

UTAH DIVISION OF OIL, GAS AND MINING

REMARKS: WELL LOG ELECTRIC LOGS FILE WATER SANDS _____ LOCATION INSPECTED _____ SUB. REPORT/ADD. _____

870225 chg of open eff. 12-31-81: 930913 Enron O&G to Bishop Retro. eff. 9-1-92: *
931207 Bishop Retro to Berry Ventures Inc. eff. 7-15-93:

DATE FILED 11-21-78

ML-28030 *ASH*

LAND: FEE & PATENTED

STATE LEASE NO. STATE 16909 PUBLIC LEASE NO. Utah 38399 INDIAN

DRILLING APPROVED: 11-21-78

SPUDED IN: 7-10-79

COMPLETED: 9-27-79

PUT TO PRODUCING: 9-27-79

INITIAL PRODUCTION: 146 BOPD

GRAVITY A.P.I. 36.6

GOR:

PRODUCING ZONES: 3400'-4920' Green River

TOTAL DEPTH: 5095'

WELL ELEVATION: 4880' KB

DATE ABANDONED:

FIELD: Natural Buttes

UNIT:

COUNTY: Uintah

WELL NO. DUCK CREEK 5-16GR

API NO: 43-047-30523

LOCATION 539' FT. FROM ~~XX~~ (S) LINE. 2000' FT. FROM (E) ~~XX~~ LINE. SW SE 1/4-1/4 SEC. 16

TWP.

RGE.

SEC.

OPERATOR

Bishop Retro Corp.

TWP.

RGE.

SEC.

OPERATOR

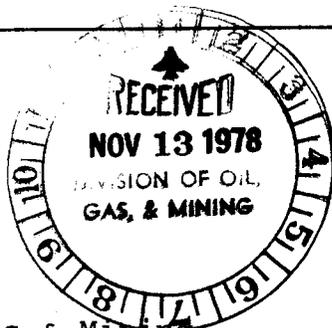
Enron Oil Gas Co.

Berry Ventures Inc.

30523

Belco Petroleum Corporation

Belco



November 10, 1978

Mr. Cleon B. Feight
Utah Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116

RE: Duck Creek 5-16GR
SW SE Section 16, T9S, R20E

Duck Creek 6-16GR
NE SW Section 16, T9S, R20E

Duck Creek 7-16GR
SW NE Section 16, T9S, R20E
Uintah County, Utah

Dear Mr. Feight:

Attached are Applications for Permit to Drill, Survey
Plats and BOP Diagrams for the three referenced wells.

Very truly yours,

BELCO PETROLEUM CORPORATION

Leo R. Schueler

Leo R. Schueler
District Manager

RAS/rgt

Attachment

cc: Houston
Denver
Vernal
File - 3

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

SUBMIT IN ~~DUPLICATE~~
(Other instructions on reverse side)

5. Lease Designation and Serial No.

STATE 16909

6. If Indian, Allottee or Tribe Name

UTE (SURFACE)

7. Unit Agreement Name

8. Farm or Lease Name

DUCK CREEK

9. Well No.

5-16GR

10. Field and Pool, or Wildcat

**Not Pooled
DUCK CREEK-GREEN RIVER**

11. Sec., T., R., M., or Blk. and Survey or Area

SEC 16, T9S, R20E

12. County or Parrish 13. State

UINTAH UTAH

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL

DEEPEN

PLUG BACK

b. Type of Well

Oil Well

Gas Well

Other

Single Zone

Multiple Zone

2. Name of Operator

BELCO PETROLEUM CORPORATION

3. Address of Operator

P. O. BOX 250, BIG PINEY, WYOMING 83113

4. Location of Well (Report location clearly and in accordance with any State requirements)

539' FSL & 2000' FEL (SW SE)

At proposed prod. zone

SAME

14. Distance in miles and direction from nearest town or post office*

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

539

16. No. of acres in lease

560

17. No. of acres assigned to this well

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

1945'

19. Proposed depth

5300'

20. Rotary or cable tools

ROTARY

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

4868' NAT GL

22. Approx. date work will start*

23.

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12 1/4"	9-5/8"	36.0# K-55	200'	200 sx
7-7/8"	5 1/2"	15.5# K-55	5300'	AS NEEDED

ESTIMATED LOG TOPS: Uinta Surface, Green River 1862'.

Propose to drill a 12 1/4" hole to 200' and run 9-5/8", 36.0#, K-55 surface casing to 200'. Will cement to surface. Rig up BOP and test daily as to proper operation. Drill a 7-7/8" hole to TD at 5300' with a minimum amount of downhole deviation. Adequate mud properties will be used to control the well. Drilling samples will be collected. All potential producing formations will be adequately evaluated. If shows warrant, 5 1/2" OD production casing will be run to TD and cemented sufficiently to protect all producing intervals. Safe equipment and operating procedures will be used. If a dry hole, a dry hole marker will be erected as per regulations.

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: *Robert Spingman*

Title **ENGINEERING TECHNICIAN**

Date **11/10/78**

(This space for Federal or State office use)

Permit No. **43-047-305-23**

Approval Date

Approved by

Title

Date

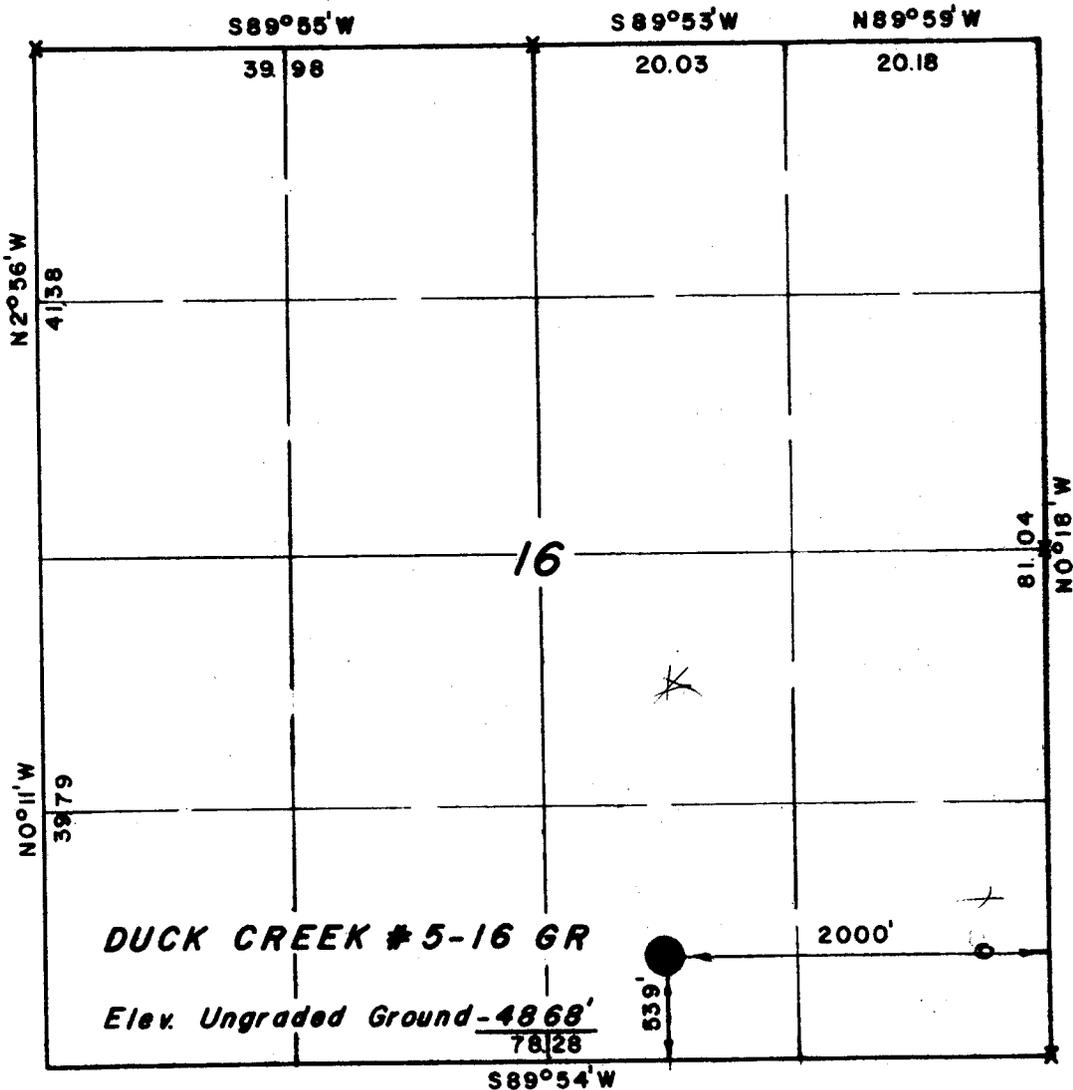
Conditions of approval, if any:

T9S, R20E, S.L.B. & M.

PROJECT

BELCO PETROLEUM CORP.

Well location, **DUCK CREEK #5-16 GR**
located as shown in the SW 1/4 SE 1/4
Section 16, T9S, R20E, S.L.B. & M.
Uintah County, Utah.



X = Section Corners Located



CERTIFICATE

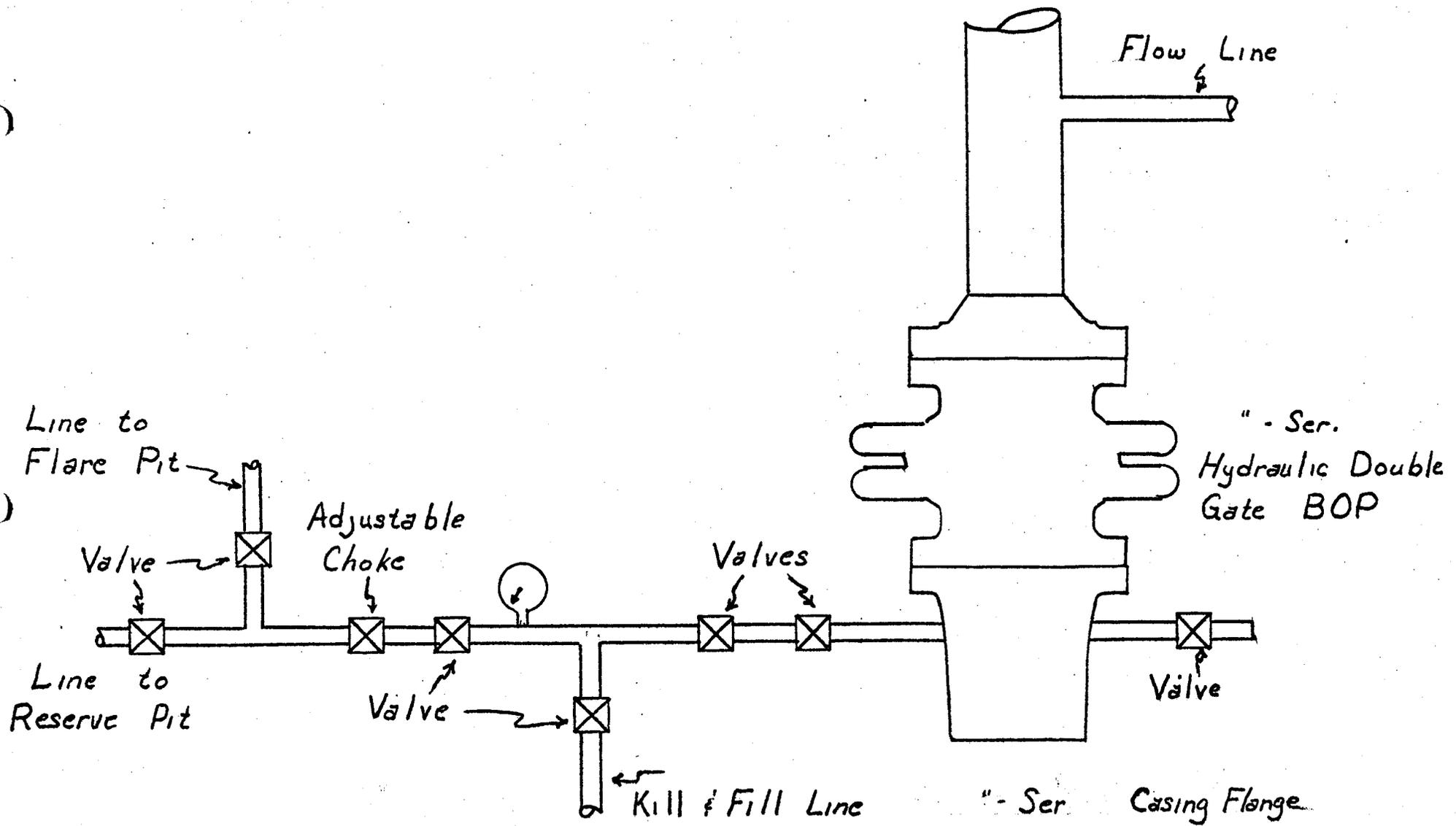
THIS IS TO CERTIFY THAT THE ABOVE PLAY WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Lana Stewart

REGISTERED LAND SURVEYOR
REGISTRATION NO 3154
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 11 / 8 / 78
PARTY L.D.T. D.S. W.J. SM	REFERENCES GLO Plat
WEATHER Clear & Cool	FILE BELCO PETROLEUM



Proposed Action:

On January 10, 1979, Belco Petroleum Corporation filed an Application for Permit to Drill the No. 5-16 GR development well, a 5300-foot oil test of the Green River Formation; located at an elevation of 4868 ft. in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 16, T. 9S., R. 20E., SLB&M on Federal mineral lands and Tribal surface; lease No. U-38399. There was no objection raised to the wellsite. An objection was raised to the access road, however, no suitable alternative could be located, therefore the proposed road should be used.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface Plan are on file in the USGS District Office in Salt Lake City, Utah and the USGS Northern Rocky Mountain Area Office in Casper, Wyoming. The 13-Point Surface Protection Plan is on file in the District Office in Salt Lake City.

A working agreement has been reached with the Bureau of Indian Affairs, the controlling surface agency. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to construct a drill pad 180 ft. wide x 325 ft. long and a reserve pit 100 ft. x 150 ft. A new access road would be constructed 18 ft. wide x 0.5 miles long from a maintained road from Belco Well No. 6-16 in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 16. The operator proposes to construct production facilities on disturbed area of the proposed drill pad. The anticipated starting date is upon approval. Since an archaeological survey has not been performed, activities could not commence till snowmelt in spring 1979. The duration of drilling activities would be about 30 days. ←

Location and Natural Setting:

The proposed drillsite is approximately 4 miles south of Ouray, Utah, the nearest town. A fair road runs to within 0.7 miles of the location. This well is in the Bitter Creek field.

Topography:

Area topography consists of the mesa-like resistant knolls and corresponding flat valleys with deeply cut drainages characteristic of the Bitter Creek field. The location is situated on a relatively flat area of adequate size to permit drill pad construction.

Geology:

The surface geology is Uinta Formation. The soil is sandy clay. No geologic hazards are known near the drillsite. Seismic risk for the area is minor based on historic evidence. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.

Approval of the proposed action would be conditioned that adequate and sufficient electric/radioactive/density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist. Loss of circulation may result in the lowering of the mud levels, which might permit exposed upper formations to blow out or to cause formation to slough and stick to drill pipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep in to the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occurring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation.

A geologic review of the proposed action has been furnished by the Area Geologist, U.S. Geological Survey, Salt Lake City, Utah.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey engineers and determined to be adequate.

Soils:

No detailed soil survey has been made of the project area. The top soils in the area range from a sandy clay to a clay type soil. The soil is subject to runoff from rainfall and has a high runoff potential and sediment production would be high. The soils are mildly to moderately alkaline and support the salt-desert shrub community.

Top soil would be removed from the surface and stockpiled. The soil would be spread over the surface of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access roads per the recommendations of the Bureau of Indian Affairs.

Approximately 3.3 acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slope-cut area would minimize this impact.

Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated.

Precipitation:

Annual rain fall should range from about 5 to 9" at the proposed location. The majority of the numerous drainages in the surrounding area are of a non-perennial nature flowing only during early spring runoff and during extremely heavy rain storms. This type of storm is rather uncommon as the normal annual precipitation is around 7".

Winds are medium and gusty, occurring predominately from west to east. Air mass inversions are seasonal, occurring frequently in winter. The climate is semi-arid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.

Surface Water Hydrology:

Drainage from the location is through non-perennial washes in a northerly direction to the White River, a tributary of the Green River.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface water systems. The potentials for pollution would be present from leaks or spills. The operator is required to report and clean-up all spills or leaks.

Ground Water Hydrology:

Some minor pollution of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is

normal and unavoidable during rotary drilling operations. The potential for communication, contamination and comingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B. The depths of fresh water formations are listed in the 10-Point Subsurface Protection Plan. There would be no tangible effect on water migration in fresh water aquifers. The pits would be lined per the usual practice of the operator to conserve water. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

Vegetation:

Plants in the area are of the salt-desert-shrub types.

Proposed action would remove about 3.3 acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations.

Wildlife:

The fauna of the area consists predominantly of mule deer, coyotes, rabbits, foxes, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used by man for the primary purpose of grazing domestic livestock and sheep. The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

No endangered plants or animals are known to inhabit the project area.

Social-Economic Effect:

An on the ground surface archaeological reconnaissance would be required prior to approval of the proposed action. Appropriate clearances would then be obtained from the surface managing agency. If a historic artifact, an archaeological feature or site is discovered during construction operations; activity would cease until the extent, the scientific importance, and the method of mitigating the adverse effects could be determined by a qualified cultural resource specialist.

There are no occupied dwellings or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and is judged to be minor. All permanent

facilities placed on the location would be painted a color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operation may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

The site is not visible from any major roads. After drilling operations, completion equipment would be visible to passersby of the area.

The economic effect on one well would be difficult to determine. The overall effect of oil and gas drilling and production activity are significant in Uintah County.

But should this well discover a significant new hydrocarbon source, local, state, and possible national economics might be improved. In this instance, other development wells would be anticipated, with substantially greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

There are no national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

Waste Disposal:

The mud and reserves pits would contain all fluids used during the drilling operations. A trash pit would be utilized for any solid wastes generated at the site and would be buried at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

Alternative to the Proposed Action:

(1) Not approving the proposed permit-The oil and gas lease grants the lessee exclusive right to drill for, mine, extract, remove and dispose of all oil and gas deposits. Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to

the surface and subsurface would be prevented as much as possible under USGS and other controlling agencies supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of oil should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.

(2) Minor relocation of the wellsite and access road or any special, restrictive stipulations or modifications to the proposed program would not significantly reduce the environmental impact. There are no severe vegetative, animal or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

(3) Access to the proposed well would be from Belco Well No. 6-16 in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 16, T. 9S., R. 20E., and would traverse a rugged cliff-like structure to permit access. Much dirt work would be necessary. A small Gilsonite mining operation, located in SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 16 prohibits access from Belco Well No. 4-21GR in Section 21, which would be over relatively flat terrain. No other alternate could be located. Therefore, the access road as proposed must be used.

(4) The operator reports (in APD) that a maximum road disturbance of 40 ft. would be used. This is unnecessary in most instances, however, the rugged terrain in the area requires wider than normal roads to permit access. The majority of road constructed by the operator would be 18 ft. wide with associated drainage ditches.

(5) Petroleum exploration should have little impact on the Gilsonite mine located approximately 1000 ft. south of the proposed well.

Adverse Environmental Effects Which Cannot Be Avoided:

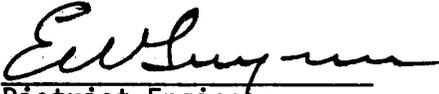
Surface disturbance and removal of vegetation from approximately 3.3 acres of land surface for the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, gas leaks, and spills of oil and water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for sub-surface damage to fresh water aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable and irretrievable

commitment of resources would be made. Erosion from the site would eventually be carried as sediment in the White River. The potential for pollution to the Green River would exist through leaks and spills.

Determination:

This requested action ~~does~~/does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2)(C).

2/12/79
Date


District Engineer
U.S. Geological Survey
Conservation Division
Oil and Gas Operations
Salt Lake City District

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: Nov. 22 -
Operator: Bulco Petroleum Co.
Well No: Duck Creek 5-169R
Location: Sec. 16 T. 9S R. 20E County: Utah

File Prepared: Entered on N.I.D.:
Card Indexed: Completion Sheet:
API Number: 43-047-30523

CHECKED BY:

Administrative Assistant: AW
Remarks: Oil - well in to see pattern
Petroleum Engineer: _____
Remarks: _____
Director: 7
Remarks: _____

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: Survey Plat Required:
Order No. _____ Surface Casing Change
to _____
Rule C-3(c), Topographic exception/company owns or controls acreage
within a 660' radius of proposed site
O.K. Rule C-3 O.K. In _____ Unit

*Approved
for oil only*

Letter ~~Written~~ / Approved

SCOTT M. MATHESON
Governor



OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771
November 22, 1978

I. DANIEL STEWART
Chairman

CHARLES R. HENDERSON
JOHN L. BELL
THADIS W. BOX
C. RAY JUVELIN

CLEON B. FEIGHT
Director

Belco Petroleum Company
P.O. Box 250
Big Piney, Wyoming 83113

Re: ~~Well No.~~
✓ Duck Creek 5-16GR
Sec. 16, T. 9 S, R. 20 E,
Duck Creek 6-16GR
Sec. 16, T. 9 S, R. 20 E,
Duck Creek 7-16GR
Sec. 16, T. 9 S, R. 20 E,
Uintah County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to wells is hereby granted in accordance with Rule C-3, General Rules and Regulations. However, as Rule C-3 specifies 640-acres for gas well production, the above wells may be completed for oil production only.

Should you determine that it will be necessary to plug and abandon these wells, you are hereby requested to immediately notify the following:

CLEON B. FEIGHT - Director
Home: 466-4455
Office: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is:

#5-16GR: 43-047-30523 #6-16GR: 43-047-30540
#7-16GR: 43-047-30541

Very truly yours,

CLEON B. FEIGHT
Director



SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

May 24, 1979

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON
Chairman

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
CONSTANCE K. LUNDBERG
EDWARD T. BECK
E. STEELE McINTYRE

Belco Development Corporation
P. O. Box 250
Big Piney, Wyoming 83113

Re: PLEASE SEE ATTACHED SHEET FOR
LIST OF WELL LOCATIONS

Gentlemen:

In reference to above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Kathy Avila

KATHY AVILA
RECORDS CLERK

Attachment: Well locations

- 1) Well No. Natural Buttes Unit 39-28B
Sec. 28, T. 9S, R. 20E,
Uintah County, Utah
- 2) Well No. Natural Buttes Unit 60-26B
Sec. 26, T. 10S, R. 22E,
Uintah County, Utah
- 3) Well No. Chapita Wells Unit 42-13
Sec. 13, T. 9S, R. 22E,
Uintah County, Utah
- 4) Well No. Chapita Wells Unit 43-11
Sec. 11, T. 9S, R. 22E,
Uintah County, Utah
- ~~5) Well No. Duck Creek 5-16GR
Sec. 16, T. 9S, R. 20E,
Uintah County, Utah~~
- 6) Well No. Duck Creek 6-16GR
Sec. 16, T. 9S, R. 20E,
Uintah County, Utah
- 7) Well No. Duck Creek 7-16GR
Sec. 16, T. 9S, R. 20E,
Uintah County, Utah
- 8) Well No. Natural Duck 2-15GR
Sec. 15, T. 9S, R. 20E,
Uintah County, Utah
- 9) Well No. Natural Duck 3-15GR
Sec. 15, T. 9S, R. 20E,
Uintah County, Utah
- 10) Well No. Natural Duck 4-21GR
Sec. 21, T. 9S, R. 20E,
Uintah County, Utah

Belco Petroleum Corporation

Belco



May 30, 1979

Mr. Cleon B. Feight
Utah Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116

RE: The Attached Listing of Wells

Dear Mr. Feight:

In reference to a letter dated May 24, 1979, from Kathy Avila of your office requesting information concerning the attached listing of wells, please be advised of the following:

1. Natural Buttes Unit 39-28B - This well has been drilled and is presently being completed.
2. Natural Buttes Unit 60-26B - The location has been prepared and surface casing has been set. This well will be drilled in the near future.
3. Chapita Wells Unit 42-13 and Chapita Wells Unit 43-11 - These locations have been prepared and should be drilled in the near future.
4. Applications for Permit to Drill were submitted to the USGS and your office in early December, 1978, and the proposed locations were inspected on January 26, 1978, by the USGS and the BIA. As yet we have not received approval from the USGS to drill the following wells:

*Duck Creek 5-16 GR	Natural Duck 2-15 GR
Duck Creek 6-16 GR	Natural Duck 3-16 GR
Duck Creek 7-16 GR	Natural Duck 4-21 GR

Very truly yours,

BELCO DEVELOPMENT CORPORATION

Leo R. Schueler

Leo R. Schueler
District Manager

RAS/rgt

Attachment

cc: Houston
Denver
Vernal
File

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGIC SURVEY

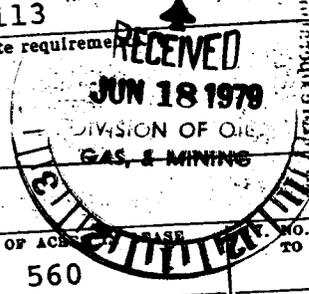
6. LEASE DESIGNATION AND SERIAL NO.
UTAH 16909-38399

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

TYPE OF WORK
DRILL **DEEPEN** **PLUG BACK**
 TYPE OF WELL
 GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

NAME OF OPERATOR
Belco Petroleum Corporation
 ADDRESS OF OPERATOR
P. O. Box 250, Big Piney, Wyoming 83113

LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
 Surface
539' FSL & 2000' FEL (SW SE)
 Proposed prod. zone
Same
 DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*



6. IF INDIAN, ALLOTTEE OR TRIBE NAME
UTE (SURFACE)
 7. UNIT AGREEMENT NAME
 8. FARM OR LEASE NAME
DUCK CREEK
 9. WELL NO.
5-16GR
 10. FIELD AND POOL, OR WILDCAT
GREEN RIVER
 11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA
Section 16, T9S, R20E
 12. COUNTY OR PARISH
Uintah
 13. STATE
Utah
 16. NO. OF ACRES ASSIGNED TO THIS WELL
560
 19. PROPOSED DEPTH
5300'
 20. ROTARY OR CABLE TOOLS
Rotary
 22. APPROX. DATE WORK WILL START*
1/79

DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. Also to nearest drlg. unit line, if any)
539'
 DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
1945'
 ELEVATIONS (Show whether DF, RT, GR, etc.)
4868' Natural GL

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	9-5/8"	36.0#, K-55	200'	200 SX
8-3/4"	4 1/2"	11.6#, K-55	5300'	1000 SX

1. SURFACE FORMATION: **Uinta**
2. EST LOG TOPS: **Green River 1862'**
3. Anticipate oil in the Green River @ **3407', 4172' and 4777'**. Anticipate Water through the Uinta.
4. CASING DESIGN: New casing as above. Surface will be set with a dry hole digger.
5. MIN BOP: **8", 3000# hydraulic double gate BOP**. Test to 1000# prior to drilling surface plug and on each trip for bit.
6. The water base gel-chemical mud weighted to 10.5 ppg will be used to control the well.
7. AUXILIARY EQUIPMENT: **2", 3000# choke manifold and kill line, kelly cock, stabbing valve and visual mud monitoring.**
8. Run DIL, CNL-FDC-GR logs, no cores or DST's are anticipated.
9. No abnormal pressures or problems are anticipated. A fracture treatment of + 12,000 gal ADC and + 12,000# sand is anticipated.
0. Operations will begin approx 1/79 (and end approx 1/79). Duration of

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 entry program, if any.

operations will be approx. 30 days.

SIGNED *Robert Spingman* TITLE **ENGINEERING TECHNICIAN** DATE **12/4/78**

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY **(Orig. Sgd.) R. A. Henricks** TITLE **DISTRICT ENGINEER** DATE **JUN 15 1979**

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

NOTICE OF APPROVAL
Utah Dilt Las

NECESSARY FLARING OF GAS DURING DRILLING AND COMPLETION APPROVED SUBJECT TO ROYALTY (NTL-4)

JN

VERNAL DISTRICT
DAILY DRILLING REPORT
AUGUST 24, 1979

DRILLING

NBU 69-28B
TD 7160'
Island Zone
RL Manning #23
Selco WI 100%

7160' (0') 23. LD DP. Island Zone
Circ & cond 1 hr. POH 4 hrs. Schlumberger ran Dual
Lateral log & Density Neutron w/caliper log 9 1/4 hrs.
Rig down loggers 1 hr. TIH, break circ @ 3000' & 5000',
3 1/4 hrs. Circ & cond 3 hrs. LD DP 2 1/2 hrs. Dev @
7160' 2°.
Mud prop: MW-9.4, VIS-33, WL-6.2, Chl-44,000
AFE to csg point \$228,000
Cost to csg point \$281,458
Cost to date \$281,458

NBU 65-25B
TD 6074'
Buck Canyon
Handler & Assoc 1
Selco WI 100%

5408' (293') 9. Drlg Buck Canyon
Drl'd 5' 8 3/4" hole, 288' 7 7/8" hole in 15 3/4 hrs. Trip
for bit #2, slip drlg line 6 1/2 hrs.
Bit #1, 8 3/4, F-4, 3 14/32, 4897' 174 1/2 hrs. T-3, B-4, G-0
Bit #2, 7 7/8, F-2, 3 15/32, 288' 15 1/2 hrs.
PP-1050, WT-40, RPM-62
Mud prop: MW-9.2, VIS-28, WL-12.8, Chl-80,000, BG-10, CG-25
Drlg brks: 5296-5304' (8') 4.0-2.0-3.0, 225/20, no show
AFE to csg point \$241,000
Cost to date \$104,146

STGU 14-34
TD 7327'
Buck Canyon
RL Manning #23
Selco WI 100%

Building location. Bill Jr Rathole Drlg reamed 17 1/2" hole
to 18" w/mud. Drl'd to 83'. Allwestern set 83.5' 13 3/8"
K-55 casing to 83' GL.
AFE to csg point \$235,000
Cost to date \$8950

COMPLETION

C 5-16GR *
L Well Serv
Selco WI 100%
BTD 5050'

TP-50, CP-0. Flowing through 18/64 choke. Flowed 6 hrs,
70 BBLS. Set 2 7/8" tbg plug @ 165'. Unseated pkr, lower
and set w/14,000#. Hung 20,000# on donut. Installed flow
head and 15/64 choke. Opened to tank. Rig down, move off.

