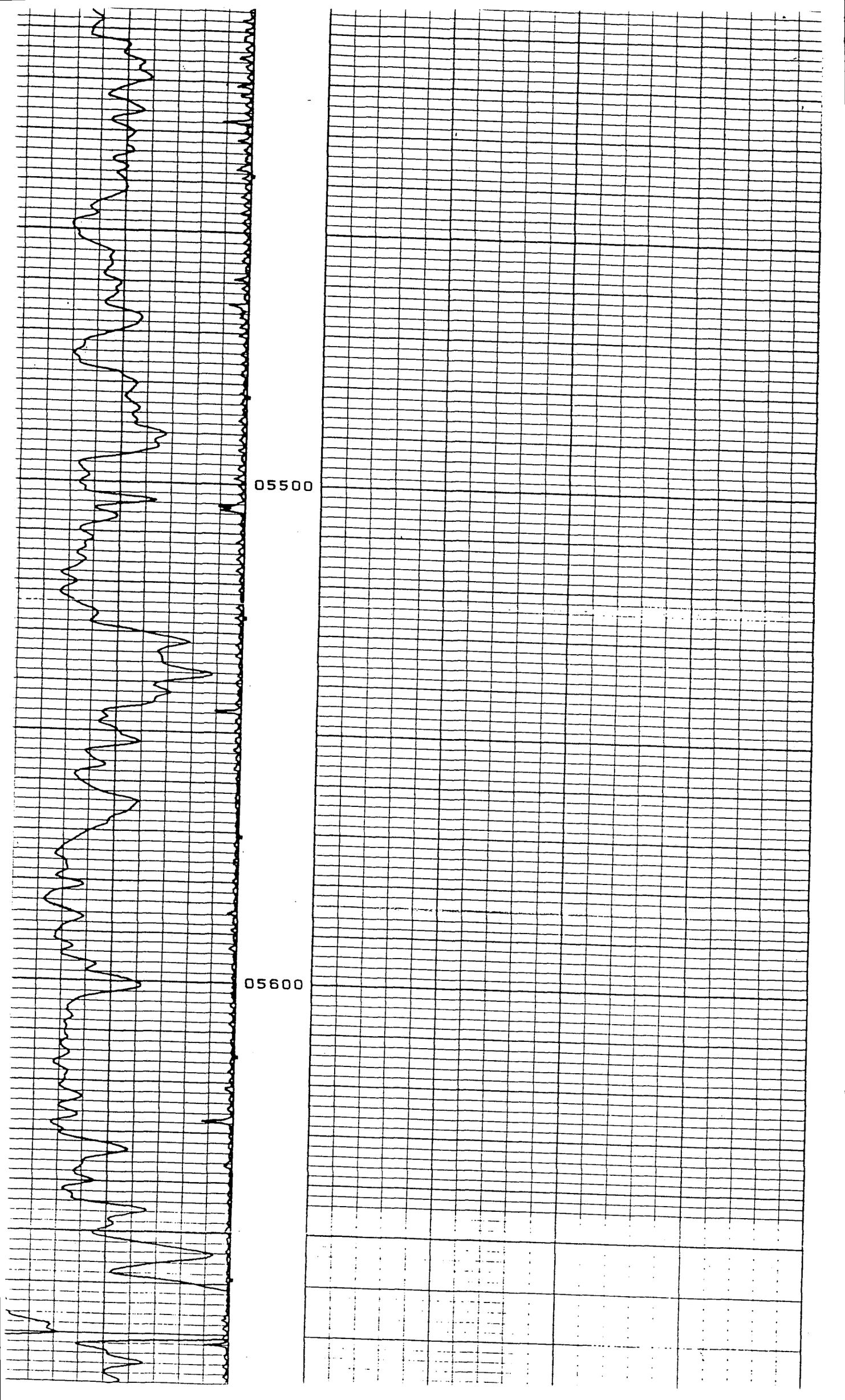
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TOOL CALIBRATION	6.040 VOLTS	CASING O.D.	7.000 IN
GATE WINDOW	283 TO 323 µSEC	CEMENT STRENGTH	0 PSI
TOTAL BOND	0.0 DB/FT	CASING THICKNESS	0.408 IN
PLAYBACK OFFSET	0.0 FT	BMAX	0.0 MV

03-09-91 14:58 3498.0 60830 0072-34 0 3

1000 CCL -400

0 GR API 150

5"=100'

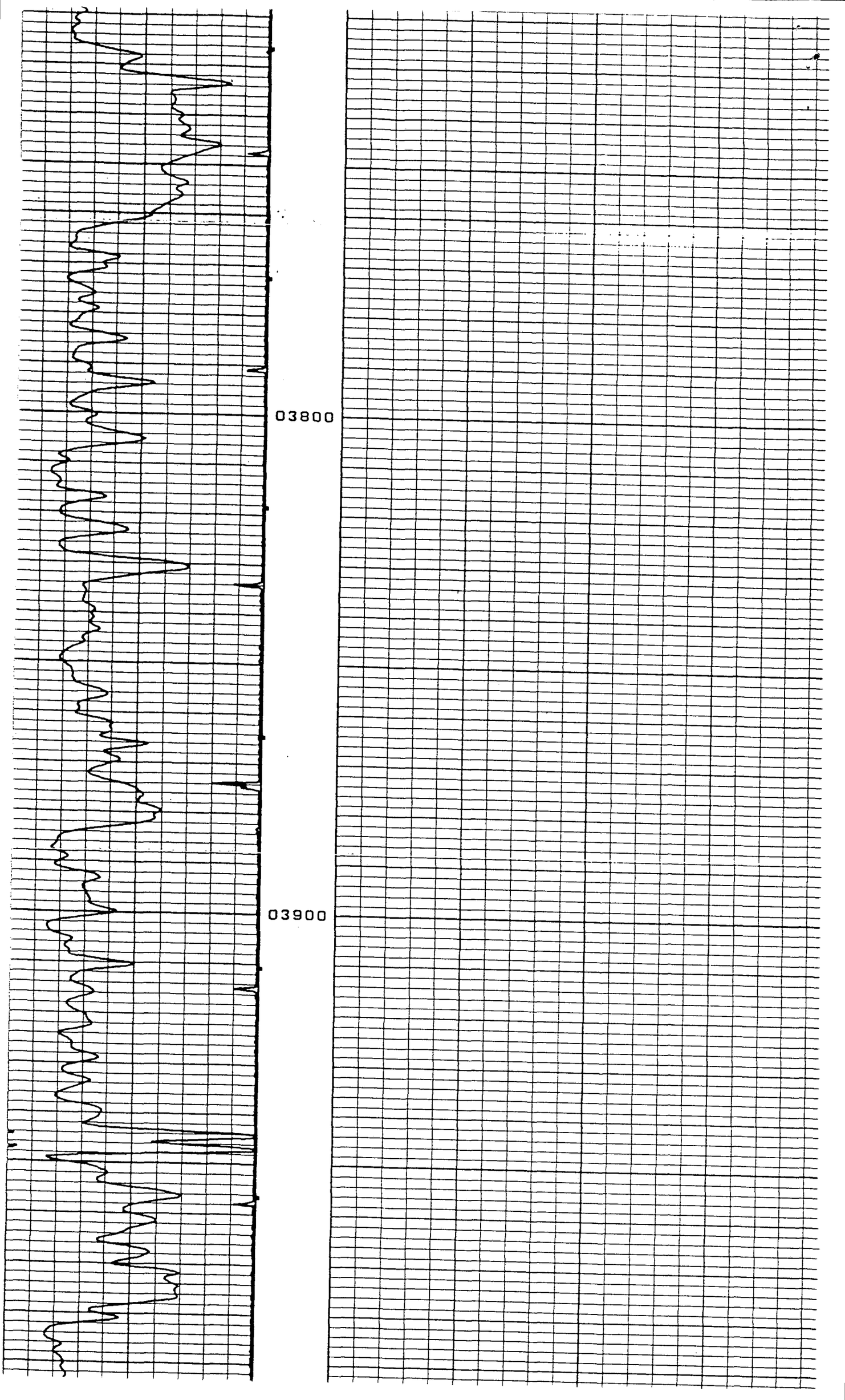
03500

GAMMA

CASING COLLARS AT TRUE DEPTH

03600

03700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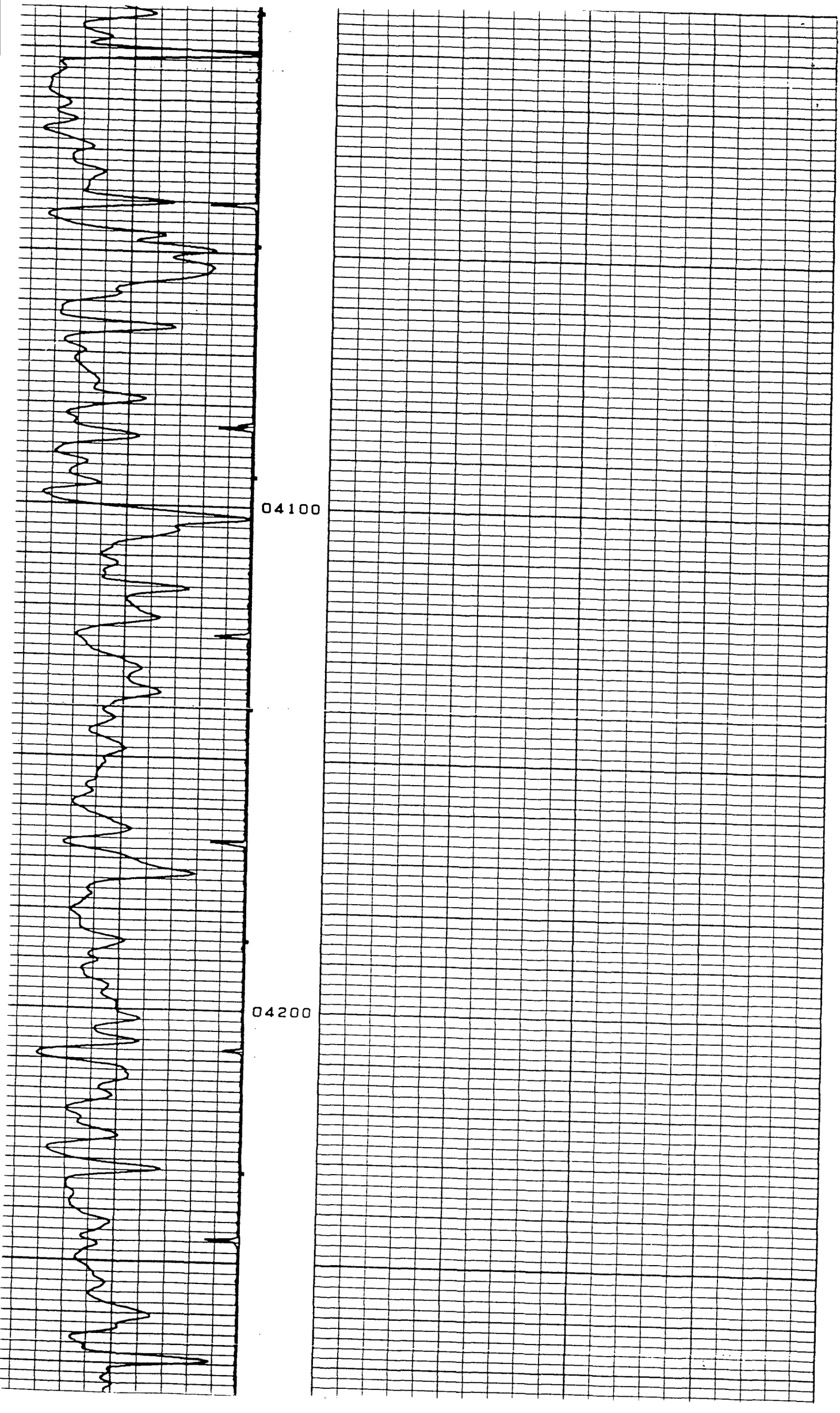
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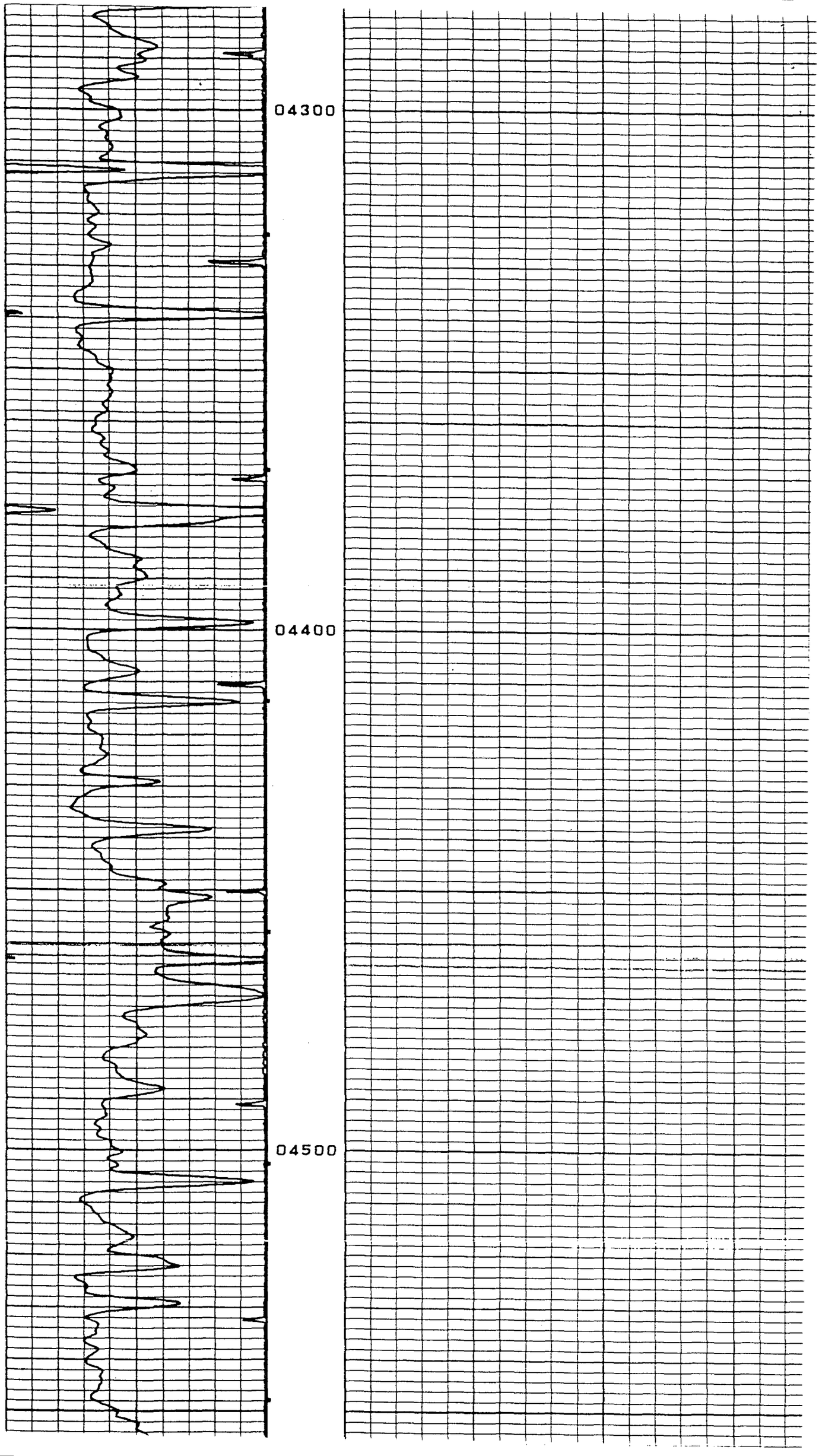
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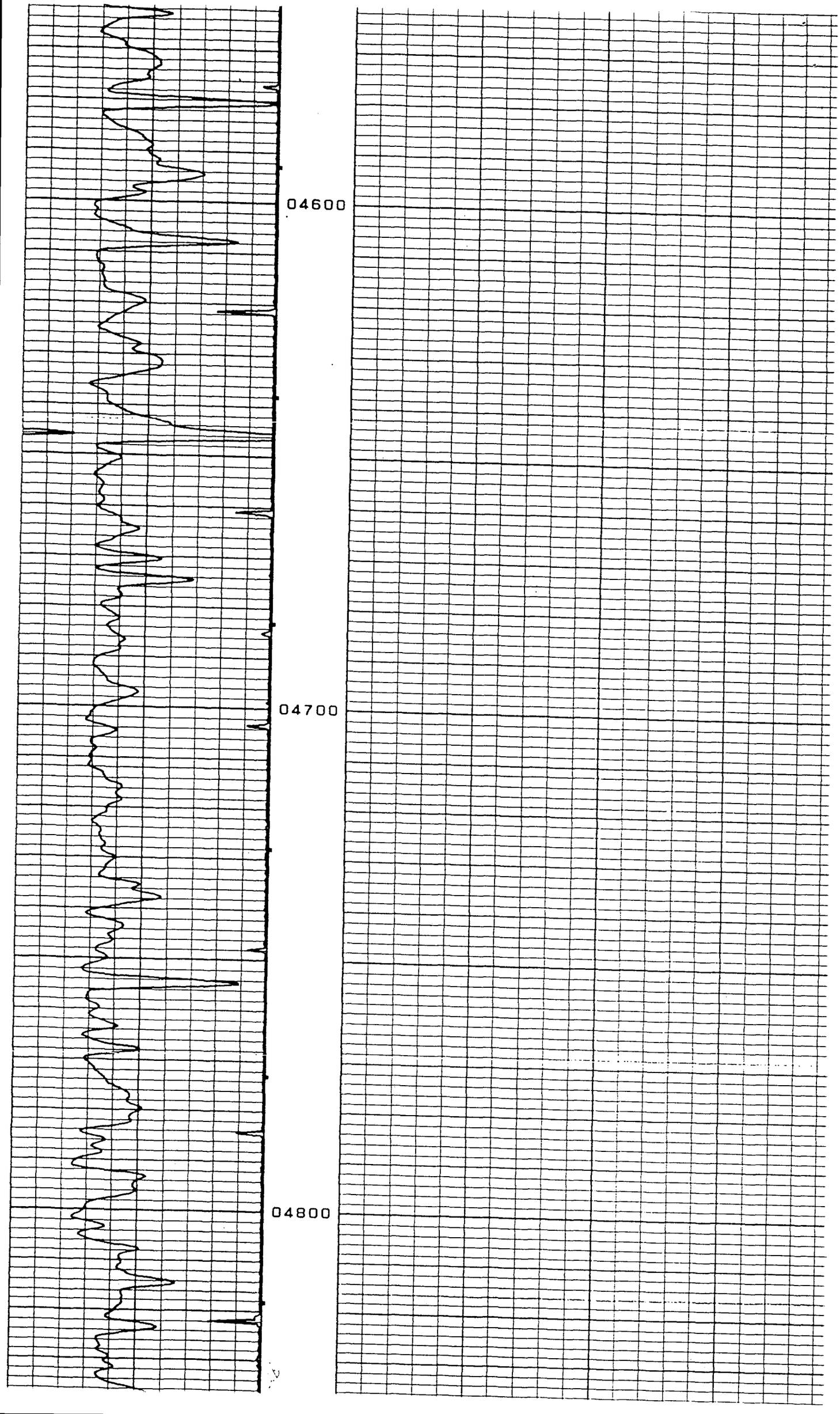
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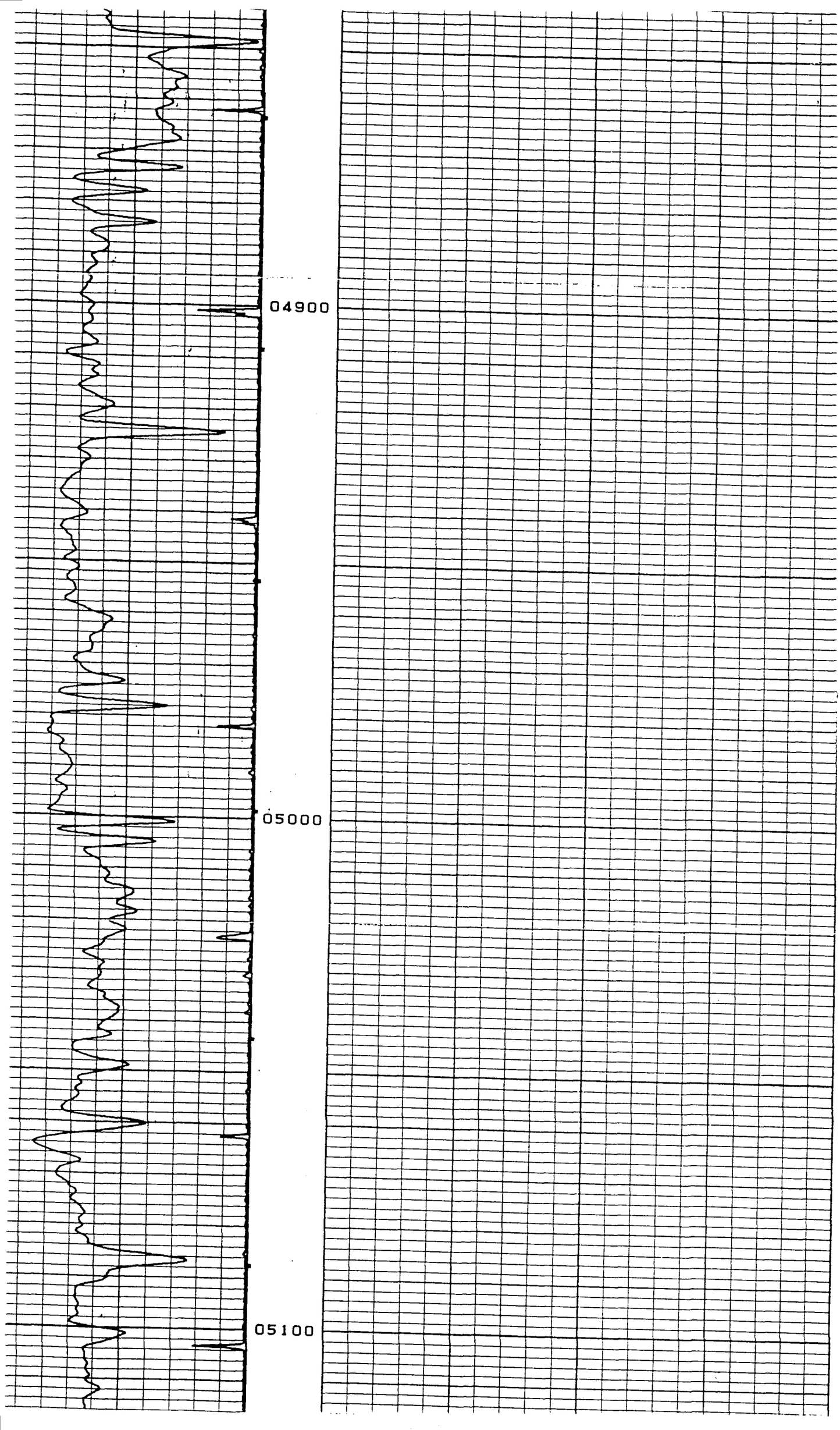
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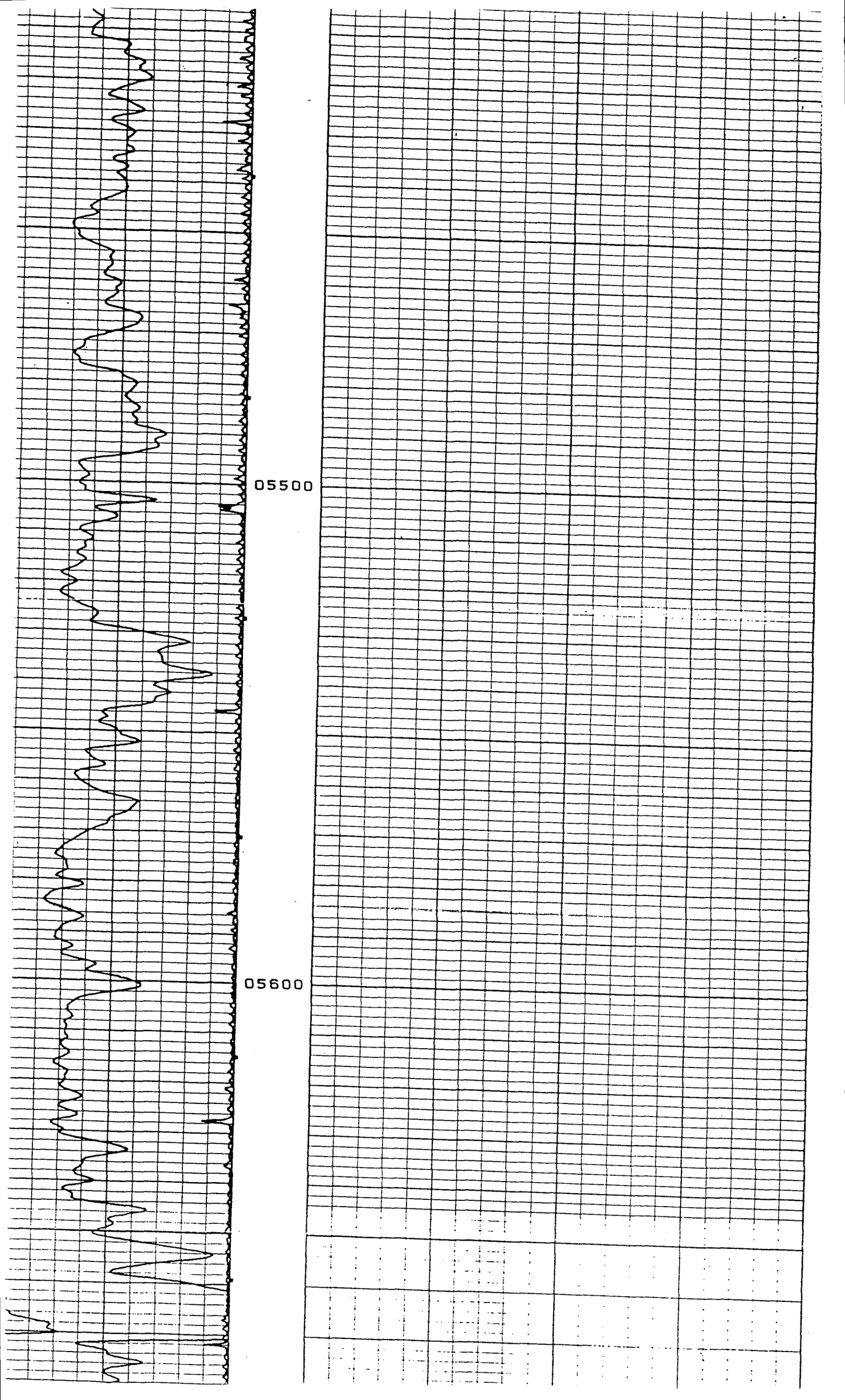
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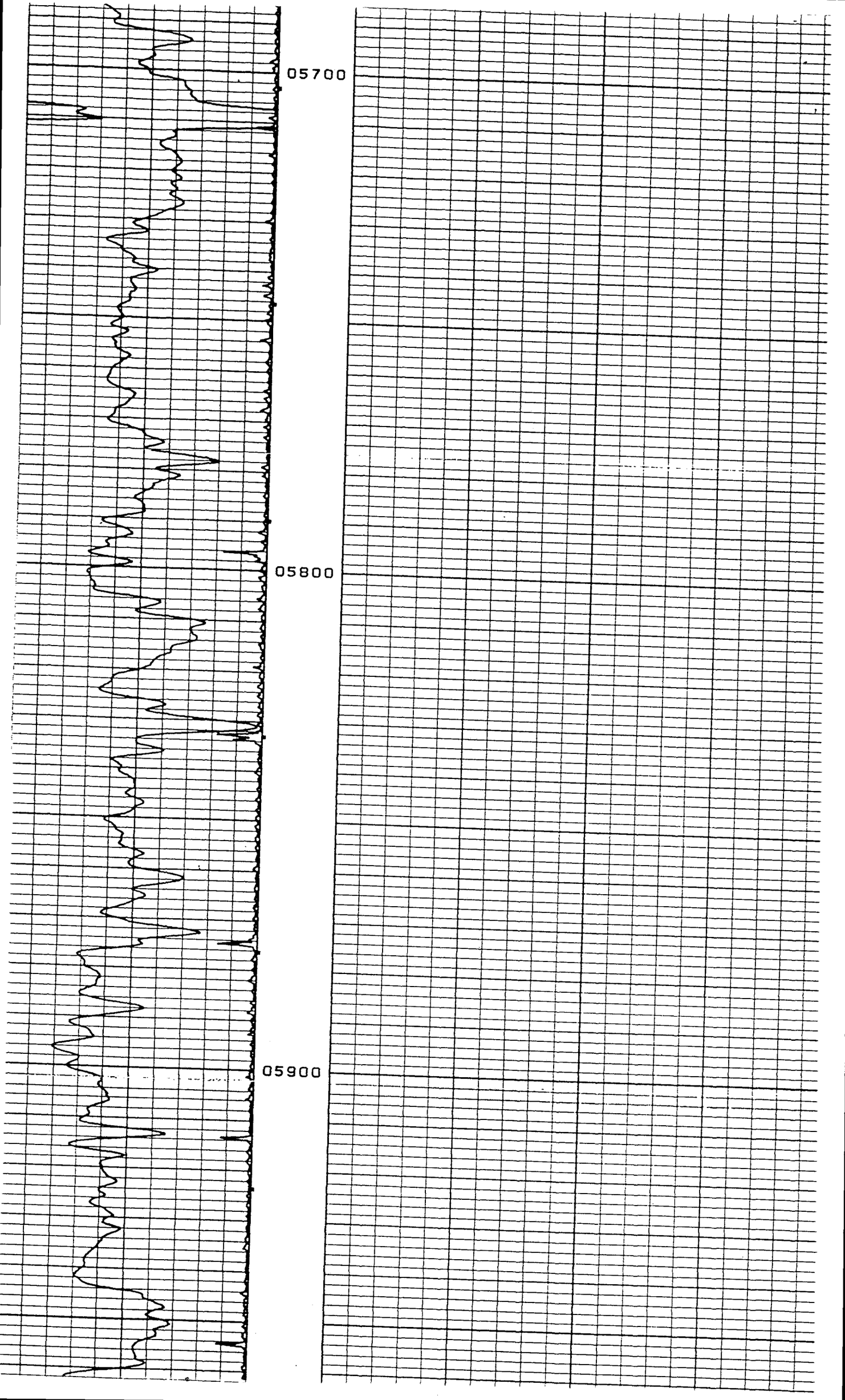
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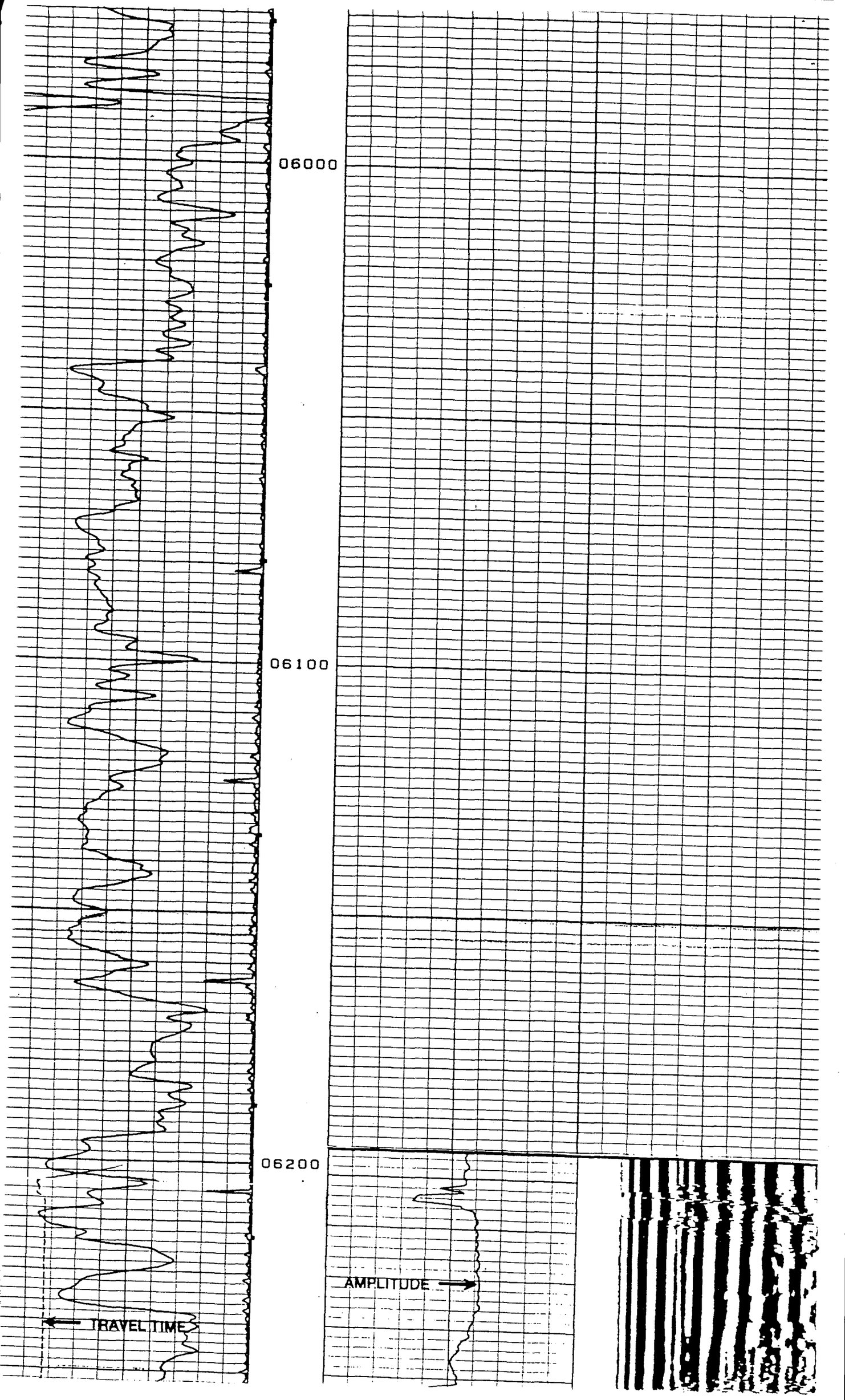
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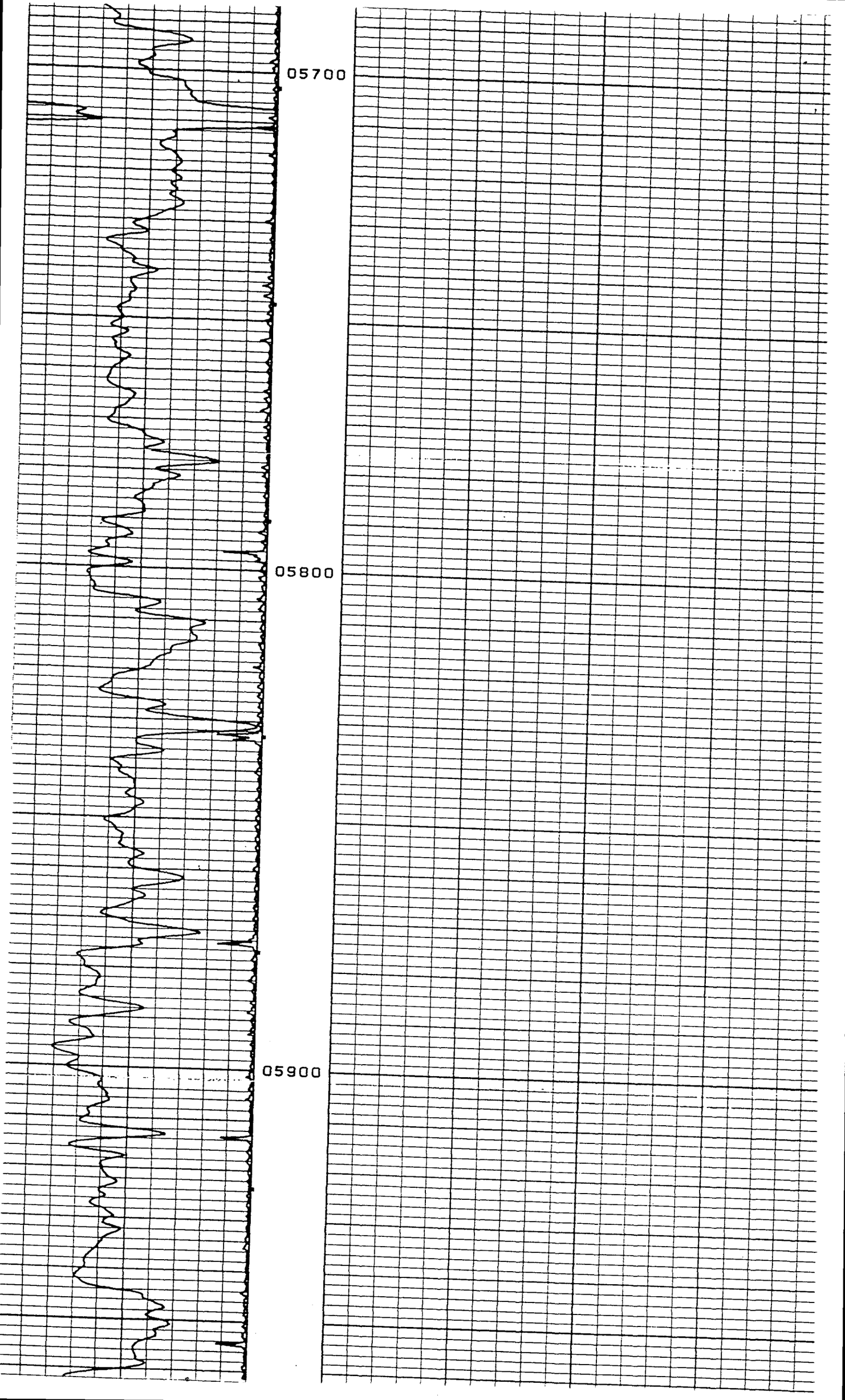
TRAVEL TIME
AMPLITUDE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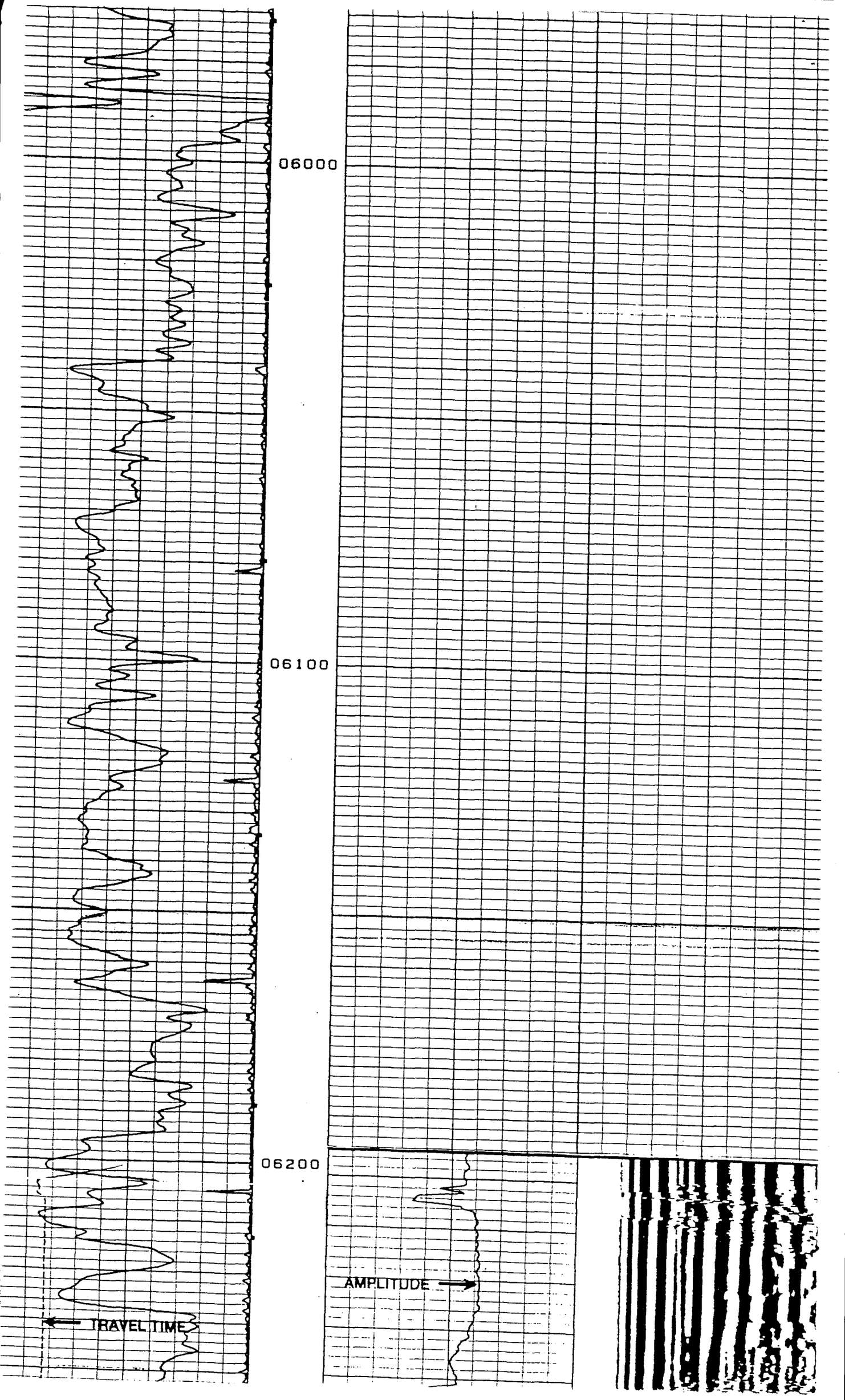
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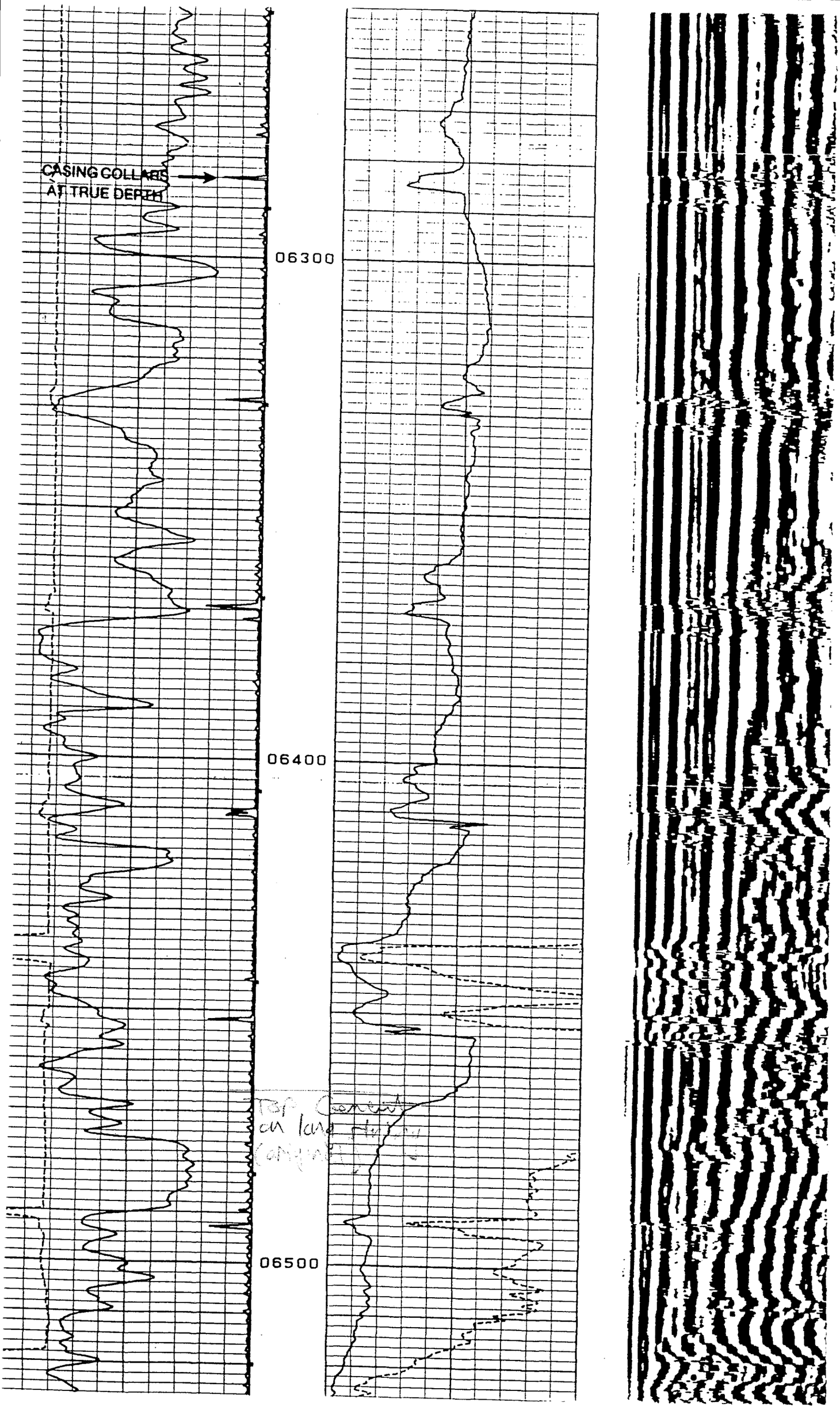
TRAVEL TIME
AMPLITUDE