Tubing detail: Bridge plug @ 4883'
Retrieving tool & 1 jt 32.47
RTTS packer 4.67
1 jt tbg 31.65
seating nipple .85
145 jts tbg 4630.18
KB 10.00
Tbg hung @ 4709.82

AFE (completion) \$375,000
Cost to date \$296,166

BU 52-1B
L Well Serv
Selco WI 100%
BTD 6937'

Rig up. Move in pump, tank, BOP & power swivel. SLM &
drift tbg. PU 158 jts Tagged 12' in on 159th jt @ 4965'.
Will drill out stage collar this A.M.
AFE (completion) \$433,000
Cost to date \$280,672

NAME: DISTRICT GEOLOGIST, ME, SALT LAKE CITY, UTAH

ADDRESS: DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-16409

OPERATOR: BELCO PETROLEUM CORP

WELL NO. 5-166R

LOCATION: 1/4 SW 1/4 SE 1/4 sec. 16, T. 9S, R. 20E, SLM

UINTAH County, UTAH

Stratigraphy: Surface rocks are of the Uintah Fm. Anticipated in the Green River Fm by the operator at 3407', 172' + 4777'. T.D. 5300. Gas may also be expected in the Wasatch Fm. about 5225-5262.

Fresh Water: Usable water may be anticipated by the operator through the Green River & Uintah.

Leasable Minerals: Oil Shale may occur in the Green River Fm. between 2000-3000 ft. Pods of saline minerals may occur above & between the oil shale beds. Top of the Mahogany oil shale zone may occur between 2000-2500' (approx 2300').

Additional Logs Needed: Log should penetrate through the Green River Fm to test the oil shale beds.

Potential Geologic Hazards: None anticipated.

References and Remarks: Within Bitter Creek K.G.S. USGS files & USGS Map I-736

Signature: emb

Date: 12-28-78

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE

(See instructions on
reverse side)

Form approved.
Budget Bureau No. 42-R355.5

15

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
BELCO PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR
P. O. BOX X, VERNAL, UTAH 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface
539' FSL & 2000' FEL (SW SE)
At top prod. interval reported below
SAME
At total depth
SAME

14. PERMIT NO. **43-047-30523** DATE ISSUED **11/22/78**

5. LEASE DESIGNATION AND SERIAL NO.

UTAH 38399

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

UTE (SURFACE)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

DUCK CREEK

9. WELL NO.

5-16 GR

10. FIELD AND POOL, OR WILDCAT

DC - GREEN RIVER

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

SEC 16, T9S, R20E

12. COUNTY OR PARISH

UINTAH

13. STATE

UTAH

15. DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 19. ELEV. CASINGHEAD

7/10/79 7/30/79 9/27/79 4880' KB 4868'

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

5095' 5050' -- -- ALL --

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE

3400-4920' GREEN RIVER NO

26. TYPE ELECTRIC AND OTHER LOGS RUN 27. WAS WELL CORRED

DIL, CNL-FDC-GR YES

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"	36.0# NKK	210'	13"	200 sx Class "H"	NONE
5 1/2"	15.5# NKK	5095'	8-3/4"	960 sx 50-50 Pozmix	NONE

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	4915'	

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

4913-4917'

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4913-4917'	18,450 gal ADC
	8,000# 20/40 sand
	4,000# 10/20 sand

33.* PRODUCTION

DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in)

9/27/79 PUMPING PRODUCING

DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO

10/1/79 24 -- -- 146 0 0 0

FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)

20# -- -- 146 -- -- 36.6 @ 60°

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

AL MAXFIELD

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 Megan E. Ope TITLE ENGINEERING CLERK DATE 11/21/79

*(See Instructions and Spaces for Additional Data on Reverse Side)

WORKOVERS

DC 5-16GR (DW-OIL)
Duck Creek
Uintah County, Utah
Gibson Well Service
Belco WI 100%

Sec 16, 9S, 20E

Report # 1
MIRU, TOH w/rods & pump, drop standing valve,
Press test tbg OK, TIH w/rod & Fishing Tool
to recover standing valve, Could not catch
valve, Pariffin problems, SDFN
This A.M. Circ well w/100 Bbls hot diesel.
CUM COST \$2,980

Report # 2
Hot Oil well w/105 Bbls Hot Diesel, TIH w/rods
and Fishing Tools, caught stand valve, TOH,
TIH, w/rod & new pump, Hung well on, Start
pumping @4:30 P.M. Release Rig @4:45
This A.M. Well pumping.
PUMP INSTALLED: F-58 2½x1½x12-15½ THD
PUMP TAKEN OUT: A-101 2½x1½x16x19 BHD

ROD DETAIL:

93	3/4
64	7/8
52	1"
1 8'x1"	Pup
2 2'x1"	Pups
1 10x1"	Pup
22x1¼"	Polish Rods
12x1½	Liner

CUM COST \$4,730

ENRON
Oil & Gas Company

020930

P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161

February 4, 1987

RECEIVED
FEB 06 1987

Ms. Tammy Searing
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180

DIVISION OF
OIL, GAS & MINING

Dear Ms. Searing,

To confirm our recent telephone conversation, effective December 31, 1986 Belco Development Corporation was merged with Enron Oil & Gas Company, a Delaware Corporation, the surviving corporate entity (Utah State I.D. Number N0401). Please adjust your records to reflect such change.

Also, please find enclosed a copy of the 1987 Return for Assessment which lists wells in the state of Utah which Belco Development Corporation had an interest.

If you have any questions, you may call me at 713-853-5518.

Very truly yours,



John Thomas
Governmental Royalties & Taxes

ENCLOSURE

cc: Don Fox



UTAH
NATURAL RESOURCES
Oil, Gas & Mining

355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut
84180-1203. (801-538-5340)

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

• BELCO DEVELOPMENT CORP
P O BOX X
VERNAL UT 84078
ATTN: CATHERINE ANDERSON

Utah Account No. NO101

Report Period (Month/Year) 1 / 87

Amended Report

Well Name	Producing Zone	Days Oper	Production Volume	Gas (MSCF)	Water (BBL)
API Number	Entity	Location	Oil (BBL)		
X STAGECOACH U 21-8 4304730659	04920 09S 22E 8	WSTC	✓		
X STAGECOACH U 22-17 4304731299	04920 09S 22E 17	WSTC	✓		
X STAGECOACH U 10-23 4304720163	04925 08S 21E 23	GRRV	✓		
X DUCKCREEK 1-11G 4304730326	04930 09S 20E 11	WSTC	✓		
X DUCKCREEK 2-10G 4304730434	04935 09S 20E 10	WSTC	✓		
X DUCKCREEK 3-16GR 4304730476	04940 09S 20E 16	GRRV	✓		
X DUCKCREEK 5-16GR 4304730523	04940 09S 20E 16	GRRV	✓		
X DUCKCREEK 6-16GR 4304730540	04940 09S 20E 16	GRRV	✓		
X DUCKCREEK 7-16GR 4304730541	04940 09S 20E 16	GRRV	✓		
X DUCKCREEK 11-16GR 4304730626	04940 09S 20E 16	GRRV	✓		
X DUCKCREEK 10-16GR 4304730627	04940 09S 20E 16	GRRV	✓		
X DUCKCREEK 8-16GR 4304730628	04940 09S 20E 16	GRRV	✓		
X DUCKCREEK 15-16GR 4304730649	04940 09S 20E 16	GRRV	✓		
TOTAL					

Comments (attach separate sheet if necessary) _____

I have reviewed this report and certify the information to be accurate and complete. Date _____

Authorized signature _____ Telephone _____

ENRON

Oil & Gas Company

P.O. Box X, Vernal, Utah 84078, Telephone (801) 789-0790

February 16, 1987

State of Utah
Division of Oil, Gas & Mining
355 W. North Temple
Salt Lake City, Utah

RECEIVED
FEB 20 1987

Attention: Ron Firth

DIVISION OF
OIL, GAS & MINING

Dear Mr. Firth:

This is to advise that Enron Oil and Gas has acquired the assets of the following companies:

Belco Development Corporation
Belco Petroleum - North America, Inc.
BelNorth Energy Corporation
BelNorth Petroleum Corporation
FEC Offshore Inventory Company
Florida Exploration Company
HNG Exploration Company
HNG Fossil Fuels Company
HNG Oil Company
HNG Oil (Sumatra) Inc.
IN Holdings, Inc.
InterNorth Exploration and Production Division
Ocelot Oil Company
Smitheastern Exploration Company

It is requested that all leases and well names be changed to reflect the new names. A list of affected lease numbers and well names is attached. Also, the bonding should be transferred to Enron Oil and Gas. Enron Oil and Gas Company, A Delaware Corporation, is wholly owned by Enron Corporation.

It is requested that 90 days be granted to have all the wells signs changed.

Also, attached is legal evidence of this ownership. If there are any questions or other information is needed please contact J. C. Ball at 789-0790 in the Vernal Office.

Sincerely yours,



J. C. Ball

District Superintendent

JCB:jl

cc A. C. Morris
D. Weaver
File
J. C. Ball
D. Wright

Part of the Enron Group of Energy Companies

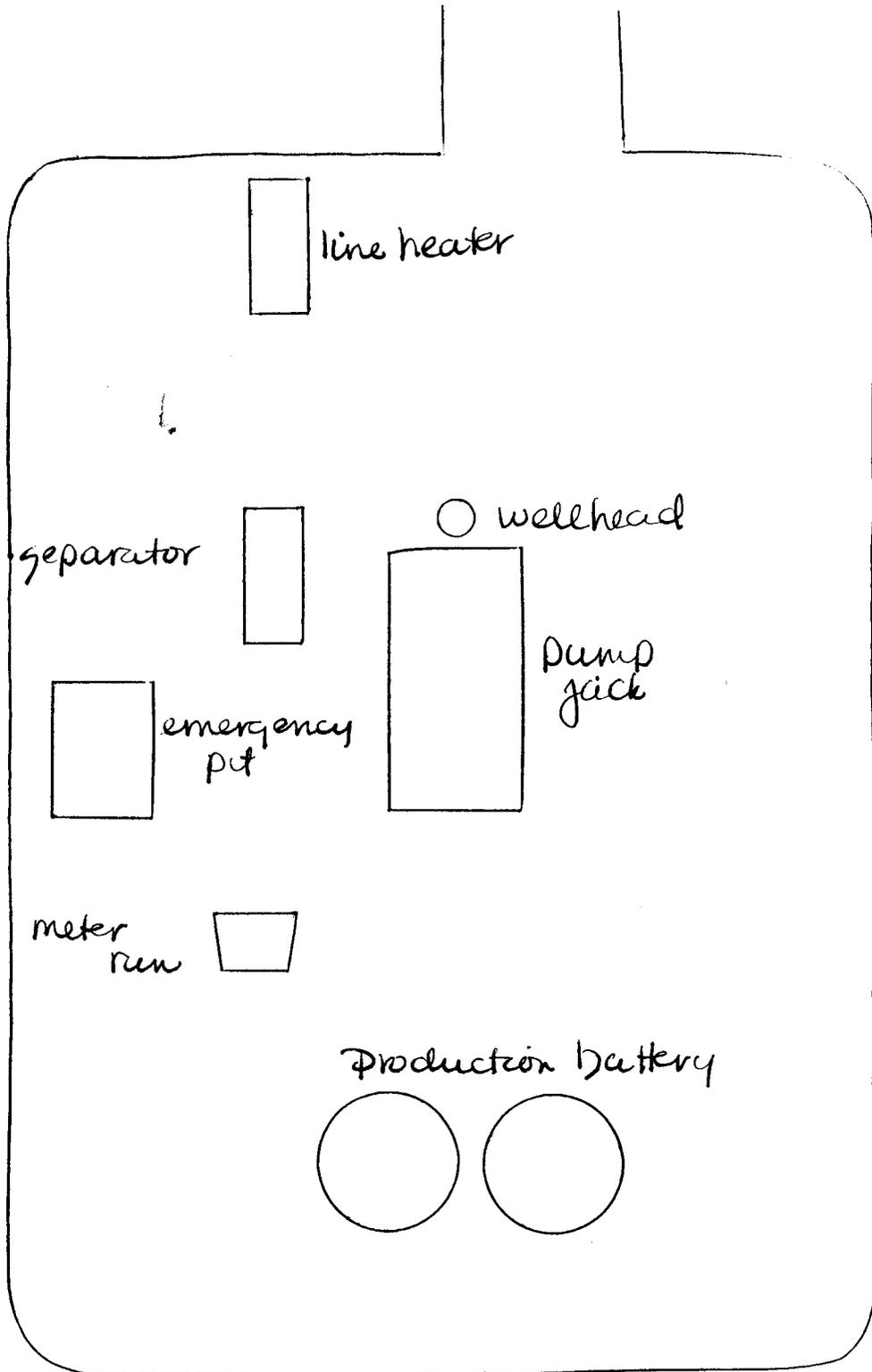
Page 2

cc: Bureau of Land Management - Utah
Bureau of Land Management - Colorado
Bureau of Land Management - New Mexico
State of Utah
State of Colorado
State of New Mexico

Duck Creek S-16GR

Sec 16, T9S, R20E

Hubly 1/4/89



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

SUBMIT IN TRIPLICATE*
(Other copies to be filed on
the reverse side)

<p>SUNDRY NOTICES AND REPORTS ON WELLS</p> <p><small>(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.)</small></p>		<p>5. LEASE DESIGNATION AND SERIAL NO. 11-38399</p> <p>6. IS INDIAN ALLOTTEE OR TRIBE NAME UTE (SURFACE)</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME DUCK CREEK</p> <p>9. WELL NO. 5-16GR</p> <p>10. FIELD AND POOL, OR WILDCAT DUCK CREEK GREEN RIVER</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC 16, T9S, R20E</p> <p>12. COUNTY OR PARISH uintah</p> <p>13. STATE utah</p>
<p>1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER</p>		
<p>2. NAME OF OPERATOR ENRON OIL & GAS COMPANY</p>		
<p>3. ADDRESS OF OPERATOR P. O. BOX 1815 VERNAL, UT 84078</p>		
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 539' FSL & 2000' FEL SW/SE</p>		
<p>14. PERMIT NO. 43 047 30523</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4880'KB</p>	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>ANNUAL STATUS REPORT</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		<small>(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>	

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.)*

UNECONOMICAL TO PRODUCE



FEB 04 1992

DIVISION OF
OIL, GAS & MINING

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

SIGNED *Carol Hatch* TITLE PRODUCTION ANALYST DATE 2-3-92

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

ENRON

OIL & GAS COMPANY

P.O. BOX 1815, VERNAL, UTAH 84078 (801)789-0790

January 6, 1993

Mr. Ronald J. Firth
State of Utah
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RE: DUCK CREEK 5-16
SWSE Sec. 16, T9S, R20E S.L.B.&M
Uintah County, Utah
LEASE NO. U-38399

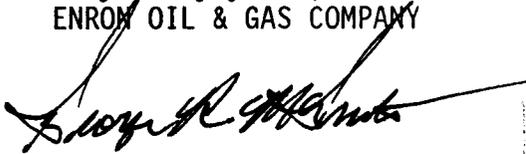
Attn: Mr. Ronald J. Firth

Dear Mr. Firth:

Attached please find an Annual Status Report Sundry Notice on subject well.

If you require further information concerning this matter, please contact this office.

Very truly yours,
ENRON OIL & GAS COMPANY



George R. McBride
Sr. Production Foreman

RECEIVED

JAN 07 1993

DIVISION OF
OIL, GAS & MINING

cc: Bureau of Land Management - Vernal District
Curt Parsons
Doug Weaver/Toni Miller
Suzanne Saldivar - Houston - EB2369
Diane Cross - Houston - EB2370
File

/lwSundry

STATE OF UTAH
DIVISION 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:

Utah 38399

6. If Indian, Allottee or Tribe Name:

Ute Tribal Surface

7. Unit Agreement Name:

8. Well Name and Number:

Duck Creek 5-16GR

9. API Well Number:

43-047-30523

10. Field and Pool, or Wildcat:

Duck Creek/Greenriver

1. Type of Well: OIL GAS OTHER:

2. Name of Operator:

Enron Oil & Gas Company

3. Address and Telephone Number:

P.O. Box 1815 Vernal, Utah 801-789-0790

4. Location of Well

Footages: 539' FSL & 2000' FEL
CQ, Sec., T., R., M.: SW/SE Sec. 16, T9S, R20E

County: Uintah

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- | | |
|---|---|
| <input type="checkbox"/> Abandonment * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>ANNUAL STATUS REPORT</u> | |

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.)

STATUS 12/31/92: SI UNECONOMICAL TO PRODUCE

RECEIVED

JAN 07 1993

DIVISION OF
OIL, GAS & MINING

13.

Name & Signature:

Linda J. Van...

Title:

Sr. Admin. Clerk

Date:

1/6/93

(This space for State use only)

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

5. Lease Designation and Serial No.
U-38399

6. If Indian, Allottee or Tribe Name
Ute Tribal Surface

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Duck Creek 5-16GR

9. API Well No.
43-047-30523

10. Field and Pool, or Exploratory Area
Green River

11. County or Parish, State
Uintah, Utah

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

SEP 07 1993

DIVISION OF
OIL, GAS & MINING

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Bishop Petroleum Corporation

3. Address and Telephone No.
1580 Lincoln Street, Suite 880, Denver, Colorado 80203

4. Location of Well (Footage, Sec., T., R., M., or Survey Description) (303) 863-7800
539' FSL & 2000' FEL; SW $\frac{1}{4}$ SE $\frac{1}{4}$
Section 16-T9S-R20E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Change of Operator</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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.)*

On July 15, 1993, but effective September 1, 1992, Enron Oil & Gas Company assigned all of its right, title and interest in the above-described well to Bishop Petroleum Corporation.

Please be advised that Bishop Petroleum Corporation is now considered to be the operator of the Duck Creek 5-16GR Well; SW/4SE/4 of Section 16, Township 9 South, Range 20 East; Lease U-38399; Uintah County, Utah; and is responsible under the terms and conditions of the Lease for the operations conducted upon the leased lands. Bond coverage is provided by BLM Bond No. UT0948.

RECEIVED
JUL 15 1993

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

Signed [Signature] Title President Date 7-15-93

(This space for Federal or State office use)
Approved by [Signature] Title ASSISTANT DISTRICT MANAGER MINERALS Date SEP 02 1993
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

ENRON

Oil & Gas Company

1801 California Street, Suite 3400, Denver, Colorado 80202 (303) 293-2525

September 10, 1993

RECEIVED

SEP 13 1993

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

DIVISION OF
OIL, GAS & MINING

Attention: Ms. Lisha Cordova

RE: Change of Operator
Duck Creek and Natural Duck Wells
Uintah County, Utah
K0034064

Ladies and Gentlemen:

This letter will confirm that Enron Oil & Gas Company assigned all of its right, title and interest in and transferred operatorship of the following described wells to Bishop Petroleum Corporation effective September 1, 1992:

<u>Well Name</u>	<u>Description</u>	<u>API Well No.</u>
Duck Creek 11-16GR	SW/4SW/4 of Sec. 16-9S-20E	43-047-30626
Natural Duck 1-15GR	NE/4SW/4 of Sec. 15-9S-20E	43-047-30393
Natural Duck 6-15GR	NW/4SW/4 of Sec. 15-9S-20E	43-047-30647
Natural Duck 3-15GR	SW/4SE/4 of Sec. 15-9S-20E	43-047-30556
Natural Duck 5-15GR	SE/4SW/4 of Sec. 15-9S-20E	43-047-30646
Natural Duck 4-21GR	NE/4NE/4 of Sec. 21-9S-20E	43-047-30557
Natural Duck 10-21GR	NW/4NE/4 of Sec. 21-9S-20E	43-047-30769
Duck Creek 26-8GR	NE/4SE/4 of Sec. 8-9S-20E	43-047-30784
Duck Creek 15-16GR	SE/4SW/4 of Sec. 16-9S-20E	43-047-30649
Duck Creek 6-16GR	NE/4SW/4 of Sec. 16-9S-20E	43-047-30540
Duck Creek 5-16GR	SW/4SE/4 of Sec. 16-9S-20E	43-047-30523
Duck Creek 3-16GR	NE/4SE/4 of Sec. 16-9S-20E	43-047-30476
Natural Duck 12-21GR	NW/4NW/4 of Sec. 21-9S-20E	43-047-30771
Natural Duck 11-21GR	NE/4NW/4 of Sec. 21-9S-20E	43-047-30770
Natural Duck 8-15GR	SW/4NW/4 of Sec. 15-9S-20E	43-047-30679
Natural Duck 9-15GR	NW/4NW/4 of Sec. 15-9S-20E	43-047-30680
Duck Creek 18-16	SE/4NW/4 of Sec. 16-9S-20E	43-047-30655 <i>see separate change.</i>
Natural Duck 2-15GR	SW/4SW/4 of Sec. 15-9S-20E	43-047-30555

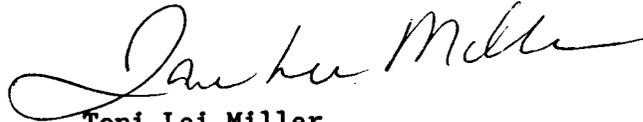
A copy of the federal-form sundry notice pertaining to the change of operator of the Natural Duck 12-21GR well is enclosed. It is our understanding that you have copies of the federal-form sundry notices pertaining to the change of operator of the others.

Division of Oil, Gas and Mining
September 10, 1993
Page 2 of 2

If you have any questions or need anything further from Enron Oil & Gas Company, please don't hesitate to contact the undersigned.

Yours very truly,

ENRON OIL & GAS COMPANY

A handwritten signature in cursive script, appearing to read "Toni Lei Miller".

Toni Lei Miller
Project Landman

TLM/dac
Enclosure
11825T

cc: Bishop Petroleum Corporation

1-LEC	7-SJV
2-DTS	58-FILE
3-VLC	
4-RJF	
5-LEC	
6-PL	

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

- 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: 9-1-92)

TO (new operator) <u>BISHOP PETROLEUM CORP</u>	FROM (former operator) <u>ENRON OIL & GAS CO</u>
(address) <u>1580 LINCOLN ST STE 880</u>	(address) <u>PO BOX 250</u>
<u>DENVER, CO 80203</u>	<u>BIG PINEY, WY 83113</u>
phone (303) <u>863-7800</u>	phone (307) <u>276-3331</u>
account no. <u>N1245</u>	account no. <u>N 0401</u>

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

- | | | | | |
|-------------------------------------|--------------------------|----------------------|--|---------------------------|
| Name: <u>NATURAL DUCK 1-15/GRRV</u> | API: <u>43-047-30393</u> | Entity: <u>5055</u> | Sec <u>15</u> Twp <u>9S</u> Rng <u>20E</u> | Lease Type <u>0144868</u> |
| Name: <u>DUCKCREEK 3-16GR/GRRV</u> | API: <u>43-047-30476</u> | Entity: <u>10723</u> | Sec <u>16</u> Twp <u>9S</u> Rng <u>20E</u> | Lease Type <u>038349</u> |
| Name: <u>DUCKCREEK 6-16GR/GRRV</u> | API: <u>43-047-30540</u> | Entity: <u>10725</u> | Sec <u>16</u> Twp <u>9S</u> Rng <u>20E</u> | Lease Type <u>038399</u> |
| Name: <u>NATURAL DUCK 2-15/GRRV</u> | API: <u>43-047-30555</u> | Entity: <u>5055</u> | Sec <u>15</u> Twp <u>9S</u> Rng <u>20E</u> | Lease Type <u>0578A</u> |
| Name: <u>NATURAL DUCK 3-15/GRRV</u> | API: <u>43-047-30556</u> | Entity: <u>5055</u> | Sec <u>15</u> Twp <u>9S</u> Rng <u>20E</u> | Lease Type <u>0578A</u> |
| Name: <u>NATURAL DUCK 4-21/GRRV</u> | API: <u>43-047-30557</u> | Entity: <u>5055</u> | Sec <u>21</u> Twp <u>9S</u> Rng <u>20E</u> | Lease Type <u>0144869</u> |
| Name: <u>DUCKCREEK 5-16GR/GRRV</u> | API: <u>43-047-30523</u> | Entity: <u>10724</u> | Sec <u>16</u> Twp <u>9S</u> Rng <u>20E</u> | Lease Type <u>038399</u> |
- CONT.

OPERATOR CHANGE DOCUMENTATION

- Sec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Ref. 9-10-93) (Rec'd 9-10-93)
- Sec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Rec'd 9-7-93)
- 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: _____.
- Sec 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.
- Sec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (9-13-93)
- Sec 6. Cardex file has been updated for each well listed above. (9-13-93)
- Sec 7. Well file labels have been updated for each well listed above. (9-13-93)
- Sec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (9-13-93)
- Sec 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.

ENTITY REVIEW

- 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) 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.

BOND VERIFICATION (Fee wells only)

- 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.
- 3. The former operator has requested a release of liability from their bond (yes/no) no. Today's date 1993. If yes, division response was made by letter dated 19 .

LEASE 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 1993, 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.
- 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: 10-6 1993.

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

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

5. Lease Designation and Serial No.

U-38399

6. If Indian, Allottee or Tribe Name

Ute Tribal Surface

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Berry Ventures, Inc.

3. Address and Telephone No.

7060 South Yale Avenue, Suite 900, Tulsa, Oklahoma 74136-5742
(918) 492-1140

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

539' FSL & 2,000' FEL, SW/4 SE/4
Section 16-T9S-R20E

8. Well Name and No.

Duck Creek 5-16 GR

9. API Well No.

43-047-30523

10. Field and Pool, or Exploratory Area

Green River

11. County or Parish, State

Uintah, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <u>Change of Operator</u>	<input type="checkbox"/> 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.)

On July 15, 1993, Bishop Petroleum Corporation sold all of its right, title and interest in the above-described well to Berry Ventures, Inc.

Please be advised that Bishop Petroleum Corporation will continue to be the contract operator of the Duck Creek 5-16 GR well under Agreement with Berry Ventures, Inc. Berry Ventures, Inc., as Lessee of Operating Rights from the surface down to the base of the Green River Formation, is responsible under the terms and conditions of the lease for operations conducted upon the leased lands. Bond coverage is provided by Berry Ventures, Inc.'s BLM Bond No. UT0949 and Bishop Petroleum Corporation's Bond No. UT0948. All notices concerning operations should be directed to Bishop Petroleum Corporation, Attention of Mr. John B. Dunnewald, 1580 Lincoln Street, Suite 880, Denver, Colorado 80203, (303) 863-7800.

RECEIVED

NOV 2 6 1993

SEP 20 1993

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

Signed

[Signature]

Title

President

OIL, GAS & MINING

Date

September 14, 1993

(This space for Federal or State office use)

Approved by

[Signature] HOWARD B. CLEAVINGER II

Title

ASSISTANT DISTRICT
MANAGER MINERALS

Date

NOV 24 1993

Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0034
Expires: July 31, 1992

TRANSFER OF OPERATING RIGHTS (SUBLEASE) IN A
LEASE FOR OIL AND GAS OR GEOTHERMAL RESOURCES

Lease Serial No.

Duck Creek
0050588-000

Mineral Leasing Act of 1920 (30 U.S.C. 181 et seq.)
Act for Acquired Lands of 1947 (30 U.S.C. 351-359)
Geothermal Steam Act of 1970 (30 U.S.C. 1001-1025)
Department of the Interior Appropriations Act, Fiscal Year 1981 (42 U.S.C. 6508)

U-38399
3-16, 5-16, 6-16
15-16 wells

Type or print plainly in ink and sign in ink.

PART A: TRANSFER

1. Transferee (Sublessee)*
Street Berry Ventures, Inc.
15 East 5th Street, Suite 1909
City, State, ZIP Code Tulsa, Oklahoma 74103

UTAH STATE OFFICE
RECEIVED
ACCOUNTS UNIT
93 AUG 19 PM 2:02
DEPT. OF INTERIOR
BUREAU OF LAND MANAGEMENT

*If more than one transferee, check here and list the name(s) and address(es) of all additional transferees on the reverse of this form or on a separate attached sheet of paper.

This transfer is for: (Check one) Oil and Gas Lease, or Geothermal Lease

Interest conveyed: (Check one or both, as appropriate) Operating Rights (sublease) Overriding Royalty, payment out of production or other similar interests or payments

2. This transfer (sublease) conveys the following interest:

Land Description	Percent of Interest			Percent of Overriding Royalty or Similar Interests	
	Owned	Conveyed	Retained	Reserved	Previously reserved or conveyed
a	b	c	d	e	f
Additional space on reverse, if needed. Do not submit documents or agreements other than this form; such documents or agreements shall only be referenced herein. Township 9 South, Range 20 East, S1M Section 16: NE $\frac{1}{4}$ SE $\frac{1}{4}$, SW $\frac{1}{4}$ SE $\frac{1}{4}$, E $\frac{1}{4}$ SW $\frac{1}{4}$ Uintah County, Utah Containing 160.00 acres, more or less Limited in depth from the surface of the earth down to the base of the Green River formation which is defined as the stratigraphic equivalent of the correlation point established at a depth of 4,822 feet below K.B. (Kelly Bushing) in the Ute Trail No. 10 well drilled by DeKalb Petroleum Company in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 34, Township 9 South, Range 21 East, Uintah County, Utah.	100%	100%	-0-	5%	-0-

FOR BLM USE ONLY—DO NOT WRITE BELOW THIS LINE

THE UNITED STATES OF AMERICA

This transfer is approved solely for administrative purposes. Approval does not warrant that either party to this transfer holds legal or equitable title to this lease.

Transfer approved effective SEP 1 1993

IRENE J. PERSON

ACTING, Chief, Minerals
Adjudication Section

AUG 31 1993

By

****Upon Transferee's written acceptance of this Transfer of Operating Rights and the Bureau of Land Management's approval of same, Transferee agrees to indemnify and hold Transferor harmless from and against any and all claims, damages, liability and causes of action of any kind or character incurred by Transferee in connection with its operation of the interests transferred hereunder.**

PART B: CERTIFICATION AND REQUEST FOR APPROVAL

1. The transferor certifies as owner of an interest in the above designated lease that he/she hereby transfers to the above transferee(s) the rights specified above.
2. Transferee certifies as follows: (a) Transferee is a citizen of the United States; an association of such citizens; a municipality; or a corporation organized under the laws of the United States or of any State or territory thereof. For the transfer of NPR-A leases, transferee is a citizen, national, or resident alien of the United States or associations of such citizens, nationals, resident aliens or private, public or municipal corporations; (b) Transferee is not considered a minor under the laws of the State in which the lands covered by this transfer are located; (c) Transferee's chargeable interests, direct and indirect, in each public domain and acquired lands separately in the same State, do not exceed 246,080 acres in oil and gas leases (of which up to 200,000 acres may be in oil and gas options), or 300,000 acres in leases in each leasing District in Alaska of which up to 200,000 acres may be in options, if this is an oil and gas lease issued in accordance with the Mineral Leasing Act of 1920, or 51,200 acres in any one State if this is a geothermal lease, and (d) All parties holding an interest in the transfer are otherwise in compliance with the regulations (43 CFR Group 3100 or 3200) and the authorizing Acts; (e) Transferee is in compliance with reclamation requirements for all Federal oil and gas lease holdings as required by sec. 17(g) of the Mineral Leasing Act; and (f) Transferee is not in violation of sec. 41 of the Mineral Leasing Act.
3. Transferee's signature to this assignment constitutes acceptance of all applicable terms, conditions, stipulations and restrictions pertaining to the lease described herein. Applicable terms and conditions include, but are not limited to, an obligation to conduct all operations on the leasehold in accordance with the terms and conditions of the lease, to condition all wells for proper abandonment, to restore the leased lands upon completion of any operations as described in the lease, and to furnish and maintain such bond as may be required by the lessor pursuant to regulations 43 CFR 3104, 3134, or 3206.