CASING COLLARS
AT TRUE DEPTH
06300
06400
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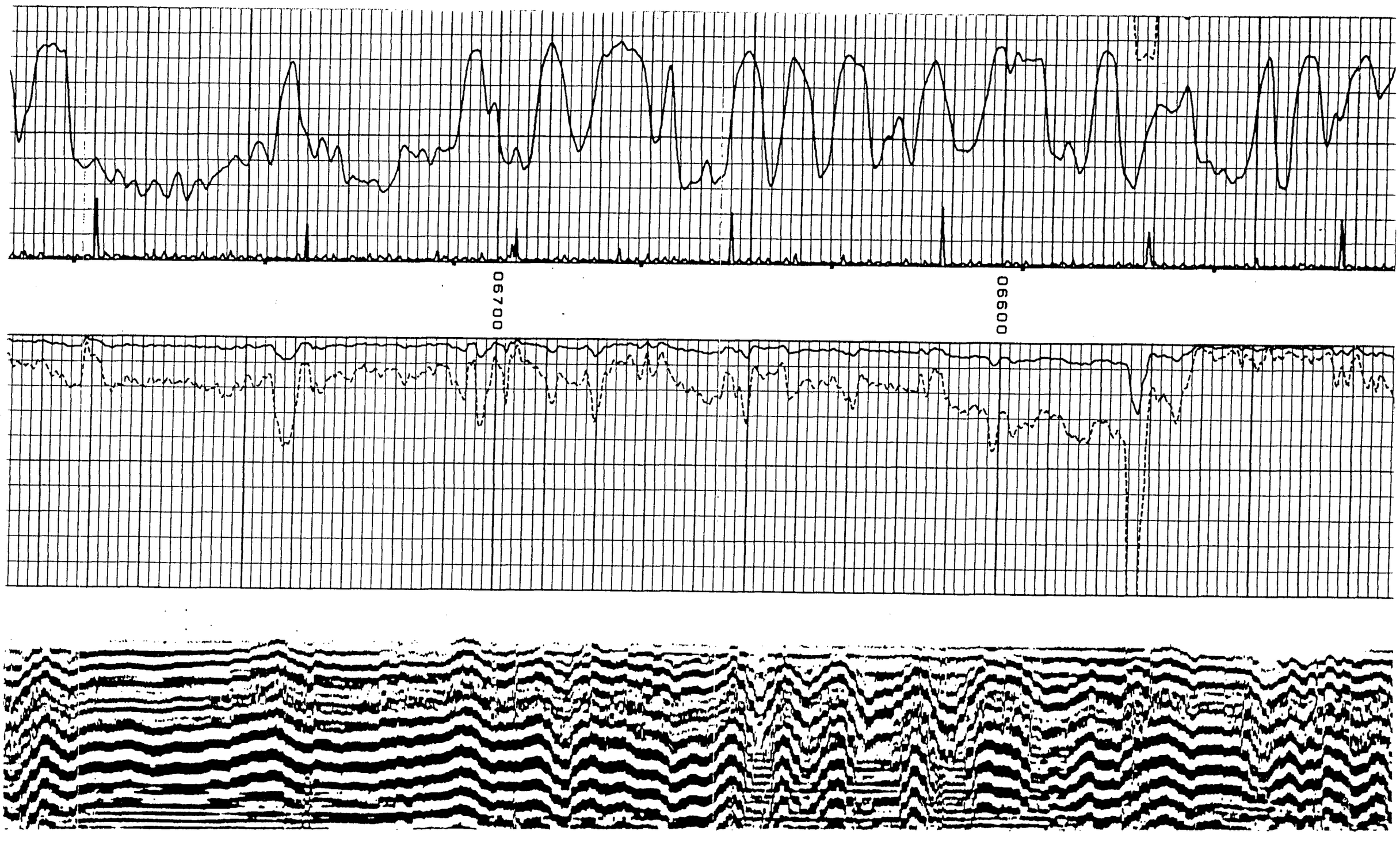
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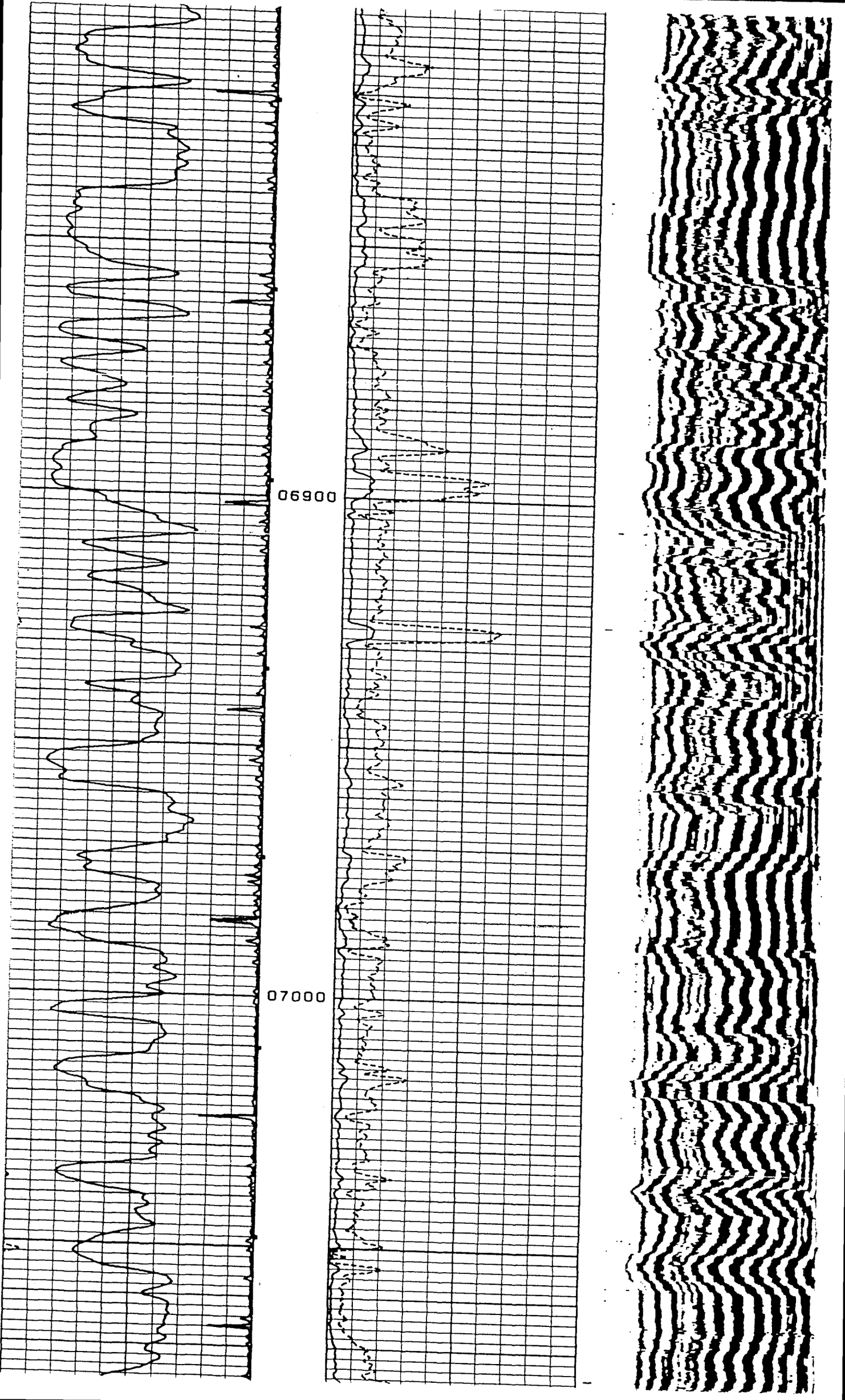
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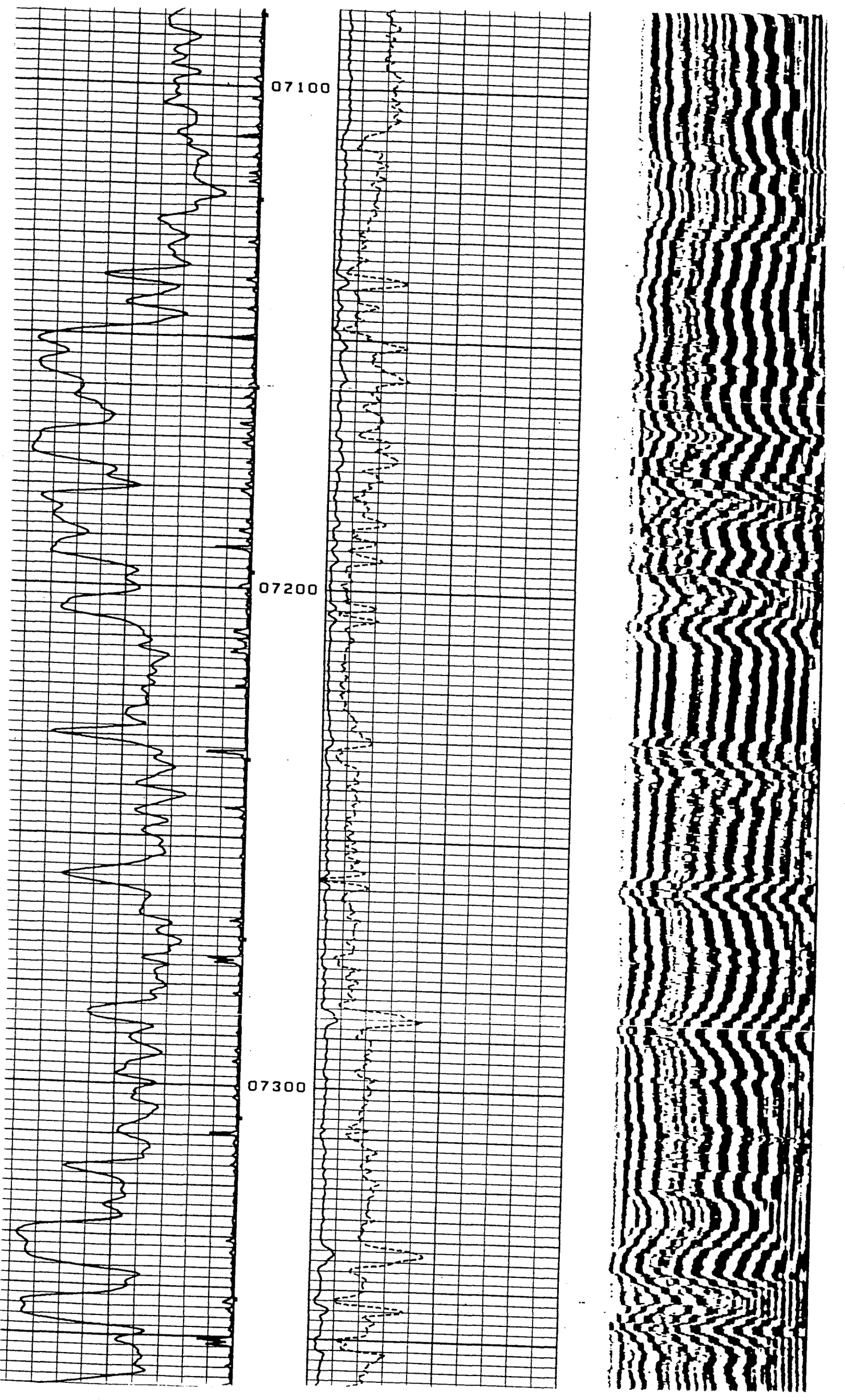
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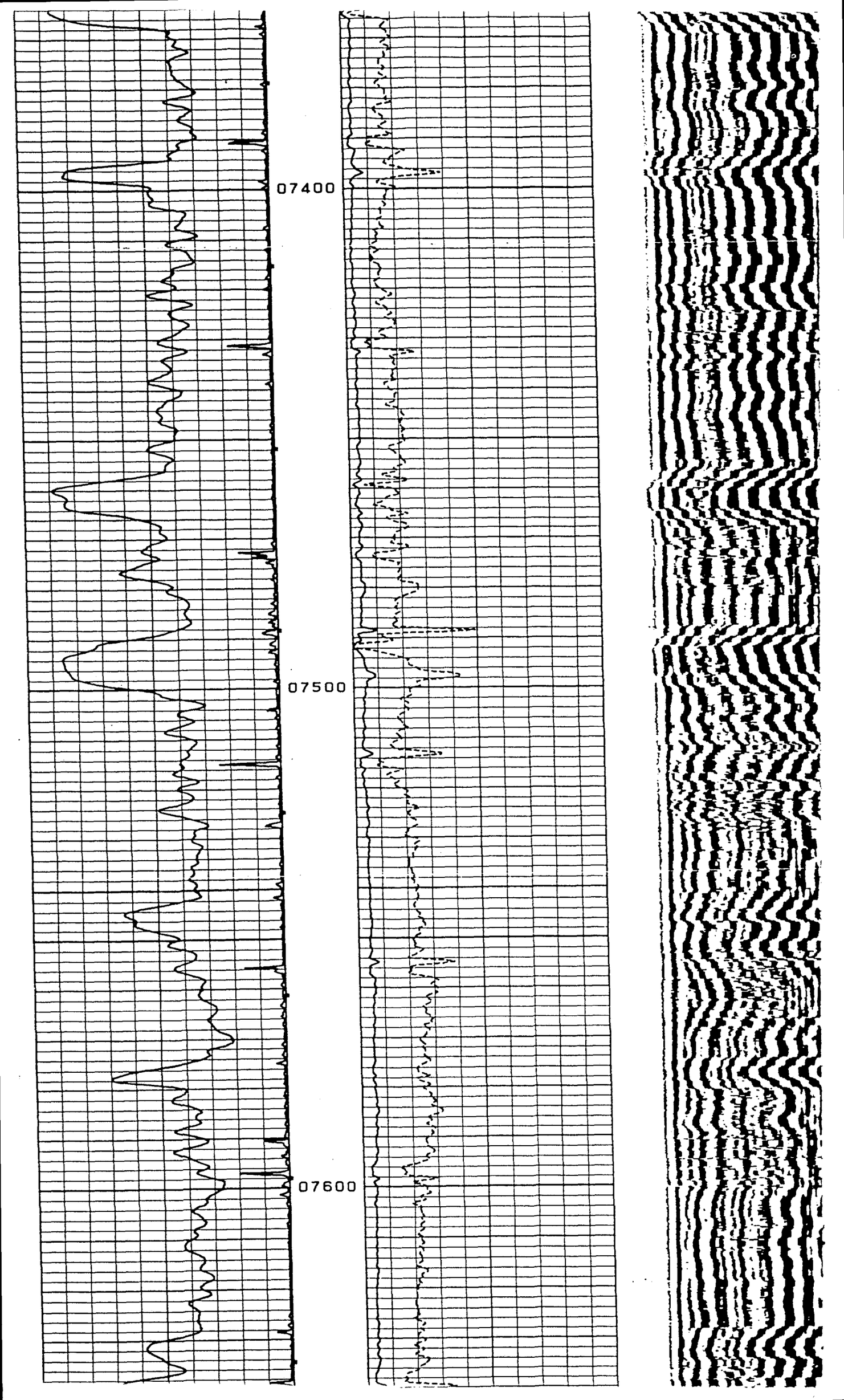
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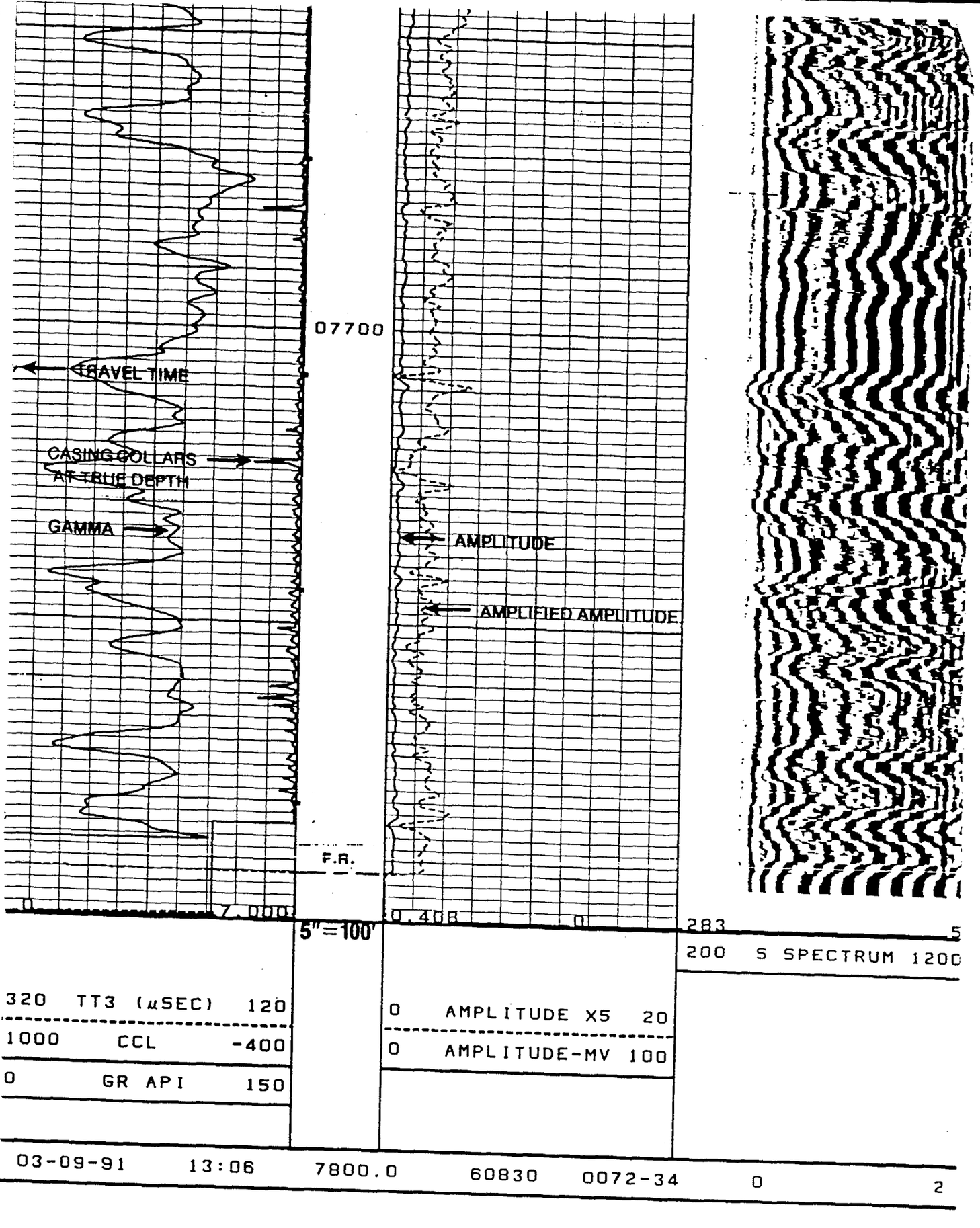


320 TT3 (μSEC) 120		0 AMPLITUDE X5 20	
1000 CCL -400		0 AMPLITUDE-MV 100	
0 GR API 150			

03-09-91 13:06 7800.0 60830 0072-34 0 2

TOOL CALIBRATION	6.040 VOLTS	CASING O.D.	7.000 IN
GATE WINDOW	283 TO 323 μSEC	CEMENT STRENGTH	0 PSI
TOTAL BOND	0.0 DB/FT	CASING THICKNESS	0.408 IN
PLAYBACK OFFSET	0.0 FT	BMAX	0.0 MV

03-09-91 13:00 7549.0 60830 0072-34 0 1

			200 S SPECTRUM 1200
320 TT3 (μSEC) 120		0 AMPLITUDE X5 20	
1000 CCL -400		0 AMPLITUDE-MV 100	

Dresser Atlas
Division of Dresser Industries, Inc.

RECEIVED
JAN 21 1985
DIVISION OF
OIL, GAS & MINING

Epilog®

CASED HOLE EXPLORATION

COMPANY WALKER ENERGY

WELL WALKER-PAUITE 1-7

FIELD ALTAMONT

COUNTY DUCHESNE STATE UTAH

LOCATION 1976' FNL & 1976' FEL SW/NE

SEC 1 TWP 3S RGE 5W

ELEVATION: KB 6013 DF 6012 GL 5997

DATE SEPTEMBER 18, 1984 ECC NO DCC# 2846

FOLD HERE

In making interpretations of logs our employees will give Customer the benefit of their best judgment, but since all interpretations are opinions based on inferences from electrical or other measurements we cannot, and we do not guarantee the accuracy or the correctness of any interpretation. We shall not be liable or responsible for any loss, cost, damages, or expenses whatsoever incurred or sustained by the Customer resulting from any interpretation made by any of our employees.

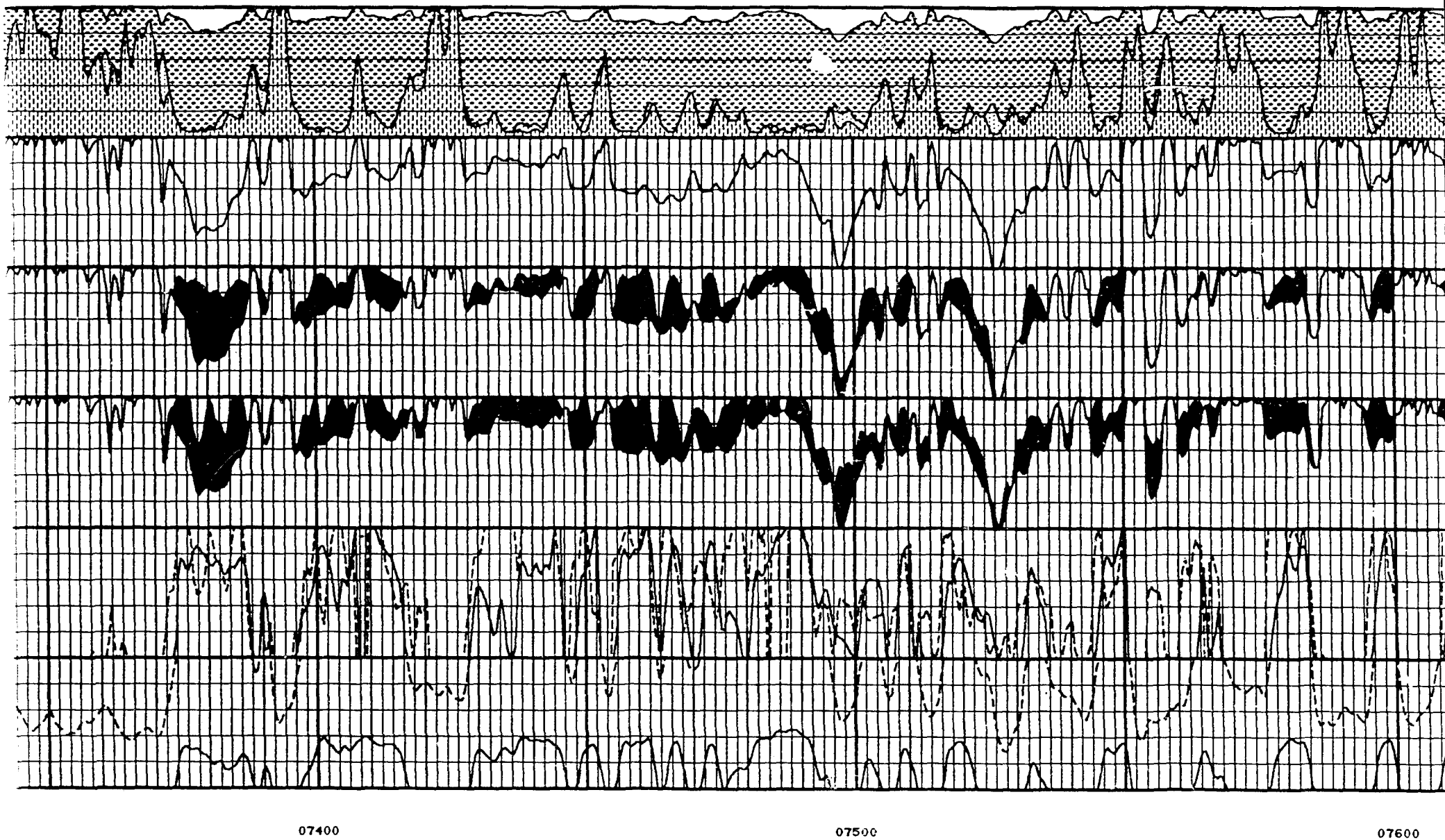
Computation	Log Used C/O, DDNLL, SPECTRALOG		Program CHES
	Center DLAC	Log Analyst HARDING	Date 9-18-84
Field Data	Location ROOSEVELT	Engineer BRUNNER	Date 8-29-84

COMPUTATION PARAMETERS

DEPTH INTERVAL FROM	TO	Σ SHALE	Σ WATER	Σ HYCARB	Σ MATRIX		TPI Min-Max	R_w	Iw	C	B	
5692	10113	24	95	18	10		3.5/9	.2	2.38	.8	.65	

REMARKS

DEPTH	SIGMA	WATER SATURATIONS	POROSITY AND FLUIDS BULK VOLUME			FORMATION BULK VOLUME
		C/O	C/O POROSITY	NLL POROSITY	RT POROSITY	100 % 0
		100 0	25 % 0	25 % 0	25 % 0	POROSITY
						OTHER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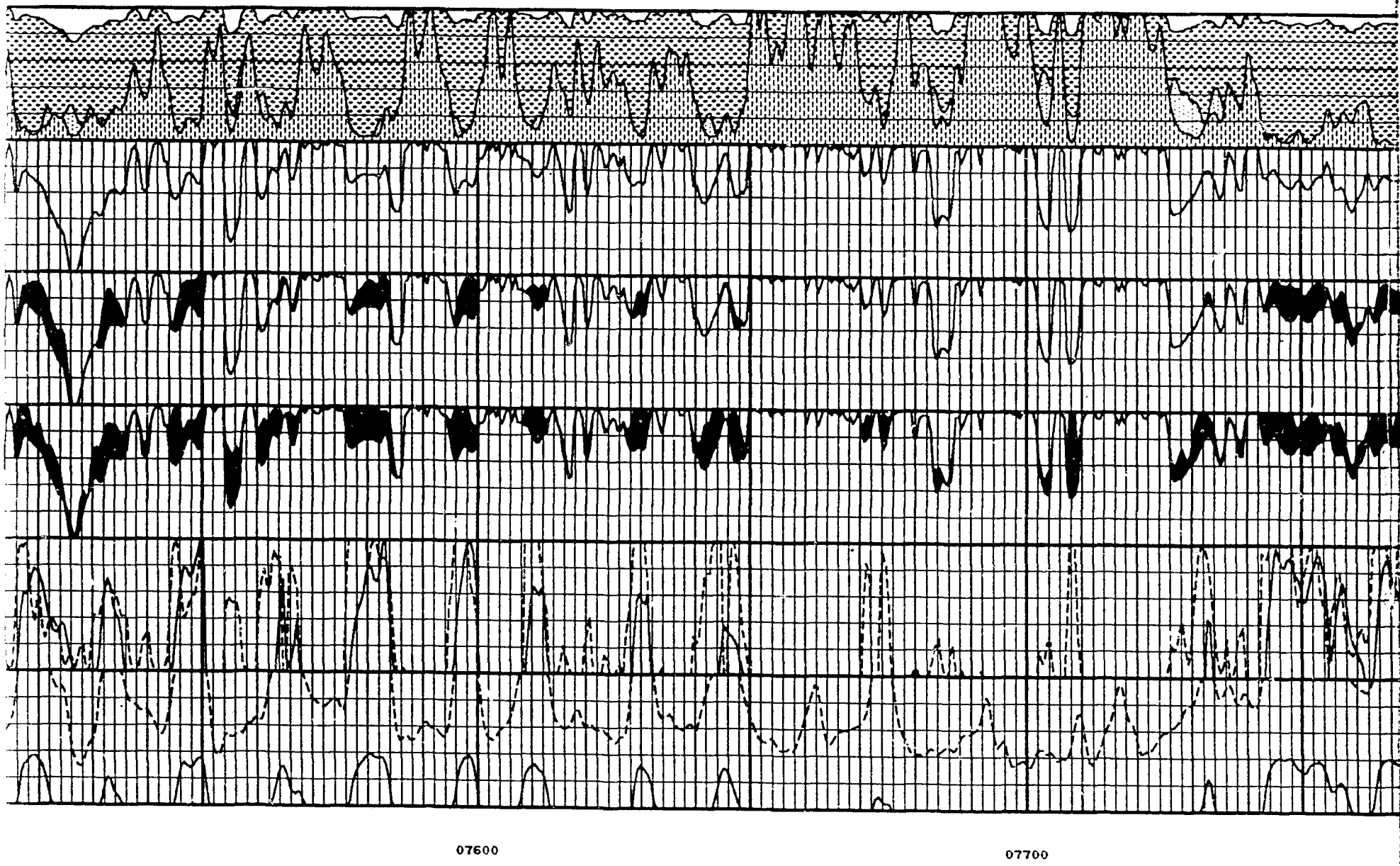
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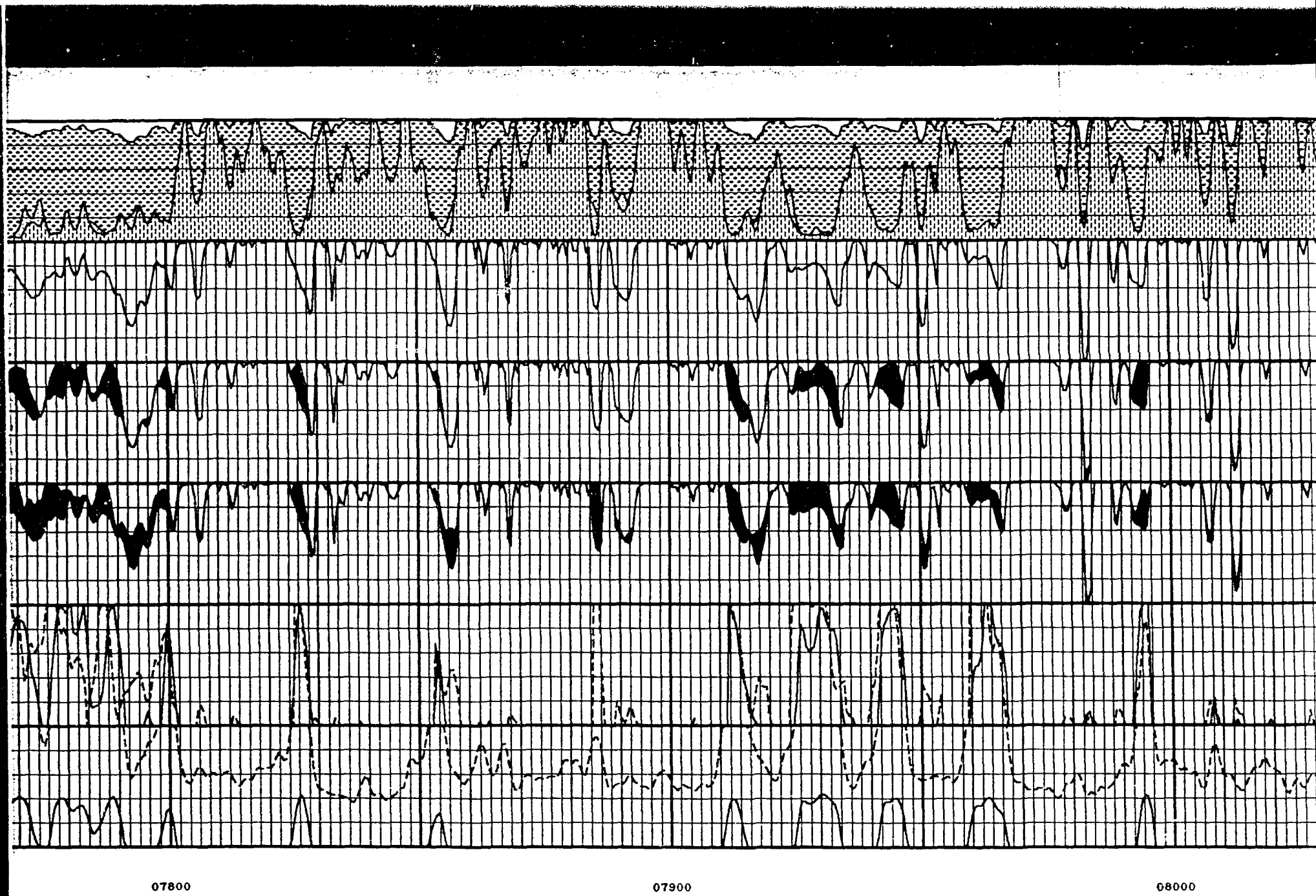
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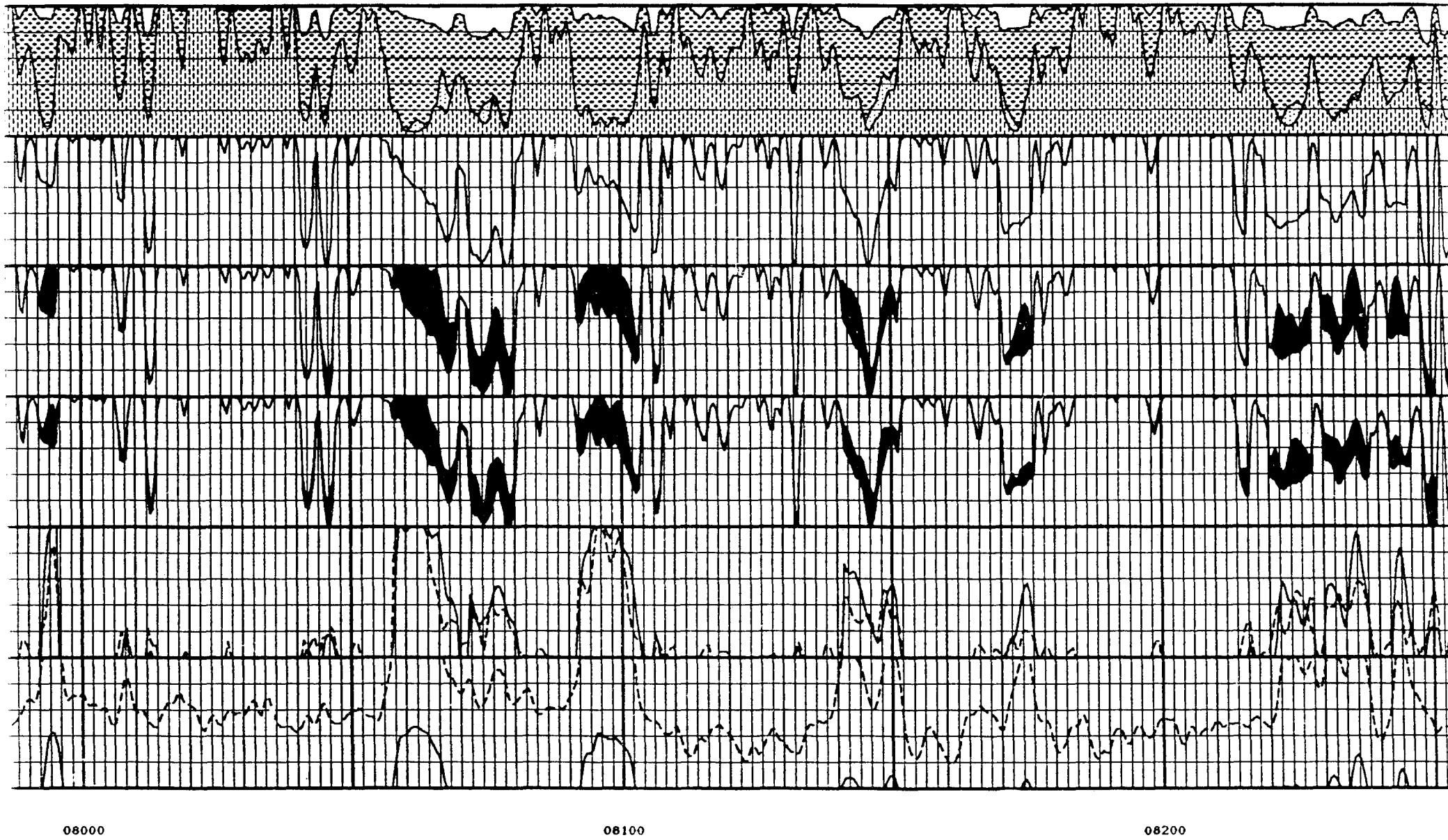
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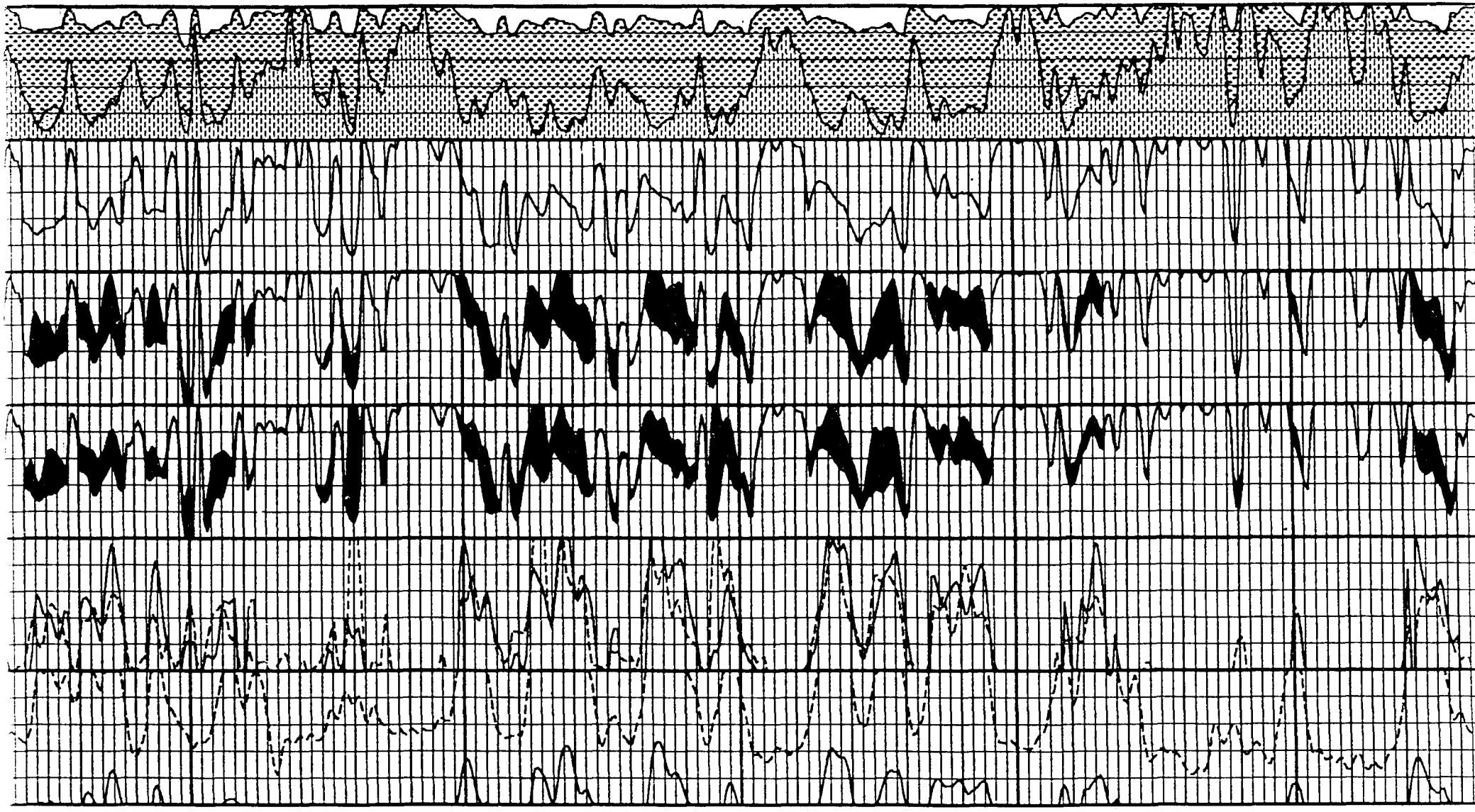
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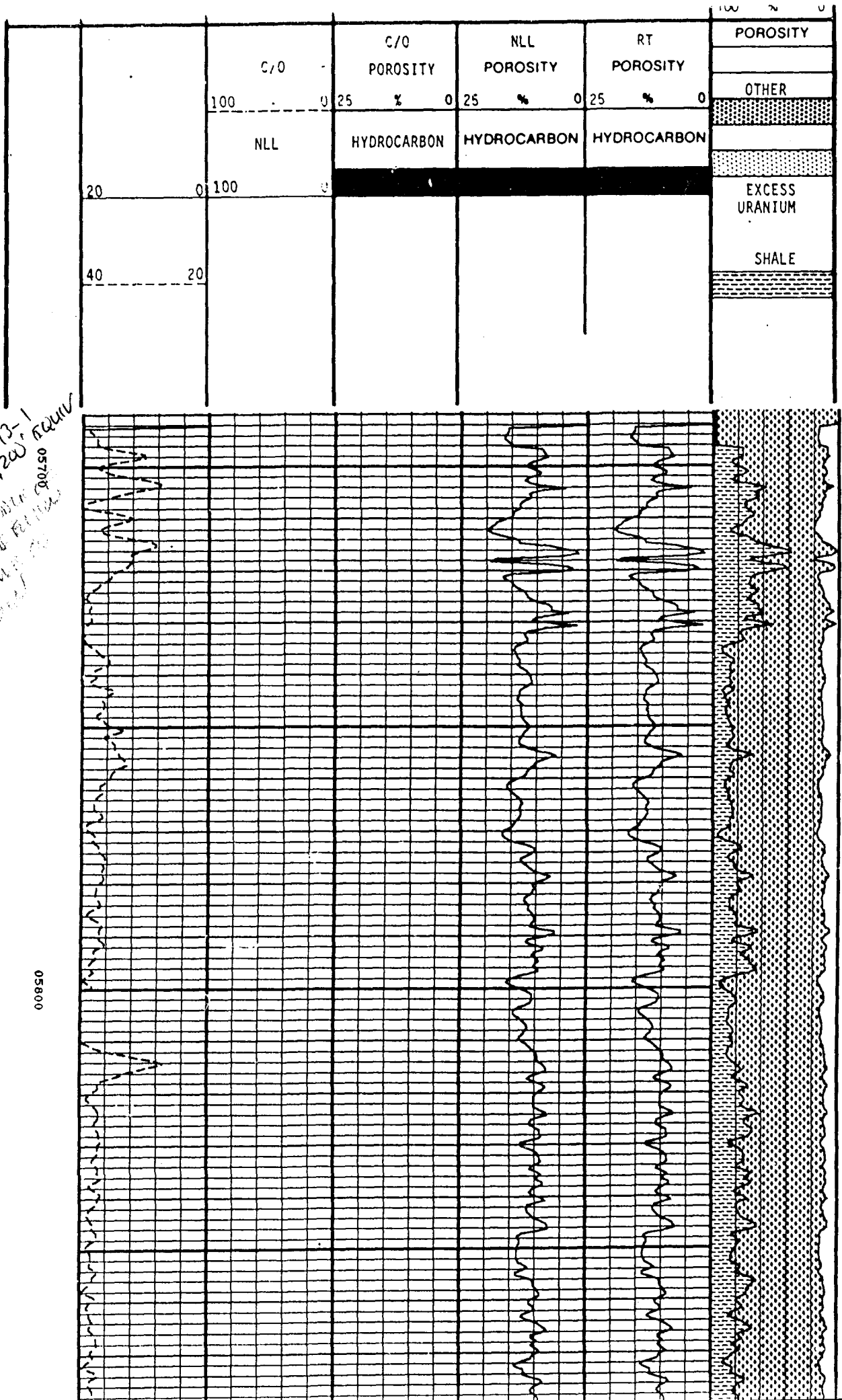
C/O
100 0
NLL
20 0
40 20
C/O
POROSITY
25 % 0
HYDROCARBON
NLL
POROSITY
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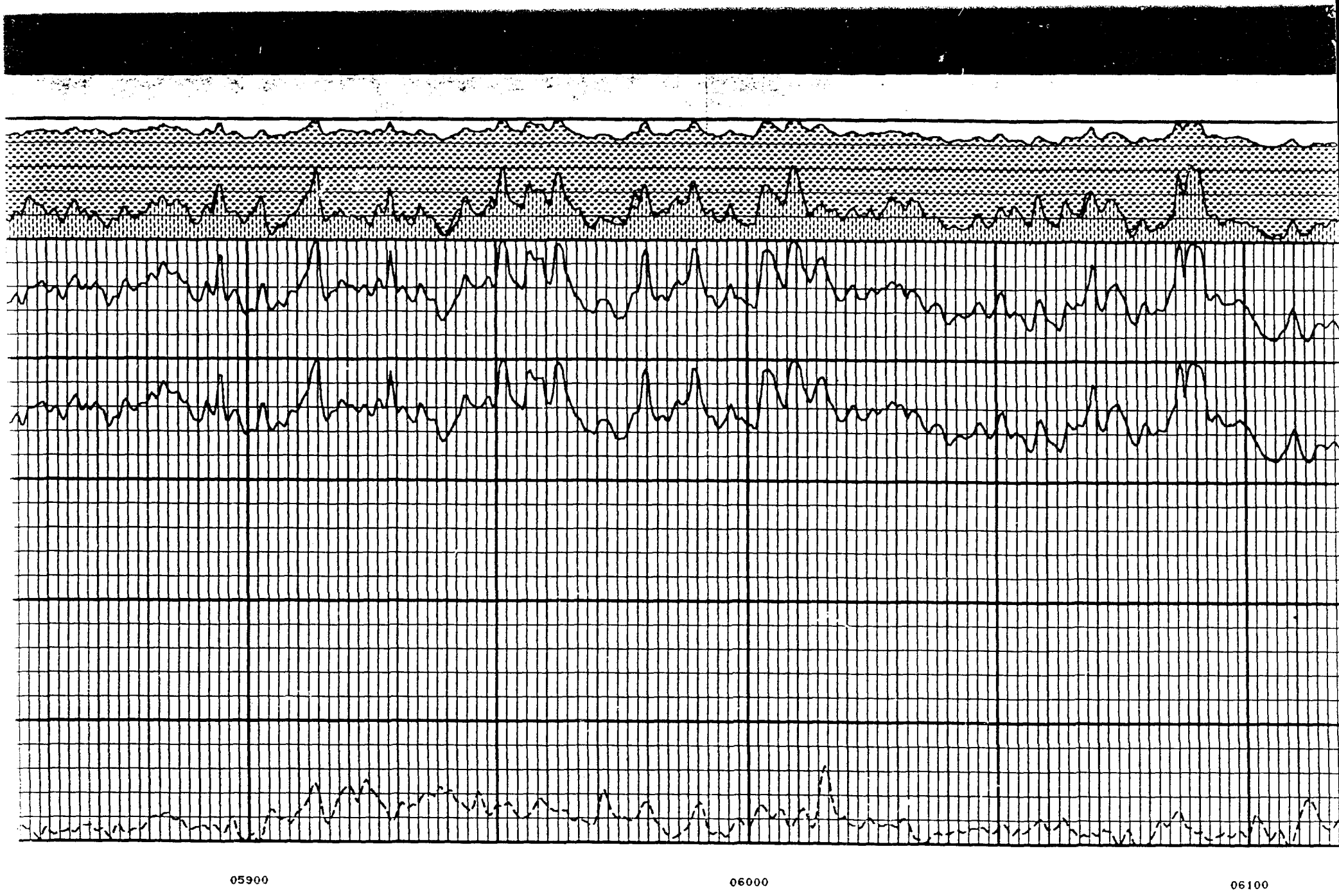
RT
POROSITY
25 % 0
HYDROCARBON
POROSITY
OTHER
EXCESS
URANIUM
SHALE

05800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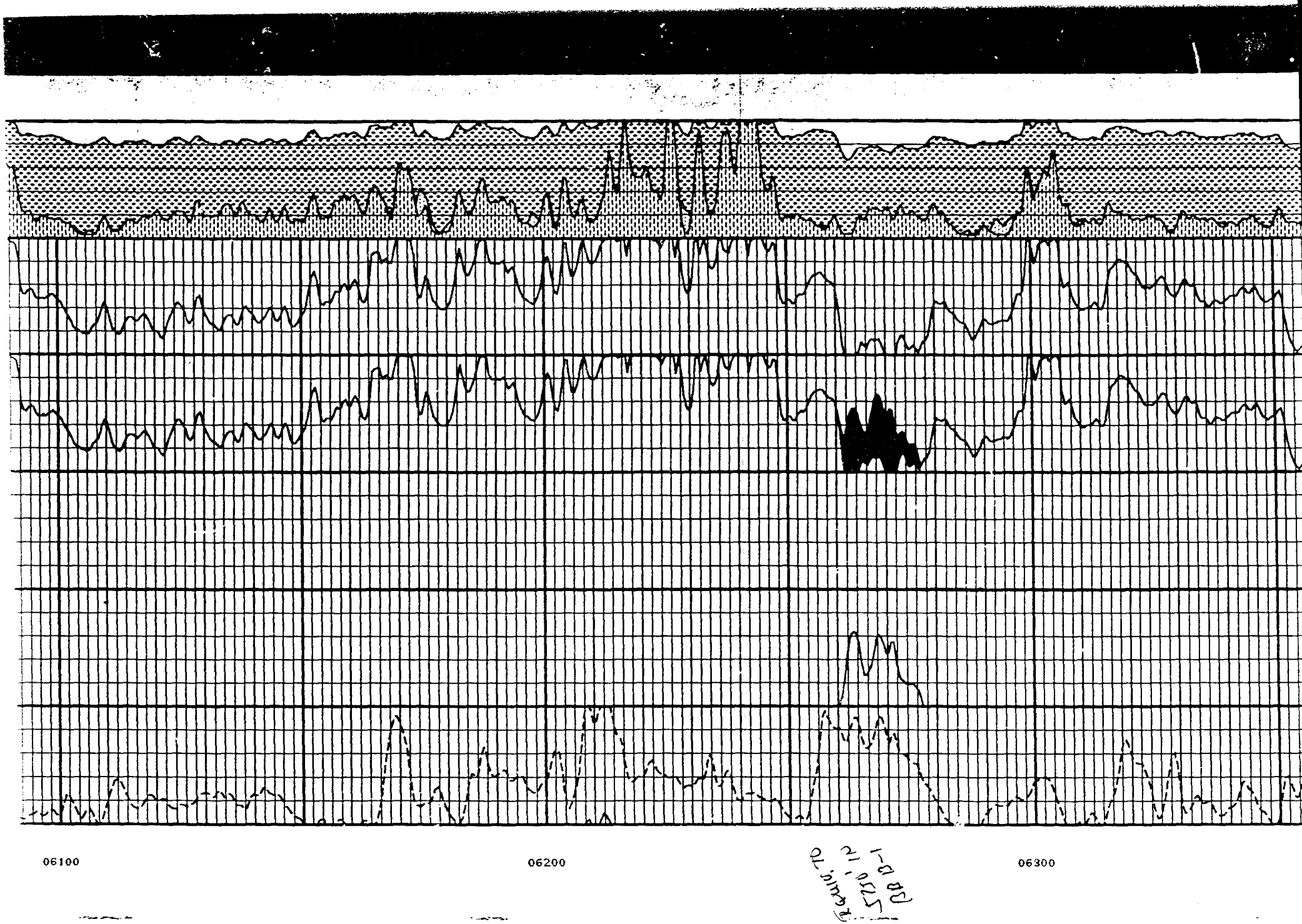
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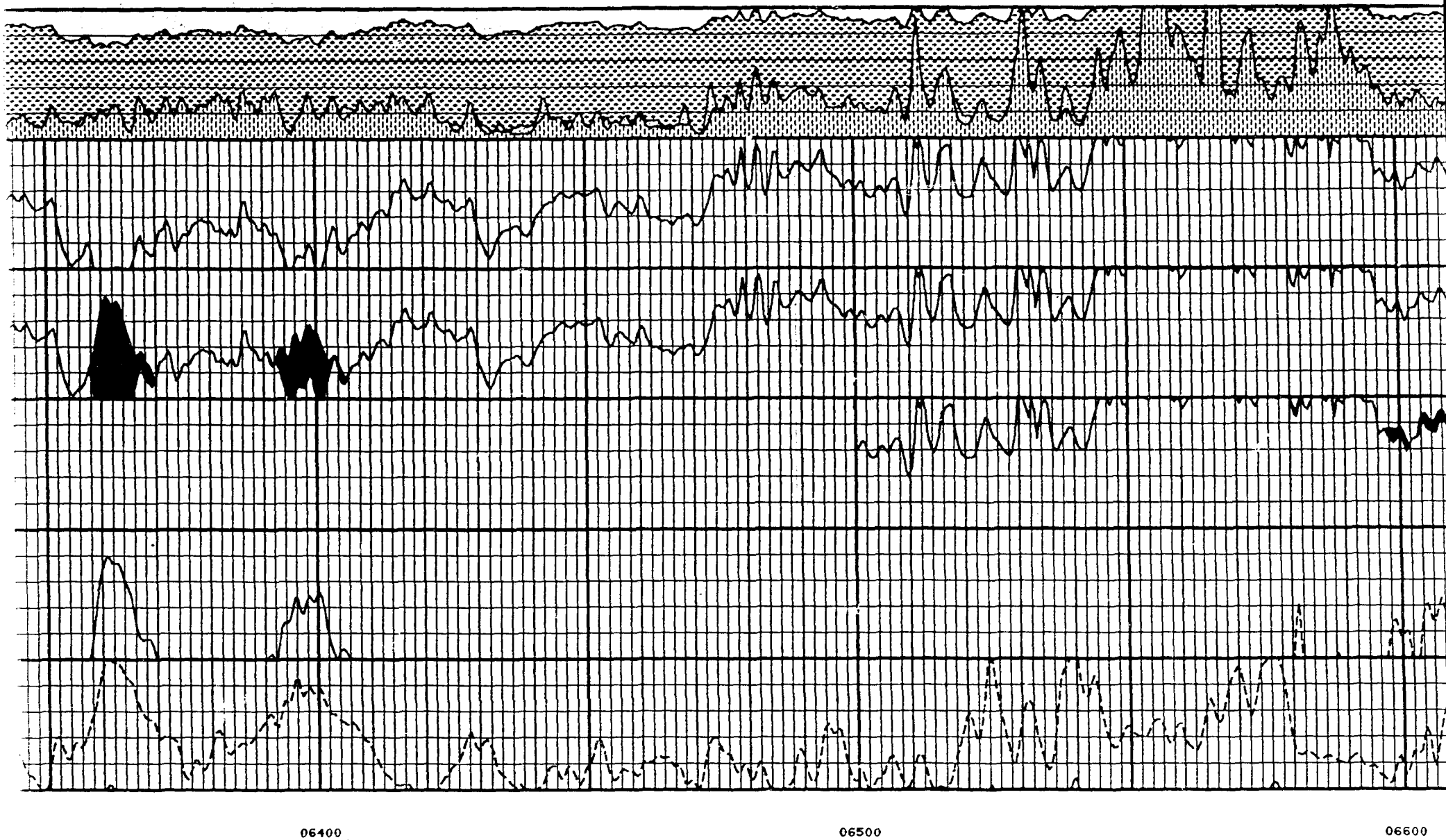
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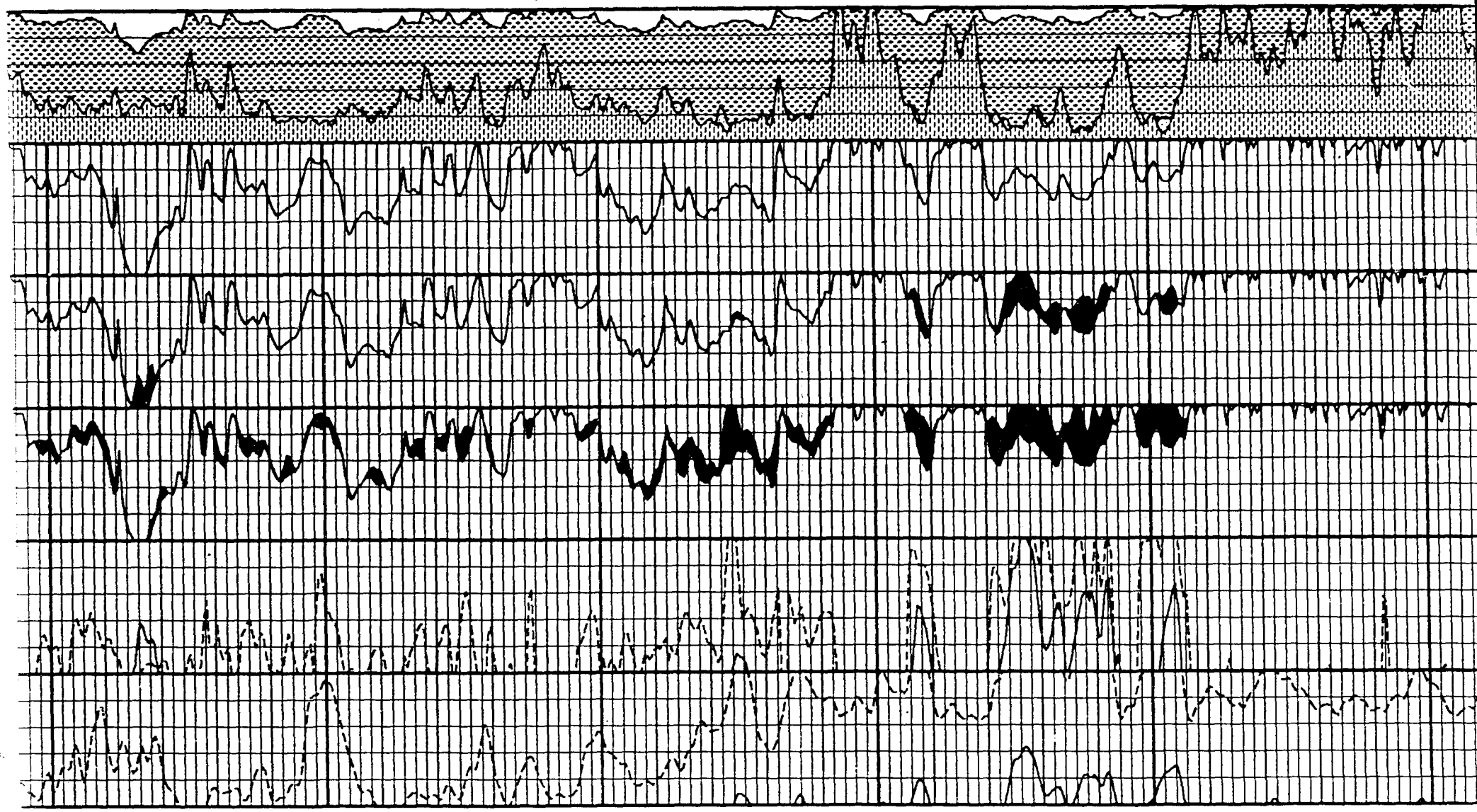
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FORM 925347 (9/80)