For geothermal transfers, an overriding royalty may not be less than one-fourth (1/4) of one percent of the value of output, nor greater than 50 percent of the rate of royalty due to the United States when this transfer is added to all previously created overriding royalties (43 CFR 3241).

I certify that the statements made herein by me are true, complete, and correct to the best of my knowledge and belief and are made in good faith.

Executed this 15th day of July, 19 93
but effective September 1, 1992.

Name of Transferor Bishop Petroleum Corporation
Please type or print

Transferred by [Signature]
or John B. Dunnewald (Signature)

Attorney-in-fact _____
(Signature)

1580 Lincoln Street, Suite 880
(Transferor's Address)

Denver Colorado 80203
(City) (State) (Zip Code)

Executed this 15 day of July, 19 93

BERRY VENTURES, INC.
[Signature]
(Signature)

Transferee By: _____
or _____
(Signature)

Attorney-in-fact _____
(Signature)

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 30 minutes per response, including the time for reviewing instructions, gathering the data, reviewing the form, collecting and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of Commerce, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WG-77), 18 and C Streets, N.W., Washington, D.C. 20240 and the Office of Management and Budget, Paperwork Reduction Project (1004-0034), Washington, D.C. 20503.

Title 18 U.S.C. Sec. 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.

*This Assignment is made with _____ warranty of title, either express or implied.

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1- MLC 7-6/7
2- DC 8-1/2
3- VLC ✓
4- RJB ✓
5- IB
6- PL

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

- 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: 7-15-93)

TO (new operator) <u>BERRY VENTURES, INC.</u>	FROM (former operator) <u>BISHOP PETROLEUM CORP.</u>
(address) <u>C/O BISHOP PETROLEUM CORP.</u>	(address) <u>1580 LINCOLN ST STE 880</u>
<u>1580 LINCOLN ST STE 880</u>	<u>DENVER CO 80203</u>
<u>DENVER CO 80203</u>	<u>JOHN B. DUNNEWALD</u>
phone <u>(303) 863-7800</u>	phone <u>(303) 863-7800</u>
account no. <u>N 6970</u>	account no. <u>N 1245</u>

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

Name: <u>**SEE ATTACHED**</u>	API: <u>4304730523</u>	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

- See 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Ref. 11-30-93) (Reo'd 12-10-93)*
- See 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Reo'd 11-26-93)*
- 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: _____.
- See 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.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(12-7-93)*
- See 6. Cardex file has been updated for each well listed above. *(12-7-93)*
- See 7. Well file labels have been updated for each well listed above. *(12-7-93)*
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(12-7-93)*
- See 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.

ENTITY REVIEW

- See 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). *scheduled Jan. 94' Board Hearing "Desig. Unit operations - Duck Creek Unit". Will review & make entity changes at that time. Discussed with Steve Schneider & operator.*
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- See 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.
- 3. The former operator has requested a release of liability from their bond (yes/no) . Today's date 19 . 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. *DT 12/2/93*
- 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: January 3 1994.

FILING

- See 1. Copies of all attachments to this form have been filed in each well file.
- See 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

931130 Btm/Vernal Approved 11-24-93.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

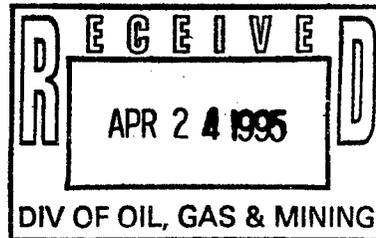
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

APR 21 1995

Ref: 8WM-DW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. John Dunnewald, Agent
Berry Ventures, Inc.
1580 Lincoln Street, Suite 880
Denver, Colorado 80203



RE: UNDERGROUND INJECTION CONTROL (UIC)
Draft Permit UT2757-04237 for
Natural Duck #5-16 GR, Duck Creek
Field, Uintah County, Utah

Dear Mr. Dunnewald:

Transmitted herewith is an Underground Injection Control (UIC) Draft Permit for your Natural Duck #5-16 GR (UT2757-04237) enhanced recovery injection well in the Duck Creek Field, Uintah County, Utah. A Statement of Basis is enclosed which discusses the development of the Draft Area Permit in significant detail.

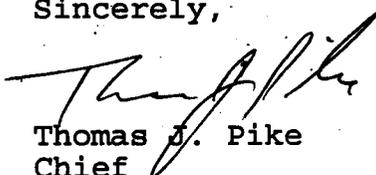
A Public Notice, a copy of which is enclosed, is to be published in the Vernal Express and the UINTAH Basin Standard in the near future. This notice advises the general public of their opportunity to comment. An individual notice has also been sent to the Northern Ute Indian Tribe (surface landowners in the area) who may be affected by the proposed action.

The public comment period on the proposed permit action will run for thirty (30) days from the date of publication. You may call Ms. Daniela Thigpen at (303) 293-1421 to obtain the exact deadline for public comments. Please note that this time period is also your opportunity to carefully inspect these documents and to comment on those you may disagree with, and/or to be sure that you are aware of and agree with all of the permit conditions stated therein.



Please direct your comments and any related correspondence to the attention of Gustav Stolz at Mail Code 8WM-DW. You may direct any questions to him by telephone at (303) 293-1416.

Sincerely,



Thomas J. Pike
Chief
UIC Implementation Section

Enclosures: Public Notice
Statement of Basis
Draft Permit

cc:

Mr. Gilbert Hunt
UIC Program Manager
State of Utah Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
Three Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Mr. Luke Duncan, Chairman
Uintah & Ouray Business Committee
Northern Ute Tribe
P.O. Box 190
Ft. Duchesne, Utah 84026

Attn: Ronald McCook
Ute Indian Tribe
Uintah & Ouray Agency
Ft. Duchesne, Utah 84026

U. S. Fish & Wildlife Service
Administrative Building 2060
1745 West 1700 South
Salt Lake City, Utah 84104

Mr. Jerry Kenczka
Vernal District Office
Bureau of Land Management
170 South 300 East
Vernal, Utah 84078

Mr. Norman Cambridge
Uinta and Ouray Agency
Bureau of Indian Affairs
Fort Duchesne, UT 84026

Mr. Ferron Secakuku
Executive Director
Energy and Minerals
Resource Department
P.O. Box 70
Ft. Duchesne, Utah 84026



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

PUBLIC NOTICE OF INTENT TO ISSUE

AN UNDERGROUND INJECTION CONTROL (UIC) CLASS IIR PERMIT

FOR THE NATURAL DUCK #5-16GR, UIC PERMIT NUMBER UTO2757-04237
DUCK CREEK FIELD, Uintah County, UTAH

TO BERRY VENTURES, INC.

PURPOSE OF PUBLIC NOTICE

The purpose of this notice is to solicit public comment on the proposal by the Region VIII Office of the U.S. Environmental Protection Agency (EPA) to issue a UIC Permit to inject enhanced recovery fluids underground via a Class II enhanced recovery well, the Natural Duck #5-16GR, located SW/4 SE/4, Section 16, T9S R20E, in the Duck Creek Field, Uintah County, Utah.

BACKGROUND

The U. S. Environmental Protection Agency (EPA) Region VIII is currently reviewing an application for a UIC Permit from Berry Ventures, Inc., 1580 Lincoln Street, Suite 880, Denver, Colorado 80203. The proposed permit will provide for the enhanced recovery injection of approximately 18,600 mg/l total dissolved solids Green River Formation produced and make-up water into portions of the oil productive Green River "M-4" Formation at the subsurface depths of 4,839-4,917 feet.

Berry Ventures, Inc. has submitted all of the required information and data necessary for the issuance of the proposed UIC Permit. EPA has made a preliminary determination to approve the applications and that, by doing so, all underground sources of drinking water (USDWs) will be protected. Therefore, EPA is hereby serving notice of intent to issue the UIC Permit for the proposed enhanced recovery underground injection activities. This action is being taken as provided by Part C of the Safe Drinking Water Act and attendant regulations.



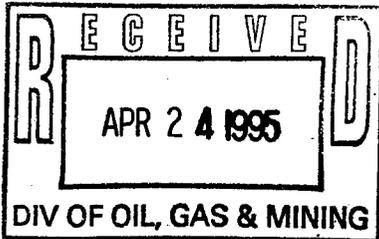
Printed on Recycled Paper



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466



STATEMENT OF BASIS

BERRY VENTURES, INC.

Natural Duck #5-16GR

UIC Permit Number: UT2757-04237

SPECIFIC WELL INFORMATION:

Natural Duck #5-16 GR
UT2757-04237
SW SE Section 16, T9S R20E
Duck Creek Field
Uintah County, Utah

CONTACT:

U.S. Environmental Protection Agency
Region VIII, 8WM-DW
UIC Implementation Section
999 18th Street, Suite 500
Denver, Colorado 80202-2466
Attention: Gustav Stolz, Jr.
UIC Petroleum Engineer
Telephone: (303) 293-1416

DESCRIPTION OF FACILITY AND BACKGROUND INFORMATION

On January 9, 1995, **Berry Ventures, Inc.**, Denver, Colorado, made application with the Environmental Protection Agency (EPA) for an underground injection control (UIC) permit. The UIC permit application is for the **enhanced-recovery injection of Green River Formation combined M-4 produced water and H6A and H13A make-up water from the Duck Creek #14-16 GR water supply well.** The proposed injected waters composition are, respectively, 18,600 and 36,664 mg/l total dissolved solids (TDS) as analyzed and calculated from SP Log resistivity data. Similar calculations indicate insitu waters with salinities of 19,000-59,000 mg/l TDS. Some of these waters will be injected into the to-be-converted, existing **Natural Duck #5-16 GR** oil production well located at 539 feet FSL and 2,000 feet FEL (SW/4 SE/4), Section 16, Township 9 South Range 20 East in Uintah County, Utah.

Injection will be into the existing perforations at 4,839-4,917' KB interval in the Green River "M-4" Sand Formation in the **N. Duck #5-16 GR** to-be-converted oil production well. The proposed average injection pressure is approximately 950 psig; a calculated



maximum injection pressure is 1790 psig. The proposed average injection rate is an average 400 BHPD (barrels of water per day), with a proposed maximum of 1000 BHPD of combined Green River "M-4" Sand (18,600 mg/l) produced water and the Green River H6A and H13A Sand (36,600 mg/l) make-up water from the Duck Creek #14-16 water supply well. The permittee will be required to determine the existing formation pore pressure of the injection zone as part of the injection well completion program. Results of these tests will be submitted to EPA prior to authorization to inject into the Green River "M-4" Formation. The operator used electric log data to make water quality calculations for each of the permeable formation intervals above the injection zones to the surface casing shoe. No underground sources of drinking water (USDWs) exist above or below the proposed injection zones at this location, as indicated by the SP Log calculations discussed above.

Berry Ventures, Inc. has submitted all required information and data necessary for the issuance of an injection permit in accordance with 40 Code of Federal Regulations (CFR) Parts (§§)144, 146, and 147, and an appropriate draft permit has been prepared.

Based on data submitted by Berry Ventures, Inc., none of the shallower formations (to the surface) are considered USDW aquifers under the Environmental Protection Agency (EPA) requirements. The total dissolved solids (TDS) content of each of these ground waters is greater than 10,000 milligrams per liter (mg/l) and cannot be expected to supply a public water system.

The Natural Duck #5-16 GR proposed injection facility is located in the Duck Creek Field at SW/4 of SE/4 of Section 16, T9S R20E.

The permit will be issued for the operating life of the enhanced recovery injection operation in the Duck Creek Field area; therefore, no reapplication will be necessary unless the permit is terminated for reasonable cause (40 CFR §§144.39, 144.40). However, this permit will be reviewed every five 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 and Ouray Indian Reservation under the UIC program provisions of the Safe Drinking Water Act. The general permit conditions for which the content is mandatory and not subject to site specific differences (based on 40 CFR §§144, 146, and 147), are not included in the following discussion.

Part II.
Section A - WELL CONSTRUCTION

Casing & Cementing.

(Condition 1)

The casing and cementing construction details include the schematic of the proposed injection well (Appendix A) which was submitted by the applicant with the permit application. These details are incorporated into the permit, and shall be binding on the permittee.

Initial construction of the well included 9 5/8-inch, 36-pound/foot K-55 surface casing set in 13-inch hole at 210 feet Kelly Bushing (KB) with 200 sacks of Class G cement circulated to surface. The 5 1/2-inch, 15.5-pound/foot NKK long string casing was set in 8 3/4-inch hole at 5,095 feet with 960 sacks of 50-50 Pozmix Class "G" cement; plugged-back TD is 5,050 feet. The top of cement (TOC) was indicated to be at 1,530 feet, as determined from Cement Bond Logs. The Green River "M-4" oil productive intervals at 4,839-43 and 4,913-17 feet are to be converted to enhanced recovery injection service in the N. Duck #5-16 GR injection well. All cement used in the prior construction of the well was designed for the life expectancy of the existing oil production well.

The proposed Conversion Rework Procedure of the existing production well is minimal and is depicted in the UIC Permit Appendix A schematic. The combined Green River "M-4" Formation injection intervals are adequately isolated and may, as proposed, be stimulated for injection service.

Tubing & Packer Specifications.

(Condition 2)

Construction for injection service includes the use of a new tension packer to be set at approximately 4,775' KB on 2 7/8-inch 6.5 pound/foot J-55 injection tubing (as shown in Appendix A) inside the 5 1/2" long string casing. The tubing/casing annulus will be filled with corrosion-inhibited fluid. Injection between the outermost casing protecting the USDWs and the wellbore is prohibited. The plan is prudent for injection into the existing Green River "M-4" Formation perforations, is incorporated into the permit, and shall be binding on the permittee.

Formation Logging and Testing.

(Condition 3)

The tubing/casing annulus will be mechanical integrity tested prior to commencing injection. The Green River "M-4" Formation pore pressure must be determined, and an uncontaminated (swab) sample of the injection formation water must be obtained for analyses before authorization to inject will be granted. The permittee has submitted fracture ISIP data from which a sand-face fracture gradient of 0.811 psi/ft for the Green River "M-4" Formation was calculated; this is reasonable and translates into a

maximum injection pressure (Pmax) of 1,790 psig at the surface. The operator will conduct and submit reports on subsequent **Step Rate Tests within six (6) months of authorization to inject** to confirm the injection zone fracture pressure and/or request increased injection pressure authorization. No additional formation logging or testing will be required prior to authorization to inject.

Monitoring Devices.

(Condition 4)

In order to allow a representative of EPA to inspect the well and take injection pressure measurements, the Agency is requiring the operator to install at the time of well conversion and maintain in **good operating condition** all monitoring equipment. Included are: a) An injection fluid **sampling tap** on the discharge line between the injection pump and the wellhead; b) appropriate fittings, isolated by plug or globe valves, for the attachment of either permanent one-half (1/2) inch MIP gauges, or equivalent "quick-disconnect" gauges on the injection tubing for injection pressure measurement and on the tubing/casing annulus for indicating potential mechanical integrity problems; and c) a **non-resettable flow meter** for injection rate and cumulative volume measurements.

Section B - CORRECTIVE ACTION

There are ten additional wells within the one-half-mile-radius Area Of Review (AOR) of the proposed **Natural Duck #5-16 GR** injection well which have penetrated the proposed injection intervals. Each of these ten wells have 5 1/2-inch long string casing properly cemented through the Green River "M-4" proposed injection zone. Four active oil production wells (N. Duck #16-16 GR, N. Duck #11-16 GR, N. Duck #10-21 GR, and N. Duck #4-21 GR) are currently producing oil from the "M-4" injection zone; four currently temporary abandoned (TA) oil production wells (N. Duck #3-16 GR, N. Duck #6-16 GR, N. Duck #15-16 GR, and N. Duck #11-21 GR) are currently TA in the "M-4" injection zone; one well, the N. Duck #2-15 GR, is a Class IIR injection well; and one well, the Duck Creek #14-16 GR, is currently PA'd in the "M-4" injection zone and has been re-completed as the proposed "make-up" injection water (TDS = 39,600 mg/l) supply well in the H6A and H13A Green River Formation/Sands. Further, Cement Bond Logs had been run on all ten of the Area of Review wells; these logs indicate excellent bonding through the "M-4" proposed injection zone, thus no USDWs will be endangered.

Therefore, the permittee will **not be required to take corrective action** on any of the ten existing wells within the one-half-mile-radius AOR.

Section C - WELL OPERATION

Prior to Commencing Injection.

(Condition 1)

As-built and rework construction details have been submitted and verify adequate well construction (included in Appendix A) for the protection of underground sources of drinking water (USDW) prior to injection service.

Mechanical Integrity.

(Condition 2)

The Natural Duck #5-16 GR injection well must pass a witnessed tubing/casing annulus mechanical integrity test conducted at a pressure of at least 300 psig, for the purpose of demonstrating integrity of the casing, tubing, and packer prior to commencing injection.

Demonstrations of mechanical integrity of the injection casing, tubing and packer will also be conducted within 30 days after any workovers/alterations (any unseating of packer) and prior to recommencing injection.

Injection Intervals.

(Condition 3)

Enhanced recovery injection will be limited to the "M-4" GR Sand Formation in the existing perforated and sand-fractured 78-foot interval of 4,839-4,917' KB. This perforated, fracture-treated "M-4" GR interval is considered as the enhanced recovery injection zone. The upper confining zones are a 40-foot thick, impermeable, dense Green River Shale approximate interval at 4,790-4,830'. The lower confining zone is comprised of a greater-than 70-foot sequence of impermeable, vari-colored bentonitic shales interbedded with one four-foot thin, dirty sand stringer which lie immediately below the 78-foot "M-4" GR Sand Formation. The proposed injection interval of the "M-4" Sand Formation is, therefore, adequately isolated (both above and below) from any other permeable intervals, none of which are USDWs.

Injection Pressure Limitation.

(Condition 4)

The applicant requested a maximum surface injection pressure of 2,250 psig. A permitted surface injection pressure of 1,790 psig corresponds to the calculated formation fracture pressure gradient of approximately 0.812 psi/ft; this is considered a reasonable value for the Green River Sand Formation intervals. The permittee will determine the formation fracture pressure with a Step-Rate Test to be performed within six (6) months of authorization to inject. A surface injection pressure greater than the permitted 1,790 psig will be permitted only after further demonstration that such injection pressure will not exceed the "M-4" GR Sand Formation injection zone fracture pressure. The permitted 1,790 psig maximum allowable injection pressure is

considered adequate to protect all USDWs.

Calculate: Sand-face fracture pressure during oil/sand-frac treatment:

$$\begin{aligned} \text{Psf} &= \text{ISIP} + \text{Phd} = 2250 + (d)(.433)(\text{Sgo}) \\ &= 2250 + (4839)(.433)(0.8) = 2250 + 1676 \\ \text{Psf} &= 3926 \text{ psig} \end{aligned}$$

Calculate: Pmax (surface) using injection fluid, Sgw = 1.018.

$$\begin{aligned} \text{Pmax} &= \text{Psf} - \text{Phd} = 3926 - (d)(.433)(\text{Sgw}) \\ &= 3926 - (4839)(.433)(1.018) = 3926 - 2133 \\ \text{Pmax} &= 1793 \text{ psig} \end{aligned}$$

Calculate: Sand Face Fracture Gradient using Pmax = 1793 psig

$$\begin{aligned} \text{Frac. Grad.} &= (\text{Pmax} + [.433 \times 1.018 \times 4839])/d = \\ \text{Frac. Grad.} &= (1739 + 2133) + 4839 = \\ \text{Frac. Grad.} &= 0.800 \text{ psi/ft.} \end{aligned}$$

Where: Pmax = maximum injection pressure at wellhead, psig
Sgw = 1.018, specific gravity of injected water
d = injection depth, feet
0.433 = fresh water pressure gradient, psi/ft
ISIP = 2250 psig (oil fracture treatment, Sgo = 0.80)

Injection Volume (Rate) Limitation. (Condition 5)

The permit requires no limitation of the volume rate nor total cumulative volume of fluid injection into the "M-4" GR Sand Formation in this well because the injection zone is being injected for the purpose of enhanced recovery of oil and it is not a USDW.

Section D - MONITORING, RECORDKEEPING & REPORTING OF RESULTS

Injection Well Monitoring Program. (Condition 1[a])

The permittee is required to analyze and report the water quality of injected fluids at annual intervals. The periodic water samples of injected fluids shall be analyzed for Total Dissolved Solids (TDS), major ions, pH, Specific Conductivity, and Specific Gravity, as will those when the source of injection fluid changes.

Section E - PLUGGING AND ABANDONMENT

Plugging & Abandonment Plan.

(Condition 2)

The **Plugging and Abandonment Plan** submitted with the Permit Application for the proposed injection well has been reviewed and is considered to adequately protect the USDWs. This Plan is incorporated into the Permit and shall be binding on the permittee.

The **Plugging and Abandonment Plan** using a "50-50 Pozmix A" Class G cement for each of the five P&A plugs is as follows:

1. **PLUG #1** - A 17-foot (4,808-25') 2-sack Plug #1 will be set above a cast iron bridge plug (CIBP) which will be set at a depth of 4,825'; the CIBP will be set inside the 5 1/2" casing above the top perforation (4,839' KB).
2. **Plug #2** - A 94 foot (2,750-2,844'), 10-sack Plug #2 will be set inside the 5 1/2" long string casing.
3. **Plug #3** - A 94 foot (750-844'), 10-sack Plug #3 will be set inside the 5 1/2" long string casing.
4. **Plug #4** - A 94 foot (150-244'), 10-sack Plug #4 will be set across the surface casing shoe (at 190') inside the 5 1/2" long string casing.
5. **Plug #5** - A 94-foot (0-94'), 32-sack Plug #5 will be set inside the 5 1/2" long string casing and in the surface casing/long string casing annulus.
6. A "dry-hole" marker will be cemented inside the 5 1/2" long string casing at the surface.

Section F - FINANCIAL RESPONSIBILITY

Demonstration of Financial Responsibility. The permittee is required to maintain financial responsibility and resources to close, plug and abandon the injection well as provided in the plugging and abandonment plan.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

**UNDERGROUND INJECTION CONTROL (UIC)
DRAFT PERMIT**

Class IIR ENHANCED RECOVERY WELL

Natural Duck #5-16GR

Permit No. UT2757-04237

Green River Unit, Duck Creek Field

County & State: Uintah County, Utah

Issued To

BERRY VENTURES, INC.

1580 Lincoln Street, Suite 880

Denver, Colorado 80203



Printed on Recycled Paper

TABLE OF CONTENTS

TITLE PAGE	1
TABLE OF CONTENTS	2
PART I. AUTHORIZATION TO CONSTRUCT AND INJECT	4
PART II. SPECIFIC PERMIT CONDITIONS	6
A. WELL CONSTRUCTION/CONVERSION	6
1. <u>Casing and Cementing</u>	6
2. <u>Tubing and Packer Specifications</u>	6
3. <u>Formation Logging and Testing</u>	6
4. <u>Monitoring Devices</u>	7
5. <u>Proposed Changes and Workovers</u>	7
6. <u>Postponement of Conversion</u>	7
B. CORRECTIVE ACTION	8
C. WELL OPERATION	8
1. <u>Prior to Commencing Injection</u>	8
2. <u>Mechanical Integrity</u>	8
3. <u>Injection Intervals</u>	9
4. <u>Injection Pressure Limitation</u>	10
5. <u>Injection Volume (Rate) Limitation</u>	10
6. <u>Injection Fluid Limitation</u>	10
7. <u>Annular Fluid</u>	11
D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS	11
1. <u>Injection Well Monitoring Program</u>	11
2. <u>Monitoring Information</u>	11
3. <u>Recordkeeping</u>	12
4. <u>Reporting of Results</u>	12
E. PLUGGING AND ABANDONMENT	12
1. <u>Notice of Plugging and Abandonment</u>	12
2. <u>Plugging and Abandonment Plan</u>	13
3. <u>Cessation of Injection Activities</u>	13
4. <u>Plugging and Abandonment Report</u>	13
F. FINANCIAL RESPONSIBILITY	13
1. <u>Demonstration of Financial Responsibility.</u>	13
2. <u>Insolvency of Financial Institution</u>	14

PART III. GENERAL PERMIT CONDITIONS	15
A. EFFECT OF PERMIT	15
B. PERMIT ACTIONS	15
1. <u>Modification, Reissuance, or Termination</u>	15
2. <u>Conversions</u>	15
3. <u>Transfers</u>	16
C. SEVERABILITY	16
D. CONFIDENTIALITY	16
E. GENERAL DUTIES AND REQUIREMENTS	16
1. <u>Duty to Comply</u>	16
2. <u>Penalties for Violations of Permit Conditions</u>	17
3. <u>Need to Halt or Reduce Activity not a Defense</u>	17
4. <u>Duty to Mitigate</u>	17
5. <u>Proper Operation and Maintenance</u>	17
6. <u>Duty to Provide Information</u>	17
7. <u>Inspection and Entry</u>	17
8. <u>Records of the Permit Application</u>	18
9. <u>Signatory Requirements</u>	18
10. <u>Reporting of Noncompliance</u>	18
APPENDIX A - CONSTRUCTION PROCEDURES	20
APPENDIX B - REPORTING FORMS AND INSTRUCTIONS	22
EPA Form 7520- 7: APPLICATION TO TRANSFER PERMIT	23
EPA Form 7520-10: WELL COMPLETION REPORT	24
EPA Form 7520-11: ANNUAL WELL MONITORING REPORT	25
EPA Form 7520-12: WELL REWORK RECORD	26
EPA Form 7520-13: PLUGGING RECORD	27
EPA Form 3560-1A: MECHANICAL INTEGRITY PRESSURE TEST	28
APPENDIX C - PLUGGING & ABANDONMENT PLAN	29

PART I. AUTHORIZATION TO CONSTRUCT AND INJECT

Pursuant to the Underground Injection Control Regulations of the U.S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR), Parts (§§)124, 144, 146, and 147,

Berry Ventures, Inc.
1580 Lincoln Street, Suite 880
Denver, Colorado 80203

is hereby authorized to convert the existing oil production well to a Class IIR enhanced recovery well, commonly known as **Natural Duck #5-16GR**, located 539 feet from the South line and 2000 feet from the East line (SW/4 SE/4) of Section 16, Township 9 South, Range 20 East in the Duck Creek Green River Unit, Uintah County, Utah. Injection shall be for the purpose of enhanced oil recovery from the Green River Formation M-4 zone. Proposed injection fluid is Green River Formation water (from zones H6A and H13A) obtained from the #14-16 GR water supply well, located in SE/4 SE/4 16-9S-20E, in accordance with conditions set forth herein. If not converted within one (1) year from the effective date of this permit, the proposed injection well shall be plugged and abandoned according to Permit Condition II.A.6.

This Class II enhanced recovery injection well is authorized to inject into the proposed injection well to obtain enhanced recovery of oil from the one-half mile Area of Review in the proposed **Duck Creek Green River Unit in Uintah County, Utah**, in accordance with conditions set forth herein.

Injection activities for this proposed injection well 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 CFR §§124, 144, 146, and 147, which are in effect on the date that this permit becomes effective.

This permit consists of a total of thirty-two (32) 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. **It is the responsibility of the permittee to read and understand all provisions of this permit.**

This permit and the authorization to inject are being issued for the operating life of the well(s), unless terminated (Part III,

Section B.). Authorization to inject shall automatically expire due to prolonged postponement of construction [Part II, Section A.6.], in which case the well to have been converted shall be properly plugged and abandoned (P&A). 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 Ute Tribe, Uintah Ouray Indian Reservation and/or the the State of Utah, unless the Ute Tribe and/or the the State of Utah has both adequate authority, and choose, to adopt and enforce this Permit as a Tribal and/or State Permit.

Issued this _____ day of _____, 1995.

This permit shall become effective _____.

DRAFT

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 CONSTRUCTION/CONVERSION REQUIREMENTS

1. Casing and Cementing. The proposed conversion details submitted with the Permit Application and the well schematic of **Natural Duck #5-16GR**, a Berry Ventures, Inc. existing oil production well, are hereby incorporated into this permit as Appendix A, and shall be binding on the permittee.

(a) The 9 5/8-inch, 36-pound per foot K-55 surface casing was cemented to surface in 13-inch hole from 210' Kelly Bushing (KB) with 200 sacks of Class "G" cement.

(b) The 5 1/2-inch, 15.5-pound per foot J-55 production (long string) casing was cemented in 8 3/4-inch hole from a depth of 5,095' KB to the top of cement (TOC) at approximately 1,580' KB as indicated by the Cement Bond Log; Total Depth (TD) was 5,095' and Plugged Back Total Depth (PBD) was 5,050'. A total of 820 sacks of 50/50 Pozmix A cement was used to cement the long string; all cement in the prior construction of the well was designed for the life expectancy of the well. The existing oil production well is proposed to be converted to injection service with appropriate minor changes in the existing construction; the specific injection interval and construction modifications will be identified on the **Well Rework Record (EPA Form 7520-12)**.

The proposed Conversion Rework Procedure of the existing oil production well is included in Appendix A. The existing Green River Sand Formation production perforations are located at 4,839-43' and 4,913-17' KB. The 4,839-43' upper perforations will initially be used for enhanced oil recovery injection service; the 4,913-17' lower perforations are isolated with a bridge plug set at a depth of 4,875', but may also be utilized for enhanced recovery injection.

2. Tubing and Packer Specifications. The existing two and seven-eighths (2 7/8)-inch diameter injection tubing will be utilized with an appropriate tension packer set in the **Natural Duck #5-16GR** at the proposed depth of approximately 4,775' KB inside the 5 1/2-inch long string casing. **The packer must be set at a depth no greater than 100 feet above the top (4,839') injection perforation.** The casing/tubing annulus will be filled with corrosion-inhibited fluid. Injection between the outermost casing protecting the underground sources of drinking water (USDWs) and the wellbore is prohibited.

3. Formation Logging and Testing. Prior to commencing injection, the **M-4 Sand Member (injection zone) of the Green River Sand Formation pore pressure will be determined** and the tubing/

casing annulus will be tested for mechanical integrity at a pressure of at least 300 psig. All recompletion procedures will be reported on the Well Rework Record (Form 7520-12 in Appendix B). Additional formation logging/testing required within six (6) months after authorization to inject includes a valid Step Rate Test (or equivalent) to determine the Green River M-4 Sand injection formation fracture pressure.

4. Monitoring Devices. The operator shall provide at the time of well conversion and maintain in good operating condition:

(a) A tap on the discharge line between the injection pump and the wellhead for the purpose of obtaining representative samples of the injection fluids;

(b) Two, one-half (1/2) inch Female Iron Pipe (FIP) fittings, isolated by plug or globe valves, and positioned to provide for either (1) the permanent attachment of one-half (1/2) inch Male Iron Pipe (MIP) gauges, or (2) the attachment of equivalent "quick-disconnect" gauges at the wellhead on the injection tubing and on the tubing/casing annulus. The gauges used shall be of a design to provide (1) a full pressure range of 100 percent greater than the anticipated operating pressure, and (2) a certified deviation accuracy of five (5) percent or less; and

(c) A non-resettable flow meter with measured cumulative volumes that are certified for a deviation accuracy of five (5) percent or less throughout the range of injection rates allowed by the permit.

5. 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 injection well. In addition, the permittee shall provide all records of well workovers, logging, or other subsequent test data, including required mechanical integrity testing, to EPA within sixty (60) days of completion of the activity. Appendix B contains samples of the appropriate reporting forms.

Demonstration of mechanical integrity shall be performed within thirty (30) days of completion of any subsequent workovers or alterations (unseating of the packer) and prior to resuming injection activities, in accordance with Part II, Section C.2.(a).

6. Postponement of Conversion. If the well is not completed, for injection service, within one (1) year from the effective date of this permit, the well will be plugged and abandoned in accordance with the Plugging and Abandonment Plan (Appendix C), unless the permittee requests an extension. The written request shall be made to the Director, and shall state the reasons for the delay in conversion/construction. The extension under this section may not exceed one (1) year.

B. CORRECTIVE ACTION

There are a total of eleven (11) existing wells drilled into the Green River M-4 Sand Formation within the one-half mile radius Area of Review (AOR) of the Natural Duck (ND) #5-16GR proposed injection well. Four of the AOR wells are active oil production wells (AC): (a) ND #16-16GR, (b) ND #11-16GR, (c) ND #10-21, and (d) ND #4-21. Four are temporary abandoned oil production wells (TA): (a) ND #3-16GR, (b) ND #6-16GR, (c) ND #15-16GR, and (d) ND #11-21. Two are water injection wells (WIW): (a) ND #2-15GR (recently permitted) and (b) ND #5-16GR (proposed injection well). The eleventh AOR well is the enhanced recovery project water supply well (WSW): ND #5-16GR, a Plugged and Abandoned (PA) oil well. The existing construction of these eleven AOR wells has been reviewed and found satisfactory. No USDW will be endangered through these AOR wells, and **no corrective action is required.**

C. WELL OPERATION

1. Prior to Commencing Injection. Injection operations may not commence until the permittee has complied as follows:

(a) All conversion construction is complete, the injection formation pore pressure has been determined, the well has successfully passed a mechanical integrity test, and the permittee has submitted a completed Well Rework Record, (Form 7520-12 in Appendix B); and

(b) (i) The Director has inspected or otherwise reviewed the newly converted injection well and notified the operator that 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 the Director has received the Well Rework Record [paragraph (a) above] of this permit condition, in which case, prior inspection or review is waived and the permittee may commence injection.

2. Mechanical Integrity.

(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 45 minutes at: 1) a pressure of 300 psig measured at the surface, if the well is shut-in, or 2) a pressure differential of 200 psig between the tubing pressure and the tubing/casing annulus pressure,

if injection activities are continued during the test. The tubing/casing annulus shall be filled with a non-corrosive fluid (either a non-toxic liquid or the injection liquid) at least 24 hours in advance of the test. Pressure values shall be recorded at five-minute intervals or less. A well passes the mechanical integrity test if there is less than a ten (10) percent change (increase or decrease) in pressure over the 45 minute period.

(b) Schedule for Demonstrations 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 demonstrations. The permittee shall notify the Director of his intent to demonstrate mechanical integrity at least thirty (30) days prior to each 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 operation 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. Water supply well (WSW) water and produced Green River M-4 Sand, 18,400 mg/l TDS water comprise the injection fluid for enhanced recovery. These fluids shall be permitted for injection into the M-4 productive portion of the Green River Sand Formation in the subsurface intervals of approximately 4,839-43' and 4,913-17' KB. Injection perforations may be added or squeezed-off so long as they are within the entire M-4 portion of the Green River Sand Formation interval. Any reworking of the well must be properly reported (EPA Form 7520-12), the well must be mechanically integrity tested, and swab test uncontaminated samples of any newly perforated Green River M-4 Sand intervals must be taken and analyzed.

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 injection test or other authorized well test(s) that will serve to determine the fracture pressure of the injection zone. 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 1790 pounds per square inch (psig). This value was calculated using Instantaneous Shut-In Pressure (ISIP) data from an M-4 Sand oil-fracture treatment on the previously-permitted ND #2-15GR injection well.

5. Injection Volume (Rate) Limitation. There will be no limitation of the volume rate nor an injection volume limitation of fluid injection into the Green River M-4 Sand Formation in this well because the enhanced recovery injection zone is not a USDW. 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 shall not inject any hazardous substances, as defined by 40 CFR §261, at any time during the operation of the facility. The operator proposes to inject a combination of the produced Green River Formation brine fluids (approximately 18,400 mg/l TDS) produced in conjunction with oil in the Duck Creek Field and the ND #14-16GR water supply well (39,664 mg/l TDS) make-up water. Additional injected fluid shall be limited to occasional minor amounts of well treatment fluids, such as dilute and spent acids, corrosion inhibiting fluids, etc., as related to oil and/or gas production from the Green River Sand Formation in the Duck Creek Field area. Any additional fluid additives contained in the produced fluids shall also be identified and reported along with the routine annual report information in D.1.(a)(i) below. The source and composition of any fluids other than those explicitly allowed by this permit must be reported to the Director within thirty (30) days of any change in injection fluids.

7. Annular Fluid. The annulus between the tubing and the casing shall be filled with a **corrosion inhibiting, oxygen scavenging solution**; any industry-acceptable solution is approved 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 I of 40 CFR §136.3, or in Appendix III of 40 CFR §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, major ions, pH, Specific Conductivity, and Specific Gravity; and,

(ii) whenever there is a **change in the source of injection fluids**.

(b) **Monthly observations of injection pressure, tubing/casing annulus pressure, fluid injection (flow) rate and cumulative injected volume**. At least one observation of injection pressure, tubing/casing annulus pressure, fluid injection (flow) rate, and cumulative volume, shall be **recorded at regular intervals no greater than thirty (30) days**.

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;

(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 monthly recorded information [Part II., Section D.1.(b)] available for inspection at the lease facility.

4. Reporting of Results. The permittee shall submit an **Annual Report, whether injecting or not**, to the Director summarizing the results of the monitoring required by Part II, Section D. 1. 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. Annual Reports shall cover the period of 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 Report.

E. PLUGGING AND ABANDONMENT

1. Notice of Plugging and Abandonment. The permittee shall notify the Director forty-five (45) days before 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. 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 request the permittee to estimate and 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 (temporary abandonment), the permittee shall plug and abandon the well in accordance with the Plugging & Abandonment Plan, unless he:

(a) has provided written 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 specifying the different procedures followed.

F. FINANCIAL RESPONSIBILITY

1. Demonstration of Financial Responsibility. The permittee is required to maintain financial responsibility and resources to close, plug and abandon the injection well as provided in the plugging and abandonment plan.

(a) The permittee has submitted an acceptable \$7,200 Irrevocable Standby Letter of Credit #3328, F & M Bank and Trust Company, Tulsa, Oklahoma, together with a companion Standby Trust Agreement, F & M Bank and Trust Company, Trustee, which demonstrate permittee financial responsibility for plugging and abandonment requirements.

(b) The permittee may, upon his own initiative and upon written request to EPA, change the method of demonstrating financial responsibility from Surety Performance Bond/Standby Trust Agreement coverage to another acceptable financial assurance demonstration. Any such change must be approved by the Director. A minor permit modification will be made to reflect the change in financial assurance demonstration without any further opportunity for public comment.

2. Insolvency of Financial Institution. In the event that an alternate demonstration of financial responsibility has been approved under (b) above, the permittee must submit a subsequent 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 alternate financial responsibility demonstration or trust agreement 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 §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 laws 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 request from the permittee, modify, revoke and reissue, or terminate this permit in accordance with 40 CFR §§124.5, 144.12, 144.39, and 144.40. Also, the permit is subject to minor modifications for cause as specified in 40 CFR §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.

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 §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 §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 non-compliance 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 this 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 purposes of assuring permit compliance or as otherwise authorized by the SDWA any substances or parameters at any location.

8. Records of the 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) 293-1413 (during normal business hours) or at 1-800-227-8917 (for reporting from within the Region VIII area 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 facts or information within two (2) weeks of the time such information became known to him.

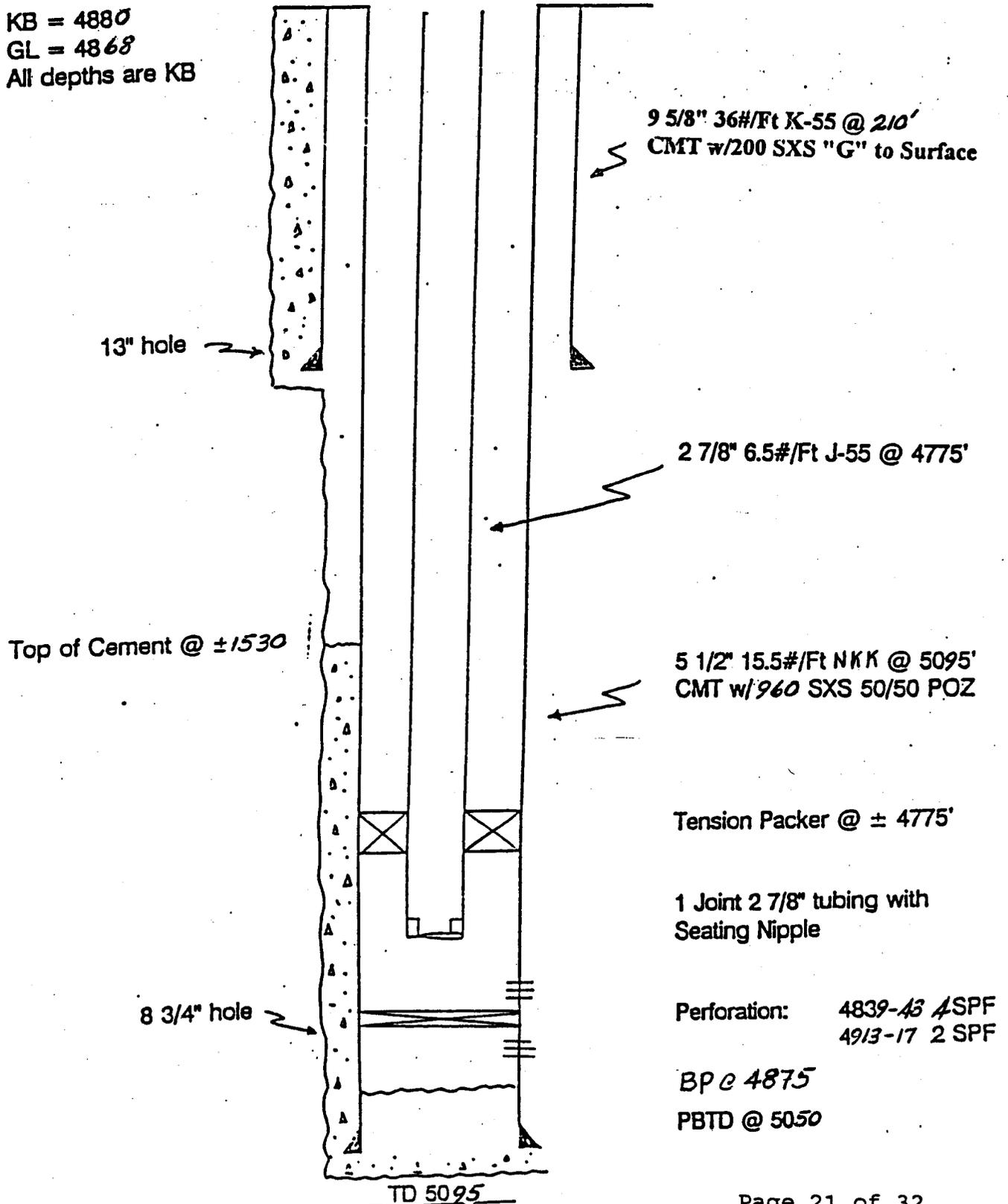
APPENDIX A - CONSTRUCTION PROCEDURES

Existing/Converted Construction Schematic

ATTACHMENT "M"

WELLBORE DIAGRAM
NATURAL DUCK #5-16GR
539 FSL & 2000' FEL
SW SE 16-T9S-R20E
UINTAH COUNTY, UTAH

KB = 4880
GL = 4868
All depths are KB



Perforation: 4839-43 4 SPF
4913-17 2 SPF

BPC 4875
PBTD @ 5050

APPENDIX B - REPORTING FORMS AND INSTRUCTIONS

1. EPA Form 7520- 7: APPLICATION TO TRANSFER PERMIT
2. EPA Form 7520-10: WELL COMPLETION REPORT
3. EPA Form 7520-11: ANNUAL WELL MONITORING REPORT
4. EPA Form 7520-12: WELL REWORK RECORD
5. EPA Form 7520-13: PLUGGING RECORD
6. EPA Form 3560-1A: MECHANICAL INTEGRITY PRESSURE TEST

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

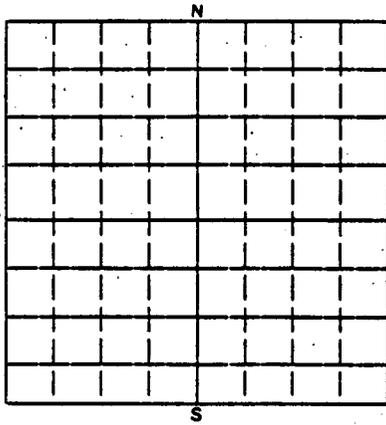


APPLICATION TO TRANSFER PERMIT

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
- Class II
 - Brine Disposal
 - Enhanced Recovery
 - Hydrocarbon Storage
- Class III
- Other

- Operating
- Modification/Conversion
- Proposed

- Individual
- Area
- Number of Wells _____

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

UIC Permit No.

Page 29 of 32
UT2757-04237

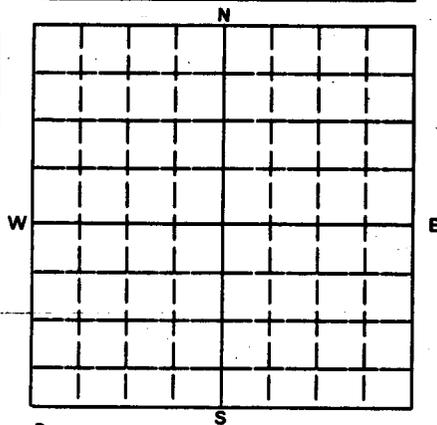


**COMPLETION REPORT FOR BRINE DISPOSAL,
HYDROCARBON STORAGE, OR ENHANCED RECOVERY WELL**

NAME AND ADDRESS OF EXISTING PERMITTEE

NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON
SECTION PLAT — 840 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
<input type="checkbox"/> Brine Disposal	<input type="checkbox"/> Individual	Estimated Fracture Pressure of Injection Zone
<input type="checkbox"/> Enhanced Recovery	<input type="checkbox"/> Area	
<input type="checkbox"/> Hydrocarbon Storage	Number of Wells ____	
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))		Lease Name	Well Number
<input type="checkbox"/> Salt Water	<input type="checkbox"/> Brackish Water	Name of Injection Zone	
<input type="checkbox"/> Liquid Hydrocarbon	<input type="checkbox"/> Fresh Water		
	<input type="checkbox"/> Other		
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 Page 24 of 32 UT2757-04237
	UIC Permit No.

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 <input type="checkbox"/> Brine Disposal <input type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage Lease Name _____		Total Depth Before Rework _____ Total Depth After Rework _____ Date Rework Commenced _____ Date Rework Completed _____	TYPE OF PERMIT <input type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells _____ Well Number _____

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
--	-----------	-------------

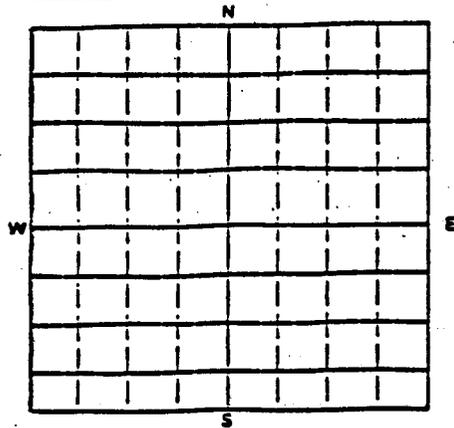


PLUGGING RECORD

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

1/4 OF _____ 1/4 OF _____ 1/4 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 _____

Describe in detail the manner in which the fluid was placed and the method used in introducing it into the hole

Lease Name _____

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 METHOD OF EMPLACEMENT OF CEMENT PLUGS
- CLASS I
 - CLASS II
 - Brine Disposal
 - Enhanced Recovery
 - Hydrocarbon Storage
 - CLASS III
- The Balance Method
 - The Dump Saker 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

Mechanical Integrity Test Casing or Annulus Pressure Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Implementation Section, 8WM-DW
999 18th Street, Suite 500, Denver, CO 80202-2466

EPA Witness: _____ Date ___/___/92 Time _____ am/pm

Test conducted by: _____

Others present: _____

Well: _____	Well ID: _____
Field: _____	Company: _____
Well Location: _____	Address: _____

Time	Test #1	Test #2	Test #3
0 min	_____ psig	_____ psig	_____ psig
5	_____	_____	_____
10	_____	_____	_____
15	_____	_____	_____
20	_____	_____	_____
25	_____	_____	_____
30 min	_____	_____	_____
35	_____	_____	_____
40	_____	_____	_____
45	_____	_____	_____
50	_____	_____	_____
55	_____	_____	_____
60 min	_____	_____	_____
Tubing press	_____ psig	_____ psig	_____ psig

Result (circle) **Pass** **Fail** **Pass** **Fail** **Pass** **Fail**

Signature of EPA Witness: _____
See back of page for any additional comments & compliance followup.

APPENDIX C - PLUGGING & ABANDONMENT PLAN

1. Plugging & Abandonment Plan, Form 7520-14
2. Plugging & Abandonment Plan, Narrative
3. Plugging & Abandonment Plan Schematic

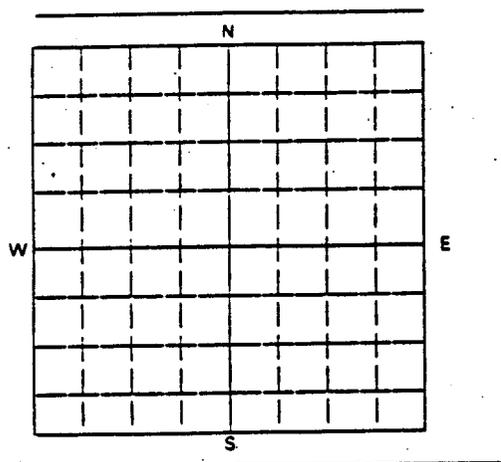


PLUGGING AND ABANDONMENT PLAN

NAME AND ADDRESS OF FACILITY
Natural Duck #5-16GR SWSE 16-T9S-R20E
Duck Creek Green River Unit
Uintah County, Utah

NAME AND ADDRESS OF OWNER/OPERATOR
Berry Ventures, Inc.
1580 Lincoln Street, Suite 880
Denver, Colorado 80203

STATE: Utah COUNTY: Uintah PERMIT NUMBER: UT2757-04237



SURFACE LOCATION DESCRIPTION
SW 1/4 OF SE 1/4 OF 1/4 SECTION 16 TOWNSHIP 9S RANGE 20E
LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF SECTION AND DRILLING UNIT
Surface Location 539 ft. from (N/S) S Line of quarter section
and 2000 ft. from (E/W) E Line of quarter section

TYPE OF AUTHORIZATION
 Individual Permit
 Area Permit
 Rul.
Number of Wells 1
Lease Name U-73323

WELL ACTIVITY
 CLASS I
 CLASS II
 Brine Disposal
 Enhanced Recovery
 Hydrocarbon Storage
 CLASS III
Well Number ND 5-16GR

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#		210	13"
5 1/2"	15.5#		5095	8 3/4"

METHOD OF EMPLACEMENT OF CEMENT PLUGS
 The Balance Method
 The Dump Bailer Method
 The Two-Plug Method
 Other Set CIBP at 4825' & spot 2 sxs cement on top of CIBP

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)	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2 & 9 5/8"		
Depth to Bottom of Tubing or Drill Pipe (ft.)	4825'	2844'	844'	244'	100'		
Sacks of Cement To Be Used (each plug)	2	10	10	10	32		
Slurry Volume To Be Pumped (cu. ft.)	2.3	12.6	12.6	12.6	12.6		
Calculated Top of Plug (ft.)	4808	2750	750	150	Surface		
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type Cement or Other Material (Class III)	G cement 50/50P07 50/50P07 50/50P07 50/50P07						

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (If any)

From	To	From	To
4839	4843		
4913	4917		

Estimated Cost to Plug Wells
\$7,200.00

JAN 10 1995

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): John B. Dunnewald, President Bishop Petroleum - Agent for Berry Ventures, Inc.
SIGNATURE: *John B. Dunnewald*
DATE SIGNED: Page 38 of 32
UIC Permit No. UT2757-04237

PLUGGING AND ABANDONMENT PLAN, NARRATIVE

The **Plugging and Abandonment Plan** submitted with the Permit Application for the proposed injection well has been reviewed and is considered to adequately protect the underground sources of drinking water (USDW). This Plan is incorporated into the Permit and shall be binding on the permittee.

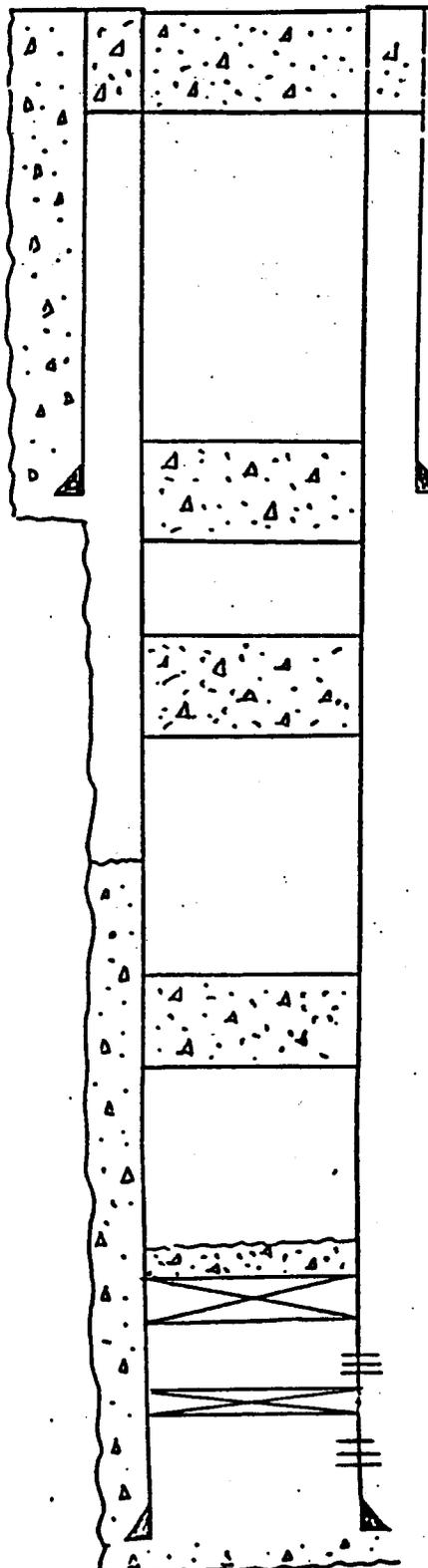
The Plugging and Abandonment Plan using a "50-50 Pozmix A" Class G cement for each of the five P&A plugs is as follows:

1. **PLUG #1** - A 17-foot (4,808-25') 2-sack Plug #1 will be set above a cast iron bridge plug (CIBP) which will be set at a depth of 4,825'; the CIBP will be set inside the 5 1/2" casing above the top perforation (4,839' KB).
2. **Plug #2** - A 94 foot (2,750-2,844'), 10-sack Plug #2 will be set inside the 5 1/2" long string casing.
3. **Plug #3** - A 94 foot (750-844'), 10-sack Plug #3 will be set inside the 5 1/2" long string casing.
4. **Plug #4** - A 94 foot (150-244'), 10-sack Plug #4 will be set across the surface casing shoe (at 190') inside the 5 1/2" long string casing.
5. **Plug #5** - A 94-foot (0-94'), 32-sack Plug #5 will be set inside the 5 1/2" long string casing and in the surface casing/long string casing annulus.
6. A "dry-hole" marker will be cemented inside the 5 1/2" long string casing at the surface.

ATTACHMENT "Q-1"

P & A DIAGRAM
NATURAL DUCK #5-16GR
SW SE 16 T9S-R20E
UINTAH COUNTY, UTAH

KB = 4880
GL = 4868
All depths are KB



32 sack 50/50 Poz Plug @ surface
@ 0' - 100'

9 5/8" 36# 1 ft K-55 @ 210'

10 sack 50/50 Poz Plug @ 150'-244'

10 sack 50/50/ Poz Plug @ 750'-844'

10 sack 50/50 Poz Plug @ 2750'-2844'

5 1/2" 15.5# 1 ft NKK @ 5095'

2 sack Cement Plug @ ± 4808
CIBP @ 4825'

Perforations: 4839-43 4 SPF
4913-17 2 SPF

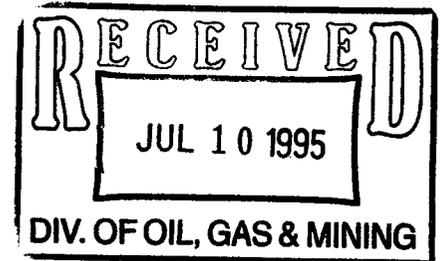
EXISTING BP @ 4875

**BISHOP
PETROLEUM
CORPORATION**

1580 LINCOLN ST.
SUITE 880
DENVER, COLORADO 80203
OFFICE (303) 863-7800

July 7, 1995

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



Re: Duck Creek Green River
Waterflood Unit
Uintah County, Utah

Mr. Jarvis:

Attached for your review and files is a UIC-1 Form requesting permission to convert the 5-16 well to injection in the Green River formation. Also attached is a copy of the EPA permit request along with all supporting documents. I believe this should provide the required information, however, if there are questions or additional data is needed, please advise.

Very truly yours,

A handwritten signature in cursive script, appearing to read "John B. Dunnewald".

John B. Dunnewald
Agent for Berry Ventures

JBD:cec

Enclosures

5474



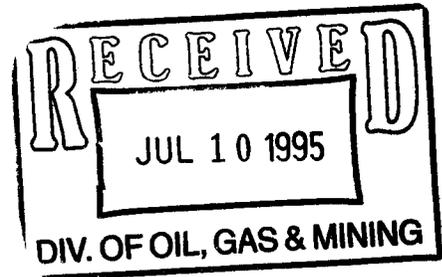
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

Ref: 8WM-DW

FEB -3 1995



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. John B. Dunnewald, Agent
Berry Ventures, Inc.
1580 Lincoln Street, Suite 880
Denver, Colorado 80203

RE: Underground Injection Control (UIC)
Permit Application UT2757-04237
Natural Duck #5-16GR
Natural Duck Field
Uintah County, Utah

Dear Mr. Dunnewald:

The permit application referenced above has been received by the Environmental Protection Agency (EPA), and has been assigned to Gustav Stolz for further evaluation. The application number noted above has been given to your facility, and should be used in all future correspondence with the EPA.

The UIC permit application has been determined to be administratively complete, and the technical review is now being conducted. If any additional information is necessary to clarify, modify or supplement previously submitted material, you will be notified.

If you have any questions, please contact Gustav Stolz at the letterhead address, citing MAIL CODE 8WM-DW very prominently, or telephone (303) 293-1416.

Sincerely,

Thomas J. Pike
Chief
UIC Implementation Section



Form 4 UIC	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY UNDERGROUND INJECTION CONTROL PERMIT APPLICATION <i>(Collected under the authority of the Safe Drinking Water Act, Sections 1421, 1422, 40 CFR 144)</i>	I. EPA ID NUMBER <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:80%;"></td> <td style="width:10%; text-align: center;">T/A</td> <td style="width:10%; text-align: center;">C</td> </tr> <tr> <td style="text-align: center;">U</td> <td></td> <td></td> </tr> </table>		T/A	C	U		
	T/A	C						
U								

READ ATTACHED INSTRUCTIONS BEFORE STARTING FOR OFFICIAL USE ONLY

Application approved <small>mo day year</small>	Date Received <small>mo day year</small>	Permit/Well Number	Comments

II. FACILITY NAME AND ADDRESS				III. OWNER/OPERATOR AND ADDRESS			
Facility Name Natural Duck #5-16GR SWSE 16-T9S-R20E				Owner/Operator Name Berry Ventures, Inc.			
Street Address Duck Creek Green River Unit				Street Address 1580 Lincoln Street, Suite 880			
City Uintah County		State UT	ZIP Code	City Denver		State CO	ZIP Code 80203

IV. OWNERSHIP STATUS (Mark 'x')	V. SIC CODES
<input checked="" type="checkbox"/> A. Federal <input type="checkbox"/> B. State <input type="checkbox"/> C. Private <input type="checkbox"/> D. Public <input type="checkbox"/> E. Other (Explain)	1311

VI. WELL STATUS (Mark 'x')		
<input type="checkbox"/> A. Operating	Date Started <small>mo day year</small>	<input type="checkbox"/> B. Modification/Conversion <input checked="" type="checkbox"/> C. Proposed Plan to convert the Natural Duck #5-16GR to a water injection well.