Dresser Atlas

DRESSER

Fraclog
Gamma Ray

FILE NO. 9418

API NO.

COMPANY WALKER ENERGY

WELL WALKER-PAIUTE 1-7

FIELD ALTAMONT

COUNTY DUCHESNE STATE UTAH

LOCATION: 1976' F.N.L. & 1976' F.E.L. SW/NE

SEC 1 TWP 3 S RGE 5 W

Other Services: SPECTRALOG DDNLL C/O

Permanent Datum GL Elev. 5997

Log Measured from KB 16 Ft Above Permanent Datum

Drilling Measured from KB

Elev. KB 6013 DF 6012 GL 5997

Date	8-29-84			
Run No.	ONE			
Service Order	83455			
Depth – Driller	10113			
Depth – Logger	10099			
Bottom Logged Interval	10090			
Top Logged Interval	5700			
Casing – Driller	---- @	@	@	@
Casing – Logger	----			
Bit Size	----			
Type Fluid in Hole	FORM. WATER			
Density and Viscosity	----			
pH and Fluid Loss	---- cc			cc
Source of Sample	----			
Rm @ Meas. Temp	---- @ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	---- @ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	---- @ °F	@ °F	@ °F	@ °F
Source of Rmf and Rmc	----			
Rm @ BHT	---- @ °F	@ °F	@ °F	@ °F
Time Since Circ	6 HOURS			
Max. Rec. Temp. Deg. F	205 °F	°F	°F	°F
Equip. No. and Location	6351 RSVT.			
Recorded By	BRUNNER			
Witnessed By	ALLEN/STEWARD			

RECEIVED JAN 21 1985 DIVISION OF OIL, GAS & MINING

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOM OF THEIR BEST JUDGEMENT. E INTERPRETATIONS ARE OPINIO INFERENCES FROM ELECTRICAL MEASUREMENTS. WE CANNOT AN GUARANTEE THE ACCURACY OR ANY INTERPRETATION. WE SH OR RESPONSIBLE FOR ANY LO OR EXPENSE WHATSOEVER INC SUSTAINED BY THE CUSTOMER ANY INTERPRETATION MADE B EMPLOYEES.

ROGER REINMILLER
WESTERN ATLAS DENVER
303 – 293-0600
9' SPACING
FIRST ARRIVAL COMPRESSIONAL.
THEN SHEAR ARRIVAL

CASING RECORD

SIZE	WGT	FROM	TO
7"		SURF.	T.D.

REMARKS RUN (1)

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
1	1	AC	74587	1603	CENT.

FORM 125347 (9/80)

Dresser Atlas

DRESSER

Fraclog
Gamma Ray

FILE NO. 9418

API NO.

COMPANY WALKER ENERGY

WELL WALKER-PAIUTE 1-7

FIELD ALTAMONT

COUNTY DUCHESNE STATE UTAH

LOCATION:
1976' F.N.L. & 1976' F.E.L.
SW/NE
SEC. 1 TWP. 3 S RGE. 5 W

Other Services
SPECTRALOG
DDNLL
C/O

Permanent Datum GL Elev. 5997
Log Measured from KB 16 Ft. Above Permanent Datum
Drilling Measured from KB

Elev.
KB 6013
DF 6012
GL 5997

Date	8-29-84		
Run No.	ONE		
Service Order	83455		
Depth – Driller	10113		
Depth – Logger	10099		
Bottom Logged Interval	10090		
Top Logged Interval	5700		
Casing – Driller	---- @	@	@
Casing – Logger	----		
Bit Size	----		
Type Fluid in Hole	FORM. WATER		
Density and Viscosity	----		
pH and Fluid Loss	---- cc	cc	cc
Source of Sample	----		
Rm @ Meas. Temp	---- @ °F	@ °F	@ °F
Rmf @ Meas. Temp.	---- @ °F	@ °F	@ °F
Rmc @ Meas. Temp.	---- @ °F	@ °F	@ °F
Source of Rmf and Rmc	----		
Rm @ BHT	---- @ °F	@ °F	@ °F
Time Since Circ	6 HOURS		
Max. Rec. Temp. Deg. F	205 °F	°F	°F
Equip. No. and Location	6351 RSVT.		
Recorded By	BRUNNER		
Witnessed By	ALLEN/STEWARD		

RECEIVED
JAN 21 1985
DIVISION OF
OIL, GAS & MINING

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASURMENTS, WE CANNOT AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGE OR EXPENSE WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

CASING RECORD

SIZE	WGT	FROM	TO
7"		SURF.	T.D.

REMARKS RUN (1)

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
1	1	AC	74587	1603	CENT.

WALKER ENERGY

WALKER-PAIUTE 1-7

SERVICE KR204A FILE 3

TOP EQUIVALENT TO 5,201' IN BB 13-1

FIRST FRACTURE EVENTS IN ARCS BELOW 6,200' IN BB 13-1 EQUIV.

0 API UNITS 150

0 MICROSECONDS 960

COMP WAVE

SHEAR

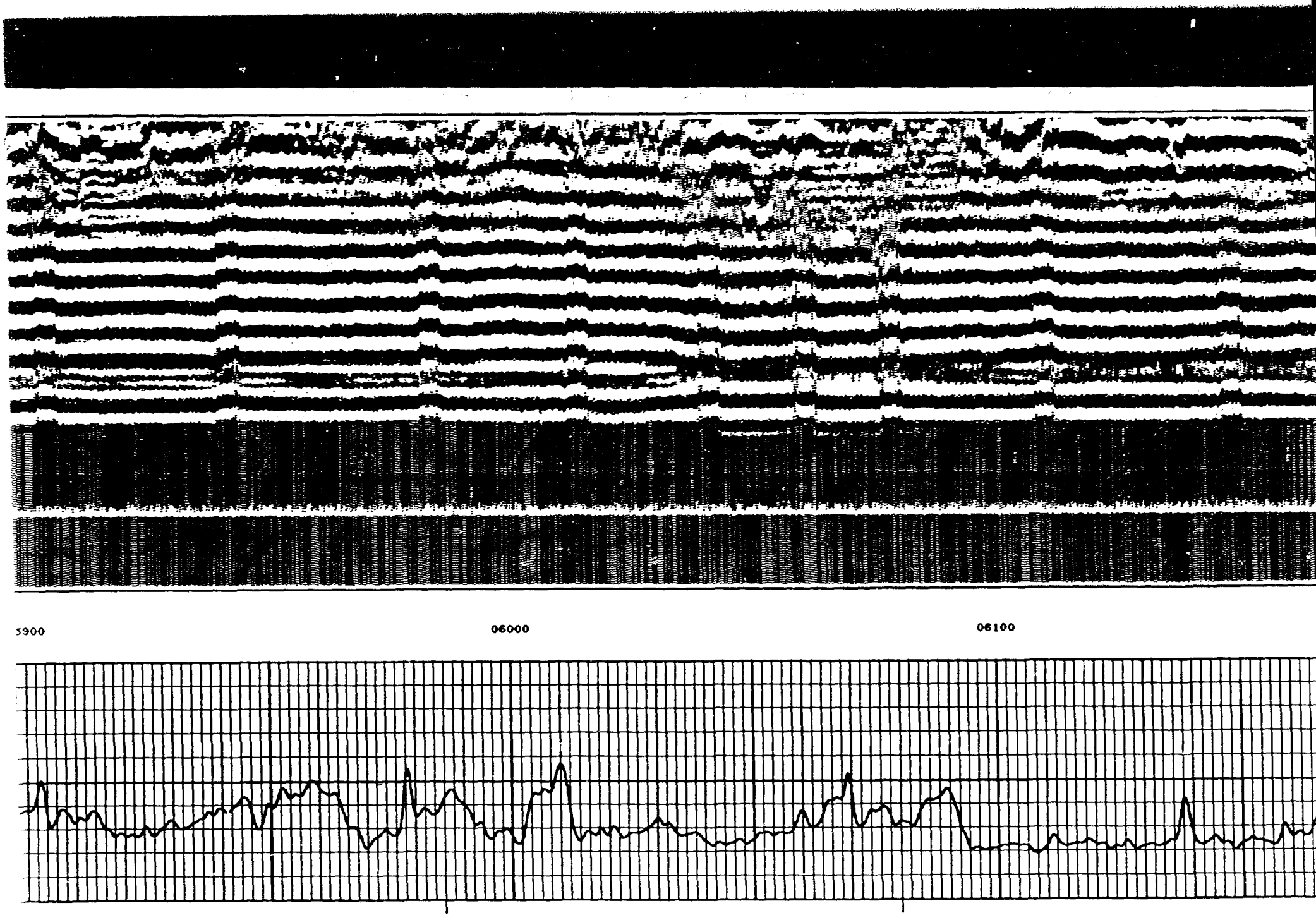
BH FLUID

GR

7100

05800

05900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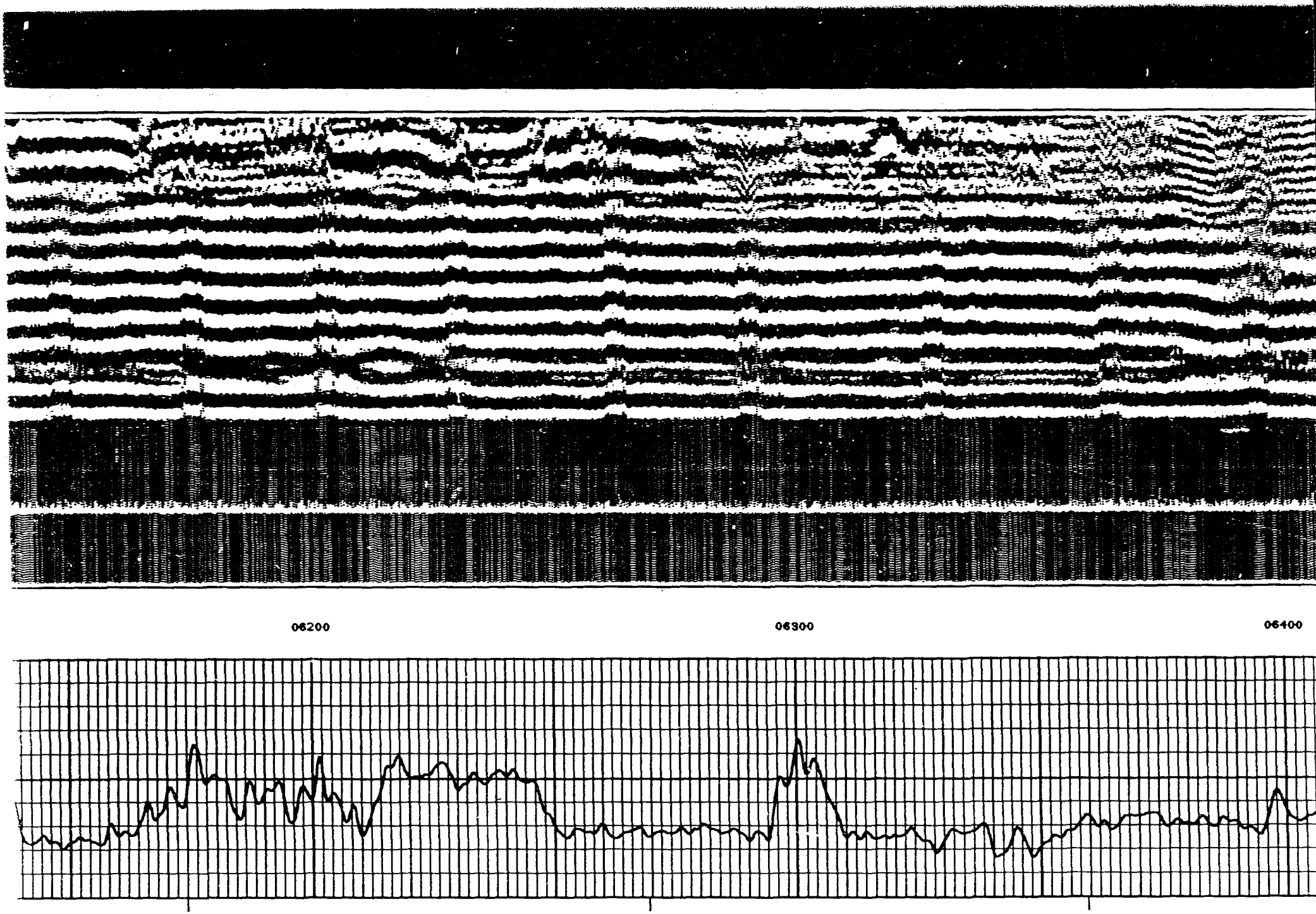
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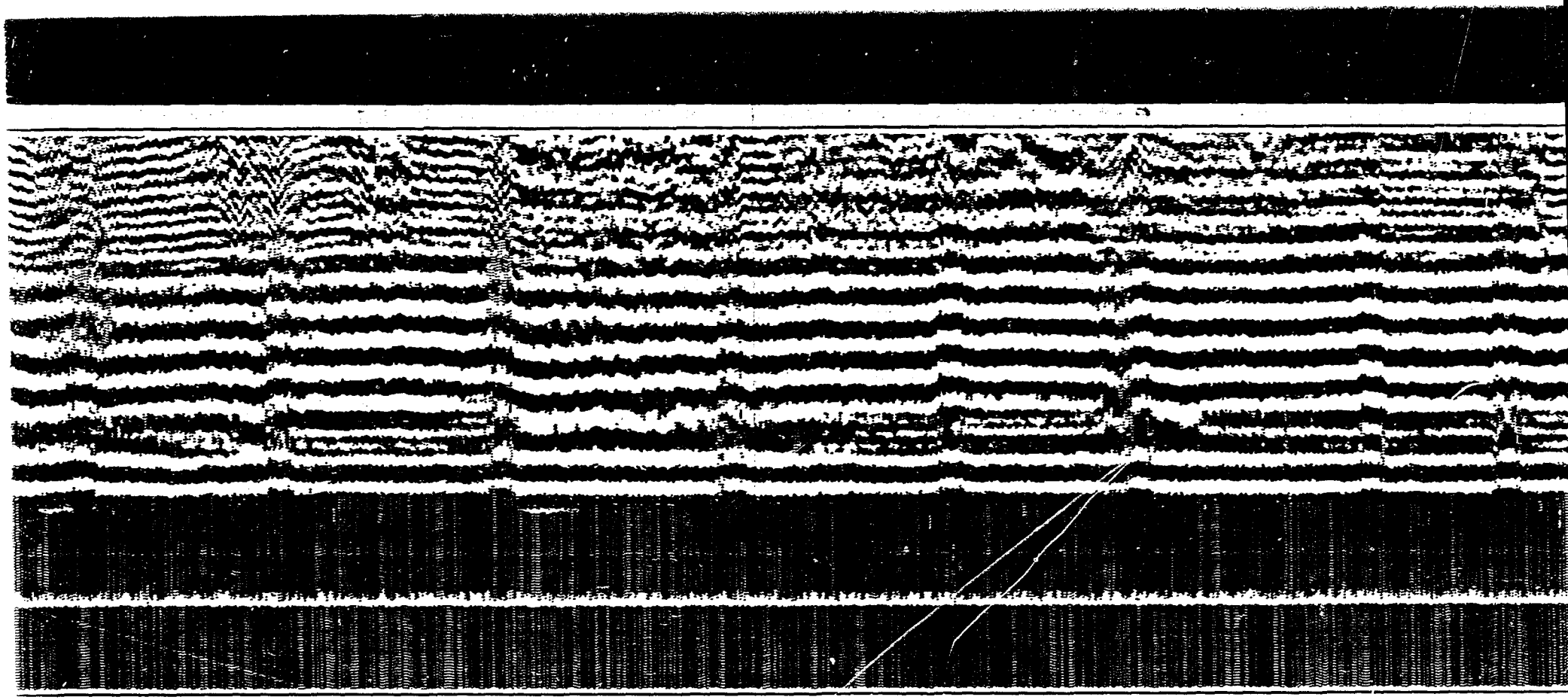

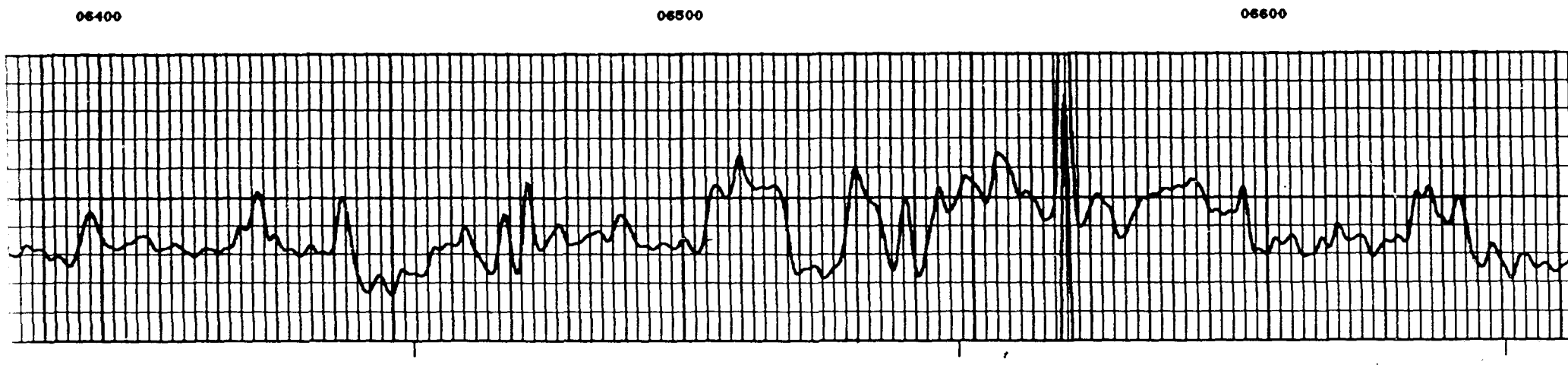
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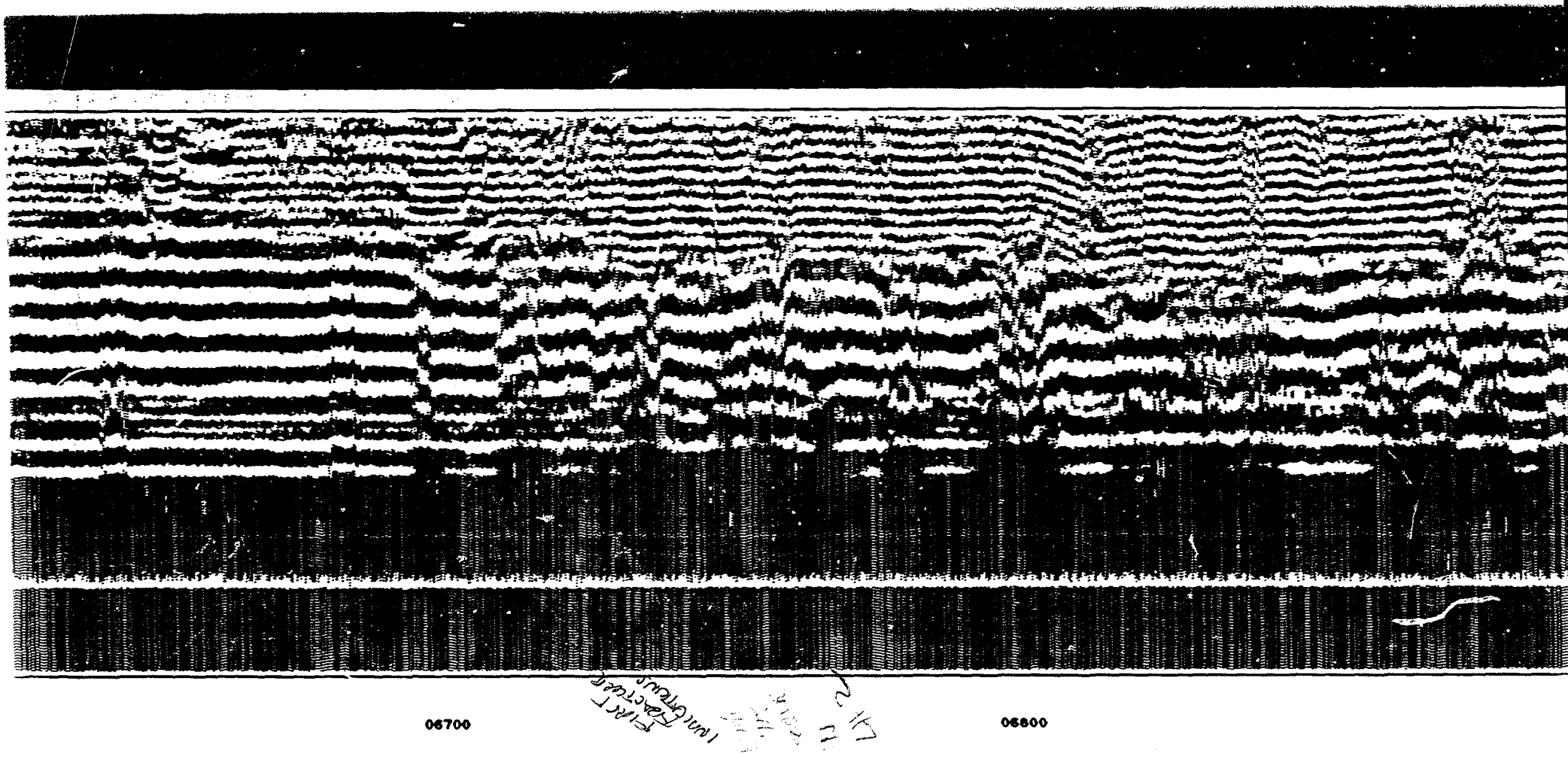

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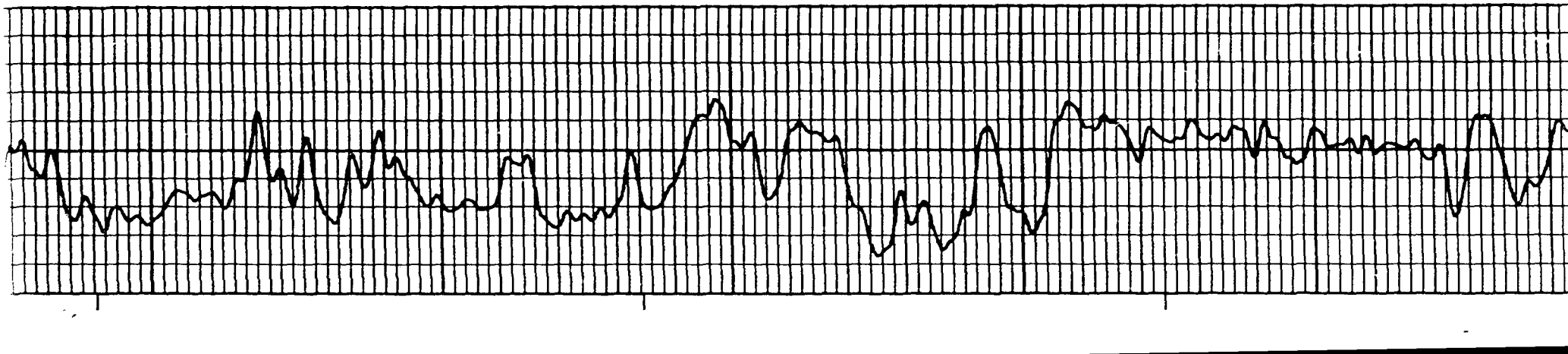

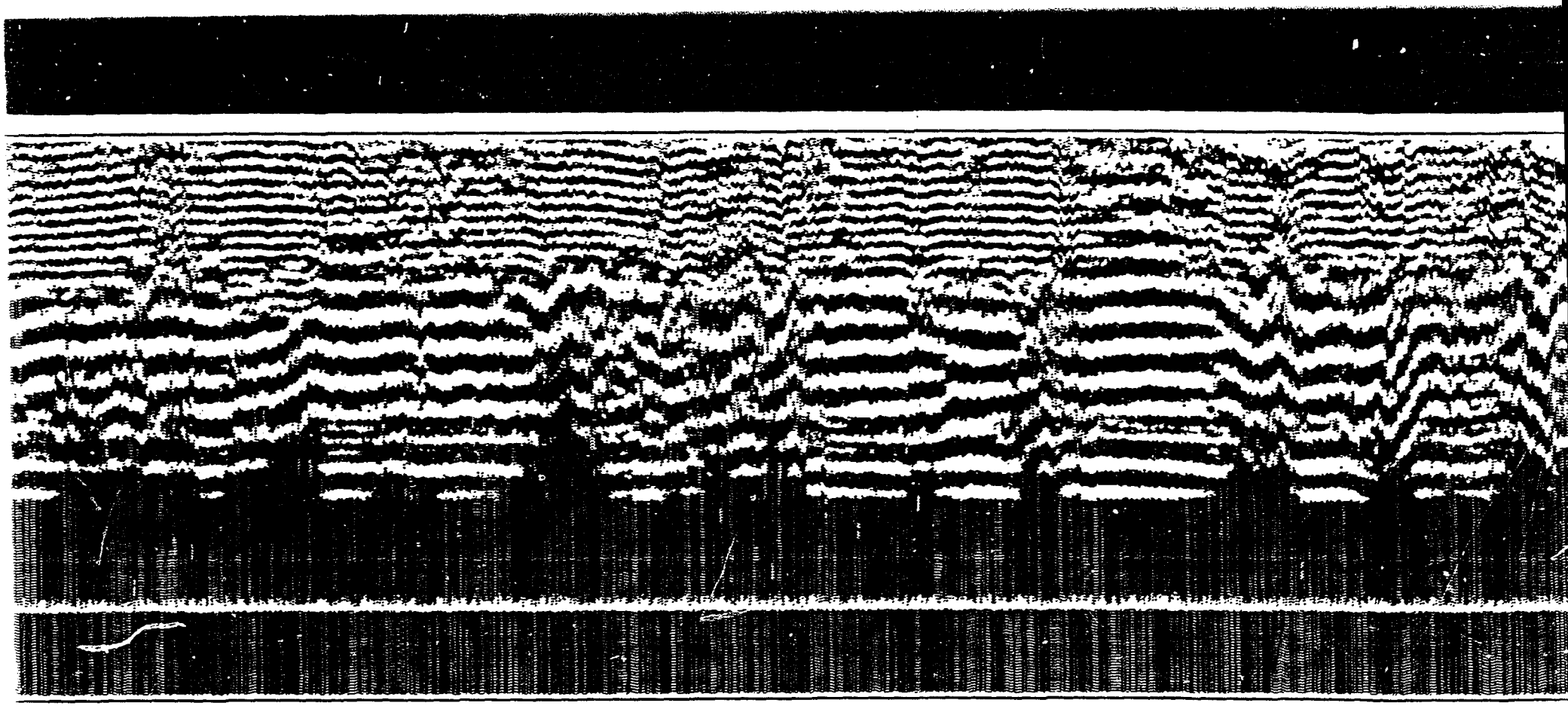

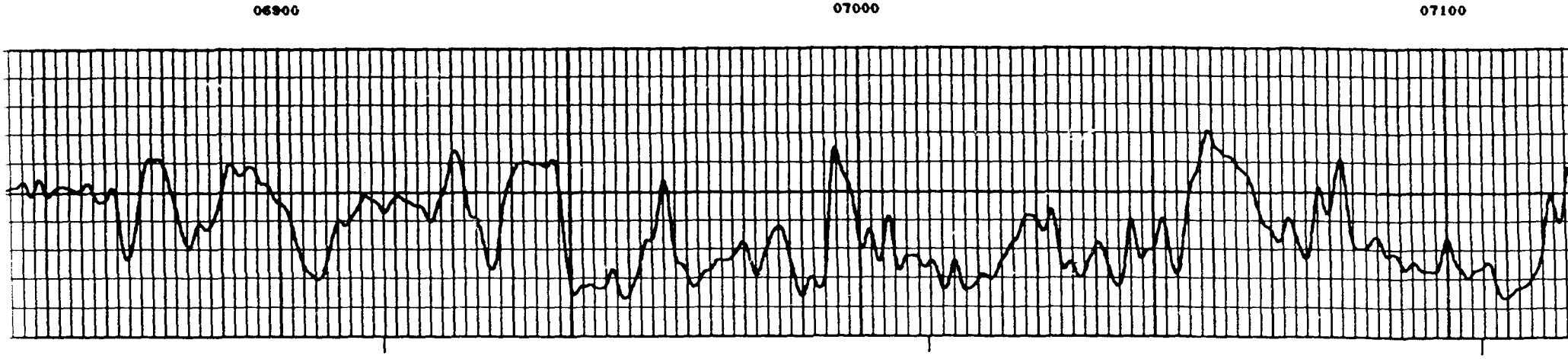
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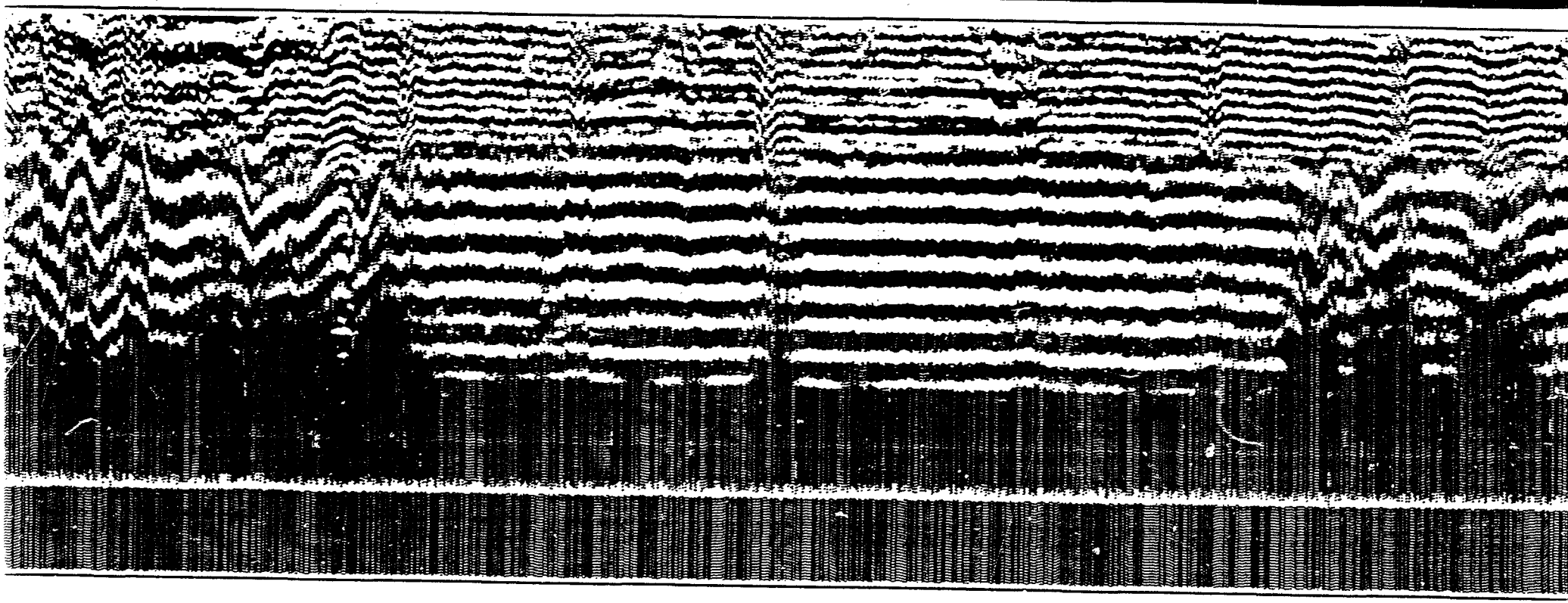