VII. TYPE OF PERMIT REQUESTED (Mark 'x' and specify if required)			
<input checked="" type="checkbox"/> A. Individual	<input type="checkbox"/> B. Area	Number of Existing wells 1	Number of Proposed wells 1 Name(s) of field(s) or project(s) Duck Creek Green River Unit Sections 15, 16, 21 & 22-T9S-R20E, Uintah County, Utah

VIII. CLASS AND TYPE OF WELL (see reverse)			
A. Class(es) <small>(enter code(s))</small>	B. Type(s) <small>(enter code(s))</small>	C. If class is "other" or type is code 'x,' explain	D. Number of wells per type (if area permit)
II	R		1

IX. LOCATION OF WELL(S) OR APPROXIMATE CENTER OF FIELD OR PROJECT												X. INDIAN LANDS (Mark 'x')			
C. A. Latitude			B. Longitude			Township and Range						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Deg	Min	Sec	Deg	Min	Sec	Twp	Range	Sec	1/4 Sec	Feet from	Line				
I						9S	20E	16	SE	539	S	2000	E		

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: A, B, C, E, G, H, M, Q

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) John B. Dunnewald, President, Bishop Petroleum Agent for Berry Ventures, Inc.	B. Phone No. (Area Code and No.) (303) 863-7800
C. Signature 	D. Date Signed 1/9/95

ATTACHMENT "A"

AREA OF REVIEW
AND NOTIFICATION OF LAND OWNERS

The calculated area of review for the proposed Natural Duck #5-16GR (SWSE Section 16, T9S, R20E) water injection well is a 1/2 mile radius around the well as shown on Attachment "A-1". Attachment "A-2" is a list of the names and mailing addresses for all property owners or tenants within the area of review. Attachment "A-3" is a copy of the cover letter sent to all property owners within the 1/2 mile radius.

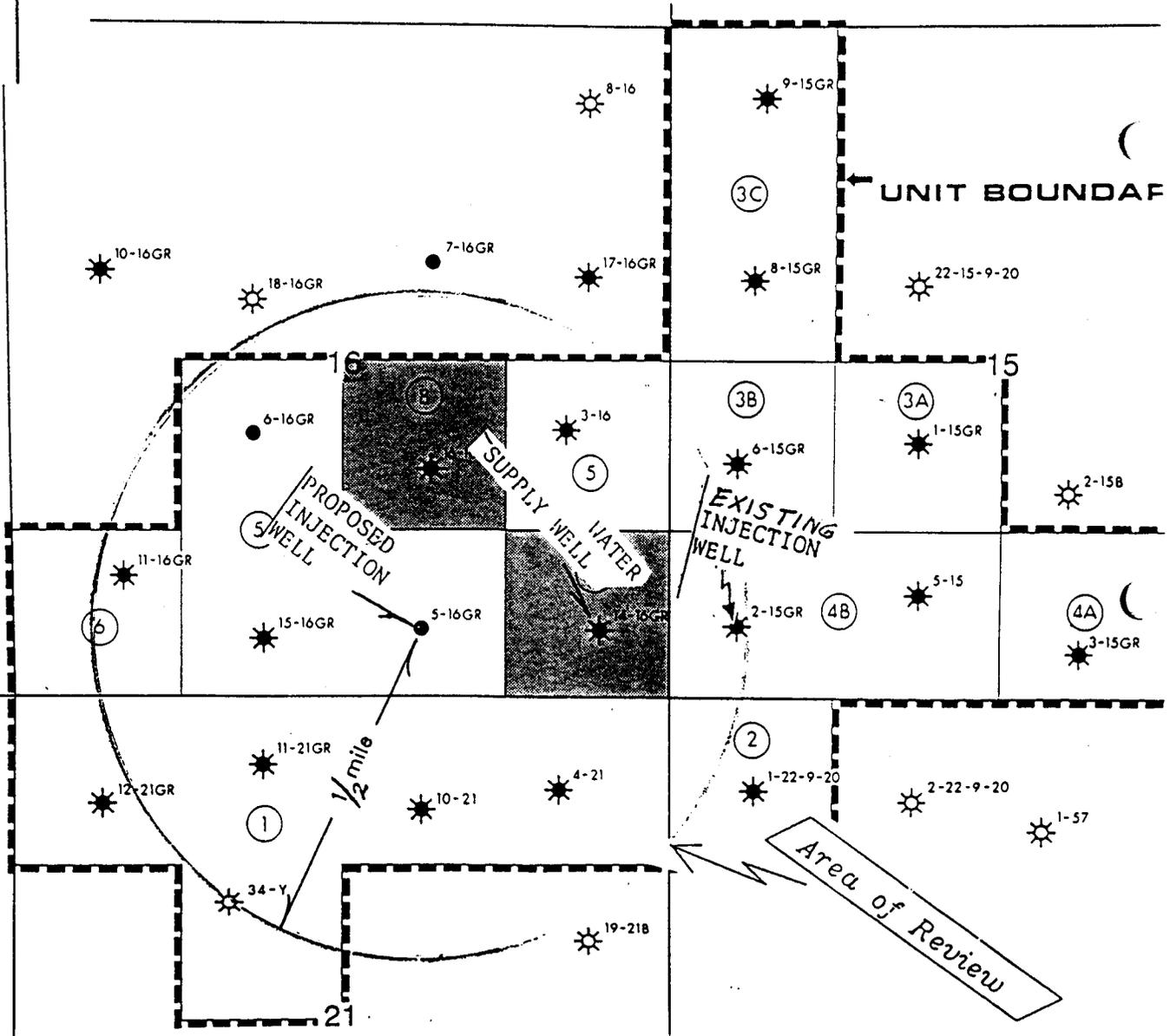
BERRY VENTURES, INC.

DUCK CREEK
GREEN RIVER UNIT
UINTAH COUNTY, UTAH

ATTACHMENT "A-1"
AREA OF REVIEW

R 20 E

T
9
S



ATTACHMENT "A-2"

A. Bayard Dod, Jr. and
& Jane W. Dod, Co-Trustees
4034 Aladdin Drive
Huntington Beach, CA 92649-4225

A.P. Smoot Trustee
765 E. 3 Fountains Circle 33
Murray, UT 84107-5201

Bar Mesa Resources, Inc.
P.O. Box 213
Roosevelt, UT 84066-0213

Carol L. Hatch
1245 E. Brickyard R., Suite 30
Salt Lake City, UT 84106-2559

Carol E. Hager
P.O. Box 17866
Salt Lake City, UT 84117-0866

Christ Controlled Resources Trust
1010 Upper Devon Lane
Lake Oswego, OR 97034

Coastal Oil & Gas Corp.
P.O. Box 200682
Houston, TX 77216-0682

Craig S. Hill
10753 Varese Lane
Northglenn, CO 80234

David S. Hill
7843 S. Franklin St.
Littleton, CO 80122-3036

E.O. Buck
101 Southwestern Blvd. #107
Sugarland, TX 77478-3548

The Frederick U. Leanord, Jr.
and Rosalyn R. Leonard Family Trust
8490 Oakmont Drive
Santa Rosa CA 95405

Garry B. Wilkin
36450 Alamar Mesa Cr.
Hemet, CA 92343

John. R. Anderson
12450 E. Brickyard Rd., Suite 3
Salt Lake City, UT 84106-2559

James C. Reeder
c/o Ray, Hoover & Associates
8530 Wilshire Blvd. Penthouse
Beverly Hills, CA 90211

Joseph G. Denton
6002 Clear Bay
Dallas, TX 75248

Judith Ann Webley
1010 Upper Devon Lane
Lake Oswego, OR 97034

Kimberly Hill Campbell
15930 SE Brenda Avenue
Milwaukee, OR 97267

La Von S. Hill
7128 S. Poplar Lane
Englewood, CO 80112-1635

Laura E. Lacey
3504 28th St.
Lubbock, TX 79410-2712

Lori H. Schafer
c/o Boeing Employees Credit Union
Route #325081403
Acct # 520883419
P.O. Box 97050
Seattle, WA 98124-9710

Matthew Cullen Wilkin & Josephine Wilkin,
Co-Trustees U/D/T dated 7-19-84 F/B/O the Matthew
Cullen Wilkin Family
5042 Calvin Avenue
Tarzana, CA 91356

Margaret E. Pollock Trust
c/o First Interstate Bank of Utah NA Successor Trustee
P.O. Box 30169
Salt Lake City, UT 84142

Margaret M. Warnock, Trustee
U/T/A Dtd 3-24-69
501 Via Casitas, #601
San Rafael, CA 94904-1933

J. Michael Pack
1040 Peaks Circle
Salt Lake City, UT 84117-7227

Mt. Carmel Trust
c/o Gilman A. Hill
7128 So. Poplar Lane
Englewood, CO 80122-1635

NSMC Corporation
P.O. Box 2057
Oklahoma City, OK 73101

ATTACHMENT "A-2" (Cont'd)

Laura E. Lacey
3504 28th St.
Lubbock, TX 79410-2712

Lori H. Schafer
c/o Boeing Employees Credit Union
Route #325081403
Acct # 520883419
P.O. Box 97050
Seattle, WA 98124-9710

Matthew Cullen Wilkin & Josephine Wilkin,
Co-Trustees U/D/T dated 7-19-84 F/B/O the Matthew
Cullen Wilkin Family
5042 Calvin Avenue
Tarzana, CA 91356

Margaret E. Pollock Trust
c/o First Interstate Bank of Utah NA Successor Trustee
P.O. Box 30169
Salt Lake City, UT 84142

Margaret M. Warnock, Trustee
U/T/A Dtd 3-24-69
501 Via Casitas, #601
San Rafael, CA 94904-1933

J. Michael Pack
1040 Peaks Circle
Salt Lake City, UT 84117-7227

Mt. Carmel Trust
c/o Gilman A. Hill
7128 So. Poplar Lane
Englewood, CO 80122-1635

NSMC Corporation
P.O. Box 2057
Oklahoma City, OK 73101

Patricia Reeder Eubank
3350 Calle Bonita
Santa Ynez, CA 93460

Richard P. Smoot
847 E. 47th So.
Salt Lake City, UT 84102-2928

Seneca Oil Company
Section #7300
P.O. Box 26960
Oklahoma City, OK 73196-0001

Stephen P. Smoot
875 Donner Way, Suite 705
Salt Lake City, UT 84108-2140

Suzanne M. Denton
6002 Clear Bay
Dallas, TX 75248

Thomas W. Sampson
8028 Woodrow Wilson Dr.
Hollywood, CA 90046-1117

Attn: Howard Cleavinger
Bureau of Land Management
170 So. 500 E.
Vernal, UT 84078

Attn: Robert Henricks
Bureau of Land Management
P.O. Box 45155
Salt Lake City, UT 84145-0155

Attn: Mineral Section
Division of State Lands and Forestry
3 Trial Center #400
Salt Lake City, UT 84180-1204

ATTACHMENT "A-2" (Cont'd)

Attn: Ronald McCook
Ute Indian Tribe
Uintah & Ouray Agency
Ft. Duchesne, UT 84026

ATTACHMENT "A-3"

Berry Ventures, Inc.
1580 Lincoln Street
Suite 880
Denver, CO 80203

January 4, 1995

TO: All Interest Owners

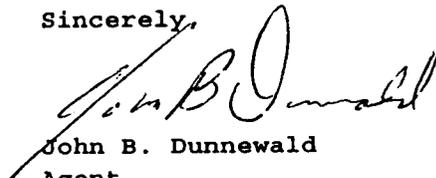
RE: Duck Creek Green River Unit
Uintah County, Utah

Gentlemen:

Berry Ventures, Inc., as Operator, has filed an application for a class II injection permit and intends to convert the 5-16GR well located in the SW/4SE/4 Section 16, T9S, R20E, to a water injection well to expand the secondary recovery project.

Should you have any questions regarding this matter, please contact us at (303) 863-7800.

Sincerely,



John B. Dunnewald
Agent

JBD:skb

ATTACHMENT "A-3"

Berry Ventures, Inc.
1580 Lincoln Street
Suite 880
Denver, CO 80203

January 4, 1995

TO: All Surface Owners

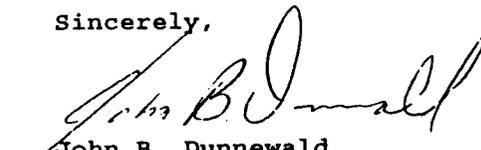
RE: Duck Creek Green River Unit
Uintah County, Utah

Gentlemen:

Berry Ventures, Inc., as Operator, has filed an application for a class II injection permit and intends to convert the 5-16GR well located in the SW/4SE/4 Section 16, T9S, R20E, to a water injection well to expand the secondary recovery project. The EPA is currently preparing a draft permit. After completing the permit, the EPA will notify all of the affected parties with a copy of the public notice. At that time, you will have a 30 day period in which to comment on the application.

Should you have any questions regarding this matter, please contact us at (303) 863-7800.

Sincerely,



John B. Dunnewald
Agent

JBD:skb

ATTACHMENT "C"
WELL DATA

Page 1

WELL/LOCATION	CURRENT STATUS	COMPLETION DATE	INITIAL POTENTIAL (BOPD/MCFPD)	HOLE RECORD		CASING RECORD			TOC	PERFORATIONS (Feet)	STIMULATION (Gal)	(#'s Sand)
				SIZE (In)	DEPTH (Ft)	SIZE (In)	CMT (Sxs)	DEPTH (Ft)				
Natural Duck #2-15 GR SW SW 15 S-20E	WIW*	9/28/79	159/159	13 8 3/4	190 5072	9 5/8 5 1/2	200 1045	190 5055	Surf. 2240	4830-4833 4837-4842	22,850 OIL	16,000
Natural Duck #6-16 GR NE SW 16 S-20E	TA	10/21/79	32/0	13 8 3/4	215 5054	9 5/8 5 1/2	200 1161	215 5054	Surf. 1514	4714-4768	10,676 DSL- COND.	7,000
Natural Duck #11-16 GR SW SW 16 S-20E	Prod	12/22/80	80/21	13 8 3/4	204 5007	9 5/8 5 1/2	200 864	204 5007	Surf. 1644	4845-4854 4936-4956	28,644 WTR	28,410
Duck Creek #14-16 GR SE SE 16 S-20E	WSW** P&A "M-4"	5/8/80	193/185	13 8 3/4	209 5071	9 5/8 5 1/2	200 1095	209 5066	Surf. 2126	4843-4853 3632-3655 3876-3904	16,300 WTR	12,500
Natural Duck #15-16 GR NE SW 16 S-20E	TA	11/21/80	178/107	13 7 7/8	208 5100	9 5/8 5 1/2	200 1060	208 5090	Surf. 2026	4840-4843 4909-4913 4917-4921	33,782 WTR	24,000
Natural Duck #16-16 GR W SE 16 S-20E	Prod	5/24/80	120/108	13 8 3/4	208 5064	9 5/8 5 1/2	200 1105	208 5063	Surf. 1845	4778-4789 4856-4864	29,442 DSL- COND.	20,600

The 2-15 was converted to a water injection well into the "M-4" Sand of the Green River formation on 5/27/94.

*The Duck Creek #14-16 GR was recompleted in the Green River H6A and H13A Sands to provide water for the secondary recovery project. A CIBP was set at 810', covered with 1 sack of cement, and was pressure tested to 1500 psi prior to perforating the H6A and H13A Sands. Also included on Attachment "C-1" are the CBL's across the "M-4" Sand for all the wells in the area of review,

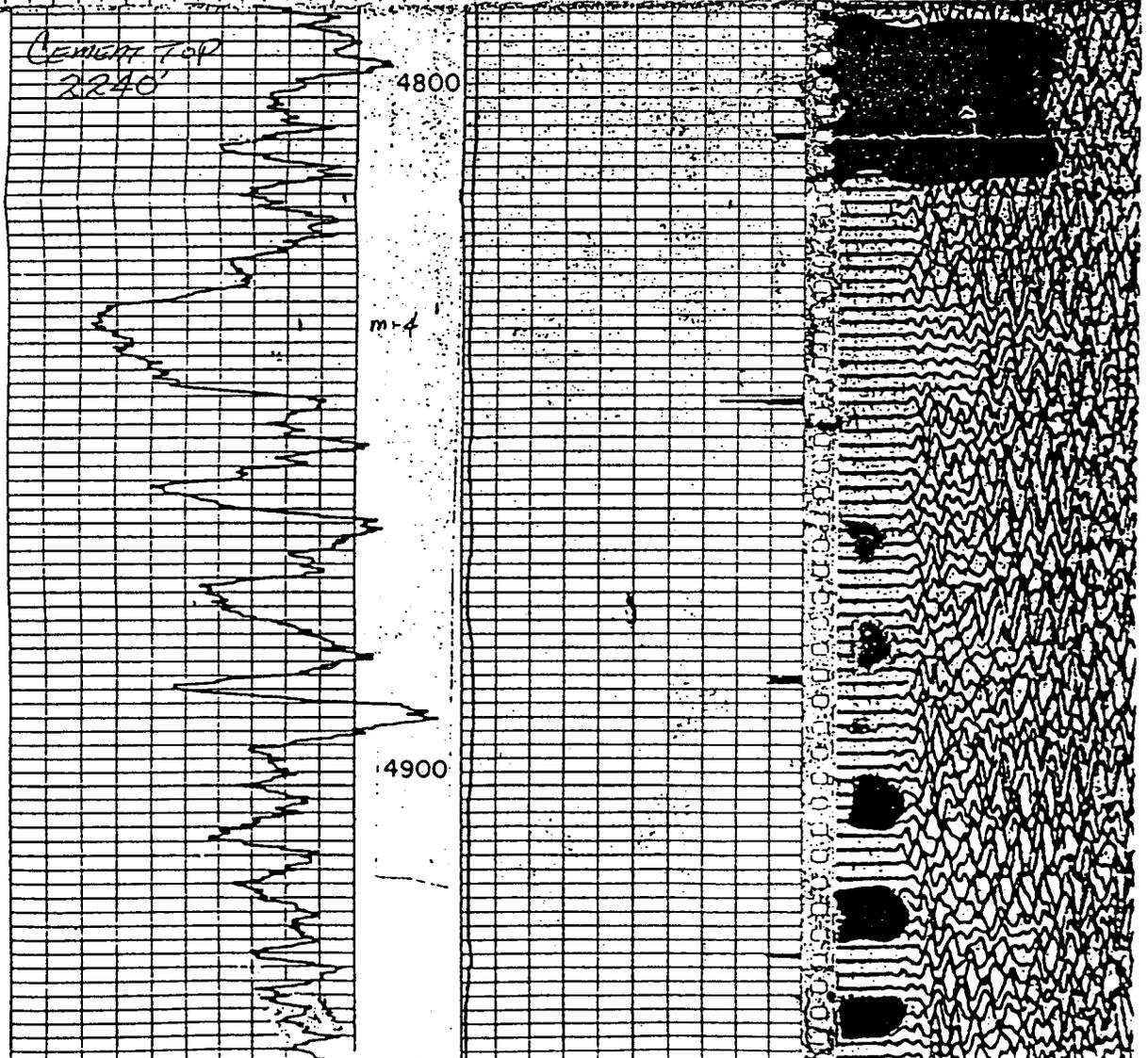
ATTACHMENT "C"
WELL DATA

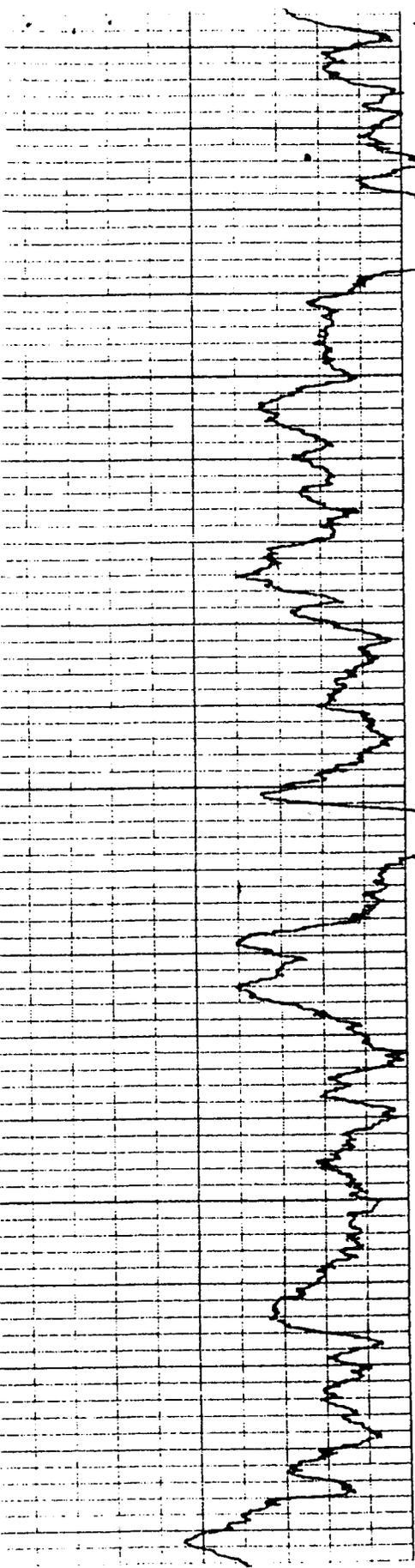
WELL/LOCATION	CURRENT STATUS	COMPLETION DATE	INITIAL POTENTIAL (BOPD/MCFPD)	HOLE RECORD		CASING RECORD			TOC	PERFORATIONS (Feet)	STIMULATION (Gal)	(#'s Sand)
				SIZE (In)	DEPTH (Ft)	SIZE (In)	CMT (Sxs)	DEPTH (Ft)				
Duck Creek #3-16 GR NE SE 16 9S-20E	TA	10/10/79	22/639	13 8 3/4	210 5012	9 5/8 5 1/2	200 820	210 5012	Surf. 1915	4118-4120 4125-4128 4134-4135 4872-4876 4942-4944 4950-4952	31,486 OIL	25,000
Duck Creek #5-16 GR SW SE 16 9S-20E	TA	10/1/79	146/NA	13 8 3/4	210 5095	9 5/8 5 1/2	200 960	210 5095	Surf. 1804	4839-4843 4913-4917	38,232 DSL- COND.	28,000
Natural Duck #4-21 NE NE 21 9S-20E	Prod	10/22/79	47/34	13 8 3/4	196 5022	9 5/8 5 1/2	200 860	196 5022	Surf. 1534	4788-4789	21,378 OIL	14,700
Natural Duck #10-21 GR SW NE 21 9S-20E	Prod	2/25/81	134/166	13 8 3/4	195 5078	9 5/8 5 1/2	200 700	195 5078	Surf. 1986	4778-4814 4882-5014	1,000 DSL 31,254 DSL	31,250
Natural Duck #11-21 NE NW 21 9S-20E	TA	3/24/81	35/420	13 8 3/4	190 5070	9 5/8 5 1/2	200 1011	190 5070	Surf. 1660	4845-4847 4850-4852	11,200 DSL	11,000



GREENBERG - Tracy Bond Log
3 1979

FILING NO.		COMPANY BELCO PETROLEUM CORPORATION	
WELL NATURAL DUCK 2-15 GR		FIELD DUCK CREEK	
COUNTY Uintah		STATE UTAH	
LOCATION SW SW		OTHER SERVICES PERFORMED	
SEC 1S TWP 9S R0E 20E		REV. # 4882	
GROUND LEVEL rev. 4870		D.I. 4870	
NO. MEASURED FROM K. B. 12 FT. ABOVE REF. DATUM			
MEASUREMENT FROM K. B.			
Log No.	7-25-79	Type Fluid in Hole	DIESEL
Depth—Driller	5072	Dens. Visc.	
Depth—Logger	4986	Max. Rec. Temp.	
Lim. Log Interval	4980	Est. Cement Top	
Open Hole Size	1700	Equip. Location	
ASING REC.	Size	Grade	Type Joint
Surface String			
Prof. String			
Prod. String	5 1/2		SLURRY TD
PRIMARY CEMENTING DATA			
STRING	Surface	Protection	Production
Vol. of cement			Liner
Type of cement			
Additive			
Additive by %			
Retarder			
Retarder by %			
Wt. of slurry			
Water loss			
Drill. mud type			
Drilling mud wt.			



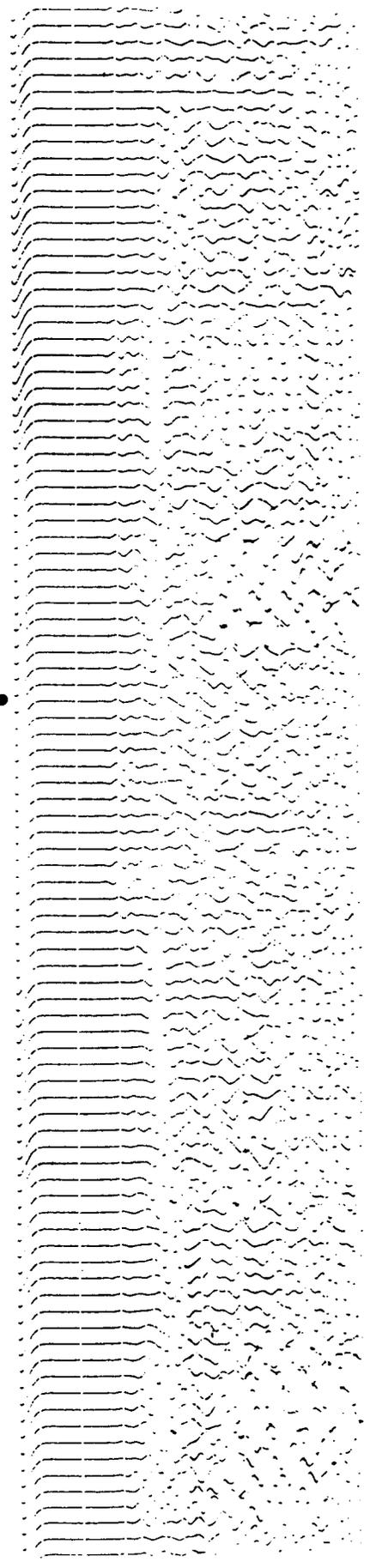
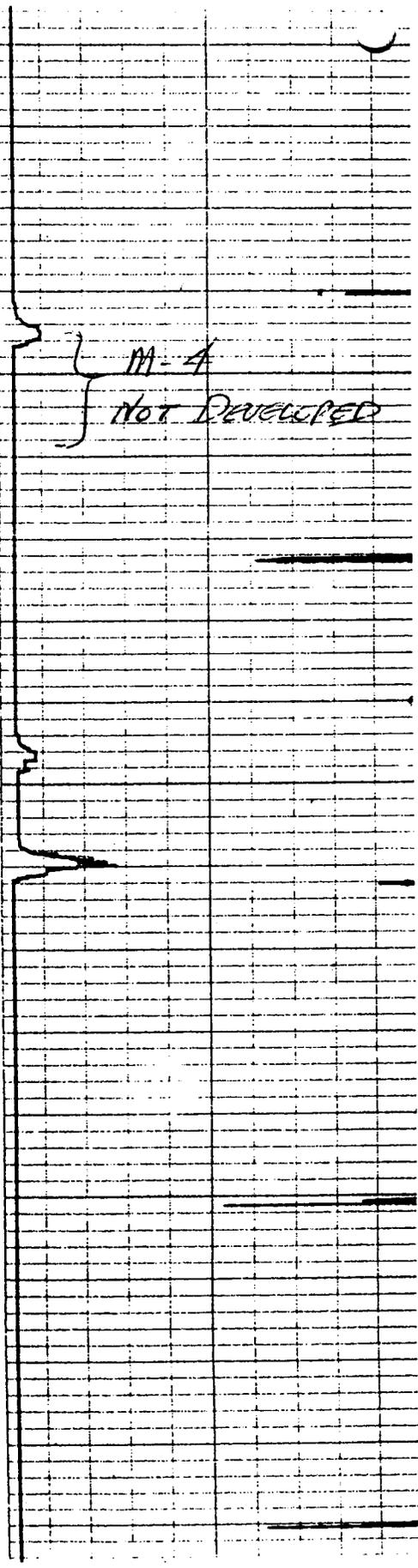


5-16

4800

4900

M-4
NOT DEVELOPED



WIRELINE SERVICES

ARRHART-OWEN

Ray Cement Bond

BELCO PETROLEUM-CORP.

DUCK CREEK 5-16 GR RECEIVED AUG 20 1979

DUCK CREEK

RECEIVED AUG 20 1979

UINTAH STATE UTAH

SE

OTHER SERVICES:

PERFORATE

TWP. 9S RGE. 20E

1. ELEV. 4868

ELEV. K.B. 4880

B. 12 FT. ABOVE PERM. DATUM

D.F. 4879

R. G.L. 4868

8/13/79

ONE

CBL

5025

5028

5022

1400

DIESEL/COND.

TWO HOURS

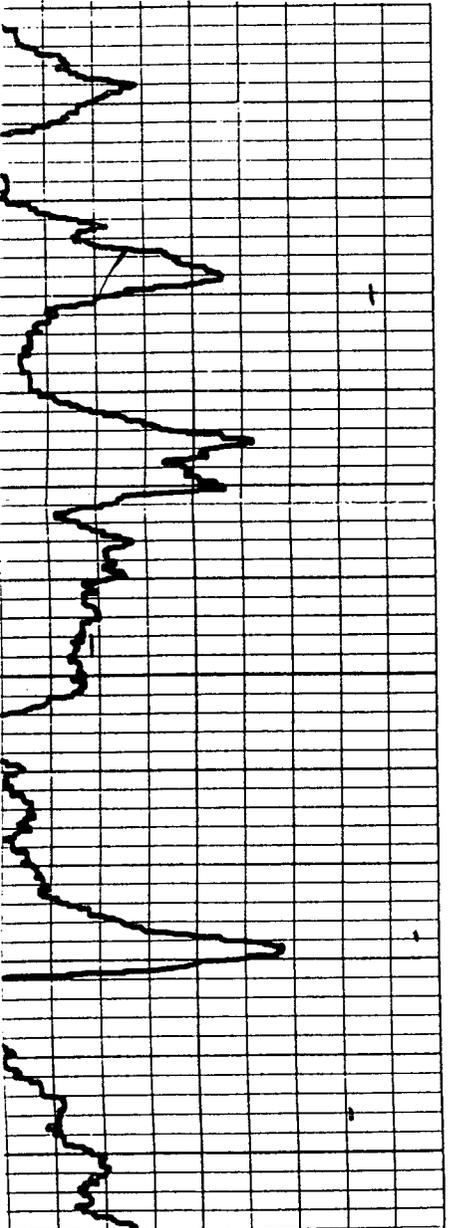
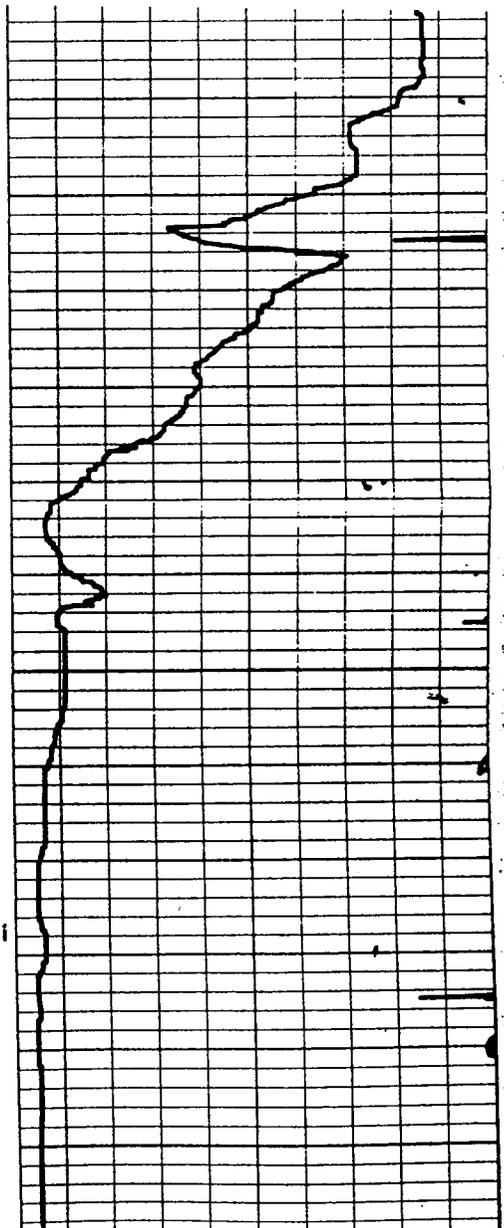
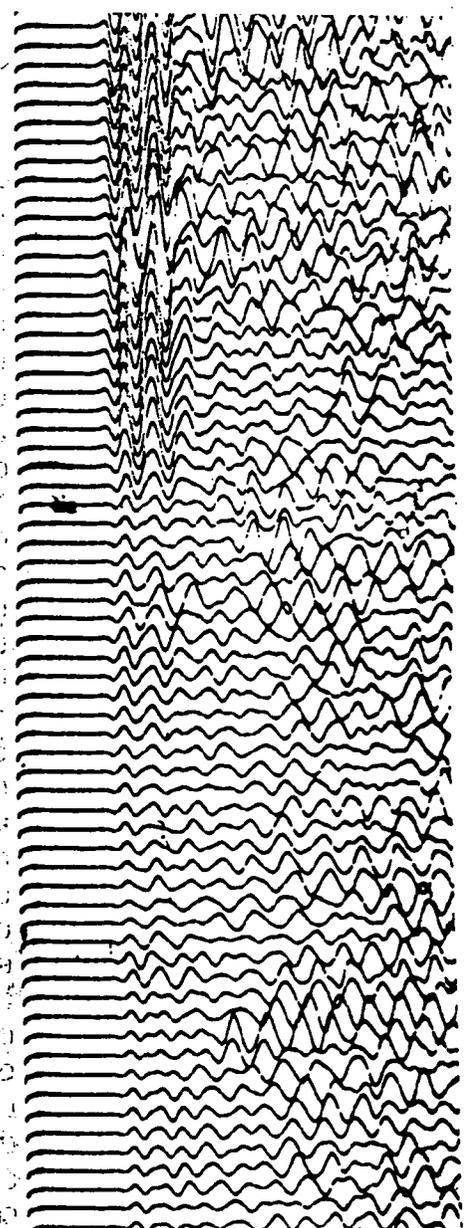
PELTIER

MR. POWELL

Casing Record

To Size Wgt. From To

5 1/2

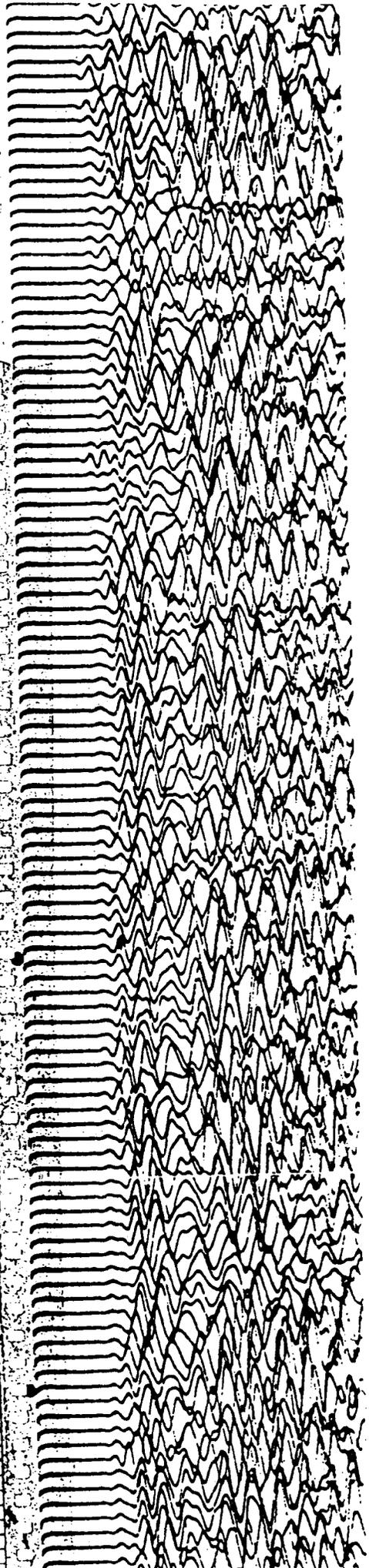
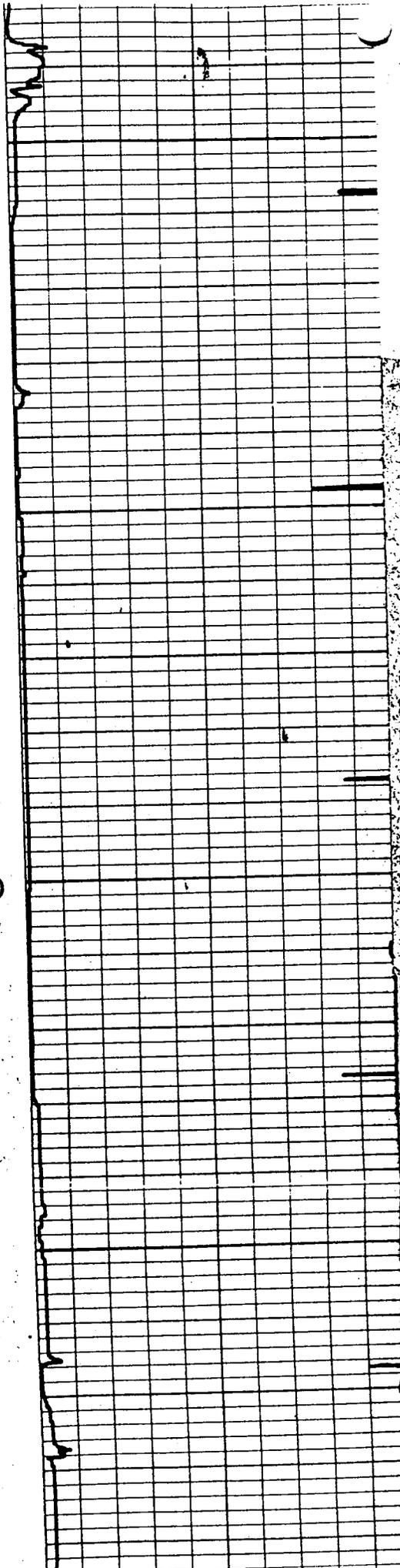
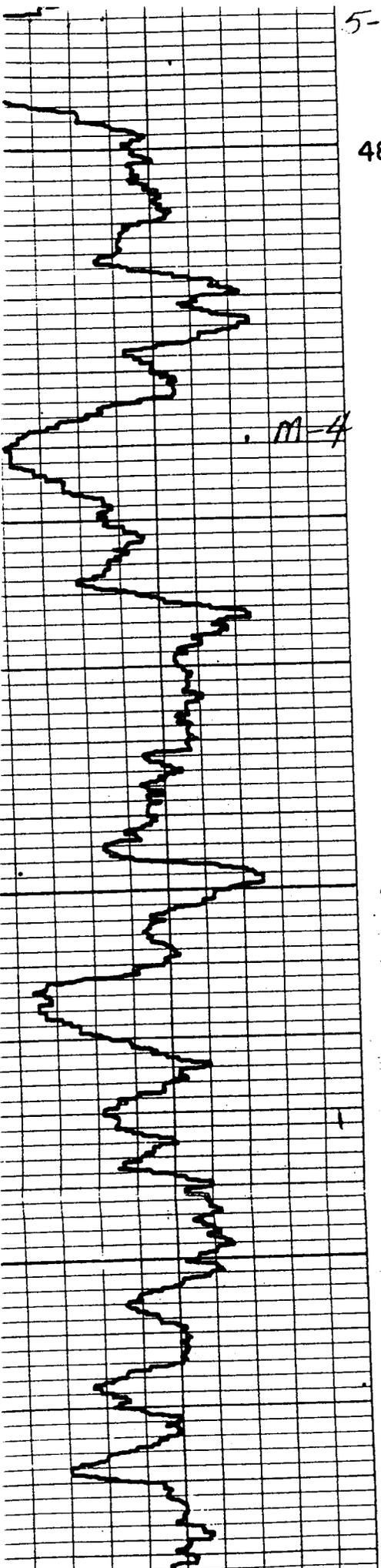


5-1

4800

. m-4

4900





WIRELINE SERVICES
GEARHART-OWEN

Gamma-Ray Bond Log

RECEIVED OCT - 9 1979

FILING NO.

COMPANY BELCO, CORP.
WELL DUCK CREEK 6-16 GR
FIELD DUCK CREEK
COUNTY UINTAH STATE UTAH

THANK YOU !

LOCATION: 2082 FSL 1929 FWL
NE SW
SEC. 16 TWP. 9S RGE. 20E

OTHER SERVICES:

PERMANENT DATUM: G. L. ELEV. 4782
LOG MEASURED FROM K. B. 12 FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM K. B.

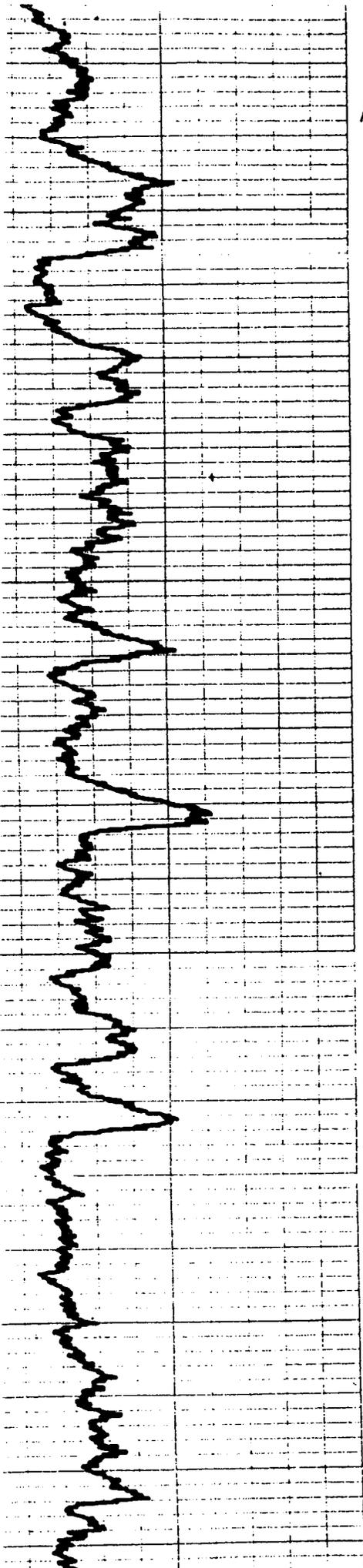
ELEV.: K.B. 4794
D.F. _____
G.L. 4782

Date	<u>9-12-79</u>	Type Fluid in Hole	<u>CONDENSATE</u>
Run No.	<u>One</u>	Dens. Visc.	
Depth—Driller	<u>5852</u>	Max. Rec. Temp.	
Depth—Logger	<u>8989</u>	Est. Cement Top	
Btm. Log Interval	<u>4989</u>	Equip. Location	
Top Log Interval	<u>1900</u>	Recorded By	<u>McCarley</u>
Open Hole Size		Witnessed By	

CASING REC.	Size	Wt Ft	Grade	Type Joint	Top	Bottom
Surface String						
Prot. String	<u>5½</u>	<u>11.6</u>			<u>SURF</u>	<u>TD</u>
Prod. String						
Liner						

PRIMARY CEMENTING DATA

STRING	Surface	Protection	Production	Liner
Vol. of cement				
Type of cement				
Additive				
Additive by %				
Retarder				
Retarder by %				
Wt. of slurry				
Water loss				
Drill. mud type				
Drilling mud wt.				

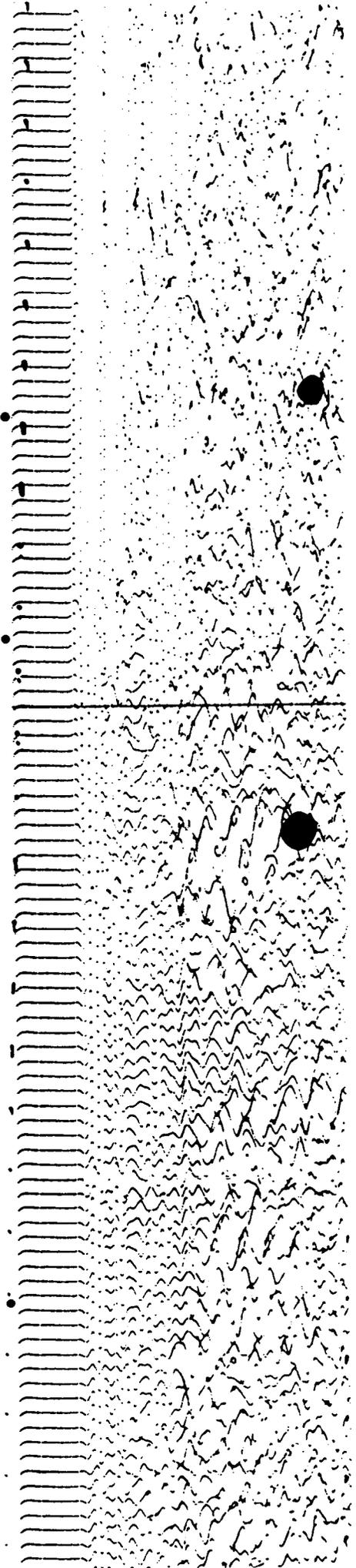
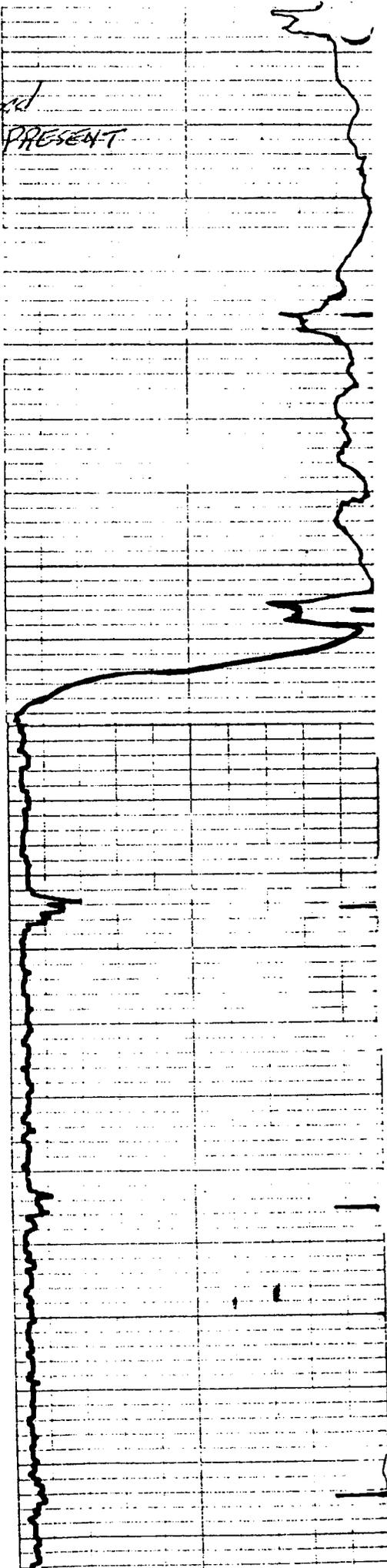


60

M-A speed
NOT PRESENT

1500

1600





WIRELINE SERVICES
GEARHART-OWEN

GAMMA-RAY BOND LOG

FILING NO.	COMPANY <u>BELCO PETROLEUM CORPORATION</u>	
	WELL <u>DUCK CREEK 11-16 GR</u>	
	FIELD <u>DUCK CREEK</u>	
	COUNTY <u>UINTAH</u>	STATE <u>UTAH</u>
LOCATION: SW 1/4 SW 1/4 869' FWL 968' FSL		OTHER SERVICES:
SEC <u>16</u> TWP <u>9S</u> RGE <u>20E</u>		PERFORATE
PERMANENT DATUM: <u>G.I.</u> ELEV. <u>4780</u>		ELEV.: K.B. <u>4788</u>
LOG MEASURED FROM <u>K.B.</u> <u>8</u> FT. ABOVE PERM. DATUM		D.F.
DRILLING MEASURED FROM <u>K.B.</u>		G.I. <u>4780</u>

Date	<u>11-14-80</u>	Type Fluid in Hole		
Run No.	<u>ONE</u>	Dens.	Visc.	
Depth—Driller	<u>5007</u>	Max. Rec. Temp.		
Depth—Logger	<u>4980</u>	Est. Cement Top	<u>1648</u>	
Btm. Log Interval	<u>4980</u>	Equip. Location	<u>5151 VERNAL</u>	
Top Log Interval	<u>1500</u>	Recorded By	<u>SLATKY</u>	
Open Hole Size	<u>8 3/4</u>	Witnessed By	<u>MR. BOWIE</u>	
CASING REC.	Size	Wt Ft	Grade Type Joint Top Bottom	
Surface String	<u>9 5/8</u>			SURF 205
Prot. String				
Prod. String	<u>5 1/2</u>			SURF 5001
Liner				

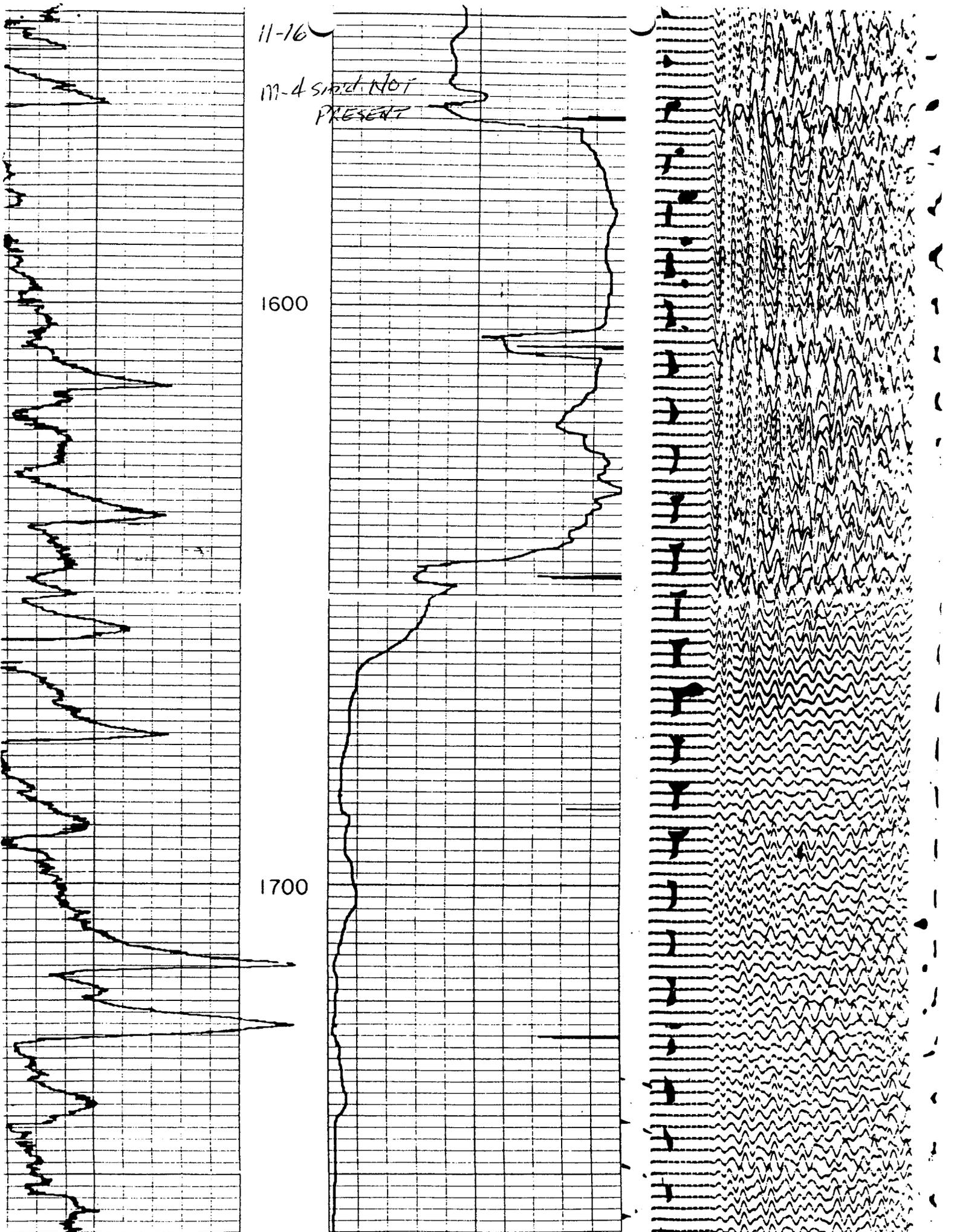
PRIMARY CEMENTING DATA.				
STRING	Surface	Protection	Production	Liner
Vol. of cement				
Type of cement				
Additive				
Additive by %				
Retarder				
Retarder by %				
Wt. of slurry				
Water loss				
Drill. mud type				
Drilling mud wt.				

11-16

m-4 srod. NOT
PRESENT

1600

1700



Gamma-Ray Bond Log

RECEIVED APR 3 0 1980

COMPANY BELCO PETROLEUM CORP.

WELL DUCK CREEK 14-16GR

FIELD DUCK CREEK

COUNTY KANE STATE UTAH

LOCATION: 529' ESL, 570' FEL

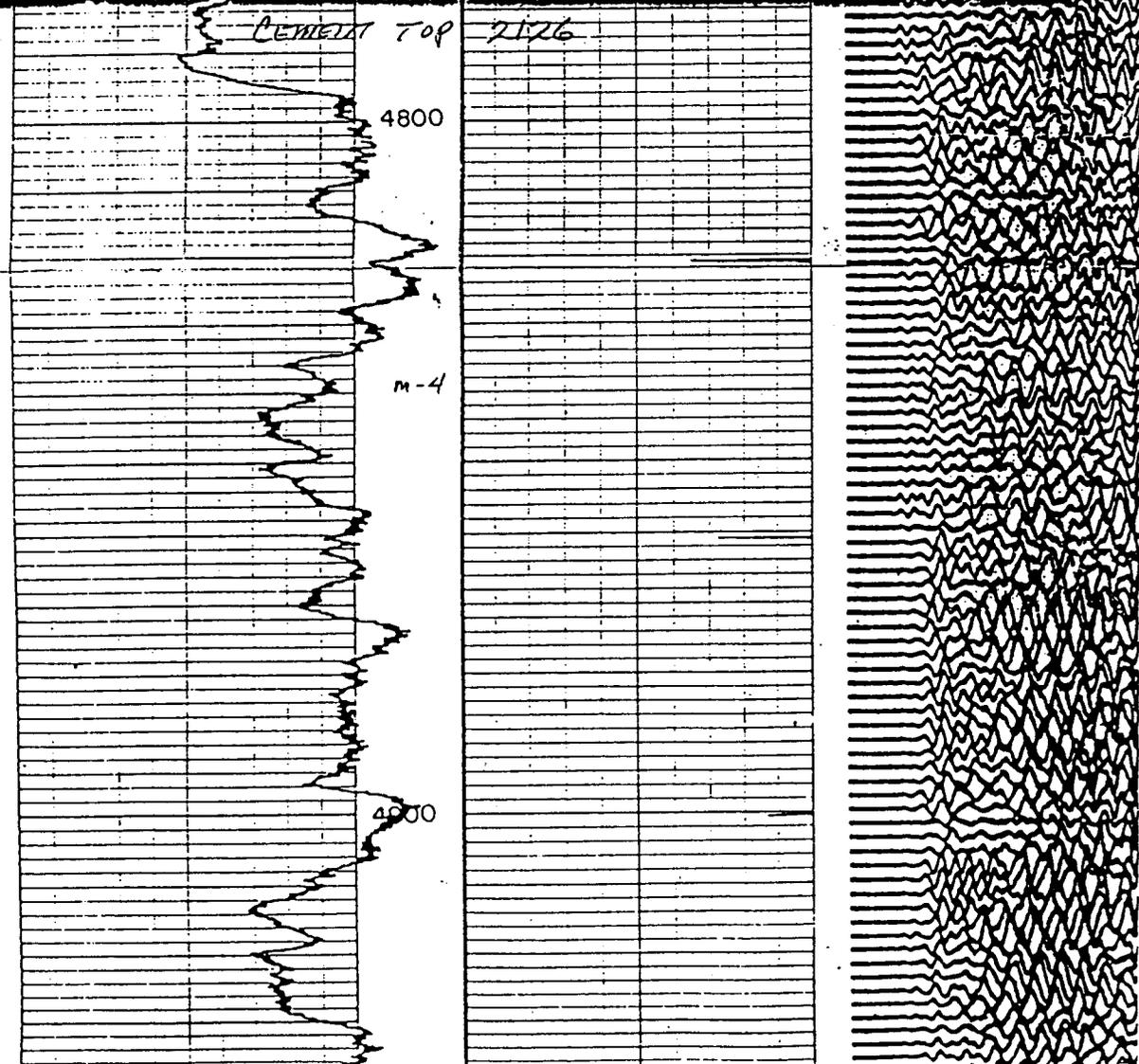
SEC 16 TWP 9S RGE 20E

OTHER SERVICES: PERFORATE

EQUIPMENT DATA: G.L. REV. 4881'
 OO MEASURED FROM K.B. 12 FT. ABOVE FIRM. DATUM
 FINING MEASURED FROM K.B. REV. 4893'
 OF 4881'

Date	4-26-80	Type Fluid in Hole	CONDENSATE/DIES
Run No.	ONE	Dens.	Visc.
Depth—Driller	5066	Max. Rec. Temp.	2124
Depth—Logger	5012	Est. Cement Top	5151
Lim. Log Interval	5012	Equip. Location	LAWRENCE
Op Log Interval	1900	Recorded By	MR. HARMON
Open Hole Size		Witnessed By	
ASING REC.	Size	Wt. Ft	Grade
Surface String	9 5/8"	36#	
Tol. String	5 1/2"	11.64	
Prod. String			
Water			

PRIMARY CEMENTING DATA			
STRING	Surface	Protection	Production
Vol. of cement			liner
Type of cement			
Additive			
Additive by %			
Retarder			
Retarder by %			
Mt. of slurry			
Water loss			
Drill. mud type			
Drilling mud wt.			