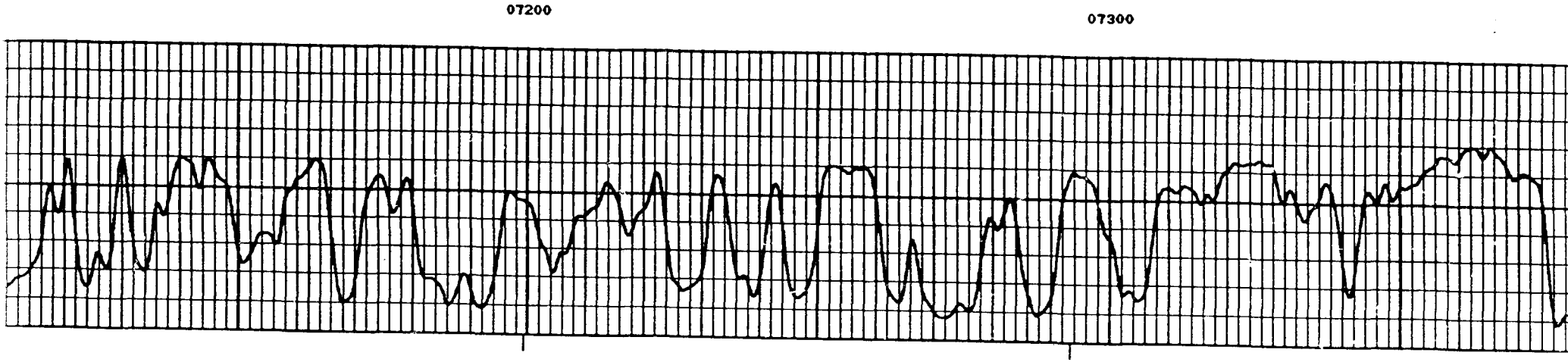
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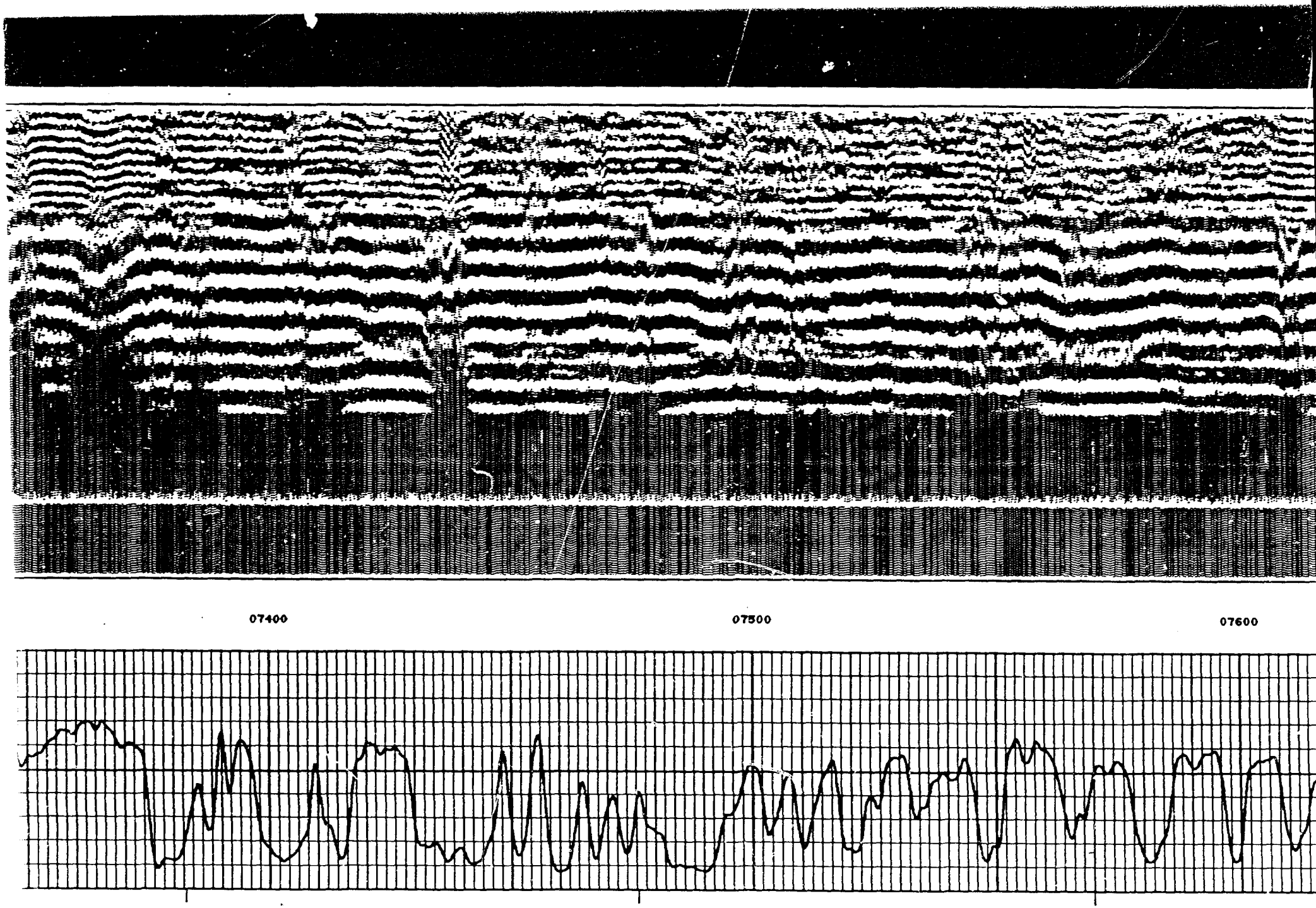
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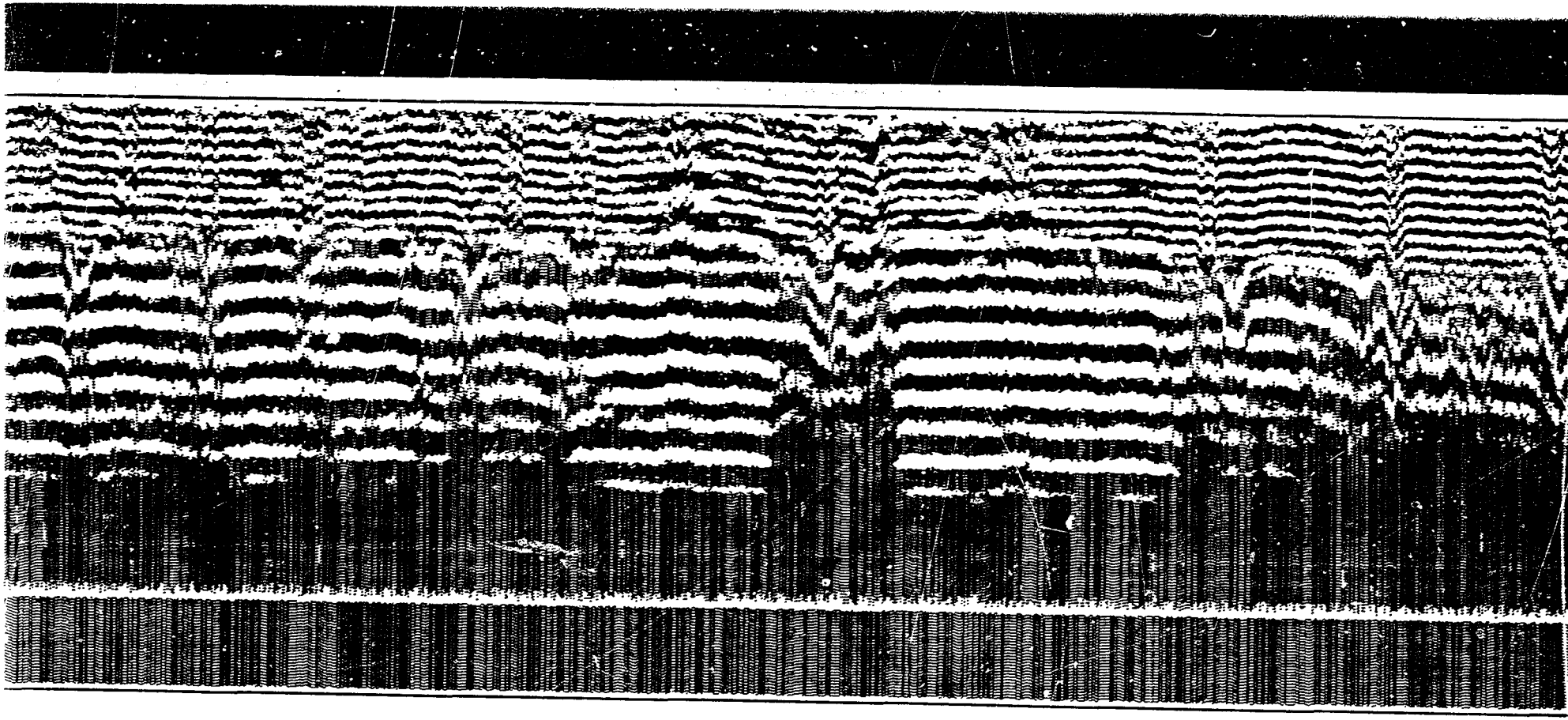

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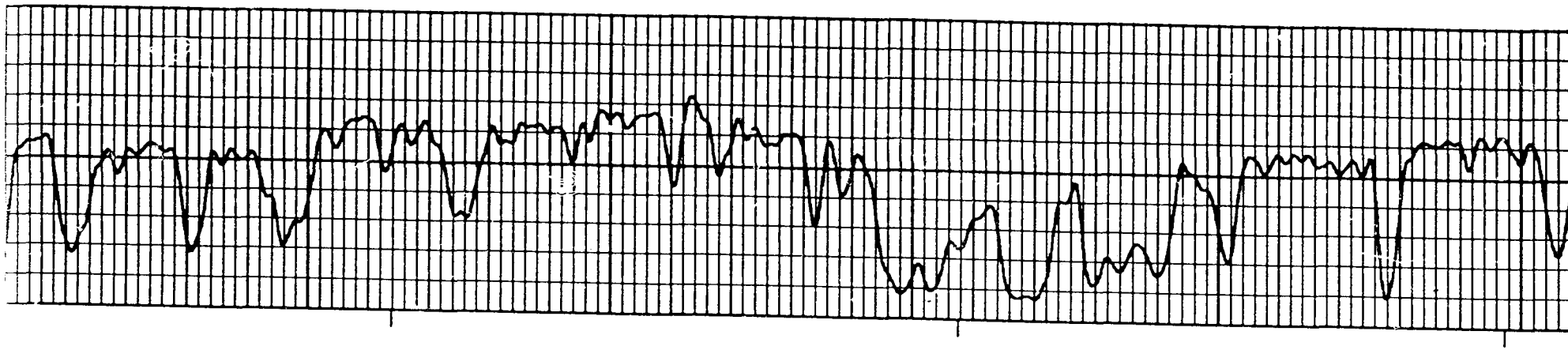

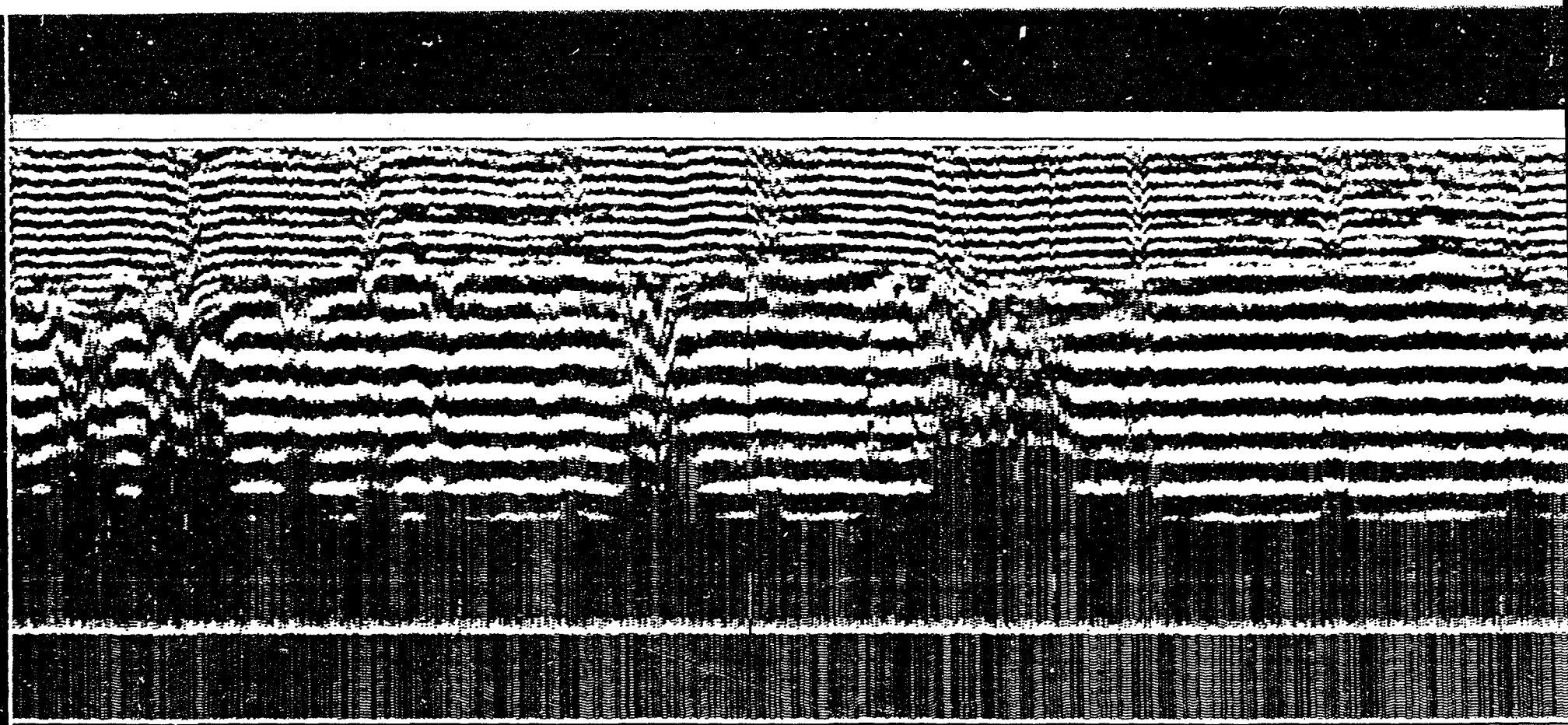

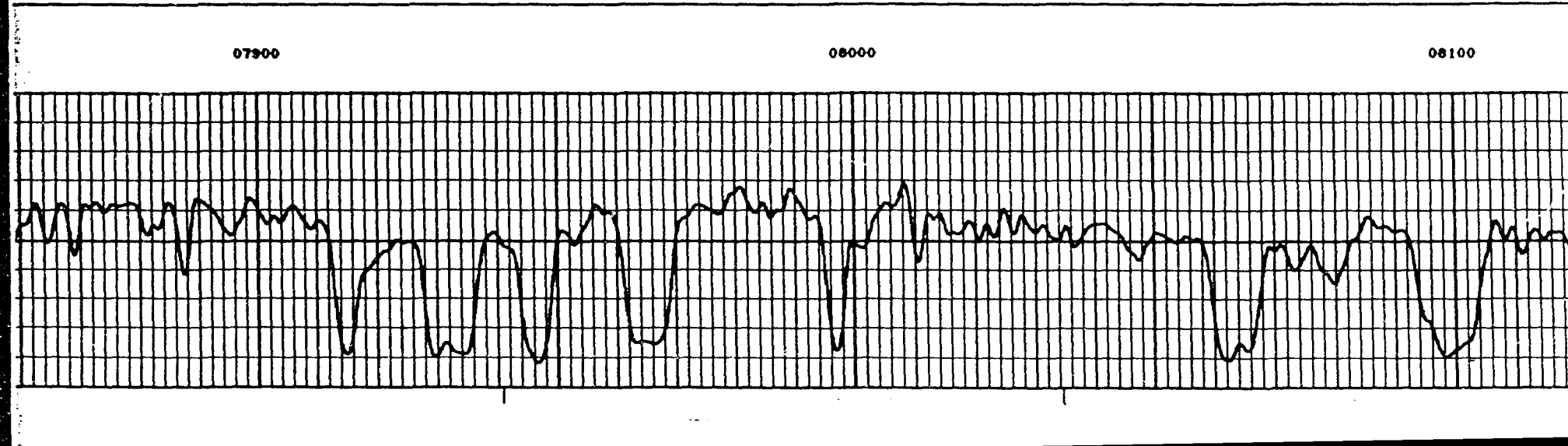
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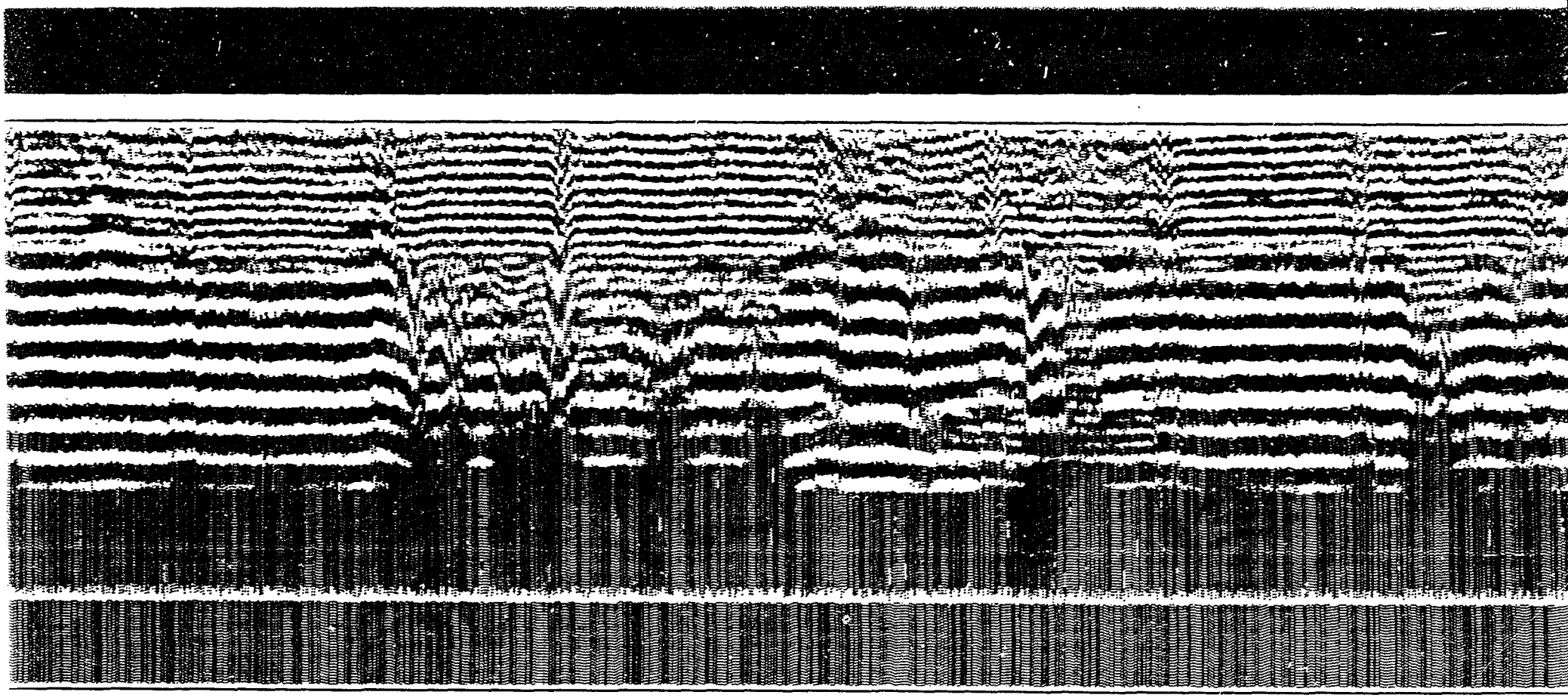

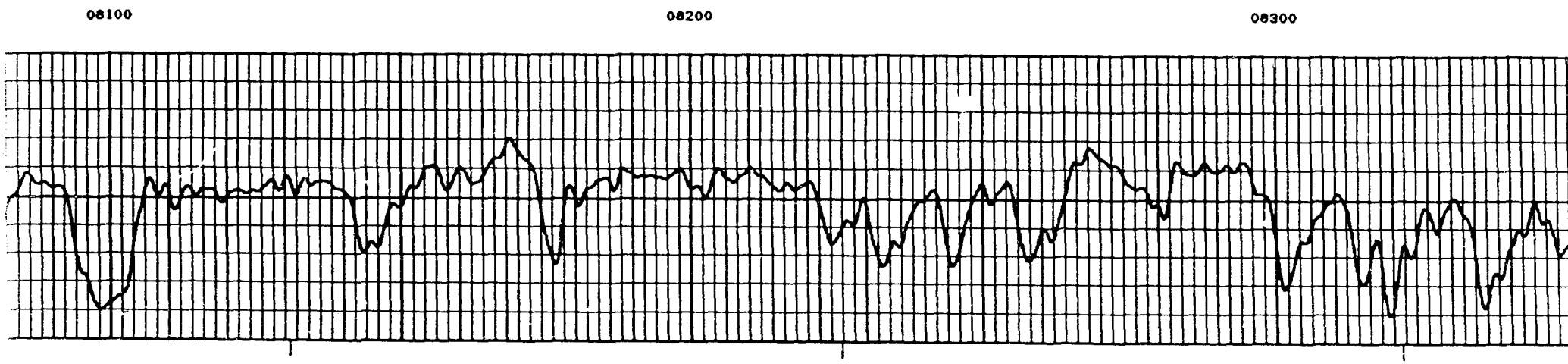
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ENVIRO-TEC
1015 EAST 3900 SOUTH
SALT LAKE CITY, UTAH 84124

NOTIFICATION AFFIDAVIT

I certify the attached list of individuals and companies have been notified of the request by Enviro-Tec Incorporated to obtain a Class II permit for the Blue-Bench 13-1 well. Notifications were sent via regular first class mail on February 29, 2000. The list is believed to be accurate and complete and includes all Operators, Surface Owners, and Mineral Owners within a one half mile radius of the wellbore.

Robert C. Pettit

President

State of Utah)

County of Salt Lake)

On this 29th day of February 2000, before me Carolyn Windt, a notary public, personally appeared Robert C. Pettit, personally known to me to be the person whose name is subscribed to this instrument, and acknowledged that he executed the same.

SEAL

CAROLYN WINDT
Notary Public
State of Utah
My Comm. Expires Apr 17, 2002
2040 E Murray-Holladay Rd Ste 214 SLC UT 84117

Notary Public

My Commission Expires on April 17, 2002

ENVIRO-TEC INC.
1015 EAST 3900 SOUTH
SALT LAKE CITY, UTAH 84124

29 February 2000

This letter is to notify you that Enviro-Tec, owner and operator of the Blue-Bench 13-1 well is seeking a Class II Permit. The Class II permit is for the disposal of produced waters by injection. Copies of the UIC application are on file at the State Division of Oil and Gas.

Robert C. Pettit

President,
Enviro-Tec

13 March 2000

Mr. Christopher J. Kierst
State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

Re: Application for Class II Injection Permit Blue Bench Well #13-1
Township 3 South, Range 5 West, Duchesne County, Utah

Dear Mr. Kierst,

Further to our 15 February 2000 Permit Application for Class II Injection in Blue Bench #13-1 and our series of discussions/submittals since that date, we request your approval and authorization to proceed with Class II injection at this time. This request is based on our commitment to conduct a Step Rate Test in Blue Bench #13-1 within 60 days of your approval as per the following program.

The Step Rate Test will be run in accordance with "Step Rate Test Procedure" published by the US EPA, Region VIII, dated January 12, 1999.

1 - The test procedure will be based on an anticipated maximum injection rate of 7,500 BPD (5.2 BPM).
2 - Static surface pressure of the tubing injection string will be read and recorded.
3 - A series of successively higher rates of Class II water will be injected into the well beginning with 5% and increasing to 10%, 20%, 40%, 60%, 80% and finally 100% of the anticipated maximum injection rate of 7,500 BPD. Injection will be sustained at each rate for 30 minutes. Injection pressures will be read and recorded at each rate.
4 - Injection rates will be controlled with a constant rate regulator and measured with a calibrated turbine meter.
5 - Injection pressures will be recorded using a chart recorder or strip chart.
6 - Bottom hole test pressures will be based on observed and recorded injection pressures corrected for estimated friction losses in the injection string at each rate of injection.
7 - Injection rates and pressures will be plotted and graphically represented to determine whether a "fracture" or "breakdown" pressure is reached and exceeded.
8 - If such a "fracture" pressure as defined in Step 7 is indicated by at least two injection rates/pressures defining a change in slope in the rate/pressure plot, the test will be stopped and the Instantaneous Shut-in Pressure (ISIP) will be read and recorded.

The procedure states the test should be witnessed by an EPA inspector. Please advise if you prefer the test be also or solely witnessed by a representative of the State of Utah Department of Natural Resources.

Thank you for your continued, and very much appreciated, cooperation and support.

Yours very truly,

Robert C. Pettit
President

well file

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

---ooOoo---

IN THE MATTER OF THE APPLICATION OF FOR ADMINISTRATIVE APPROVAL OF THE BLUE BENCH #13-1 WELL LOCATED IN SECTION 13, TOWNSHIP 3S, RANGE 5W, UINTAH, DUCHESNE COUNTY, UTAH, AS A CLASS II INJECTION WELL	:	NOTICE OF AGENCY ACTION CAUSE NO. UIC-233

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of ENVIROTEC, INCORPORATED for administrative approval of the BLUE BENCH #13-1 well, located in Section 13, Township 3S, Range 5W, DUCHESNE County, Utah, for a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selective zones in the GREEN RIVER Formation will be used for water injection. The maximum requested injection pressure and rate will be determined on each individual well based on fracture gradient information submitted by ENVIROTEC, INCORPORATED.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 18th day of APRIL, 2000.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING

John R. Baza
Associate Director, Oil & Gas

N:\groups\admin\uic notice master.frm

ENVIROTEC, INCORPORATED
BLUE BENCH #13-1
Cause No. UIC-233

Publication Notices were sent to the following:

ENVIROTEC, INCORPORATED
1015 East 3900 South
Salt Lake City, UT 84124

Uintah Basin Standard
268 South 200 East
Roosevelt, UT 84066-3109
(VIA Fax 435-722-4240)

Salt Lake Tribune
143 South Main
Salt Lake City, UT 84111
(VIA Fax 801-237-2776)

Vernal District Office
Bureau of Land Management
170 South 500 East
Vernal, UT 84078

Utah Dept of Environmental Quality
Division of Water Quality
Inter Office Mail

Dan Jackson
US EPA Region VIII, Suite 5000
999 18th Street
Denver, CO 80202-2466

Earlene Russell
Secretary
April 19, 2000

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

April 19, 2000

SENT VIA FAX

Uintah Basin Standard
268 South 200 East
Roosevelt, UT 84066-3109
(VIA Fax 435-722-4240)

RE: Notice of Agency Action - Cause No. UIC-233

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

Earlene Russell
Earlene Russell
Secretary

encl.

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

April 19, 2000

SENT VIA E-MAIL AND FAX

Salt Lake Tribune
143 South Main
Salt Lake City, UT 84111
(VIA Fax 801-237-2776)

RE: Notice of Agency Action - Cause No. UIC-233

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

Earlene Russell

Earlene Russell
Secretary

encl.

AFFIDAVIT OF PUBLICATION

County of Duchesne,
STATE OF UTAH

I, Craig L. Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 25 day of April, 2000, and that the last publication of such notice was in the issue of such newspaper dated the 25 day of April, 2000.

Publisher

Subscribed and sworn to before me this
26 day of April, 2000

Bonnie Parrish

Notary Public

BONNIE PARRISH
NOTARY PUBLIC • STATE of UTAH
471 N. HILLCREST DR. (415-5)
ROOSEVELT, UT 84066
COMM. EXP 3-31-2004

NOTICE OF AGENCY ACTION

CAUSE NO. UIC-238

IN THE MATTER OF THE APPLICATION OF FOR ADMINISTRATIVE APPROVAL OF THE BLUE BENCH #13-1 WELL LOCATED IN SECTION 13, TOWNSHIP 3S, RANGE 6W, UINTAH, DUCHESNE COUNTY, UTAH, AS A CLASS II INJECTION WELL

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER

Notice is hereby given that the Division of Oil, Gas and Mining (the Division) is commencing an informal adjudicative proceeding to consider the application of ENVIROTEC INCORPORATED for administrative approval of the BLUE BENCH #13-1 well, located in Section 13, Township 3S, Range 6W, DUCHESNE County, Utah, for a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selective zones in the GREEN RIVER Formation will be used for water injection. The maximum requested injection pressure and rate will be determined on each individual well based on fracture gradient information submitted by ENVIROTEC INCORPORATED.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 18th day of APRIL, 2000.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
John R. Baza
Associate Director, Oil & Gas

Published in the Uintah Basin Standard April 25, 2000.