RECEIVED MAY 12 1980

LF



WIRELINE SERVICES
GEARHART-OWEN

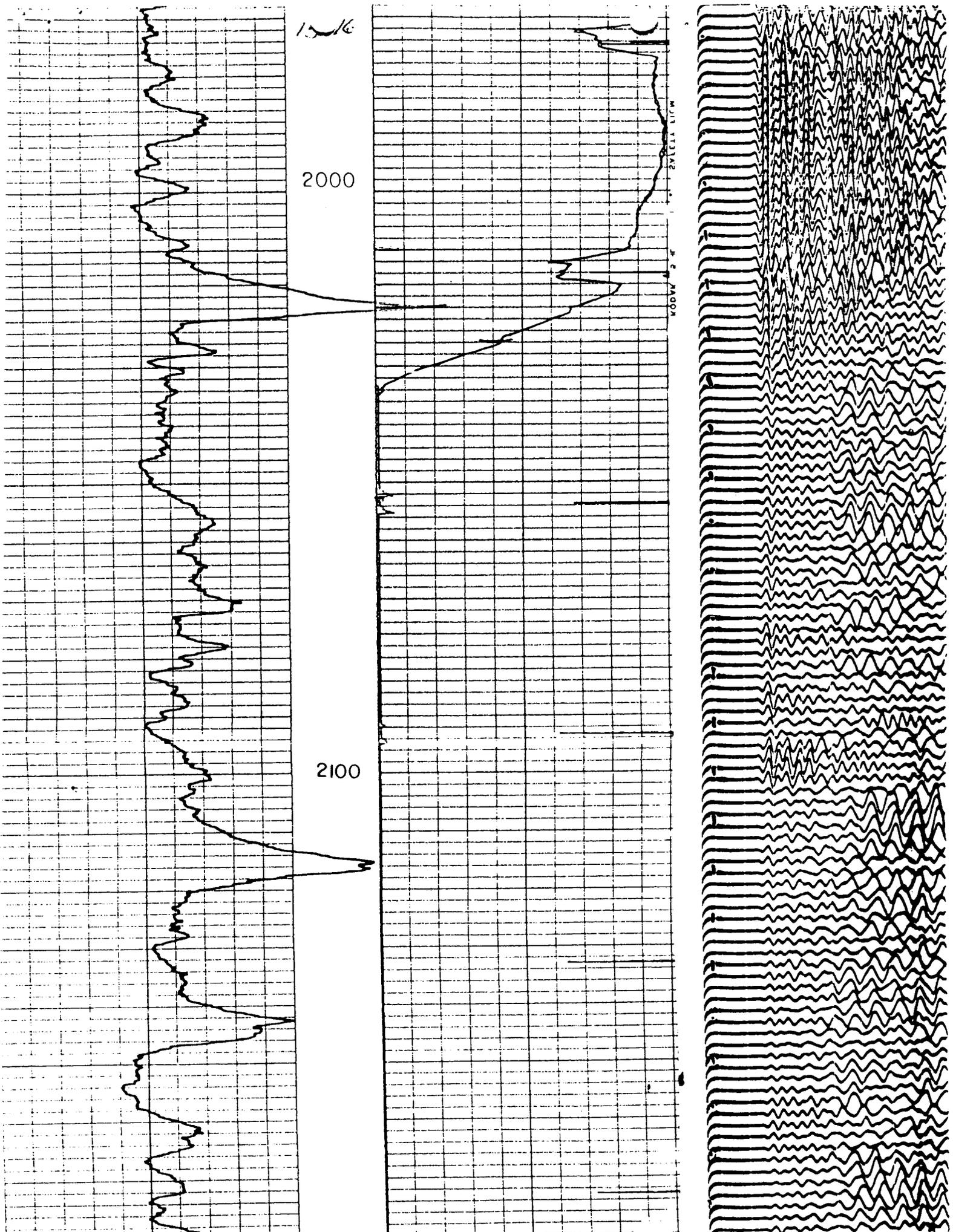
Gamma-Ray Bond Log

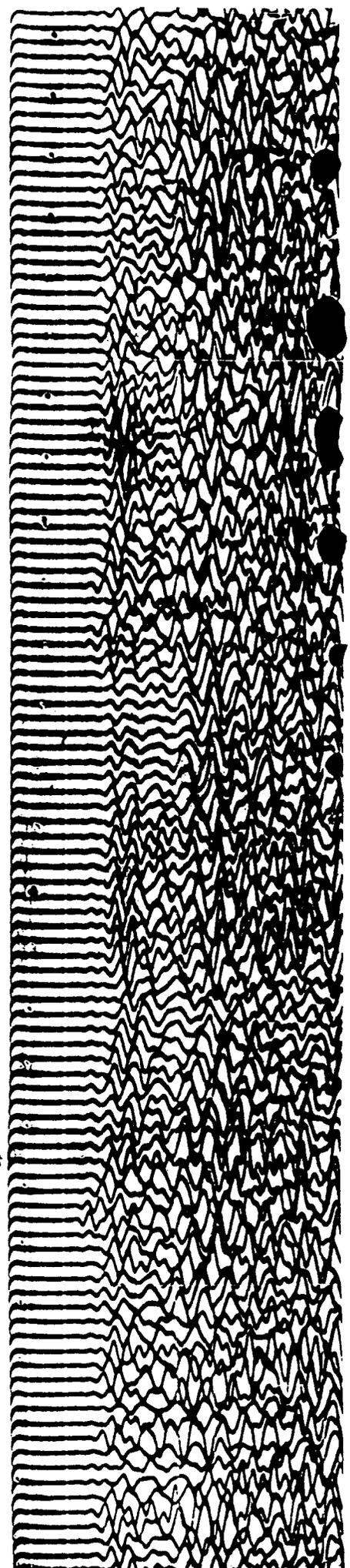
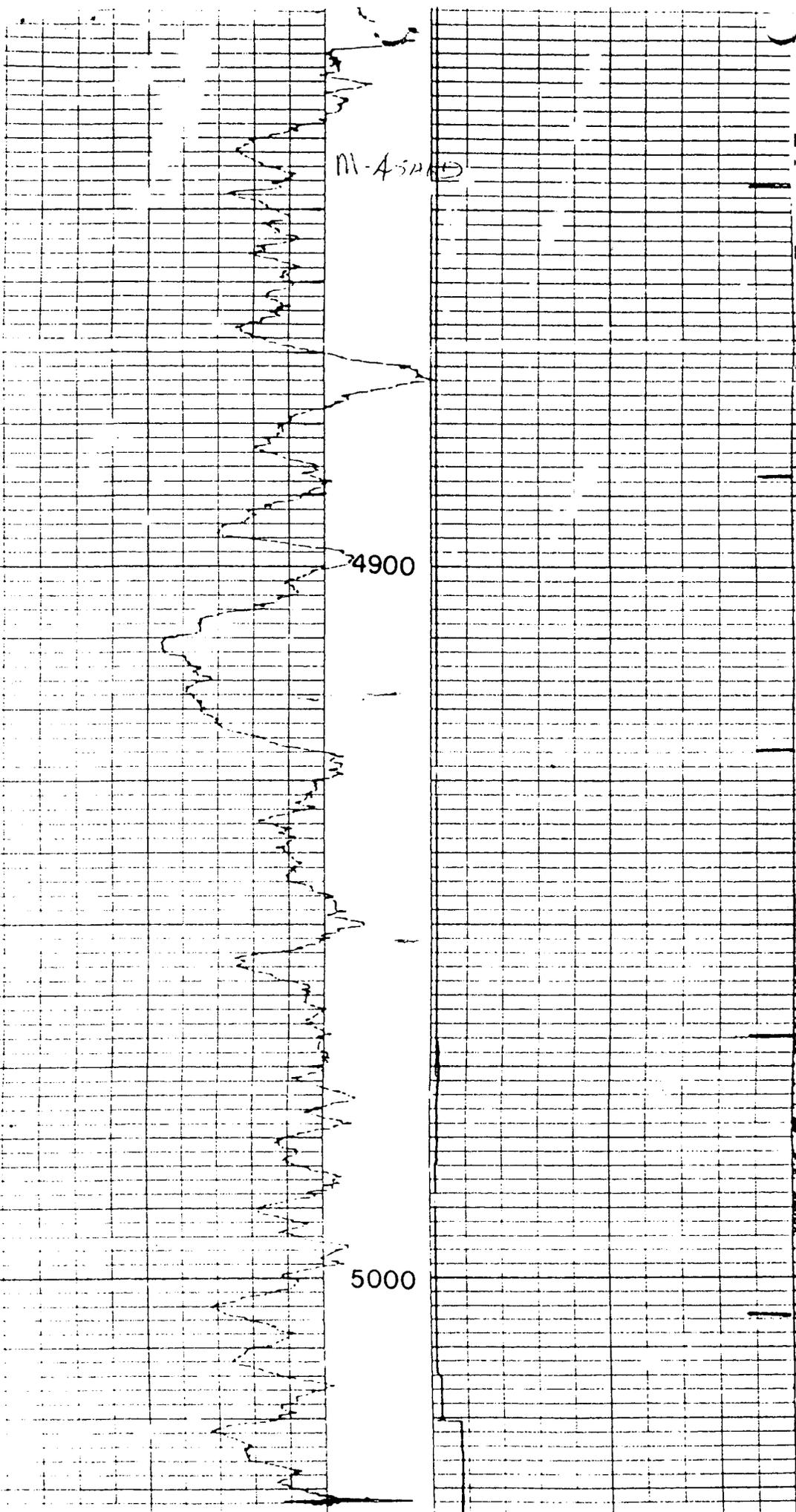
FILE NO.	COMPANY <u>BELCO PETROLEUM CORP.</u>	
	WELL <u>DUCK CREEK 15-16 GR</u>	
	FIELD <u>DUCK CREEK</u>	
	COUNTY <u>UINTAH</u>	STATE <u>UTAH</u>
LOCATION: <u>1970' FWL, 465' FSL</u>		OTHER SERVICES: <u>PERF.</u>
SEC. <u>16</u> TWP. <u>9S</u> RGE. <u>20E</u>		

PERMANENT DATUM: <u>G.L.</u> , ELEV. <u>4858</u>	ELEV.: K.B. <u>4870</u>
LOG MEASURED FROM <u>K.B.</u> , <u>12</u> FT. ABOVE PERM. DATUM	D.F. <u>4869</u>
DRILLING MEASURED FROM <u>K.B.</u>	G.L. <u>4858</u>

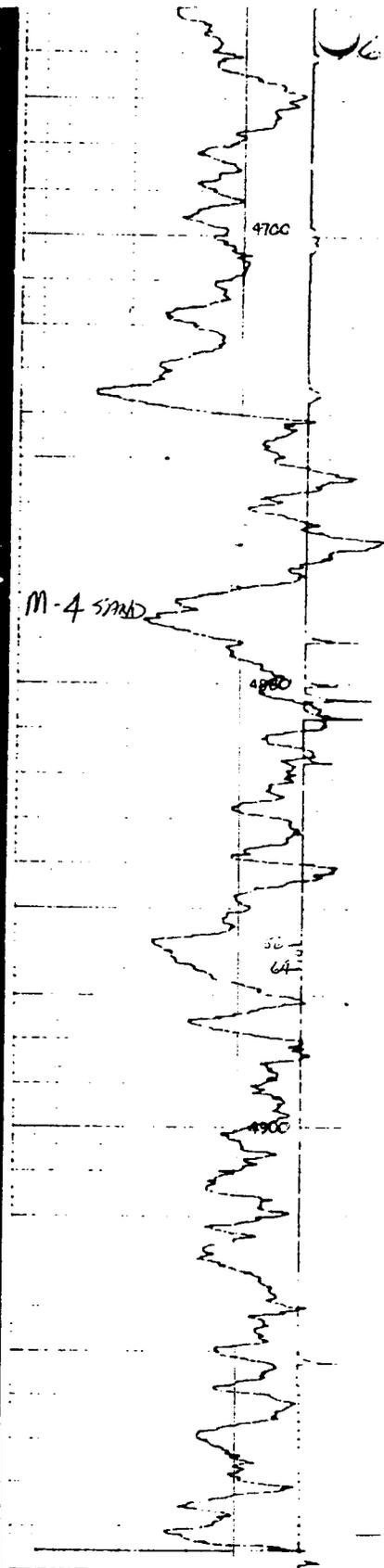
Date	5-7-80		
Run No.	ONE		
Type Log	GR-CBL		
Depth-Driller	5090		
Depth-Logger	5036		
Bottom logged interval	5032		
Top logged interval	1800		
Type fluid in hole	CONISATE		
Max rec. temp., deg. F.			
Operating rig time			
Recorded by	MCCARLEY		
Witnessed by	MR. HARMON		

Tubing-Liner Record				Casing Record			
Size	Wgt.	From	To	Size	Wgt.	From	To
Tubing				5½	11.6	SURFACE	T.D.
2 7/8		SURFACE	4800				
Liner							





16-16



M-4 SAND

4700

4700

3800

TO 5000
RD 3000

WIRELINE SERVICES
GEARHART-OWEN

FIELD SEP 10 1979

a-Ray Bond Log

COMPANY BEICO PETROLEUM CORP.

WELL NATURAL DUCK 4-21 GR

FIELD DUCK CREEK

COUNTY WINNEBAGO STATE UTAH

CAUTION: 1 OTHER SERVICES:

S 21 TWP 9 S RGE 20 E

PERF.

G.L. _____ ELEV. 4854
K.B. _____ 12 FT. ABOVE PERM. DATUM
ELEV. K.B. 4866
D.F. 4865
G.L. 4854

8-24-79 Type Fluid in Hole CONISATE

ONE Dens. Visc.

5022 Max. Rec. Temp. 1800

4961 Est. Cement Top.

4955 Equip. Location

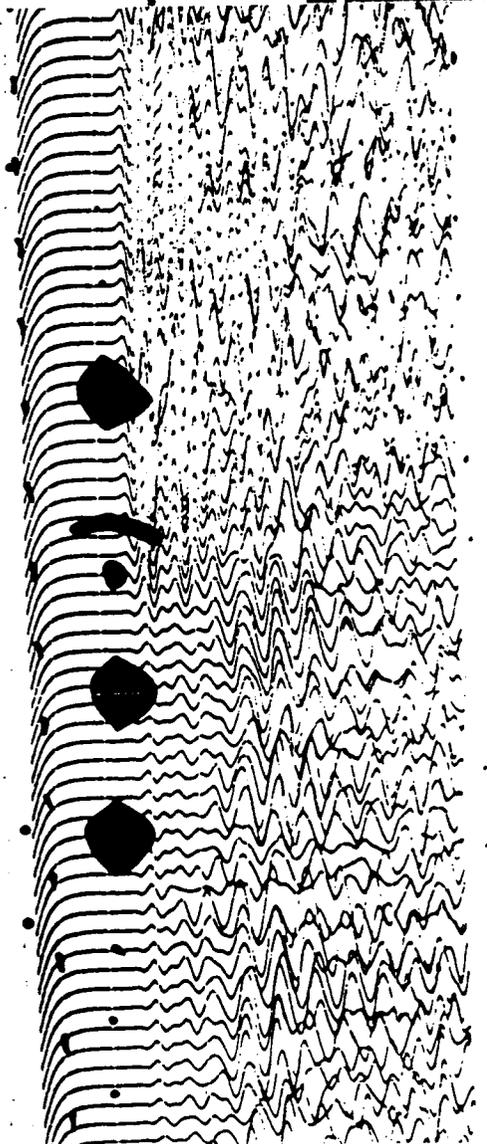
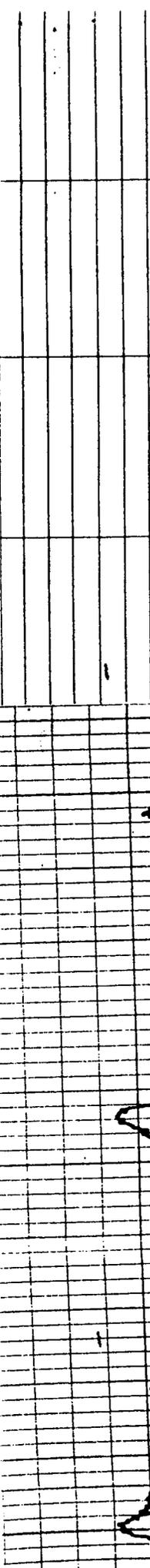
1650 Recorded By Mc Carley

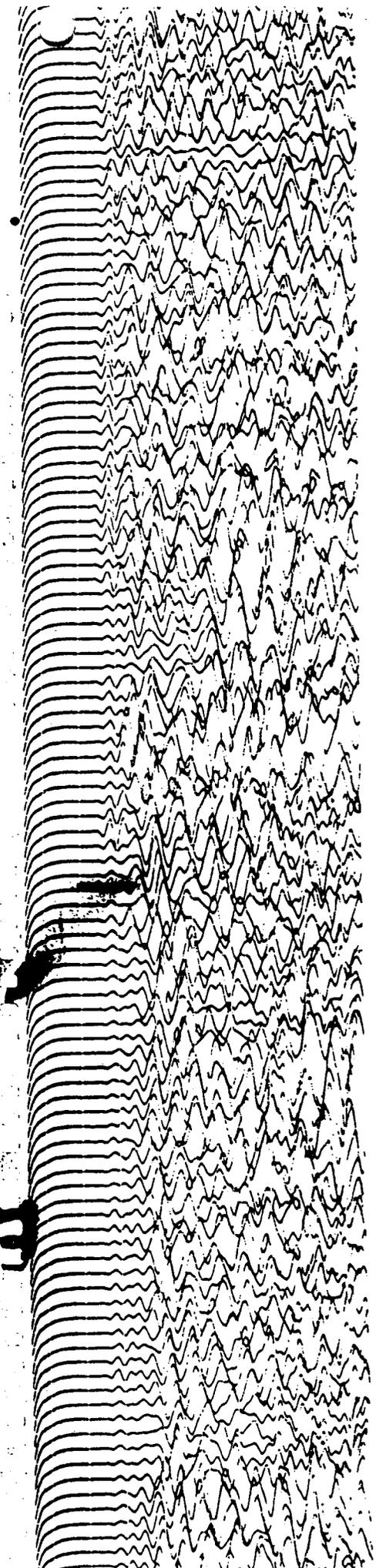
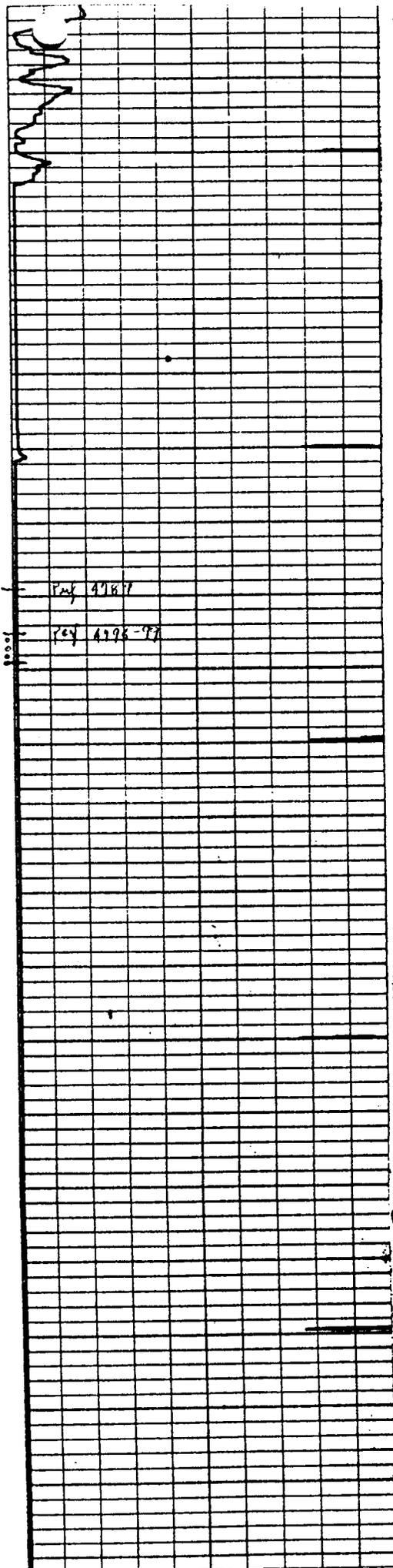
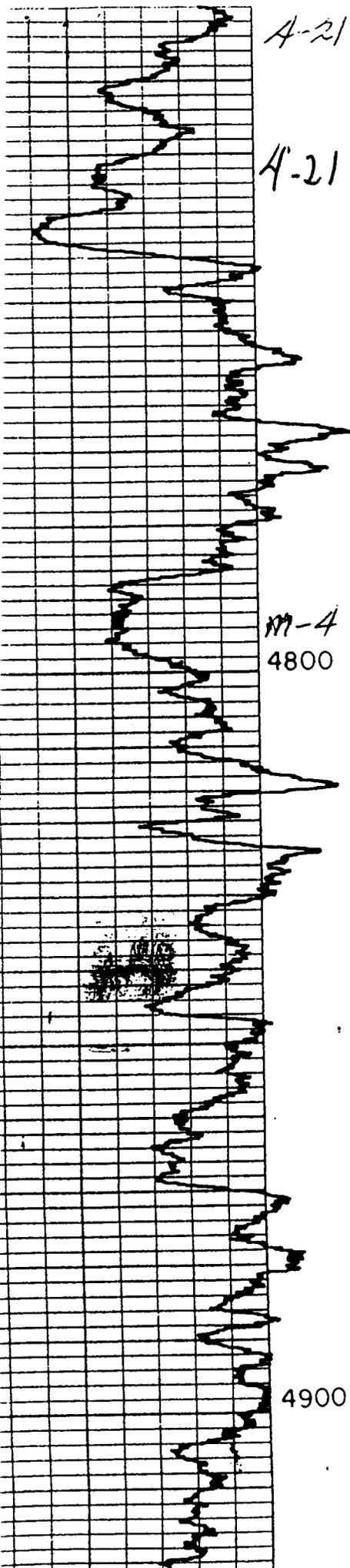
Witnessed By Mr. Feely

Size	Wt/Ft	Grade	Type Joint	Top	Bottom
4 1/2				SURF.	5020

PRIMARY CEMENTING DATA

Surface	Protection	Production	Liner







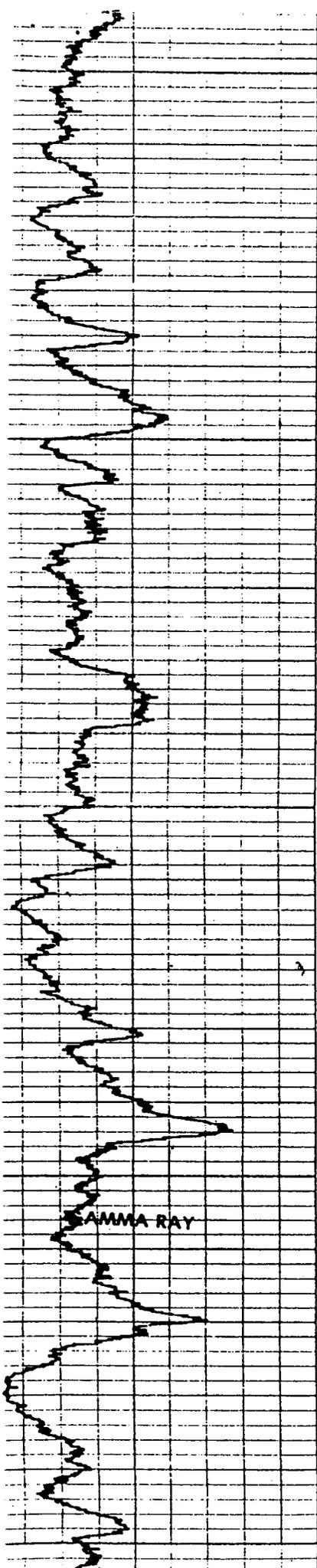
Cement Bond Log

FILING NO.	COMPANY <u>BELCO DEVELOPMENT CORP.</u>		
	WELL <u>NATURAL DUCK 10-21 GR</u>		
	FIELD <u>NATURAL DUCK</u>		
	COUNTY <u>UINTAH</u>	STATE <u>UTAH</u>	
	LOCATION:		OTHER SERVICES:
	SEC. <u>21</u> TWP. <u>9S</u> RGE. <u>20E</u>		PERF.

PERMANENT DATUM: <u>G.L.</u> ELEV.: <u>4855</u>	ELEV.: K.B. <u>4863</u>
LOG MEASURED FROM <u>K.B.</u> , <u>8</u> FT. ABOVE PERM. DATUM	D.F.
DRILLING MEASURED FROM <u>K.B.</u>	G.I. <u>4855</u>

Date	2 FEB 81		
Run No.	ONE		
Type Log	G/R BOND		
Depth-Driller	5033		
Depth-Logger	5031		
Bottom logged interval	5025		
Top logged interval	1850		
Type fluid in hole	WATER		
Max rec. temp., deg. F.			
Operating rig time	4 HOURS		
Recorded by	ABRAMS		
Witnessed by	MR. BOWLE		

Tubing-Liner Record				Casing Record			
Size	Wgt.	From	To	Size	Wgt.	From	To
Tubing				9 5/8		SURF.	196'
				5 1/2		SURF.	T.D.
Liner							

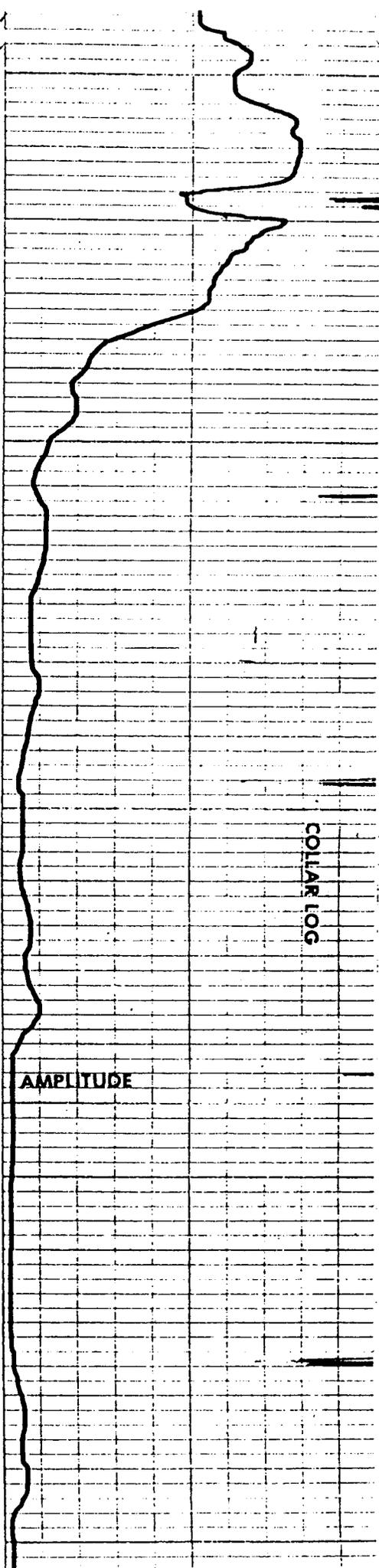


GAMMA RAY

10-21

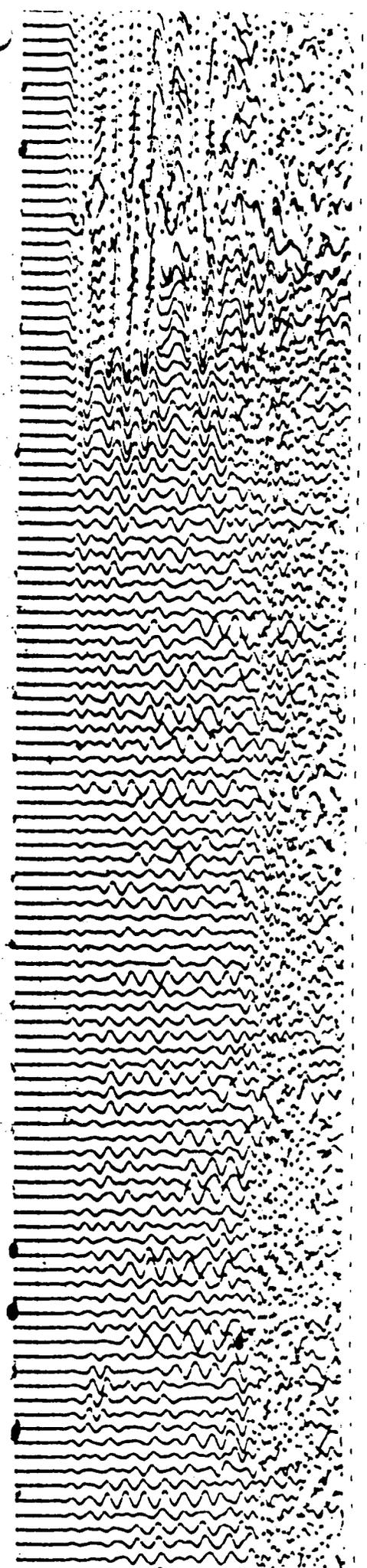
2000

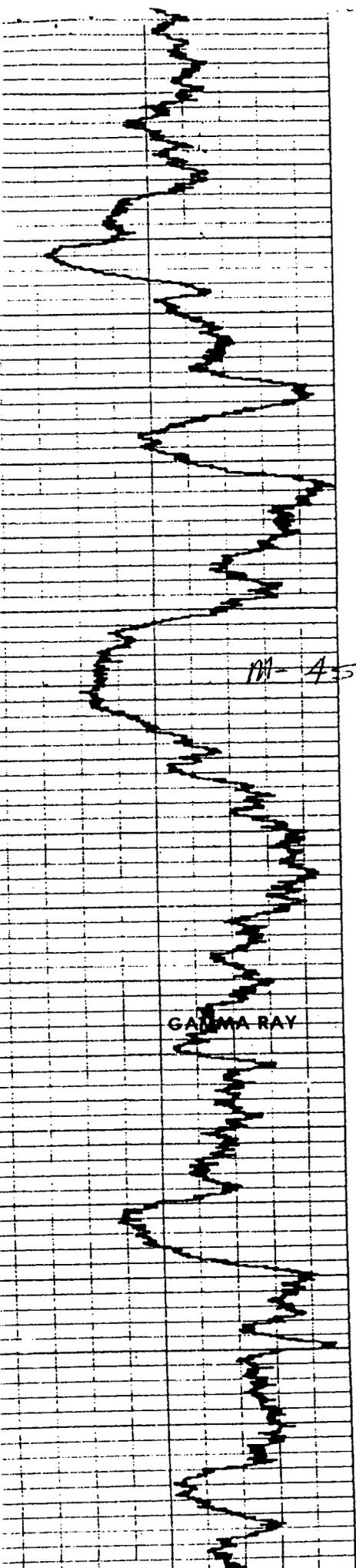
2100



AMPLITUDE

COLLAR LOG



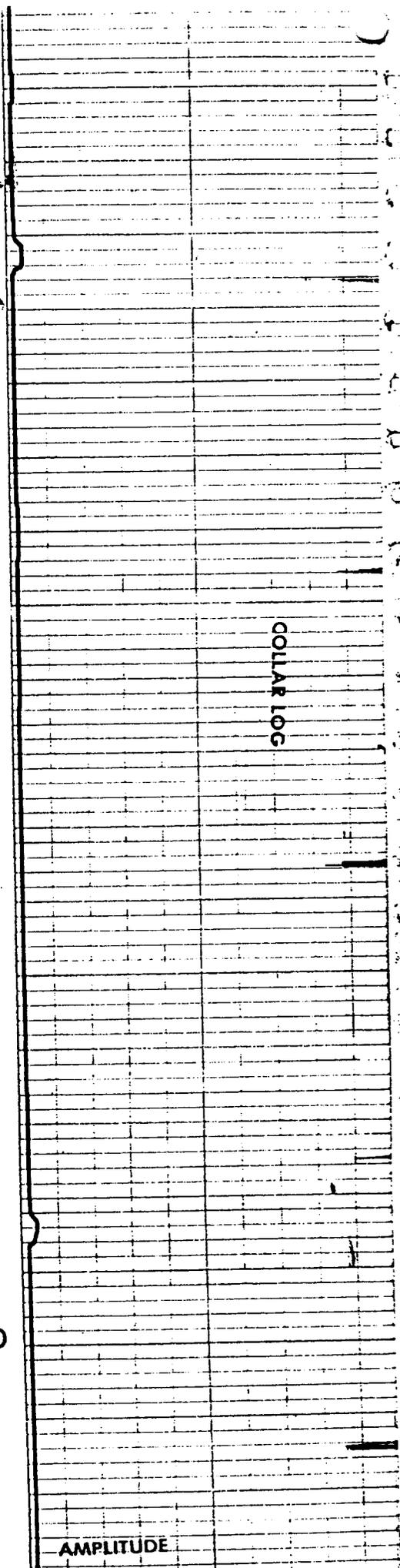


4800

M-4 SAND

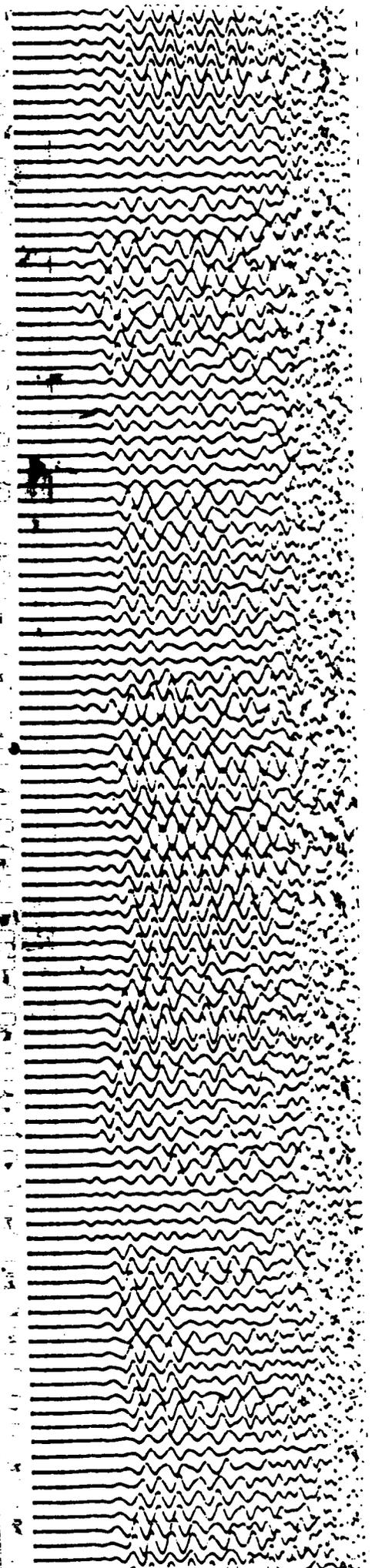
GAMMA RAY

4900



COLLAR LOG

AMPLITUDE



GEARHART

GAMMA-RAY CEMENT BOND LOG

FILING NO.	COMPANY <u>BELCO DEVELOPEMENT CORP.</u>					
	WELL <u>NATURAL DUCK</u> <u>11-21 GR</u>					
FIELD <u>DUCK CREEK</u>						
COUNTY <u>UINTAH</u> STATE <u>UTAH</u>						
LOCATION:	OTHER SERVICES:					
SEC <u>21</u> TWP <u>9S</u> RGE <u>20E</u>						
PERMANENT DATUM: <u>G.L.</u> ELEV <u>4883</u>	ELEV. K.B. <u>4891</u>					
LOG MEASURED FROM <u>K.B.</u> <u>8</u> FT. ABOVE PERM. DATUM	D.F.					
DRILLING MEASURED FROM <u>K.B.</u>	G.L. <u>4883</u>					
Date	<u>3-6-81</u>	Type Fluid in Hole				
Run No.	<u>ONE</u>	Dens. Visc.				
Depth—Driller	<u>5045</u>	Max. Rec. Temp.				
Depth—Logger	<u>5044</u>	Est. Cement Top <u>1350</u>				
Btm. Log Interval	<u>5040</u>	Equip. Location <u>6017</u> <u>VERNAL</u>				
Top Log Interval	<u>1350</u>	Recorded By <u>CHRISTIENSEN</u>				
Open Hole Size		Witnessed By <u>Mr. HARMON</u>				
CASING REC.	Size	Wt Ft	Grade	Type Joint	Top	Bottom
Surface String	<u>9 5/8</u>				<u>Surf.</u>	<u>205</u>
Prot. String	<u>5 1/2</u>					
Prod. String						
Liner						
PRIMARY CEMENTING DATA						
STRING	Surface	Protection	Production	Liner		
Vol. of cement						
Type of cement						
Additive						
Additive by %						
Retarder						
Retarder by %						
Wt. of slurry						
Water loss						
Drill. mud type						
Drilling mud wt.						