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-233

Operator: Enviro-Tec, Incorporated

Wells: Blue Bench 13-1

Location: Section 13, Township 3 South, Range 5 West,Duchesne County

API No.: 43-013-30971

Well Type: ~~Enhanced Recovery (waterflood)~~ Disposal

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on May 11, 2000
2. Maximum Allowable Injection Pressure: 775 psig
3. Maximum Allowable Injection Rate: (Restricted by pressure limitation).
4. Injection: Green River Formation (4106 feet - 7528 feet)

Approved by: John R. Baza
John R. Baza
Associate Director, Oil and Gas

5/11/2000
Date

cc: Dan Jackson, Environmental Protection Agency
Bureau of Land Management, Vernal District Office

DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM

PERMIT
STATEMENT OF BASIS

Applicant: Enviro-Tec, Incorporated **Well:** Blue Bench #13-1

Location: NENE Sec. 13, T.3 S., R.5 W., Duchesne County

API #: 43-013-30971

Ownership Issues:
The proposed well is located in Section 13, Township 3 South, Range 5 West, Duchesne County, Utah. The surface location is owned by the Applicant. There are fourteen other surface owners within the ½ mile radius area of review. Enviro-Tec, Incorporated, is the operator of all leases in the ½ mile radius. An affidavit has been filed stating that all surface owners in the ½ mile area have been notified.

Supplementary Historical Information about the Well:
This well is currently shut in pending receipt of the requested permits. It was previously permitted as a Class II injection well in December, 1991 and has also been permitted as a Class V injection well in February, 1998, by the Utah Department of Environmental Quality, Division of Water Quality, Division of Solid and Hazardous Wastes (DEQ). Several changes of ownership of the well occurred during this period. During the Class V permit process the wellbore was modified, per DEQ Class V permit requirements, from that previously approved by this Division of Oil, Gas and Mining (DOGM) for the Class II permit, thereby necessitating this Division's rejection (9/1998) of the requested transfer of authority to inject and nullification of the existing Class II permit. Envirotec initiated the process of having DOGM reissue a new Class II permit after DEQ determined that permission to inject Class II fluids was not implicit within the Class V permit and that it would require a separate Class II permit from DOGM and a separate fluid accounting.

Well Integrity:
The well proposed for a Class II injection permit is the Blue Bench #13-1, API # 43-013-30971, formerly known as the Paiute - Walker #13-1. This well has 9 5/8", 36# surface casing set at 2014 feet and cemented to surface (520 sacks Class H cement, 1/4 #/sack Flocele with 2% CaCl). 7", 29#, N-80 production casing was set from surface to 9234 feet TD and cemented in two episodes, placing cement in the interval from TD to 6520 feet (435 sacks 50/50 Pozolan, 0.6% Halad 9, 10% salt, 1/4#/sack Flocele) and from 4100 feet to 1850 feet (squeeze 715 sacks of Halliburton Type V cement and 2% CaCl). The current PBTD is 7650 feet according to the Wellbore Schematic and a CIBP is placed in the 7 ½" production casing at 7810 feet. The well has open perforations in the upper Green River Formation from 4100 feet TD to 6090 feet TD overall and in the uppermost

lower Green River Formation from 7231 feet TD to 7528 feet TD overall. 3 ½" J-55 injection tubing is packed off at 4077 feet. Cement bond logs were run on two separate occasions, the lower interval being from 7800 feet TD up to 6196 feet TD (for the cement bond data; the gamma track went up to 3500 feet TD) and the upper logged interval being from 4100 feet TD up to 1750 feet TD. The cement bond log of the bottom cemented interval reveals that the casing is about 80% successfully bonded with the bond quality deteriorating only in the upper 300 feet of that section. About 700 feet of well bonded cement exists above the lower set of injection perforations. The upper 7" cased cemented interval is about 70% successfully bonded. The bottom 400 feet of the upper 7" cased cemented interval (between 4100 feet TD and 3700 feet TD) is acceptably bonded, an interval which includes the upper confining zone . These conclusions are consistent with the cement bond integrity and performance documented during the previous successful injection history established under the earlier Class II injection permit. There are no oil or water wells in the 1/2 mile area of review. A step rate test will be performed to determine the fracture or breakdown pressure of the formation to verify that the proposed maximum injection rate and pressure will not exceed the formation fracture pressure as per R649-5-2.9. This division accepts as valid, successful and representative the casing integrity test performed by Production Logging Services on 11/22-23/1999 and approved by the State of Utah, Department of Environmental Quality, Division of Water Quality on 1/31/2000 as proof of mechanical integrity. The well will be given a Mechanical Integrity test annually.

Ground Water Protection:

Two different aquifers are documented in use in the area, one, which is unconfined, is in Duchesne River flood plain alluvium and the other is in the Uinta Formation and is either perched or confined. Other aquifers which might qualify for USDW are thought to exist in the area but, as a practical matter, are irrelevant because they are unused meteoric water aquifers which are over-pressured and deeply buried in the lower Green River Formation and Wasatch Formation and preserved on the down side of the isolating south flank of the Uinta Mountains fault system (amongst oil and gas bearing zones). Duchesne Municipal water wells are as close as 0.72 mile from the proposed injection well but are not down slope in the same runoff drainage. The runoff drainages merge about 6 miles downstream (below Duchesne) so runoff contamination of the municipal wells is unlikely. The base of 10,000 ppm moderately saline water is as deep as 1709 feet TD in the area. Samples of the produced waters to be injected will be analyzed and reported after the source wells are enlisted. Upper Green River produced water is generally in excess of 40,000 mg/L TDS. No compatibility problems are anticipated since the major source of both the Class II waters from surrounding wells and the native injection zone waters is the same formation. The 7" production casing is cemented from 4100 feet TD to 1850 feet TD (inside the 9 5/8 " surface casing) and the 9 5/8 " surface casing is cemented from its landing at 2014 feet TD to surface. There are no water wells in the ½ mile area of review. The upper confining zone consists of about 700 feet of calcareous shale and evaporites in the upper Green River Formation. The lower confining zone consists of ductile mud rocks of the lower Green River Formation. Any shallow fresh water zones will be adequately protected by the existing casing and cement construction. Vertical fracturing over the interval between the injection zone and the

shallow USDW zones was never in evidence during the previous injection operation under the first Class II permit. A review of the latest geologic submission for a new Class II permit supports a finding that vertical fracturing eventuating contamination of shallow USDW zones remains an unlikely scenario.

Oil/Gas & Other Mineral Resources Protection:

Injection into this well should have no adverse affects on any offsetting production. The injection zone is also a known producing formation in the area. There are no producing wells within the ½ mile area of review or within 1 mile about the proposed injection well. Three shut-in oil wells and three plugged wells are within 2 miles of the subject well.

Bonding:

Enviro-Tec has established a bond with the division in the amount of $20,000 dollars for this well.

Actions Taken and Further Approvals Needed:

A public notice for the injection well was published in both the Salt Lake Tribune and the Uinta Basin Standard newspaper. No objections to the application were received. The proposed maximum injection rate is 7,500 barrels per day and the proposed maximum injection pressure is 775 psig. The permittee needs to convert the well as proposed in the submitted application. A step rate test needs to be run to determine the fracture pressure. The permitee must send a copy of the UIC Form 1 to each property owner or operator within the ½ mile area of review and inform them that a copy of the information submission is on file and available for public review at the offices of this division.

Christopher J. Kierst	4/18/2000
Reviewer	Date

43.013.30971
Brad

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

May 11, 2000

Enviro-Tec, Incorporated
1015 East 3900 South
Salt Lake City, Utah 84124

Re: Application for Class II Injection Permit, Blue Bench 13-1 Well, Section 13, Township 3 South, Range 5 West, Duchesne County, Utah

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.

2. Conformance with all conditions and requirements of the complete application submitted by Enviro-Tec, Incorporated.

If you have any questions regarding this approval or the necessary requirements, please contact Christopher Kierst at this office.

If additional information is needed please feel free to contact me at (801) 538-5337.

Sincerely,

John R. Baza
Associate Director, Oil and Gas

cc: Dan Jackson, Environmental Protection Agency
Duchesne County Commission

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number	API Number
BLUE BENCH 13-1	43-013-30971
Location of Well	**Field or Unit Name**
Footage :	ALTAMONT BLUE BELL
County : DUCHESNE	**Lease Designation and Number**
QQ, Section, Township, Range: 13/SEC 3/S 5/W State : UTAH	API-43-013-30971

EFFECTIVE DATE OF TRANSFER: 1-01-2001

CURRENT OPERATOR

Company: ENVIRO-TEC
Address: P.O. BOX 521719
SALT LAKE CITY, UT 84152
Phone: (801) 281-3102
Comments: NAME CHANGE ONLY

Name: ROBERT PETTIT
Signature: Robert Pettit
Title: PRESIDENT
Date: 1-01-2001

NEW OPERATOR

Company: WESTERN WASTE
Address: P.O. BOX 521719
SALT LAKE CITY, UT 84152
Phone: (801) 281-3102
Comments: NAME CHANGE ONLY

Name: ROBERT PETTIT
Signature: Robert Pettit
Title: PRESIDENT
Date: 1-01-2001

(This space for State use only)

Transfer approved by: [signature]
Title: Pet. Services Manager

Approval Date: 5-2-02

Comments:

(5/2000)

P. 2-2

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER DISPOSAL

8. WELL NAME and NUMBER: BLUE BENCH 13-1

2. NAME OF OPERATOR: WESTERN WASTE

9. API NUMBER: 43-013-30971

3. ADDRESS OF OPERATOR: P.O. BOX 521719, SLC, UT 84152 PHONE NUMBER: (801) 281-3102

10. FIELD AND POOL, OR WILDCAT: ALTAMONT BLUE BELL

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY: DUCHESNE

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 13/SEC 3/So. 5/W

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER: NAME CHANGE ONLY
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ENVIRO-TEC, INC

TO

WESTERN WASTE, INC

Effective date 1-1-02

NAME (PLEASE PRINT) ELAINE CAWLEY TITLE SECRETARY

SIGNATURE Elaine Cawley DATE 4-30-02

(This space for State use only)

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold) — Designation of Agent

X Operator Name Change — Merger

The operator of the well(s) listed below has changed, effective: **01-01-2002**

FROM: (Old Operator):	**TO:** (New Operator):
ENVIRO-TECH/COCONINO	WESTERN WASTE INC
Address: P O BOX 521719	Address: P O BOX 521719
SALT LAKE CITY, UT 84152	SALT LAKE CITY, UT 84152
Phone: 1-(801)-281-3102	Phone: 1-(801)-281-3102
Account No. N5935	Account No. N1910

CA No. **Unit:**

WELL(S)

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
BLUE BENCH 13-1	13-03S-05W	43-013-30971	10812	FEE	SWD	A

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 04/30/2002
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 04/30/2002
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database on:** 05/01/2002
4. Is the new operator registered in the State of Utah: YES Business Number: 1197727-0142
5. If **NO**, the operator was contacted contacted on: N/A

6. (R649-9-2)Waste Management Plan has been received on: _____

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: _____

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: _____

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 05/02/2002

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 05/01/2002
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 05/01/2002
3. Bond information entered in RBDMS on: 04/30/2002
4. Fee wells attached to bond in RBDMS on: 05/01/2002

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: N/A

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: N/A

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number GB 0367

2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 05/01/2002

COMMENTS:

Utah!
Where ideas connect
Department of Environmental Quality
Division of Water Quality

288 North 1460 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870
(801) 538-6146
(801) 538-6016 Fax
(801) 536-4414 T.D.D.
www.deq.utah.gov

Michael O. Leavitt
Governor
Dianne R. Nielson, Ph.D.
Executive Director
Don A. Ostler, P.E.
Director

Water Quality Board
K.C. Shaw, P.D.
Chairman
William R. Williams
Vice-Chairman
Robert G. Adams
Nan Bunker
Ray M. Child, C.P.A.
Neil K. Kochenour, M.D.
Dianne R. Nielson, Ph.D.
Ronald Sims, Ph.D.
Douglas E. Thompson, Mayor
J. Ann Wechsler
Don A. Ostler, P.E.
Executive Secretary

January 16, 2003

CERTIFIED MAIL
7000 1670 0005 8198 6228

Mr. Robert C. Pettit
Enviro-Tec, Inc.
1015 East 3900 South
Salt Lake City, Utah 84124

Subject: Termination of UIC Permit No. UTU500004 for the Class V Blue Bench Disposal Well 13-1 and Release of Surety Bond for Plugging and Abandonment

Mr. Pettit:

In response to your request received on December 27, 2002, we hereby terminate the Underground Injection Control Permit No. UTU500004 for the Class V Blue Bench Disposal Well 13-1 held by Western Waste, formerly Enviro-Tec, Inc. This action releases the Surety Bond No. 3SE939078 for the plugging and abandonment of the well.

The prerequisite conditions contained in the above reference permit have not been fully satisfied, thus the well has never been used as a Class V Disposal Well. It is our understanding that Western Waste no longer desires to pursue operation of the Blue Bench Well 13-1 as a Class V disposal well and that the well will be returned to Class II status precluding the necessity for plugging and abandonment.

Attached is our Release of Surety containing the language approved by Commonwealth Surety, the company holding the collateral to secure the Surety Bond.

If you have any questions or comments, please feel free to contact me by phone at (801) 538-6146.

Sincerely,

UTAH WATER QUALITY BOARD

Don A. Ostler, P.E.
Executive Secretary

DAO:FP:DF:CC:

cc: Douglas Minter, USEPA Region 8
Leann M. Wells, Commonwealth Surety
Gil Hunt, Division of Oil, Gas, and Mining

Enclosure
F:\wp\UIC\ENVIRO-TEC\Permit Termination.doc

RECEIVED
JAN 2 3 2003
DIV. OF OIL, GAS & MINING

Utah!
Where ideas connect
Department of Environmental Quality
Division of Water Quality

288 North 1460 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870
(801) 538-6146
(801) 538-6016 Fax
(801) 536-4414 T.D.D.
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Michael O. Leavitt
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Dianne R. Nielson, Ph.D.
Ronald Sims, Ph.D.
Douglas E. Thompson, Mayor
J. Ann Wechsler
Don A. Ostler, P.E.
Executive Secretary

RELEASE OF SURETY

Commonwealth Surety as Agent for Surety
Suite 620
555 City Line Avenue
Bala Cynwyd, PA 19004
(610) 667-7760

RECEIVED
JAN 2 3 2003
DIV. OF OIL, GAS & MINING

Obligee:
Utah Water Quality Board
PO Box 144870
SLC, UT 84114-4870

Date: 01/02/03
Bond No.: 3SE939078

Principal: **Enviro Tec, Inc.**
1015 E 3900 Street
Salt Lake City, UT 84124

Description: **Utah UIC Permit No. UTU 500004 plugging abandonment and cleanup**

Bond Amount: $37,318.00

Notice of cancellation was sent May 9, 2001 via certified mail. It was received at the above address on May 22, 2001.

KNOW ALL MEN BY THESE PRESENTS:

FOR VALUE RECEIVED, the Obligee hereby releases and forever discharges American Manufacturers Mutual Insurance Company from any and all claims, demands, damages in connection with the Surety Bond and the project identified above.

Please enter the date that the Utah Water Quality Board considered the bond cancelled

January 17, 2003

The Obligee, being duly **authorized** to execute this Release of Surety, has signed this release this 17th day of Jan., 2003.

OBLIGEE: **Utah Water Quality Board**

By: Don A. Ostler - Executive Secretary
(Signature & Title of Authorized Representative)

801-538-6081
1-17-0
(Telephone Number)

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
(801) 538-5340 telephone
(801) 359-3940 fax
(801) 538-7223 TTY
www.nr.utah.gov

Michael O. Leavitt
Governor
Robert L. Morgan
Executive Director
Lowell P. Braxton
Division Director

March 11, 2003

Robert Pettit
Western Waste
1015 East 3900 South
Salt Lake City, Utah 84124

Re: Notice of Violation / Reporting – Blue Bench 13-1 WDW, Sec. 13, T.3S, R.5W, Duchesne County, Utah, API No. 43-013-30971

Dear Mr. Pettit:

Division staff members have made several unsuccessful attempts to contact you via telephone for the past several months regarding your past due monthly injection reports and past due 2002 Annual Report, for the above referenced water disposal well. Therefore, a Notice of Violation has been issued to Western Waste for failure to report.

Western Waste has not filed monthly injection reports since April of 2002, as required in accordance with R649-8-20, UIC Form 3, Monthly Injection Report (copy enclosed), nor has Western Waste filed UIC Form 4, Annual Fluid Injection Report, in accordance with R649-8-21 (copy enclosed).

It is imperative that you submit the past due reports as soon as possible to prevent any further action by the Division. In addition, please provide us with a contact telephone number for Western Waste for future reference.

Should you have any questions regarding this matter please call me at (801) 538-5296 or Gil Hunt at (801) 538-5297.

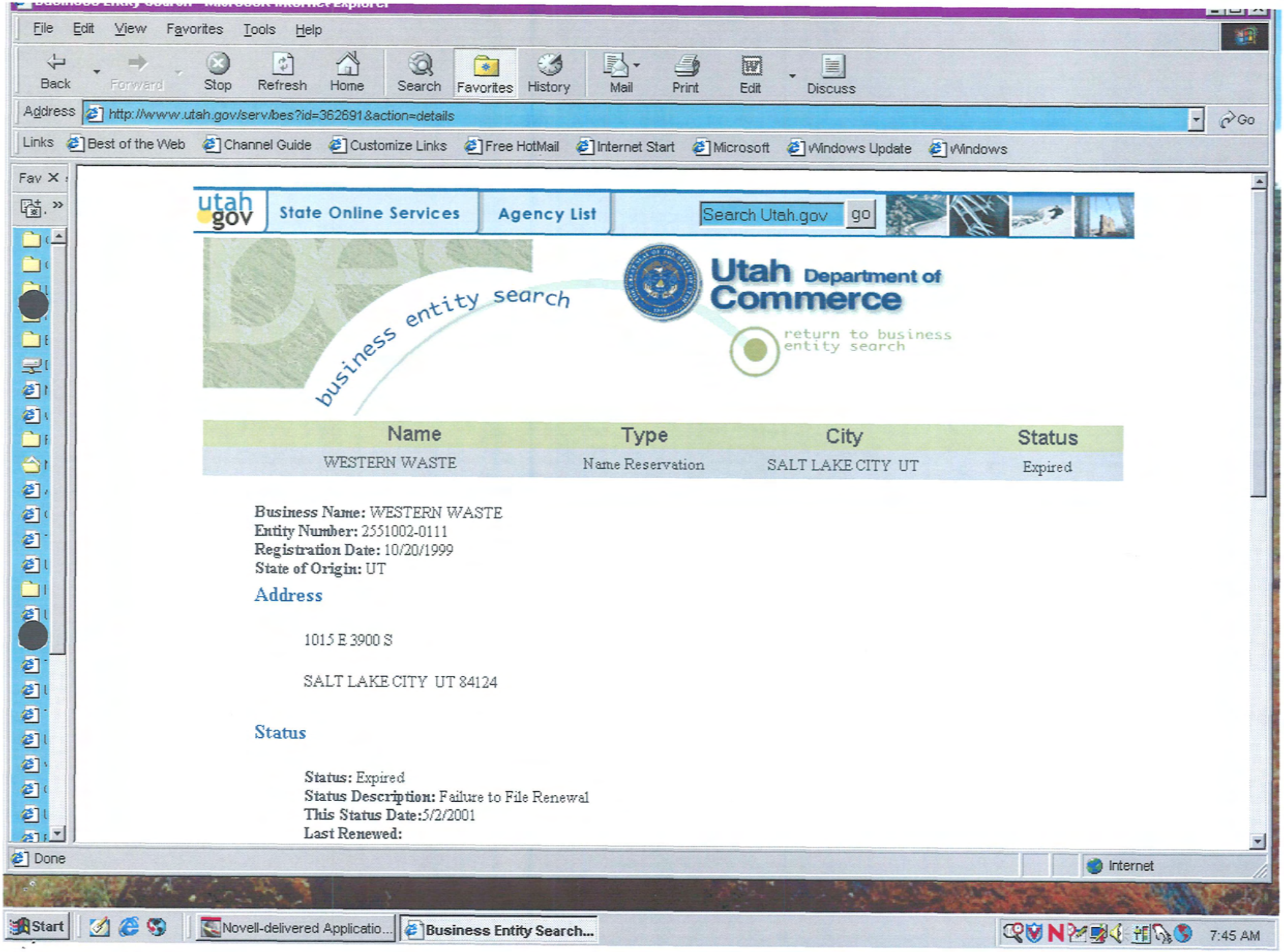
Sincerely,

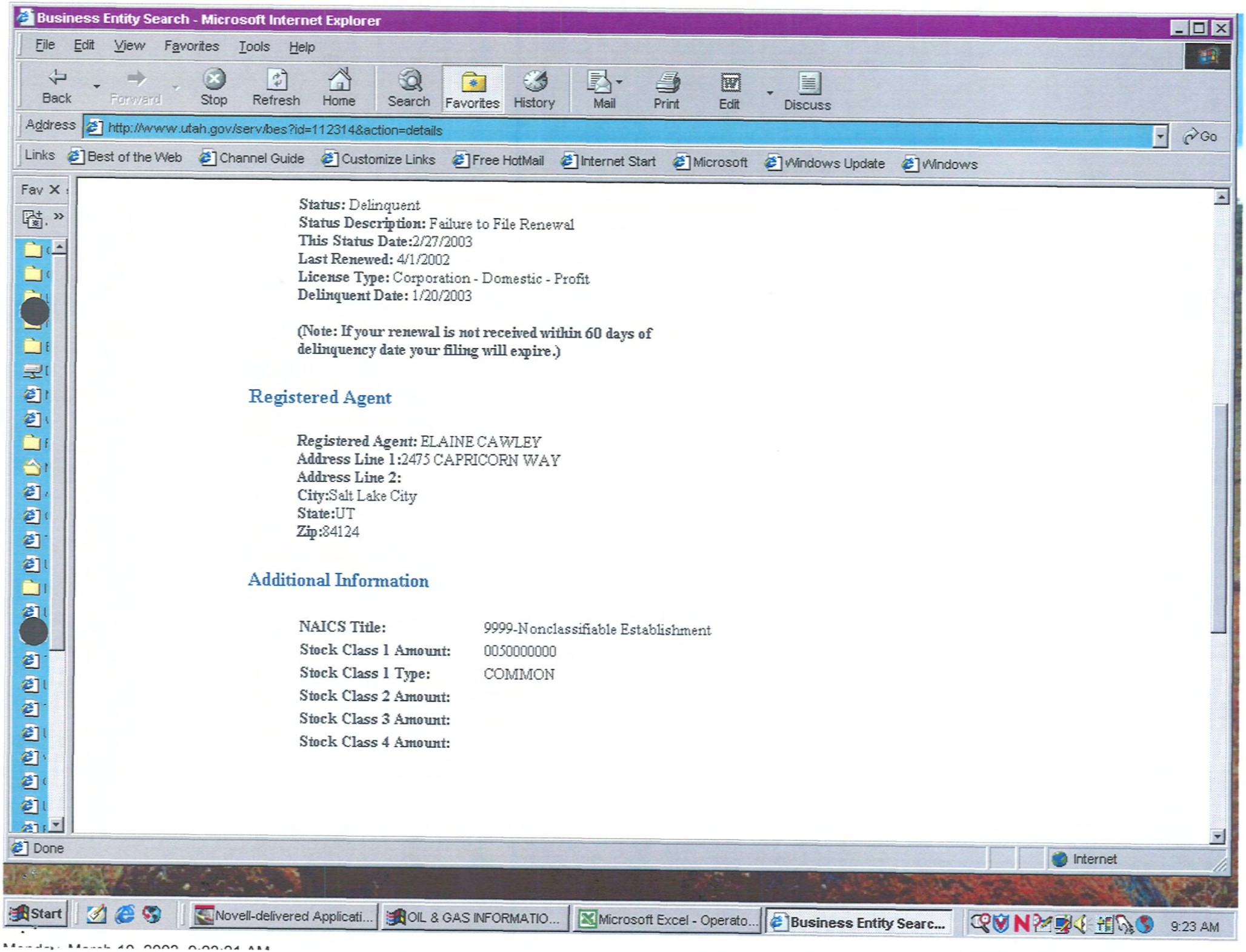
Lisha Cordova

Lisha Cordova
Petroleum Specialist

lc
Enclosure(s)
cc: Gil Hunt, Environmental Manager
Western Waste-Registered Agent, Elaine Cawley
Well File
Compliance File

Utah!
Where ideas connect


File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss
Address http://www.utah.gov/serv/bes?id=362691&action=details
Go
Links Best of the Web Channel Guide Customize Links Free HotMail Internet Start Microsoft Windows Update Windows
utah gov
State Online Services
Agency List
Search Utah.gov
go
business entity search
Utah Department of Commerce
return to business entity search
Name
Type
City
Status
WESTERN WASTE
Name Reservation
SALT LAKE CITY UT
Expired
Business Name: WESTERN WASTE
Entity Number: 2551002-0111
Registration Date: 10/20/1999
State of Origin: UT
Address
1015 E 3900 S
SALT LAKE CITY UT 84124
Status
Status: Expired
Status Description: Failure to File Renewal
This Status Date:5/2/2001
Last Renewed:
Done
Internet
Start
Novell-delivered Applicatio...
Business Entity Search...
7:45 AM


Business Entity Search - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss
Address http://www.utah.gov/serv/bes?id=112314&action=details
Go
Links Best of the Web Channel Guide Customize Links Free HotMail Internet Start Microsoft Windows Update Windows
Fav
Status: Delinquent
Status Description: Failure to File Renewal
This Status Date:2/27/2003
Last Renewed: 4/1/2002
License Type: Corporation - Domestic - Profit
Delinquent Date: 1/20/2003
(Note: If your renewal is not received within 60 days of delinquency date your filing will expire.)
Registered Agent
Registered Agent: ELAINE CAWLEY
Address Line 1:2475 CAPRICORN WAY
Address Line 2:
City:Salt Lake City
State:UT
Zip:84124
Additional Information
NAICS Title: 9999-Nonclassifiable Establishment
Stock Class 1 Amount: 0050000000
Stock Class 1 Type: COMMON
Stock Class 2 Amount:
Stock Class 3 Amount:
Stock Class 4 Amount:
Done
Internet
Start
Novell-delivered Applicati...
OIL & GAS INFORMATIO...
Microsoft Excel - Operato...
Business Entity Searc...
9:23 AM

GWPC's RBDMS - UTAH - [UIC MONITORING DATA]

FILE EDIT FORMS REPORTS VIEW RECORDS ADMIN WINDOW HELP

FAVORITES GO

By Well | By Proj/Fclty

UIC Monitor

API Filter: 43-013-30971-00-00

Well Name: BLUE BENCH 13-1 **Operator:** WESTERN WASTE INC

County: DUCHESNE

API Well No: 43-013-30971-00-00 **Well Type:** WD **Inj. Fluid Type:** H2O **Ann. Fluid Type:**

Max. Allowable Inj. Pressure: 1600

Year: 2002

Injection Well Monitoring Data by Month

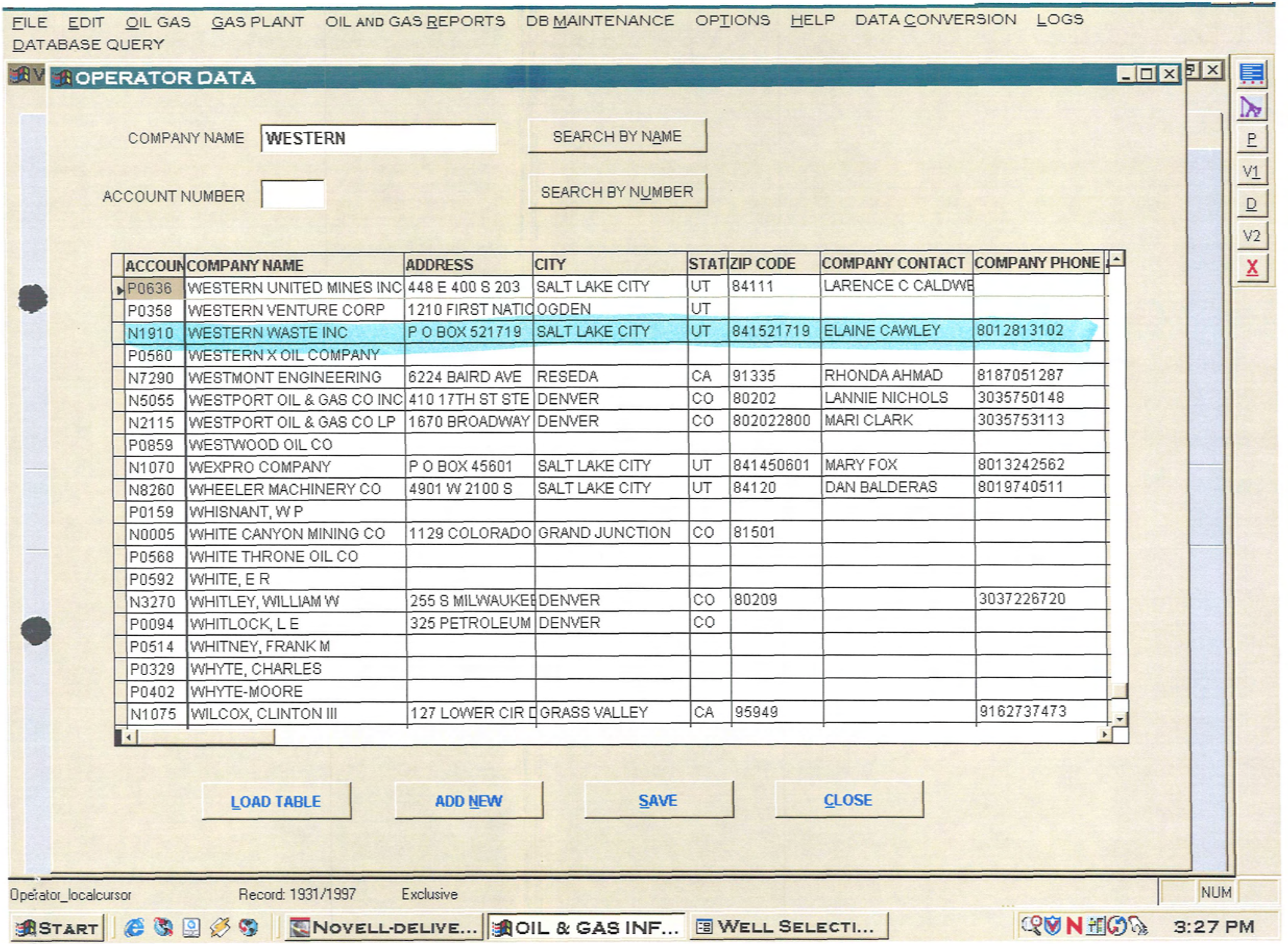
MO	Adj	Dlq	Days	Pt(mx)	Pa(mx)	Fluid	Dt Mod
1	☐	☐	6	800	0	5400	07/02/2002
2	☐	☐	1	800	0	521	07/02/2002
3	☐	☐	10	750	0	13050	07/02/2002
4	☐	☐	10	700	0	9600	07/02/2002
5	☐	☐	0	0	0	0	07/02/2002
6	☐	☐	0	0	0	0	07/02/2002
*		☐	☐				

Record: 1 of 6

API Well Number

NUM

START | NOV... | OIL ... | WEL... | EXPL... | UIC R... | UIC ... | 10:08 AM


FILE EDIT OIL GAS GAS PLANT OIL AND GAS REPORTS DB MAINTENANCE OPTIONS HELP DATA CONVERSION LOGS
DATABASE QUERY
OPERATOR DATA
COMPANY NAME
WESTERN
SEARCH BY NAME
ACCOUNT NUMBER
SEARCH BY NUMBER
ACCOUN COMPANY NAME ADDRESS CITY STAT ZIP CODE COMPANY CONTACT COMPANY PHONE
P0636 WESTERN UNITED MINES INC 448 E 400 S 203 SALT LAKE CITY UT 84111 LARENCE C CALDWE
P0358 WESTERN VENTURE CORP 1210 FIRST NATIO OGDEN UT
N1910 WESTERN WASTE INC P O BOX 521719 SALT LAKE CITY UT 841521719 ELAINE CAWLEY 8012813102
P0560 WESTERN X OIL COMPANY
N7290 WESTMONT ENGINEERING 6224 BAIRD AVE RESEDA CA 91335 RHONDA AHMAD 8187051287
N5055 WESTPORT OIL & GAS CO INC 410 17TH ST STE DENVER CO 80202 LANNIE NICHOLS 3035750148
N2115 WESTPORT OIL & GAS CO LP 1670 BROADWAY DENVER CO 802022800 MARI CLARK 3035753113
P0859 WESTWOOD OIL CO
N1070 WEXPRO COMPANY P O BOX 45601 SALT LAKE CITY UT 841450601 MARY FOX 8013242562
N8260 WHEELER MACHINERY CO 4901 W 2100 S SALT LAKE CITY UT 84120 DAN BALDERAS 8019740511
P0159 WHISNANT, W P
N0005 WHITE CANYON MINING CO 1129 COLORADO GRAND JUNCTION CO 81501
P0568 WHITE THRONE OIL CO
P0592 WHITE, E R
N3270 WHITLEY, WILLIAM W 255 S MILWAUKEE DENVER CO 80209 3037226720
P0094 WHITLOCK, L E 325 PETROLEUM DENVER CO
P0514 WHITNEY, FRANK M
P0329 WHYTE, CHARLES
P0402 WHYTE-MOORE
N1075 WILCOX, CLINTON III 127 LOWER CIR D GRASS VALLEY CA 95949 9162737473
LOAD TABLE
ADD NEW
SAVE
CLOSE
P
V1
D
V2
X
Operator_localcursor
Record: 1931/1997
Exclusive
NUM
START
NOVELL-DELIVE...
OIL & GAS INF...
WELL SELECTI...
3:27 PM

Western Waste, Inc.
c/o Jay Bell
Fabian & Clendenin
215 South State St
Salt Lake City, UT 84111
801-323-2211

Western Waste, Inc.

Fax

To:	Earlene Russell	**From:**	David Isaacs
Fax:	801-359-3940	**Pages:**	5 with cover sheet
Phone:	301-840-9573	**Date:**	8/13/2003
Re:	Monthly Injection Reports	**CC:**	

☐ **Urgent** ☑ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

• **Comments:**

Earlene,

Here are the 4 monthly reports to bring us up to date. I appreciate your help and understanding as I get oriented to what is necessary to bring the injection well into operational status. Thanks.

Sincerely,

David Isaacs

effective 4/1/03

RECEIVED
AUG 13 2003
DIV. OF OIL, GAS & MINING

file 43-013-30971
T 3S R5W Sec 13

Division of Oil, Gas and Mining

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☒ Well File Blue Bench 13-1

(Loc.) Sec ____ Twp ____ Rng ____

(API No.) 43-013-30971

☐ Suspense

(Return Date) _____

(To-Initials) _____

☒ Other

Compliance

1. Date of Phone Call: 4/9/03 Time: 2:00 pm

2. DOGM Employee (name) Liz Hunt (☒ Initiated Call)

Talked to:

Name Robert Pettit (☐ Initiated Call) - Phone No. (801) 273-1501

of (Company/Organization) Western Waste Cell # 580-6495

3. Topic of Conversation: Over due injection reports

4. Highlights of Conversation: Said he has been gone with the military And will bring the reports in Monday (4/14/03).

* 4-14-2003 Robert Pettit will bring reports in on 4-15-03. lc

Rec'd reports 4-15-03. lc

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: API 43-013-30971

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Injection

8. WELL NAME and NUMBER: Blue Bench 13-1

2. NAME OF OPERATOR: Envirotech of Utah, Inc.

9. API NUMBER: 4301330971

3. ADDRESS OF OPERATOR: 215 South State St CITY Salt Lake City STATE UT ZIP 84111

PHONE NUMBER: (801) 323-2211

10. FIELD AND POOL, OR WILDCAT: Altamont

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY: Duchesne

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 13 3S 5W

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 3/5/2004	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Operator Name and Address Change
Company name changing but still the same company

Name change from Western Waste to Envirotech of Utah, Inc. N1910

Address change to:
Envirotech of Utah, Inc. N2600
215 South State St, 12th Floor
Salt Lake City, UT 84111

DAVID ISAACS PRESIDENT FOR ENVIROTECH OF UTAH, INC.
5/21/2004

NAME (PLEASE PRINT) David Isaacs TITLE President for Western Waste

SIGNATURE [signature] DATE 5/21/2004

RECEIVED
MAY 25 2004
DIV. OF OIL, GAS & MINING

(This space for State use only)

(5/2000) (See Instructions on Reverse Side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number	API Number
Blue Bench 13-1	4301330971
Location of Well	**Field or Unit Name**
Footage :	Altamont
County : Duchesne	**Lease Designation and Number**
QQ, Section, Township, Range: NENE 13 3S 5W	State : UTAH	API 43-013-30971

EFFECTIVE DATE OF TRANSFER: 3/5/2004

CURRENT OPERATOR

Company: Western Waste - c/o J Bell Fabian & Clendenin
Address: 215 South State St, 12th Floor
city Salt Lake City state UT zip 84111
Phone: (801) 323-2211
Comments:

Name: David Isaacs
Signature:
Title: President
Date: 5/21/2004

NEW OPERATOR

Company: Envirotech of Utah, Inc.
Address: 215 South State St, 12th Floor
city Salt Lake City state UT zip 84111
Phone: (801) 323-2211
Comments: Company name change

Name: David Isaacs
Signature:
Title: President
Date: 5/21/2004

(This space for State use only)

Transfer approved by:
Title: Field Services Manager

Approval Date: 5-25-04

Comments: UIC-233

RECEIVED
MAY 25 2004
DIV. OF OIL, GAS & MINING

(5/2000)

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold) — Designation of Agent/Operator

X Operator Name Change — Merger

The operator of the well(s) listed below has changed, effective: **3/1/2004**

FROM: (Old Operator):	**TO:** (New Operator):
N1910-Western Waste c/o Jay Bell 215 S State St, 12th Fl Salt Lake City, UT 84111 Phone: 1-(801) 323-2211	N2600-Envirotech of Utah, Inc. C/o Jay Bell 215 S State St, 12th Fl Salt Lake City, UT 84111 Phone: 1-(801) 323-2211

CA No. **Unit:**

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
BLUE BENCH 13-1	13	030S	050W	4301330971	10812	Fee	WD	A

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: **5/25/2004**
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: **5/25/2004**
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** **5/27/2004**
4. Is the new operator registered in the State of Utah: **YES** Business Number: 1197727-0142
5. If **NO**, the operator was contacted contacted on: ____

6. (R649-9-2)Waste Management Plan has been received on: **IN PLACE**

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: **n/a**

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: **n/a**

9. **Federal and Indian Communization Agreements ("CA"):** n/a
The BLM or BIA has approved the operator for all wells listed within a CA on:

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: **5/25/2004**

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** **5/27/2004**
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** **5/27/2004**
3. Bond information entered in RBDMS on: **5/27/2004**
4. Fee/State wells attached to bond in RBDMS on: **5/27/2004**
5. Injection Projects to new operator in RBDMS on: **5/27/2004**
6. Receipt of Acceptance of Drilling Procedures for APD/New on: **n/a**

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: **n/a**

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: **n/a**

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: **n/a**

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number **1007121**

2. The **FORMER** operator has requested a release of liability from their bond on: **not yet**
The Division sent response by letter on: **N/A**

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: **6/1/2004**

COMMENTS:

David Isaacs
Envirotech of Utah, Inc.
8427 Tea Rose Dr.
Gaithersburg, MD 20879

June 28, 2004

Gil Hunt
Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84116

Mr. Hunt,

This is to inform you that our company will no longer be injecting Class II Waste into the Blue Bench #13-1 well. We request that the Class II permit for this well be terminated. We are going through the process to be permitted for Class V disposal operations and we will upgrade our facility accordingly.

If you have any questions concerning this, you can call me at 301-840-9573.

Sincerely,

David Isaacs
President
Envirotech of Utah, Inc.
d/b/a Envirotech, Inc.
d/b/a Western Waste, Inc.

RECEIVED
JUN 2 9 2004
DIV. OF OIL, GAS & MINING

State of Utah

Department of
Natural Resources

ROBERT L. MORGAN
Executive Director

Division of
Oil, Gas & Mining

LOWELL P. BRAXTON
Division Director

OLENE S. WALKER
Governor

GAYLE F. McKEACHNIE
Lieutenant Governor

July 14, 2004

David Isaacs
Envirotech of Utah, Inc.
8427 Tea Rose Drive
Gaithersburg, Maryland 20879

Re: UIC Class II Permit Withdrawal, Blue Bench 13-1 Well, Sec. 13, T. 3 South, R. 5 West, Duchesne County, Utah, 43-013-30971

Dear Mr. Isaacs:

The Division received a letter from you on June 29, 2004, requesting that your Class II Underground Injection Control (UIC) Permit be terminated and stated that you no longer plan to inject Class II type wastes.

Effective immediately, this Division will consider your UIC Permit withdrawn and will change the well status and records to reflect it. Upon receiving documentation from the Department of Environmental Quality that a permit has been issued and bonding established with them, we will proceed with bond release.

Please contact Brad Hill at 801-538-5315 or Gil Hunt at 801-538-5297 if you have questions concerning this matter.

Sincerely,

John R. Baza
Associate Director

BradX DanX
DonX
Well file

ly, UDWQ
, EPA

State of Utah

Department of
Natural Resources

ROBERT L. MORGAN
Executive Director

Division of
Oil, Gas & Mining

LOWELL P. BRAXTON
Division Director

OLENE S. WALKER
Governor

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Lieutenant Governor

July 14, 2004

David Isaacs
Envirotech of Utah, Inc.
8427 Tea Rose Drive
Gaithersburg, Maryland 20879

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Please contact Brad Hill at 801-538-5315 or Gil Hunt at 801-538-5297 if you have questions concerning this matter.

Sincerely,

John R. Baza
Associate Director

cc: Candace Cady, UDWQ
Dan Jackson, EPA
Bond file

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

Utah!
Where ideas connect™

State of Utah

Department of Environmental Quality

Dianne R. Nielson, Ph.D.
Executive Director

DIVISION OF WATER QUALITY
Walter L. Baker, P.E.
Acting Director

Water Quality Board
Ray M. Child, *Chair*
Douglas E. Thompson, Vice-Chair
Robert G. Adams
David F. Echols
Neil K. Kochenour
Dianne R. Nielson
Jay Ivan Olsen
Joe Piccolo
Ronald C. Sims
J. Ann Wechsler
Walter L. Baker
Acting Executive Secretary

OLENE S. [redacted]KER
Gover[redacted]

GAYLE F. McKEACHNIE
Lieutenant Governor

TO well file

43-013-30971
3S 5W 13

September 20, 2004

Mr. David Isaacs
Chief Executive Officer
Envirotech of Utah, Inc.
8427 Tea Rose Drive
Gaithersburg, Maryland 20879

Subject: FINAL Statement of Basis and Class V Injection Well Permit for Envirotech of Utah, Blue Bench #13-1 Injection Well, Utah Underground Injection Control (UIC) Permit No. UTU500004, Duchesne County, Utah.

Dear David:

Enclosed are the FINAL Statement of Basis and the UIC Class V Permit for the Blue Bench #13-1 injection well in Duchesne County. Also attached, for your convenience, is a CD containing the same documents with hyperlinks to facilitate your navigation through the various sections of both documents.

Please note the effective date of the permit and the compliance schedule requirements that are tied to this date. Within 30 days of receipt of this correspondence, the permittee must report to the Executive Secretary that the enclosed permit has been read and that all terms and conditions of the permit are understood.

Also enclosed is an invoice for the legislatively mandated fee for this action, which is $5,600 based on 80 hours of staff time at $70.00 per hour. Please remit this amount within 60 days of receipt of this correspondence.

State of Utah

Department of Environmental Quality

Dianne R. Nielson, Ph.D.
Executive Director

DIVISION OF WATER QUALITY
Walter L. Baker, P.E.
Acting Director

Water Quality Board
Ray M. Child, *Chair*
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J. Ann Wechsler
Walter L. Baker
Acting Executive Secretary

OLENE S. [redacted]KER
Gover[redacted]

GAYLE F. McKEACHNIE
Lieutenant Governor

RECEIVED
SEP 2 4 2004
DIV. OF OIL, GAS & MINING

September 20, 2004

Mr. David Isaacs
Chief Executive Officer
Envirotech of Utah, Inc.
8427 Tea Rose Drive
Gaithersburg, Maryland 20879

Subject: FINAL Statement of Basis and Class V Injection Well Permit for Envirotech of Utah, Blue Bench #13-1 Injection Well, Utah Underground Injection Control (UIC) Permit No. UTU500004, Duchesne County, Utah.

Dear David:

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Please note the effective date of the permit and the compliance schedule requirements that are tied to this date. Within 30 days of receipt of this correspondence, the permittee must report to the Executive Secretary that the enclosed permit has been read and that all terms and conditions of the permit are understood.

Also enclosed is an invoice for the legislatively mandated fee for this action, which is $5,600 based on 80 hours of staff time at $70.00 per hour. Please remit this amount within 60 days of receipt of this correspondence.

If you have any questions or comments, please feel free to contact Candace Cady by phone at (801) 538-9260 or by email at ccady@utah.gov.

Sincerely,

Utah Water Quality Board
Walter L. Baker, P.E.
Acting Executive Secretary

WB:RT:RH:CC:/MR

cc: Mr. Dennis Downs, Utah Division of Solid and Hazardous Waste (w/enclosures)
Mr. Gil Hunt, Utah Division of Oil, Gas, and Mining (w/o enclosures)
Mr. Joseph Shaffer, Tri-County Health Department, Director (w/enclosures)
Mr. Douglas Minter, US EPA Region 8 (w/ enclosures)

F:\wp\UIC\ENVIROTECH\2004 Permit Application\FINAL Permit Cvr Ltr.doc
File: Envirotech, UIC Permit UTU500004

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Disposal Well

8. WELL NAME and NUMBER: Blue Bench 13-1

2. NAME OF OPERATOR: Enviro - Tec

9. API NUMBER: 4301330971

3. ADDRESS OF OPERATOR: 1015 East 3900 S CITY Salt Lake City STATE UT ZIP 84124

PHONE NUMBER:

10. FIELD AND POOL, OR WILDCAT: Altamont

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 820 FNL 932 FEL

COUNTY: Duchesne

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 13 3S 5W

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☑ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
_____	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER: _____
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Operator proposes to plug the subject well with the following procedure.

1. Set cement retainer at 7150' and pump sufficient cement to fill 7" csg from 7150' to 7528' with 50% excess.
2. Unsting from retainer and leave 50' cement on top of retainer. Fill csg with inhibited fluid.
3. Set 2nd retainer at 4050' and pump sufficient cement to fill 7" csg from 4050' to 6090' plus 50% excess. Unsting from retainer and leave 50' cement of top of retainer.
4. Set balance plug from 2000' to 1700' with 30% excess inside 7" csg.
5. Perforate 7" csg at 500' and pump sufficient cement to fill 7" csg and 9/58 " csg from 500 ' to surface.
6. Cut off wellhead and install dryhole marker. Remove surface equipment and restore laocation.

NAME (PLEASE PRINT) Ken Allen TITLE Agent

SIGNATURE _____ DATE 3/10/2005

(This space for State use only)

(5/2000) (See Instructions on Reverse Side)

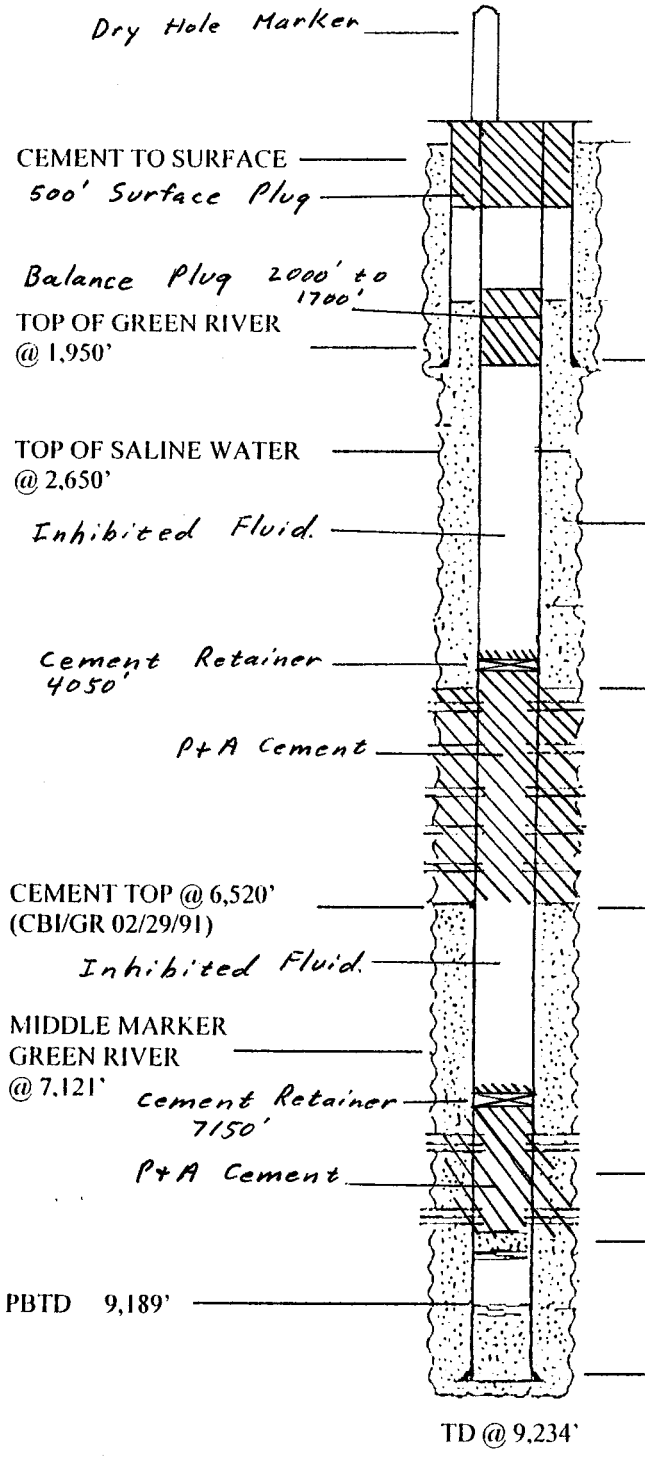
3-10-05

BLUE BENCH #13-1

BLUE BENCH DISPOSAL
NENE SEC 13 T3S - R5W
DUCHESNE CO., UTAH

WELLBORE SCHEMATIC

After P+A.



SURFACE CASING
9 5/8" @ 2,014'

CEMENT ISOLATION
PLUG 1,850' - 4,100'

INJECTION ZONE
TOTAL INTERVAL - UPPER GREEN RIVER 4,100' - 6,520'
PERFS @ 4,106' - 4,121'
PERFS @ 4,832' - 4,847'
PERFS @ 5,268' - 5,283'
PERFS @ 6,085' - 6,090'

INJECTION ZONE
PERFS 7,231' - 7,257'
7,467' - 7,528'

PBTD 7,702'
CIBP 7,810'

PRODUCTION CASING
7" @ 9,234'

COCHRANE RESOURCES, INC.

Engineering
Wellsite Supervision
Lease Operating

P.O. Box 1656
Roosevelt, Utah 84066
Phone (801) 722-5081

Route to file
Being converted to
Class V Disposal well
DEQ Jurisdiction.
Not actual plugging request
For Information only
DKD

March 10, 2005

State of Utah
Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Attn: Dustin Doucett

Dear Mr Doucett:

Please find attached a plugging procedure and cost estimate for the Blue Bench 13-1 well. Cement retainers are used in the plugging procedure to ensure that the well bore fluids will be in static equilibrium when the cement is placed at it intended depths.

Cement and cement additives will be determined and approved by the state engineer at the time of plugging. This will insure that the most current technology can be incorporated into the deisgn.

Surface equipment will be removed and the surface will be restored to land owners or State of Utah specifications.

Please advise if you have any questions.

Yours truly,

Ken Allen

RECEIVED
MAR 11 2005
DIV. OF OIL, GAS & MINING

Blue Bench 13-1

Plug and Abandon Procedure

1. Rig up on well. Remove wellhead and install BOP. Release 7" packer at 4093' and pull 3 ½" tbg out of the hole.

2. Pickup 2 7/8" work string and run in the hole with 7" cement retainer. Set retainer at 7150'.

3. Pump enough cement to fill 7" csg from 7150' to 7528' with 50% excess. Unsting from retainer and leave 50' of cement of top.

4. Fill csg from 7100' to 4100' with inhibited fluid.

5. Pull tbg out of the hole and pickup 2nd 7' cement retainer. Run retainer in the hole and set at 4050'.

6. Pump enough cement to fill 7" csg from 4050' to 6090' with 50% excess. Unsting from retainer and leave 50' on top.

7. Displace hole from 4050' to surface with inhibited fluid.

8. Pull tubing up to 2000' and set balance plug from 2000' to 1700' inside 7" csg.

9. Pull tbg out of the hole and perforate 7" csg at 500" with 4 shots. Pump cement down 7" csg and out 9 5/8" csg until 7" csg and 7" - 9 5/8" annulas are full to surface.

10. Cut of csg head and install dry hole marker as per state specs.

11. Remove all surface equipment and reclaim location as per land owner or state requirements.

Blue Bench 13-1

Plugging and Abandonment
Cost Estimate

Rig	4 days @ $3,000	$12,000.00
Cement		18.000.00
Rental Equipment	BOP & TIW Valve	1,500.00
Tubing		2,500.00
Trucking		5,500.00
Water Hauling		1,500.00
Welder		500.00
Retainers		3,200.00
Supervision & Overhead		3,500.00
Perforating		1,200.00
Misc		5,000.00
Removal of Surface Equipment		12,000.00
Seeding and Restoration of Surface		3,500.00
		$69,900.00
10% Contingency		$ 7,000.00
	Total	$76,900.00

Attachment I

Letter from DWQ Dated 1 May 2006

State of Utah

Department of
Environmental Quality

Dianne R. Nielson, Ph.D.
Executive Director

DIVISION OF WATER QUALITY
Walter L. Baker, P.E.
Director

Water Quality Board
Joe Piccolo, *Chair*
Paula Doughty, Vice-Chair
David F. Echols
Neil K. Kochenour
Darrell H. Mensel
LeLand J. Myers
Dianne R. Nielson
Jay Ivan Olsen
Gregory L. Rowley
Ronald C. Sims
Daniel C. Snarr
Walter L. Baker,
Executive Secretary

JON M. HUNTSMAN, JR.
Governor

GARY HERBERT
Lieutenant Governor

FILE COPY

CERTIFIED MAIL
(Returned Receipt Requested)

May 1, 2006

Mr. David Isaacs
Envirotech of Utah, Inc.
9808 NW 67th Court
Fort Lauderdale, FL 33321

Dear David:

Subject: Options Related to Failure of MIT for Blue Bench #13-1 Injection Well; Envirotech of Utah, Inc.; Duchesne County, Utah; Underground Injection Control (UIC) Class V Permit Number – UTU500004

In phone conversations of 27 March and 4 April 2006 between you and Candace Cady, you indicated a change in the financial condition of Envirotech of Utah, Inc. (Envirotech) that has made it difficult for Envirotech to meet the compliance schedule items of the UIC permit required before commencement of operations of the Blue Bench #13-1 well as a commercial disposal injection well.

This letter itemizes various courses of action, from which you must choose, under the regulatory environment governing operation of the Blue Bench #13-1 well.

Envirotech must choose and comply with the requirements of one of the following options:

1. Conduct a workover of the well to re-establish the mechanical integrity of the well and meet all other permit compliance schedule items of the UIC permit. The deadline for meeting all the requirements of this option is 180 days from the receipt of this correspondence.
2. Properly plug and abandon the well according the requirements detailed in the UIC permit. The deadline for meeting the requirements of this option is 180 days from the receipt of this correspondence.

3. Find another operator with sufficient funds to comply with the requirements of either of the options above.
4. Submit a letter to the Executive Secretary of the Utah Water Quality Board (Board) indicating the inability of Envirotech to re-establish mechanical integrity of the well and to meet the permit compliance schedule items of the permit; or to properly plug and abandon the well; or to find an alternative operator to assume responsibility for meeting the requirements of the permit within the timeframe given above. The deadline for submitting this letter is 90 days from the receipt of this correspondence.

Failure to comply with the requirements of Envirotech's chosen option will result in the issuance of a Notice of Violations by the Utah Water Quality Board followed by enforcement actions as determined to be appropriate by the Board.

If you have any questions or comments, contact Candace Cady by phone at (801) 538-9260 or by email at CCADY@utah.gov.

Sincerely,

Harry Judd
Manager
Engineering and Water Quality Management Branch

HJ:RH:CC: CCC

cc:mr

F:\wp\UIC\CLASS V\ENVIROTECH\MIT Failure Options.doc
File: Duchesne County, UIC Permit Envirotech of Utah, UTU500004

Attachment II

4 August 2006 Email from David Isaacs

From: "David I" <davidfitguy@hotmail.com>
To: "Candace Cady" <ccady@utah.gov>
Date: 8/4/2006 1:14 PM
Subject: Envirotech Permit

Candace,

I am happy to let you know that we have received a funding commitment to satisfy the requirements of the permit. We have been working very hard to receive this commitment. We have sold a controlling interest in the company to an investment group which is headed by the original President of Envirotech, H.K. Elrod, who originally built up the company before turning control over to Swede Nelson and Robert Pettit. We have received a revised authorization for expenditures for the well workover and test by Neil Sautner. He is available to do the work and the casing and tubing are available. We also received a revised authorization for expenditures on the required surface work. While we will make every effort to complete all work within the required timeframe, there is a possibility that the funding will be delayed and that we will miss the deadline. I will let you know if funding is delayed to the point where we will miss the deadline so you can decide how we should proceed.

I would like to thank you again for all of the work which you and your staff have put into the process so we could receive the permit and the kindness and help you have provided to us.

I want to assure you that it is still my job to make sure we adhere to all rules and regulations and that we will remain in compliance of the permit during all operations of our facility. We look forward to completing all work necessary for our facility to become operational and to provide our service to the state of Utah to help protect the environment.

Please let me know if you have any questions. Thank you.

Sincerely,
David Isaacs

State of Utah

Department of Environmental Quality

Dianne R. Nielson, Ph.D.
Executive Director

DIVISION OF WATER QUALITY
Walter L. Baker, P.E.
Director

JON M. HUNTSMAN, JR.
Governor

GARY HERBERT
Lieutenant Governor

CERTIFIED MAIL
(Returned Receipt Requested)

September 15, 2006

Mr. David Isaacs
Chief Executive Officer
Envirotech of Utah, Inc.
9808 NW 67th Ct
Fort Lauderdale, FL 33321

Dear David:

Subject: Workover of Blue Bench #13-1; Envirotech of Utah, Inc.; Duchesne County, Utah; Underground Injection Control (UIC) Class V Permit Number – UTU500004

On 1 May 2006, DWQ issued a letter (Attachment I) detailing four (4) options for returning the well to compliance. In that letter, Envirotech was given 180 days from receipt of that correspondence to conduct a workover and restore the mechanical integrity of the subject well (Option 1); to properly plug and abandon the well according to the requirements of the permit (Option 2); to find another operator with sufficient funds to comply with Options 1 or 2 (Option 3); or to issue a letter within 90 days from receipt of the 1 May letter indicating inability to comply with the requirements of the first three options (Option 4). Since the 1 May 2006 letter from DWQ was delivered on May 8, Envirotech has until 4 November 2006 to either complete the workover and successfully demonstrate that mechanical integrity of the well has been restored or to plug and abandon the well. On 4 August 2006, the Division of Water Quality (DWQ) received your email (Attachment II) indicating that Envirotech had chosen to conduct a workover of the subject well for the purpose of restoring mechanical integrity (Option 1). Therefore, the 4 November 2006 deadline applies.

If Envirotech does not meet the 4 November 2006 deadline, DWQ will issue a Notice of Violation, as was indicated in the 1 May 2006 letter, terminate the permit, and proceed to work with the Division of Oil, Gas, and Mining (DOGM) to permanently plug and abandon the well using the bond currently held by DOGM.

If you have any questions or comments, please feel free to contact Candace Cady by phone at (801) 538-9260 or by email at CCADY@utah.gov.

Sincerely,

Harry Judd
Manager
Engineering and Water Quality Management Branch

HJ:RH:CC:

cc: Mr. Gil Hunt, DOGM

F:\wp\UIC\CLASS V\ENVIROTECH\20060915DWQltr.doc
File: UIC Duchesne County, Envirotech

43-013-30971
T 3S R 5W Sec 13

State of Utah

Department of Environmental Quality

Dianne R. Nielson, Ph.D.
Executive Director

DIVISION OF WATER QUALITY
Walter L. Baker, P.E.
Director

JON M. HUNTSMAN, JR.
Governor

GARY HERBERT
Lieutenant Governor

CERTIFIED MAIL
(Return Receipt Requested)

October 31, 2006

Dear Mr. Bell:

Mr. Jay Bell
Fabian and Clendenin
P.O. Box 510210
Salt Lake City, Utah 84151-0210

Subject: Mechanical Integrity Failure of Blue Bench #13-1, Envirotech of Utah, Inc.; Duchesne County, Utah; Utah Underground Injection Control (UIC) Class V Permit Number - UTU500004

Enclosed is a letter the Utah Division of Water Quality (DWQ) sent to Mr. David Isaacs on 15 September 2006 by Certified Mail. The letter was returned and stamped "unclaimed". Mr. H. K. Elrod, the current officer in charge at Envirotech, contacted us on 25 October 2006 and requested that we send the letter to you. He requested that we not implement the conditions set forth in the letter and that we allow him until 31 March 2007 to bring the well back into compliance by demonstrating mechanical integrity of the well.

DWQ agrees to allow Mr. Elrod the opportunity to bring the injection well back into compliance with the following conditions:

1. Envirotech must submit a work plan to DWQ for re-establishing mechanical integrity of the well no later than 1 December 2006.

2. Envirotech must submit a plugging and abandonment plan to DWQ, prepared by an independent contractor, for the Blue Bench #13-1 injection well, in accordance with the existing Class V permit, no later than 15 December 2006. This plan must include costs.

3. Envirotech must submit evidence of financial assurance to DWQ for the plugging and abandonment of the Blue Bench #13-1 injection well, in accordance with the existing Class V permit, no later than 15 January 2007. Financial assurance shall reflect the costs in the plugging and abandonment plan in Item #2.

If you have any questions or comments, please feel free to contact me by phone at (801) 538-9260 or by email at ccady@utah.gov.

Sincerely,

Candace C. Cady

Candace C. Cady, P.G.
Environmental Scientist
UIC Program Coordinator, Ground Water Protection Section

Enclosure

CC:

cc: Mr. H. K. Elrod, Envirotech of Utah, Inc. w/enclosure
Utah DOGM w/o enclosure

F:\wp\UIC\CLASS V\ENVIROTECH\20061101DWQltr.doc
File: Duchesne County, Envirotech UTU500004

State of Utah

Department of Environmental Quality

Dianne R. Nielson, Ph.D.
Executive Director

DIVISION OF WATER QUALITY
Walter L. Baker, P.E.
Director

Water Quality Board
Joe Piccolo, *Chair*
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Darrell H. Mensel
LeLand J. Myers
Dianne R. Nielson
Jay Ivan Olsen
Gregory L. Rowley
Steven P. Simpson
Daniel C. Snarr
Walter L. Baker,
Executive Secretary

JON M. HUNTSMAN, JR.
Governor

GARY HERBERT
Lieutenant Governor

May 24, 2007

CERTIFIED MAIL
Return Receipt Requested

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY

Mr. Olin Glover, President
WW Energy Inc.
P.O. Box 2288
Farmington, NM 87499

Dear Mr. Glover:

43-013-30971 35 5W 13

Subject: Letter of Intent to Acquire Envirotech of Utah, Inc.
Blue Bench #13-1, UIC Class V Permit UTU500004

It has come to our attention that WW Energy Inc. has signed a letter of intent to acquire Envirotech of Utah, Inc. (Envirotech). The Executive Secretary of the Utah Water Quality Board issued Underground Injection Control (UIC) Permit UTU500004 to Envirotech on September 20, 2004 to operate a Class V injection well, known as the Blue Bench #13-1 located in Duchesne County, Utah. Part III.A of the UIC permit is a compliance schedule that must be completed with the approval of the Executive Secretary. To date, Envirotech is in violation of the following compliance items.

- Construction of the surface spill/leak containment facility within 9 months of the effective date of the permit.
- Plugging and Abandonment Plan submittal and approval for the Blue Bench Well #13-1 within 6 months of the effective date of the permit.

On May 1, 2006, based on a change in the financial condition of Envirotech, the Utah Division of Water Quality issued a letter to Mr. David Isaacs of Envirotech with the following four options to gain compliance with the UIC Permit within 180 days of the receipt of the letter.

1. Conduct a workover of the well to re-establish the mechanical integrity of the well and meet all other compliance schedule items of the UIC permit.
2. Properly plug and abandon the well according the UIC permit requirements.
3. Find another operator with sufficient funds to comply with the requirements of either of the options above.
4. Submit a letter to the Executive Secretary indicating the inability of Envirotech to re-establish mechanical integrity of the well and to meet the permit compliance schedule items; or to properly plug and abandon the well; or to find an alternative operator to assume responsibility for meeting the requirements of the permit.

Mr. Isaacs was advised that failure to comply with the requirements of Envirotech's chosen option will result in a Notice of Violation by the Utah Water Quality Board followed by enforcement actions as determined to be appropriate by the Board.

On September 15, 2006, the Division of Water Quality issued a letter to Mr. David Isaacs by certified mail. The letter was returned and stamped "unclaimed". Mr. H. K. Elrod, the current officer in charge at Envirotech, contacted the Division of Water Quality on October 25, 2006 and requested that the letter be forwarded to Envirotech's legal counsel, Mr. Jay Bell of Fabian and Clendenin. Mr. H. K. Elrod also requested that we not implement the conditions set forth in the letter and that we allow him until March 31, 2007 to bring the well back into compliance by demonstrating mechanical integrity of the well.

The Division of Water Quality agreed to allow Mr. Elrod the opportunity to bring the injection well back into compliance with the following conditions:

1. Envirotech must submit a work plan to DWQ for re-establishing mechanical integrity of the well no later than 1 December 2006.

2. Envirotech must submit a plugging and abandonment plan to DWQ, prepared by an independent contractor, for the Blue Bench #13-1 injection well, in accordance with the existing Class V permit, no later than 15 December 2006. This plan must include costs.

3. Envirotech must submit evidence of financial assurance to DWQ for the plugging and abandonment of the Blue Bench #13-1 injection well, in accordance with the existing Class V permit, no later than 15 January 2007. Financial assurance shall reflect the costs in the plugging and abandonment plan in Item #2.

To date, none of these conditions have been addressed and the permit is still in violation of two UIC permit compliance schedule items. In accordance with UAC R317-7-9.6, the Executive Secretary may, for cause or upon request from the permittee, modify, revoke and reissue, or terminate this permit. In addition, this permit is not transferable to any person except in accordance with UAC R317-7-9.6. The Division of Water Quality has not been contacted by Envirotech regarding a potential or actual acquisition by WW Energy Inc. Please contact us immediately if this acquisition has been or will be consummated.

If you have any questions about this letter please contact Candace Cady, UIC Program Coordinator, by email at ccady@utah.gov or by phone at (801) 538-9260.

Sincerely,

Rob Herbert, P.G., Manager
Ground Water Protection Section

RFH:mr

Cc: Scott Hacking, Tri-County District Engineer
Brad Hill, DOGM

N:\RHerbert\wp\WWEnergy-EnvirotechNotice.doc

State of Utah

Department of Environmental Quality

Richard W. Sprott
Executive Director

DIVISION OF WATER QUALITY
Walter L. Baker, P.E.
Director

Water Quality Board
Joe Piccolo, *Chair*
Paula Doughty, Vice-Chair
David F. Echols
Merritt K. Frey
Darrell H. Mensel
Leland J. Myers
Richard W. Sprott
Jay Ivan Olsen
Gregory L. Rowley
Steven P. Simpson
Daniel C. Snarr
Walter L. Baker,
Executive Secretary

JON M. HUNTSMAN, JR.
Governor

GARY HERBERT
Lieutenant Governor

April 14, 2008

CERTIFIED MAIL
Return Receipt Requested

43 013 30971
Blue Bench 13-1
3S 5W 13

Envirotech of Utah, Inc.
c/o Mr. Jay Bell
Fabian & Clendenin
215 South State Street
P.O. Box 510210
Salt Lake City, UT 84151-0210

Subject: Termination of UIC Class V Permit No. UTU500004
Envirotech of Utah, Inc. Blue Bench #13-1 Disposal Well

Dear Mr. Bell:

The Executive Secretary of the Utah Water Quality Board issued Class V Underground Injection Control (UIC) Permit UTU500004 (permit) to Envirotech of Utah, Inc. (Envirotech), effective September 20, 2004, to operate a commercial waste disposal injection well, the Blue Bench #13-1, located in Section 13, Township 3 South, Range 5 West, Duchesne County.

As required by Part III(D)(3)(c)(i) of the permit, Envirotech conducted a workover of the Blue Bench #13-1 well from July 26 to August 1, 2005 to demonstrate mechanical integrity of the well. An August 1, 2005 email correspondence from Neil Sautner indicated that the mechanical integrity test (MIT) failed due to a hole in the casing above 4, 096 KB. In a letter dated October 3, 2005, Envirotech indicated they had received a $400,000 cost estimate to repair the well and would need to raise funds before the well could be repaired.

In addition to the MIT failure, Envirotech has not met the following permit compliance schedule requirements:

- Part III.A.2 - complete the construction of the surface spill/leak containment facility within 9 months of the permit effective date;
- Part III.A.3 - submit a Plugging and Abandonment Plan for review and approval within 6 months of the permit effective date; and
- Part III.A.4 – submit a guarantee of financial assurance for plugging and abandonment of Blue Bench Well #13-1.

Based on a change in the financial condition of Envirotech, the Division of Water Quality issued a letter dated May 1, 2006 to Mr. David Isaacs of Envirotech with the following four options to gain compliance with the UIC permit within 180 days of the receipt of the letter.

1. Conduct a workover of the well to re-establish the mechanical integrity of the well and meet all other compliance schedule items of the UIC permit.
2. Properly plug and abandon the well according the UIC permit requirements.
3. Find another operator with sufficient funds to comply with the requirements of either of the options above.
4. Submit a letter to the Executive Secretary indicating the inability of Envirotech to re-establish mechanical integrity of the well and to meet the permit compliance schedule items; or to properly plug and abandon the well; or to find an alternative operator to assume responsibility for meeting the requirements of the permit.

On September 15, 2006, the Division of Water Quality issued a letter to Mr. David Isaacs by certified mail. The letter was returned and stamped "unclaimed". Mr. H. K. Elrod, the current officer in charge at Envirotech, contacted the Division of Water Quality on October 25, 2006 and requested that the letter be forwarded to Envirotech's legal counsel, Mr. Jay Bell of Fabian and Clendenin. Mr. H. K. Elrod also requested that we not implement the conditions set forth in the letter and that we allow him until March 31, 2007 to bring the well back into compliance by demonstrating mechanical integrity of the well.

The Division of Water Quality agreed to allow Mr. Elrod the opportunity to bring the injection well back into compliance with the following conditions:

1. Envirotech must submit a work plan to DWQ for re-establishing mechanical integrity of the well no later than 1 December 2006.

2. Envirotech must submit a plugging and abandonment plan to DWQ, prepared by an independent contractor, for the Blue Bench #13-1 injection well, in accordance with the existing Class V permit, no later than 15 December 2006. This plan must include costs.

3. Envirotech must submit evidence of financial assurance to DWQ for the plugging and abandonment of the Blue Bench #13-1 injection well, in accordance with the existing Class V permit, no later than 15 January 2007. Financial assurance shall reflect the costs in the plugging and abandonment plan in Item #2.

To date, these conditions have not been met and Envirotech is in violation of *UCA §19-5-108 (1), UAC R317-7-9.4,* and Part II.E.1 of UIC permit UTU500004. Based on the failure to restore the mechanical integrity of the Blue Bench #13-1, the violations cited above, and the fact that the well has never operated as a Class V Disposal Well, I am hereby terminating UIC Permit UTU500004 effective immediately, and transferring the Blue Bench #13-1 injection well to the Division of Oil, Gas, and Mining to be plugged and abandoned. This action is being done in accordance with *UCA §19-5-109(1)(a), UAC R317-7-9.6,* and Part II.B.1 of UIC permit UTU500004.

If you have any questions or comments, please contact Rob Herbert at (801) 538-6038.

Sincerely,

Utah Water Quality Board

Walter L. Baker, P.E.
Executive Secretary

WLB:RFH/mf

Cc: Dan Jackson, USEPA Region 8
Laura Lockhart, Assistant AG
Phil Burns, DSHW
Gil Hunt, DOGM

F:\RHerbert\WP\Envirotech 4-11-08 UIC Permit Termination Ltr.doc

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: Private

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Disposal Well

8. WELL NAME and NUMBER: Blue Bench 13-1

2. NAME OF OPERATOR: Summit Energy / Summit Operating

9. API NUMBER: 43-013-30971

3. ADDRESS OF OPERATOR: 1441 Ute Blvd 280 CITY Park City STATE Ut ZIP 84098 PHONE NUMBER: (435) 940 9001

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY: Duchesne

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 13 3 S 5 W

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☒ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 7-30-08	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☒ OTHER: Injection test
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Summit to have an Injection volume test performed on the Blue Bench 13-1 well. We anticipate a 4 Stage test at 400, 800, & 1200 lbs pressure's to see what the zone will take. Included with this sundry is documentation allowing Summit to test well prior to purchase.

NAME (PLEASE PRINT) David Knudson TITLE operations

SIGNATURE [signature] DATE

Approved by the Utah Division of Oil, Gas and Mining

COPY SENT TO OPERATOR

Date: 8.4.2008

Initials: KS

(This space for State use only)

Date: 07-30-08

By: [signature]

RECEIVED

JUL 30 2008

DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

OPTION TO PURCHASE

THIS OPTION TO PURCHASE (the "Agreement") is made and entered into as of the 17th day of June, 2008 by and between Envirotech of Utah, Inc., a Utah corporation ("Envirotech") and Summit Energy, LLC, a Utah limited liability company ("Summit").

BACKGROUND

WHEREAS, Envirotech own certain equipment, real property and a proposed disposal well known as the Blue Bench Well in Duchene County, Utah (collectively the "Well");

Whereas, Summit is interested in purchasing the Well but wants to conduct certain due diligence prior to such purchase; and

Whereas the purpose of this Option is to give Summit access to the Well to conduct such due diligence and to provide for the terms of the purchase if Summit determines after conducting such activities that it still desires to purchase the Well.

NOW THEREFORE, for good and valuable consideration, receipt of which is acknowledged, and intending to be legally bound, the parties hereby agree as follows:

AGREEMENT

Section 1 OPTION

Section 1.1 Grant of Option to Purchase and Term. Envirotech hereby grants to Summit for the Term (hereafter defined) the exclusive Option to purchase the Well on the terms and conditions set forth herein ("Option"). The "Term" of this Option shall commence upon execution of this Agreement by all parties hereto and continue until 5:00 pm MST on the 30th day of August, 2008 (the "Expiration Date").

Section 1.2 Exercise of Option. The Option shall only be exercised by Summit delivering via e-mail to Envirotech care of its attorney, Jay B. Bell, a written exercise of the Option. Summit's failure to timely make such delivery shall result in the termination of this Option and the Summit's right to purchase the Well.

Section 1.3 No Extension. The Term shall only be extended by a written agreement signed and acknowledged by Envirotech and the Summit. No oral statement of any nature or for any reason, regardless of any reliance thereupon (and the reasonableness thereof) by Summit and/or its assigns, shall be effective to extend the Term.

Section 1.4 Option Payment. In consideration of the granting of the Option, Summit will:

(1) within three (3) days of executing this Option deliver to Envirotech a cash payment of One Thousand Dollars ($1,000) in immediately available funds and

(2) if the Option is not exercised, give to Envirotech a complete summary of the result of Summit's due diligence activities (collectively the "Option Payment").

In the event the Option is not exercised on or before expiration of the Term, Envirotech shall be entitled to retain the Option Payment. If the Option is exercised, the cash portion of the Option Payment shall be applied to the Purchase Price.

Section 2 Purchase Price. The purchase price of the Property is the sum of Two Hundred Thousand Dollars ($200,000.00) (the "Purchase Price"). The Purchase Price shall be paid in full, with good and immediately available funds at the closing (the "Closing"), which shall be held within fifteen days (15) days after the exercise of the Option.

Section 3 Closing. If the Option is exercised, then at the closing Envirotech shall deliver to Summit each of the following:

(1) a Special Warranty Deed conveying title to the approximately 10 acres of real property (the surface rights) and the well rights,

(2) a bill of sale for all of Envirotech's rights in equipment and personal property on and in the Well and

(3) take such action with the state of Utah as Summit may reasonably request to document the transfer of any well rights and permits that Envirotech may have.

Section 4. No Representation. Envirotech represents that at the Closing there shall not be any liens or unpaid property taxes on the Well and to the extent there are any such lien or unpaid taxes, then the Purchase Price shall be reduce by those liens and unpaid property taxes that Summit is willing to assume. No representations or warranties is being given or being implied by Envirotech as to the physical condition of the Well or any of its components, the suitability of the Well or any of its components for any particular purpose, or that the state of Utah will grant any type of disposal well operations.

Section 5. Due Diligence. Until the expiration of the Option, Summit shall have the right to conduct, at its expense, such tests at or in the Well as Summit determines necessary, including, but not limited to a complete testing of the well casing and well bore hole (the "Due Diligence"). In conducting such tests, Summit promises not to remove any of the personal property of Envirotech from Envirtech's property and not to cause any harm or damage to the Well. Summit shall remove all equipment and property used in its due diligence. Summit shall keep secret and confidential all of Summit's findings and determinations gathered as a part of the Due Diligence except for the required disclosure to Envirotech. Summit promises to indemnify and hold harmless Envirotech and its board of directors, agents and attorneys from and against all claims and obligations that may be asserted as result of Summit's or its agent's conducting the Due Diligence.

Section 6. Costs and Prorations. Summit shall pay the cost of (a) recording the Deed, and (b) all other recording fees required for the closing.

Section 7. Brokers. There is no brokerage commissions associated with Closing of this transaction. In the event any real estate broker claims a right to any commission or fee by virtue of dealing with one of the parties hereto, then such party shall and hereby does fully indemnify and hold the other party harmless from such claim.

Section 8. Attorney Fees. In the event either party initiates or defends any legal action or proceeding in any way connected with this Option, the losing party in any such action or proceeding shall pay the prevailing party in any such action or proceeding its reasonable costs and attorney fees (including its reasonable costs and attorney fees on any appeal).

Section 9. Miscellaneous.

Section 9.1 Agreement and Modification. This Option represents the full and complete agreement between the parties regarding the subject matter hereof and all parties executing this instrument have received a copy of the same. The terms and conditions of this Option supersede any prior or contemporaneous, oral or written, statements or agreements. This Option may only be modified or amended by a written instrument signed by both parties hereto.

Section 9.2 Time of the Essence. Time is of the essence of this Agreement and each and every term and provision hereof.

Section 9.3 Governing Law. This Option to Purchase shall be governed by the laws of the State of Utah applicable to agreements that are executed, delivered and performed within the State of Utah and without regard to conflicts of law.

IN WITNESS WHEREOF, this Option to Purchase is executed and delivered by the parties effective as of the Effective Date set forth above.

Envirotech of Utah, a Utah corporation

By_____
Its President

Summit Energy, LLC, a Utah limited liability company

By_____
Its_____

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

X - Change of Operator (Well Sold) Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **9/22/2008**

FROM: (Old Operator):	**TO:** (New Operator):
N2600-Envirotech of Utah, Inc.	N2315-Summit Operating, LLC
215 S State, 12th Floor	1441 Ute Blvd, Suite 280
Salt Lake City, UT 84111	Park City, UT 84098
Phone: 1 (801) 323-2211	Phone: 1 (435) 940-9001

CA No. **Unit:**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
BLUE BENCH 13-1	13	030S	050W	4301330971	10812	Fee	WD	A

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/30/2008
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/30/2008
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 9/30/2008
4a. Is the new operator registered in the State of Utah: Business Number: 5233183-0160
5a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
5b. Inspections of LA PA state/fee well sites complete on: n/a
5c. Reports current for Production/Disposition & Sundries on: n/a
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA
7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
8. **Federal and Indian Communization Agreements ("CA"):** The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: UIC Permit in process

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 9/30/2008
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 9/30/2008
3. Bond information entered in RBDMS on: 9/30/2008
4. Fee/State wells attached to bond in RBDMS on: 9/30/2008
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: n/a
2. Indian well(s) covered by Bond Number: n/a
3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number ZSB800622
3b. The **FORMER** operator has requested a release of liability from their bond on: not yet

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 10/1/2008

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Disposal Well

8. WELL NAME and NUMBER: Blue Bench 13-1

2. NAME OF OPERATOR: N2600 Envirotech of Utah, Inc

9. API NUMBER: 43-013-30971

3. ADDRESS OF OPERATOR: X 215 S. STATE St, 1200 FL CITY SLC STATE UT ZIP 84111

PHONE NUMBER: 801-323-2211

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 13 3S 5W

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☒ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Envirotech of Utah, Inc does hereby appoint. Summit Operating, LLC operator of the Blue Bench 13-1 Well, API # 43-013-30971

operations

N 2315 Summit Operating LLC
effective 9/22/08 Bond # ZSB800622
1441 Ute Blvd #280, Park City Ut 84098
435-940-9001

RECEIVED
SEP 30 2008
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) X DAVID ISAACS TITLE X PRESIDENT

SIGNATURE X DATE X 9-22-08

(This space for State use only)

APPROVED 9/30/2008
Earlene Russell

(5/2000) (See Instructions on Reverse Side)

Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number	API Number
Blue Bench 13-1	43-013-30971
Location of Well	**Field or Unit Name**
Footage: 9234 County Duchesne	Altamont
QQ, Section, Township, Range: NE NE 13 3S 5W State: UTAH	**Lease Designation and Number** Private

EFFECTIVE DATE OF TRANSFER: 9/22/08

CURRENT OPERATOR

Company: Enviratech of Utah
Address: 215 S State 12th Floor
city SLC state Ut zip
Phone: 801 323-2211
Comments:

Name: Hamlin K. Elrod
Signature:
Title: Manager
Date: 11-14-08

NEW OPERATOR

Company: Summit Operating LLC
Address: 1441 Ute Blvd Suite 280
city Park City state Ut zip 84098
Phone: ~~801~~ 435 940-9001
Comments:

Name: David Knudsons
Signature:
Title: Operations
Date: 10-7-08

(This space for State use only)

Transfer approved by:
Title: UIC Geologist

Approval Date: 11/20/08

Comments:

RECEIVED
NOV 19 2008
DIV. OF OIL, GAS & MINING

(5/2000)

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

X - Change of Operator (Well Sold) Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **5/20/2009**

FROM: (Old Operator):	**TO:** (New Operator):
N2315-Summit Operating, LLC	N3590-Pro-Water, LLC
1441 Ute Blvd, Suite 280	7160 N Irving St
Park City, UT 84098	Westminster, CO 80030
Phone: 1 (435) 940-9001	Phone: 1 (303) 215-9595

CA No. **Unit:**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
BLUE BENCH 13-1	13	030S	050W	4301330971	10812	Fee	WD	A

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/4/2009
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/4/2009
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 6/11/2009
4a. Is the new operator registered in the State of Utah: Business Number: 7375760-0161
5a. (R649-9-2)Waste Management Plan has been received on: Requested 6/11/2009
5b. Inspections of LA PA state/fee well sites complete on: n/a
5c. Reports current for Production/Disposition & Sundries on: n/a
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA
7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: UIC Permit in process

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 6/11/2009
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 6/11/2009
3. Bond information entered in RBDMS on: 6/11/2009
4. Fee/State wells attached to bond in RBDMS on: 6/11/2009
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: n/a
2. Indian well(s) covered by Bond Number: n/a
3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 1491
3b. The **FORMER** operator has requested a release of liability from their bond on: n/a

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 10/1/2008

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Water Injection well

8. WELL NAME and NUMBER: Blue Bench 13-1

2. NAME OF OPERATOR: Summit Operating, LLC N2315

9. API NUMBER: 4301330971

3. ADDRESS OF OPERATOR: 1441 Ute Blvd #280 CITY Park City STATE ut ZIP 84098

PHONE NUMBER: (435) 940-9001

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY: DUCHESNE

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 13 3S 5W

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 5/20/2009	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

SUMMIT OPERATING, LLC DOES HEREBY APPOINT AND DESIGNATE PRO-WATER, LLC AS OPERATOR OF THE BLUE BENCH BENCH 13-1 WELL API # 43-013-30971 EFFECTIVE 5/20/09

Pro-Water, LLC N3590
7160 N Irving St
Westminster, CO 80030

George Kast (303) 215-9595

Bond # 1491

NAME (PLEASE PRINT) DAVID KNUDSON TITLE OPERATIONS

SIGNATURE DATE 5/19/2009

(This space for State use only)

APPROVED 6/11/09
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

(5/2000)

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JUN 04 2009
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number	API Number
BLUE BENCH 13-1 API # 43-013-30971	4301330971
Location of Well	Field or Unit Name
Footage : County : DUCHESNE	
QQ, Section, Township, Range: NENE 13 3S 5W State : UTAH	Lease Designation and Number

EFFECTIVE DATE OF TRANSFER: 5/20/2009

CURRENT OPERATOR

Company: SUMMIT OPERATING, LLC
Address: 1441 UTE BLVD SUITE 280
city PARK CITY state UT zip 84098
Phone: (435) 940-9001
Comments:

Name: DAVID KNUDSON
Signature:
Title: OPERATIONS
Date: 5/20/2009

NEW OPERATOR

Company: PRO-WATER, LLC
Address: 7160 NORTH IRVING STREET
city WESTMINSTER state CO zip 80030
Phone: (303) 215-9595
Comments:

Name: GEORGE KAST
Signature:
Title: Co. Mgr
Date: 6/7/2009

(This space for State use only)

Transfer approved by:
Title: UIC Geologist

Approval Date: 6/11/09

Comments:

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DIV. OF OIL, GAS & MINING

(5/2000)

11/17/2009

Attn: Earlene Russell
State of Utah Department of Natural Resources
Division of Oil, Gas, Mining
1594 West North Temple
Suite 1210
Po Box 145801,
Salt Lake City UT 84114-5801

Subject: Blue Bench 13-1 (API 43-013-30971) Bond 3S 5W 13

Ms. Earlene Russell,

I am hereby notifying you of our intent to immediately terminate the existing bond for the Blue Bench Disposal Facility located in Duchesne County Utah. Pro-Water LLC was sold on 10/6/09. Pro-Water LLC and the Disposal facility is now owned and operated by RG Global Lifestyles. Per the agreement, RG Global was to obtain a replacement bond immediately after the closing on the Blue Bench Facility. Here is the new address and Contact Information:

Pro- Water LLC
12223 Highland Ave
Suited B503
Rancho Cucamonga, CA 91739
Bob Glaser : 626-487-2581 Cell
Keith Morlock: 909-899-4556 Cell

Thank you,

George A Kast.
303-215-9595

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NOV 17 2009
DIV. OF OIL, GAS & MINING

Division of Oil, Gas and Mining
Operator Change/Name Change Worksheet-for State use only

Effective Date: 8/1/2014

FORMER OPERATOR:	NEW OPERATOR:
PROWATER, LLC N3590 1400 16TH STREET, SUITE 400 DENVER CO 80202 303-515-7205	640 ENERGY, LLC N4180 1400 16TH STREET, SUITE 400 DENVER CO 80202 303-515-7205
CA Number(s):	Unit(s):

WELL INFORMATION:

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
Blue Bemch 13-1	13	3S	5W	4301330971	10812	Fee	Fee	WD	A

OPERATOR CHANGES DOCUMENTATION:

1. Sundry or legal documentation was received from the **FORMER** operator on: 12/15/2014
2. Sundry or legal documentation was received from the **NEW** operator on: 12/15/2014
3. New operator Division of Corporations Business Number: 9135034-0161

REVIEW:

1. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: Yes
2. Receipt of Acceptance of Drilling Procedures for APD/New on: N/A
3. Reports current for Production/Disposition & Sundries: 2/4/2015
4. OPS/SI/TA well(s) reviewed for full cost bonding: N/A
5. UIC5 on all disposal/injection/storage well(s) approved on: 2/4/2015
6. Surface Facility(s) included in operator change: None
7. Inspections of PA state/fee well sites complete on (only upon operators request): N/A

NEW OPERATOR BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: N/A
2. Indian well(s) covered by Bond Number: N/A
3. State/fee well(s) covered by Bond Number(s): 8301307362

DATA ENTRY:

1. Well(s) update in the **OGIS** on: 2/5/2015
2. Entity Number(s) updated in **OGIS** on: 2/5/2015
3. Unit(s) operator number update in **OGIS** on: N/A
4. Surface Facilities update in **OGIS** on: N/A
5. State/Fee well(s) attached to bond(s) in **RBDMS** on: 2/5/2015
6. Surface Facilities update in **RBDMS** on: N/A

LEASE INTEREST OWNER NOTIFICATION:

1. The **NEW** operator of the Fee (Mineral) wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 2/5/2015

COMMENTS:

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:	C
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	N/A
7. UNIT or CA AGREEMENT NAME:	N/A
8. WELL NAME and NUMBER:	Blue Bench 13-1
9. API NUMBER:	4301330971
10. FIELD AND POOL, OR WILDCAT:	Altamont

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Salt Water Well

2. NAME OF OPERATOR: 640energy, LLC N4180

3. ADDRESS OF OPERATOR: 1400 16th Suite 400 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (303) 515-7205

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 820 N Line 932 East Lne COUNTY: Duchesne
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 13 3S 5W U STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective date of change August, 1, 2014

640energy, LLC is taking over Operations from Prowater, LLC.

Surface Agreement stays intact.

Prowater, LLC N3590
1400 16th Suite 400
Denver, Co. 80202
303-515-7205

Signature: _____
Touyen Nguyen

NAME (PLEASE PRINT) Keith Morlock TITLE President

SIGNATURE K. Morlock DATE 12/10/14

(This space for State use only) A/WD 10812 Fee/Fee

APPROVED

FEB 05 2015

DIV. OIL GAS & MINING

BY: Rachel Medina

(5/2000) (See Instructions on Reverse Side)

RECEIVED

DEC 15 2014

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number	API Number
Blue Bench 13-1	4301330971
Location of Well	Field or Unit Name
Footage : 820 N Line 932 East Line — County : Duchesne	Altamont
QQ, Section, Township, Range: NENE 13 3 S 5W — State : UTAH	Lease Designation and Number C

EFFECTIVE DATE OF TRANSFER: 8/1/2014

CURRENT OPERATOR

Company: Prowater, LLC
Address: 1400 16th Suite 400
city Denver state CO zip 80202
Phone: (303) 515-7205
Comments:

Name: Touyen Nguyen
Signature:
Title: CEO
Date: 12/1/14

NEW OPERATOR

Company: 640energy, LLC
Address: 1400 16th Suite 400
city Denver state CO zip 80202
Phone: (303) 515-7205
Comments:

Name: Keith Morlock
Signature:
Title: President
Date: 12/10/14

(This space for State use only)

Transfer approved by:
Title: Geologist

Approval Date: 2-4-15

Comments:

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DEC 15 2014
DIV. OF OIL, GAS & MINING

(5/2000)

Division of Oil, Gas and Mining
Operator Change/Name Change Worksheet-for State use only

Effective Date: 7/1/2016

FORMER OPERATOR:	NEW OPERATOR:
640 Energy , LLC 1400 16th Street, Suite 400 Denver, CO 80202	HJG Utah, LLC PO Box 963 Duchesne, UT 84021
CA Number(s):	Unit(s):

WELL INFORMATION:

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
Blue Bench 13-1	13	03S	05W	4301330971	10812	Fee	Fee	WD	A

OPERATOR CHANGES DOCUMENTATION:

1. Sundry or legal documentation was received from the **FORMER** operator on: 7/7/2016
2. Sundry or legal documentation was received from the **NEW** operator on: 7/7/2016
3. New operator Division of Corporations Business Number: 9807646-0160

REVIEW:

1. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: 7/7/2016
2. Receipt of Acceptance of Drilling Procedures for APD on: N/A
3. Reports current for Production/Disposition & Sundries: 7/13/2016
4. OPS/SI/TA well(s) reviewed for full cost bonding: N/A
5. UIC5 on all disposal/injection/storage well(s) approved on: 7/7/2016
6. Surface Facility(s) included in operator change: N/A
7. Inspections of PA state/fee well sites complete on (only upon operators request): N/A

NEW OPERATOR BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: N/A
2. Indian well(s) covered by Bond Number: N/A
3. State/fee well(s) covered by Bond Number(s): 030880039

DATA ENTRY:

1. Well(s) update in the **OGIS** on: 7/13/2016
2. Entity Number(s) updated in **OGIS** on: 7/13/2016
3. Unit(s) operator number update in **OGIS** on: N/A
4. Surface Facilities update in **OGIS** on: N/A
5. State/Fee well(s) attached to bond(s) in **RBDMS** on: 7/13/2016
6. Surface Facilities update in **RBDMS** on: N/A

LEASE INTEREST OWNER NOTIFICATION:

1. The **NEW** operator of the Fee (Mineral) wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 7/13/2016

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Injection Well

8. WELL NAME and NUMBER: Blue Bench 13-1

2. NAME OF OPERATOR: 640energy, LLC (N4180)

9. API NUMBER: 4301330971

3. ADDRESS OF OPERATOR: 1400 16th St, Suite 400 CITY Denver STATE CO ZIP 80202

PHONE NUMBER: (303) 515-7205

10. FIELD AND POOL, OR WILDCAT: Altamont

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 820 FNL 932 FEL

COUNTY: Duchesne

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 13 3S 5W U

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER: _____
_____	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	_____

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

640energy, LLC hereby designated HJG Utah LLC as operator of the Blue Bench 13-1 well (API No. 43-013-30971), effective July 1, 2016. Surface access remains with HJG Utah LLC.

Accepted and agreed by HJG Utah LLC this _____ day of _____, 2016

~~Horst Geicke~~ GRANT-KING
HJG Utah LLC
5150 S Hwy 87
Duchesne, UT 84021
Email: horst@geicke.com
Telephone: (852) 9089 8888

P.O Box 963
Duchesne UT 84021

NAME (PLEASE PRINT) Keith Morlock TITLE President, 640energy, LLC

SIGNATURE K Morlock DATE 6-27-16

(This space for State use only)

APPROVED

JUL 13 2016

DIV. OIL GAS & MINING

BY: Rachel Medina

(5/2000) (See Instructions on Reverse Side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number	API Number
Blue Bench 13-1	4301330971
Location of Well	**Field or Unit Name**
Footage : 820 FNL 932 FEL County : Duchesne	Altamont
QQ, Section, Township, Range: NENE 13 3S 5W State : UTAH	Lease Designation and Number

EFFECTIVE DATE OF TRANSFER: 7/1/2016

CURRENT OPERATOR

Company: 640energy, LLC
Address: 1400 16th St, Suite 400
city Denver state CO zip 80202
Phone: (303) 515-7205
Comments:

Name: Keith Morlock
Signature: K. Morlock
Title: Manager
Date: 6.27.16

NEW OPERATOR

Company: HJG Utah LLC
Address: 5150 S HWY 87
city Duchesne state UT zip 84021
Phone:
Comments: Email: horst@geicke.com
Telephone: (852) 9089 8888

Name: ~~Horst Geicke~~ GRANT KING
Signature:
Title: MANAGER
Date: 7/7/16

(This space for State use only)

Transfer approved by:
Title: UIC Geologist

Approval Date: 7/7/16

Comments:

(5/2000)

NOTICE OF TRANSFER OF OIL AND GAS WELLS - FORM 15

INDUSTRIAL COMMISSION OF NORTH DAKOTA
OIL AND GAS DIVISION
600 EAST BOULEVARD DEPT 405
BISMARCK, ND 58505-0840
SFN 5762 (03-2000)

FOR STATE USE ONLY

NDIC Bond Number

PLEASE READ INSTRUCTIONS BEFORE FILLING OUT FORM. PLEASE SUBMIT THE ORIGINAL AND SIX COPIES.
THIS NOTICE ALONG WITH A FEE OF $25.00 PER WELL SHALL BE FILED AT LEAST THIRTY DAYS BEFORE THE CLOSING DATE OF TRANSFER.

TRANSFERRING OPERATOR

Name of Operator Representative			
Keith Morlock			
Operator Transferring Oil and/or Gas Wells			Telephone Number
640energy, LLC			**(303) 515-7205**
Address	City	State	Zip Code
1400 16th Street, Suite 400	**Denver**	**CO**	**80202**

I, the above named representative, acknowledge the transfer of the oil and/or gas wells named below for the purpose of ownership and/or operation to the company named below.

Signature	Title (Must be an officer or power of attorney must be attached)	Date
K. Morlock	Manager	6.27.16

Well File Number	Requested Official Well Name and Number	Location (Qtr-Qtr, S-T-R)	Assignment Date
90206	**ProWater CL-11-2**	**NENE, 25-151-104**	
90207	**ProWater CL-11-1**	**SWNE, 26-154-103**	

RECEIVING OPERATOR

Name of Operator Representative			
Operator Receiving Oil and/or Gas Wells			Telephone Number
Address	City	State	Zip Code

I, the above named representative, have read the foregoing statement and accept such transfer, also the responsibility of ownership and/or operation of said well or wells, under the said company bond, said bond being tendered to or on file with the Industrial Commission of North Dakota.

Signature	Title (Must be an officer or power of attorney must be attached)	Date

SURETY COMPANY

Surety			Telephone Number	Amount of Bond
				$
Address	City	State	Zip Code	Bond Number

The above named SURETY agrees that such bond shall extend to compliance with Chapter 38-08 of North Dakota Century Code and amendments and the rules and regulations of the Industrial Commission of North Dakota prescribed to govern the production of oil and gas on government and private lands within the State of North Dakota, in relation to the above stated transfer; it being further agreed and understood that the bond sum or amount is not to be considered increased because of such extension.

Signature	Title (Must be an officer or power of attorney must be attached)	Date

Printed Name

FOR STATE USE ONLY

Date Approved
By
Title