Summa Ray A. I.
Div. Left of This Line

100% Bonding

Bonding

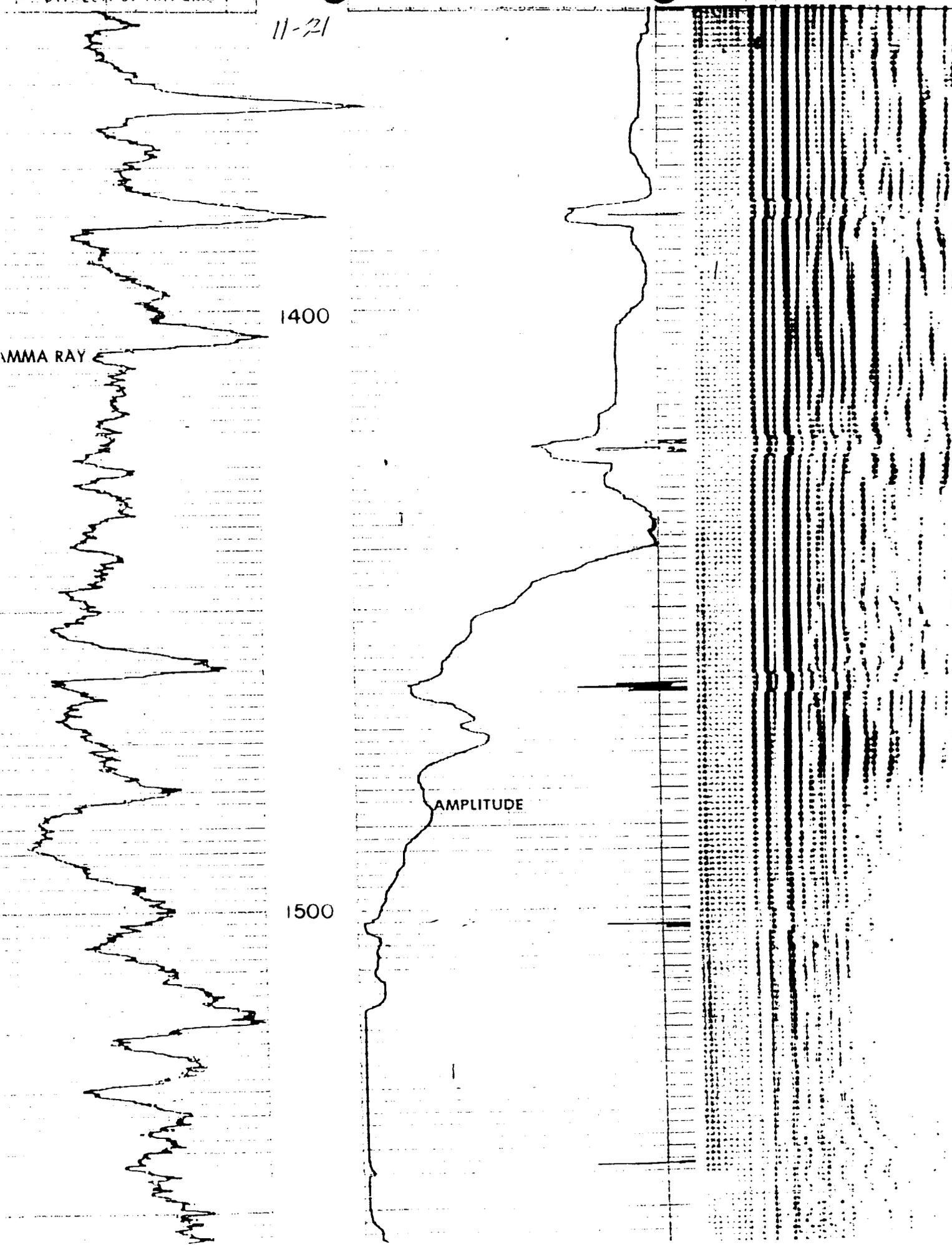
11-21

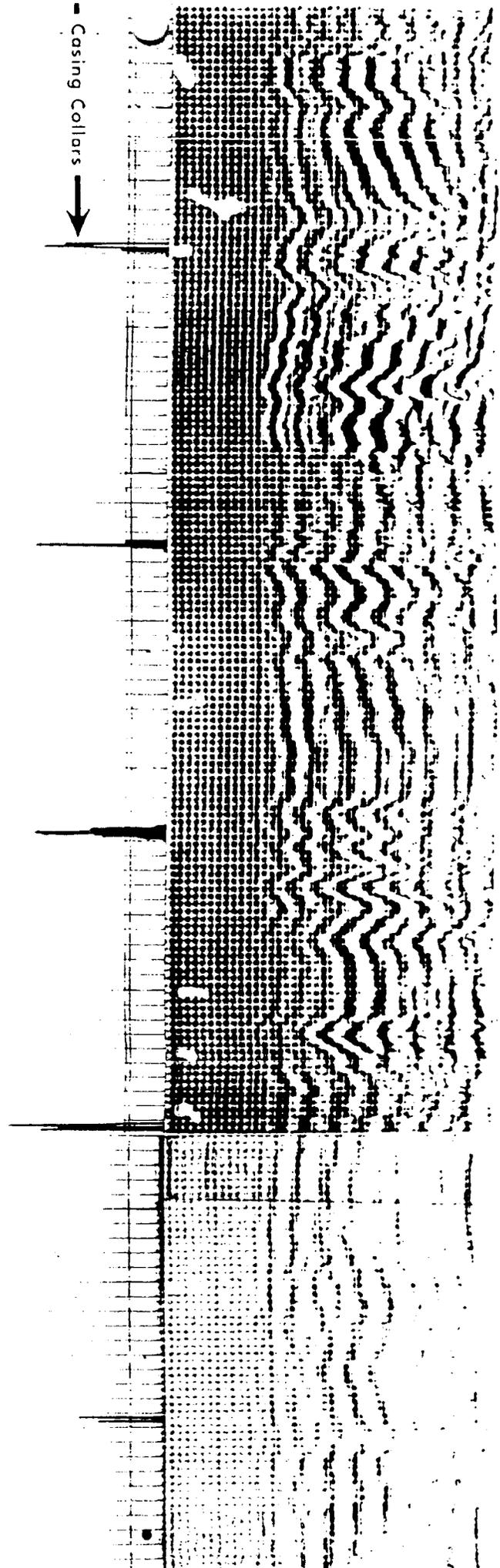
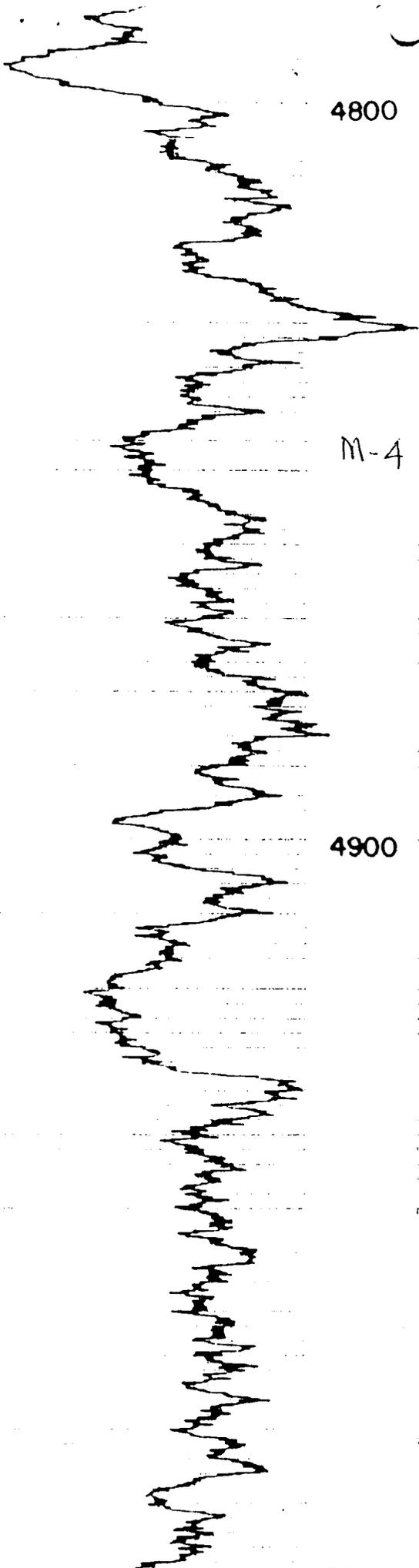
1400

1500

AMMA RAY

AMPLITUDE





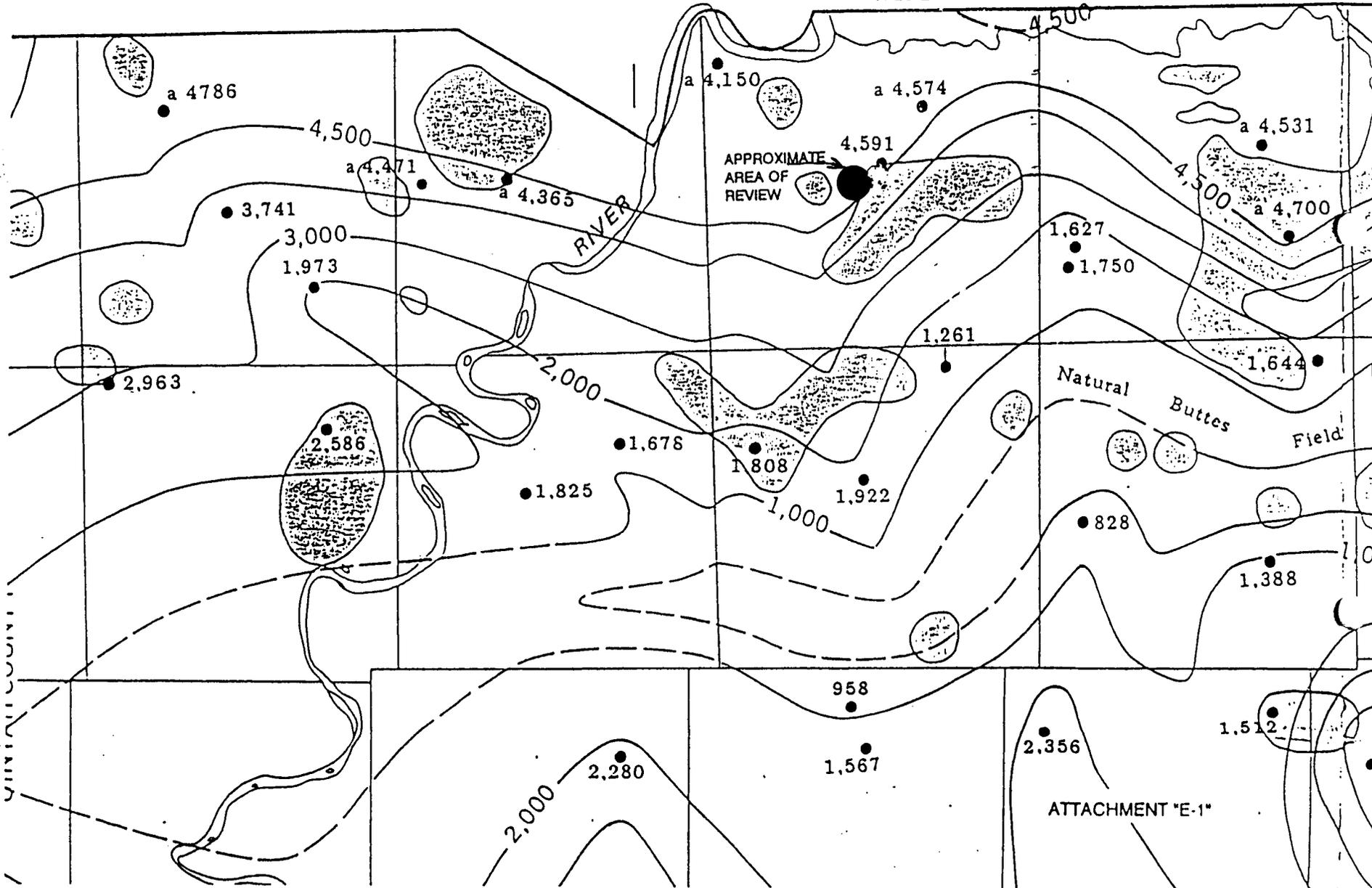
ATTACHMENT "E"

NAME & DEPTH OF USDW'S

No apparent USDW's are present in the area of review. Technical Publication No. 92 by the State of Utah Department of Natural Resources entitled the "Base of Moderately Saline Ground Water in the Uinta Basin, Utah" was extremely useful in determining the absence of any USDW's in the area of review. Attachment "E-1" shows the elevation of the base of moderately saline (<10,000 ppm) ground water in the area of review is above +4574' subsea. The average ground elevation in the area of review is +4850'. Therefore, the expected base of the moderately saline ground water is above 276' measured depth in the wellbores. Surface casing on all wells in the area of review was set to 190-215'. In order to verify the high salinity, the resistivity ratio method was used to calculate an apparent water resistivity in the sands in the Uinta formation in a number of wells in the area. The results of this evaluation (Attachment "E-2") indicates TDS readings of 68,000 to 125,000 ppm. In addition, no apparent USDW's were found in the underlying Green River formation. Both of these findings were supported by the text of the previously mentioned technical publications as shown on Attachment "E-3".

T
9
S

R 20 E



ATTACHMENT "E-1"

ATTACHMENT "E-2"

<u>WELL</u>	<u>KB</u>	<u>ESTIMATED BASE OF MSGW*</u>	<u>DEPTH IN WELLBORE</u>	<u>SURFACE CASING</u>	<u>DEPTH SAND(S)</u>	<u>BHT</u>	<u>R_{mf}</u>	<u>R₂₀ R_f</u>	<u>R_w</u>	<u>TDS</u>
#2-15GR	4882	4574 or higher	308'	190'	230' 308'	64' 65'	.048 .047	⁴ / ₆ ^{3.9} / ₁₀	.072 .080	125,000 105,000
#5-15GR	4838	4574	264'	206'	298'	65'	.051	¹² / ₂₀	.085	95,000
#6-15GR	4808	4574	234'	192'	256'	64'	.073	⁸ / ₁₂	.110	72,000
#14-16GR	4881	4574	307'	209'	307'	65'	.052	¹⁰ / ₁₆	.083	100,000
#1-22-9-20GR*	4905	4574	331'	213'	287'	65'	.082	²⁰ / ₂₉	.119	68,000

* This well has an SP curve. There appears to be positive deflection of the SP curve (to the right), indicating that the mud filtrate is saltier than the formation water, which is the case. Also, the R_w calculated from the SP method agrees with the R_w calculated from the resistivity ratio method. There are no other zones in the Uintah or Upper Green River that exhibit significant SP deflection.

intervals may have a total thickness, including both permeable and intervening relatively impermeable beds, of as much as several hundred feet.

The Duchesne River Formation apparently contains mostly fresh water. Of 63 analyses, only 4 in U(C-1-2)28 indicated saline to briny water of sodium chloride type, and only 1 indicated slightly to moderately saline water of sodium sulfate type water. Thirty-two analyses were of calcium magnesium bicarbonate carbonate water; 7, calcium magnesium sulfate water; and 17, sodium bicarbonate water. The information available was insufficient to determine areal or vertical distribution of water types.

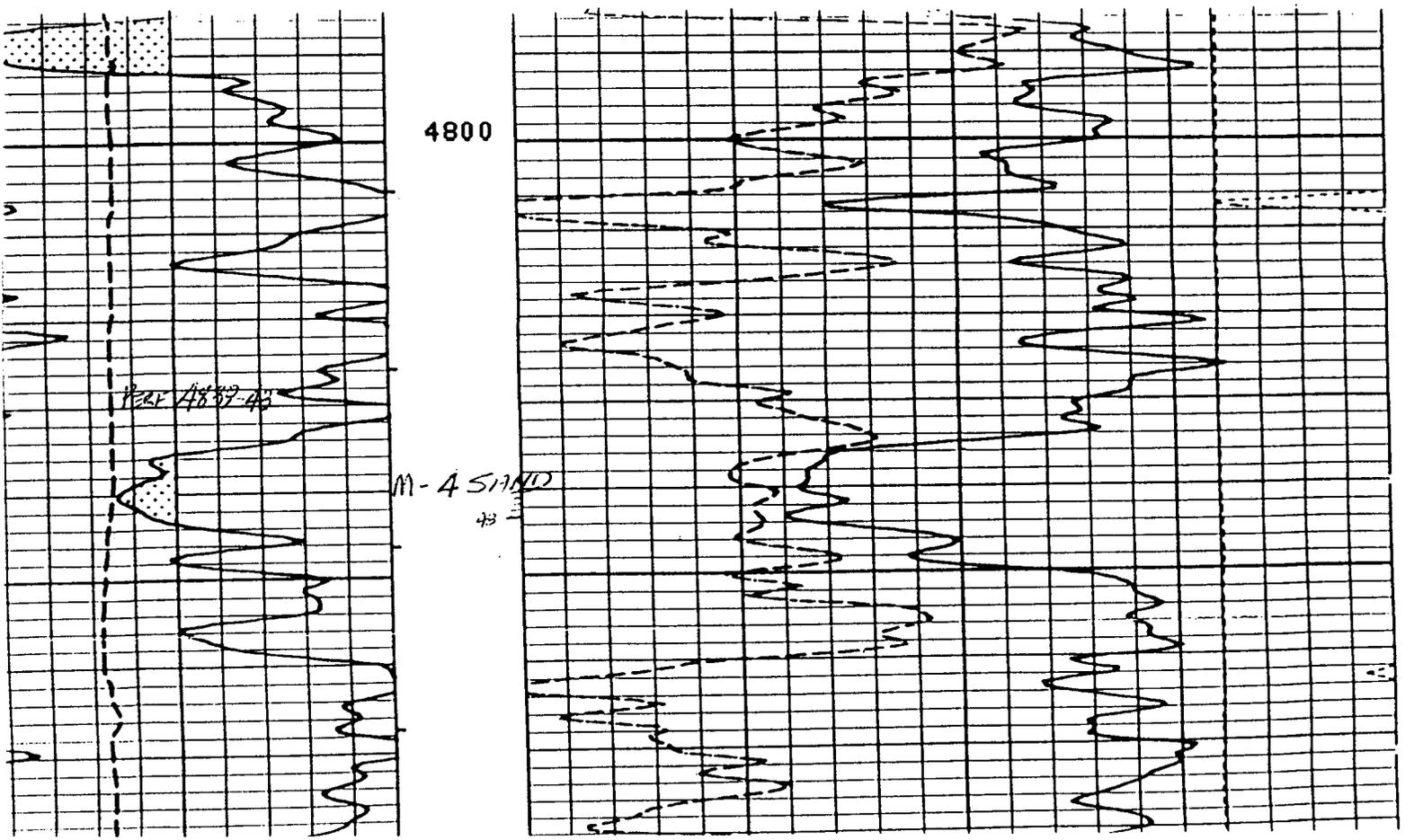
Much of the Uinta Formation contains fresh to moderately saline water except within the area underlain by the mounds of very saline to briny water (pls. 1 and 2). Within those areas, the Uinta Formation generally contains fresh to moderately saline water where it is within 3,000 to 5,000 feet of the land surface except over the highest parts of the mounds. About one-third of the analyses were of sodium bicarbonate type water, about one-fifth each were calcium magnesium bicarbonate, calcium magnesium sulfate, and sodium sulfate type water; the rest of the analyses indicated sodium chloride type water. Again, no areal or vertical pattern of distribution of water types was discerned except that the greater the depth of the interval sampled, the greater the probability that the water is of sodium chloride type, that between Myton and Bluebell the water is of calcium magnesium sulfate type, and that in two areas very saline to briny water seemed to occur in northwest to southeast linear or slightly arcuate trends at a shallower depth (900 to 4,000 feet) than elsewhere. These trends, which are sub-parallel to major fracture systems in the basin, run from approximately U(C-3-6)12 through U(C-4-5)14 to U(C-5-4)13 and (D-5-20)13 through (D-6-21)27 toward (D-7-22)14. In the first of these trends, the water is of sodium bicarbonate type to the northwest and sodium chloride type to the southeast, whereas in the second trend all the water is of sodium chloride type.

Where the Green River Formation is within 3,000 feet of the land surface, most of the water is fresh to moderately saline except where the saline facies still contains undissolved evaporite minerals. Within the area underlain by the large mound shown on plate 1 and the northern part of plate 2, the formation contains very saline to briny water to its top. In the area underlain by the large southern mound, shown on plate 2, the Green River Formation commonly is exposed at land surface and contains very saline to briny water to within less than 1,000 feet of land surface only where the crest of the mound is above an altitude of 5,000 feet. Sodium bicarbonate type water is widely distributed, whereas sodium sulfate type water has been reported from only a few areas, all less than 3,000 feet in depth. More than one-third of the analyses of sodium sulfate type water are from springs. Calcium magnesium bicarbonate type water has been reported from a few sites, about one-half of them springs. Calcium magnesium sulfate type water also has been reported from a few places, almost all of them springs. No sodium chloride type water was found above a depth of 2,300 feet (it was found at that depth in U(C-3-5)). This type of water generally is at depths of 6,000 to 10,000 feet in the greater Altamont-Bluebell field and from a depth of almost 8,000 feet in (D-5-20), about 10 miles southwest of Vernal, to about 3,600 feet in the eastern part of the Red Wash field (D-7-24).

ATTACHMENT "G"

The Tertiary Green River "M-4" sand, the proposed injection zone, averages 9.4' in thickness and is found at an average depth of 4810' in the area of the proposed Duck Creek Green River Unit located in Sections 15, 16, 21 and 22, Township 9S, Range 20E, Uintah County, Utah. The "M-4" sand is a light gray, medium to fine grained, poorly sorted sandstone. The "M-4" is overlain by a 40' thick shale and underlain by a thick sequence of interbedded shales and sandstone. Attachment "G-1" is a copy of the #5-16 Density-Neutron log across the "M-4" sand.

No data is available on the confining zones fracture pressure, so the fracture pressure of the "M-4" sand was determined from the ISIP after a frac job on the Natural Duck #2-15GR, the initial injection well in the Duck Creek Waterflood Unit. The ISIP of 2250 psig (Attachment "G-2") results in a gradient of .90 psi/ft. which is consistent with Lomax's operations at the Monument Butte Unit, located in T8S-R16E. It should be noted that there are not any identifiable USDW's in the area of review. Based on this information, Berry Ventures, Inc. hereby requests that the maximum surface injection pressure be based on a .90 gradient, or 2250 psig. After water injection commences, step rate tests will be performed and the surface injection pressure will be limited to 25 psig less than the surface parting pressure (2225 psig). Attachment "G-3" is a produced water analysis from the "M-4" sand in the Natural Duck #1-15, located in the NE SW Section 15-T9S-R20E.



COMPANY BELCO PETROLEUM CORPORATION
 WELL DUCK CREEK 5-16 GR
 FIELD DUCK CREEK
 COUNTY UINTAH STATE UTAH

LOCATION DUCK CREEK 5-16GR
 COMPANY BELCO PET. CORP.

COUNTY UINTAH STATE UTAH
 SW/SE
 API SERIAL NO. 16 TWP. 9S RANGE 20E

Permanent Datum: GL ; Elev.: 4868
 Log Measured From KB ; 12 Ft. Above Perm. Datum
 Drilling Measured From KB

Other Services:
 DLL-GR
 CYBERLOOK

Elev.: K.B. 488
 D.F. 487
 G.L. 486

ATTACHMENT "C" 1

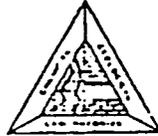
Date	7/30/79				
Run No.	ONE				
Depth-Driller	5095				
Depth-Logger	5098				
Bitm. Log Interval	5092				
Top Log Interval	3070				
Casing-Driller	9 5/8 @ 208	@			@
Casing-Logger	205				
Bit Size	8 3/4				
Type Fluid in Hole	SALT MUD				
Dens.	9.8	29			mi
pH	7.6	10.4	mi		
Fluid Loss					
Source of Sample	MUD TANK				
Rm @ Meas. Temp.	.045 @ 79 °F	@			°F
Rmf @ Meas. Temp.	.045 @ 79 °F	@			°F
Rmc @ Meas. Temp.	-- @ °F	@			°F
Source: Rmf	M				
Rmc					
Rm @ BHT	.032 @ 132 °F	@			°F
Circulation Stopped	0900				
Logger on Bottom	1630				
Max. Rec. Temp.	132				°F
Equip. Location	7674 VERNAL				
Recorded By	GALES				

ATTACHMENT "G-2"

- 7/24/79 Rigged up and ran 4 3/4" bit & csg scraper to 4000' on 2 7/8" Hauled 2 tanks to location.
AFE (completion) \$370,000
Cost to date \$186,211
- 7/25/79 Finish TIH w/bit, csg scraper & 2 7/8" tbg from 4000' to 5012'. Displaced hole w/1/3 cond, 2/3 #2 diesel mixture. POH w/tbg. SDFN
Cost to date \$187,515
- 7/26/79 GO Int ran cement bond logging tool to 4986'. Pressured up to 1000 PSI on csg & logged out of hole. Good bonding from 4986 to top of cement @ 2240'. Press tested csg to 3000' & held for 15 min, OK. Correlated bond log w/Density Neutron, good correlation. Ran perf gun 4 1/2" down hole & shot 6 hole (1/4") from 4830' to 4833' and 10 holes from 4837-4842' w/19 gram DML charges, 1 misfire. POH & ran Otis 5 1/2" MHF pkr and 20 jts. SDFN.
AFE (completion) \$370,000
Cost to date \$198,769
- 7/27/79 No tbg or csg press. TIH tbg & pkr. Set pkr @ 4792'. Set 15,000# on pkr. Swabbed 27 BBLs cond/diesel, hole was dry. Waited one hr and swabbed 1 BBL fluid, caught a sample. Waited 1 1/2 hrs and swabbed 1 1/2 BBLs fluid. In 1 hr swabbed 1/2 BBL. Waited 1 hr, swabbed 1/2 BBL. SDFN. Caught fluid sample. At 7:30 this A.M. small blow, fluid level @ 2000'. Swabbed from 4600'. Flowed 15 BBLs overnight.
AFE (completion) \$370,000 Cost to date \$206,737
- 7/28/79 7:30 A.M. light gas blow. 15 BBLs in 13 hrs. Tagged fluid @ 2000', pulled from 4600'. 8 swab runs in 6 1/2 hrs. 12 SBLs rec. BS&W 4-8%, BS 4-1%
Released pkr, reset @ 4666'. Bottom of tail pipe @ 4697'. HOWCO assembled flow lines & equip, ready to frac @ 4:20 PM. Tested flow lines, repaired 1 small leak & started frac @ 4:37 P.M. Pumped 22,850 gal fluid (1/3 cond, 2/3 diesel, 2 gal/1000 gal Hy-Flo III, 20#/1000 gal Adomite Aqua & 5 gal/1000 gal FR-5). Had to use FR-5 to reduce friction press. FR-5 allowed increase of 5 BPM, 12,000# 20/40 sand & 4000# 10/20 sand in 2 stages. Frac perf 4830-4842', 16 holes
Pumped 2500 gals pad
2000 gals 1/2" 20/40 sand (1000)
2000 gals 1" 20/40 sand (2000)
2000 gals 1 1/2" 20/40 sand (3000)
2000 gals 1" 10/20 sand (1000)
Dropped 6 balls, repeated above then flushed w/1850 gals. ISIP-2250, 5 min SIP-1810, 10 min SIP-1710, 15 min SIP-1620 20 min SIP-1550. Avg rate 15 BPM, avg PSI 4000, Avg HP 1471. Max rate 19 BPM, Max PSI 4220, total sand 16,000#, total fluid 22,850 gals, total BBLs 544. Let press on tbg drop to 600 PSI (7 hrs). Opened to tank & died after producing one ft into tank, 20 BBLs in 1 hr. This A.M. tagged fluid surface, 1 swab run from 2500'. Well started to 60 BBLs in 1 1/2 hrs on 48/64 choke. TP-60, 80 BBLs rec.
AFE (completion) \$370,000
Cost to date \$218,852

ATTACHMENT "G-3"

REV. 1968



CHEM LAB

WATER ANALYSIS EXCHANGE REPORT

MEMBER <u>Belco Petroleum Co.</u>	LAB NO. <u>28345</u>	REPORT NO. _____
OPERATOR <u>Belco Petroleum Co.</u>	LOCATION <u>Sec. 15-9S-20E</u>	
WELL NO. <u>Natural Duck 1-15</u>	FORMATION <u>Green River</u>	
FIELD _____	INTERVAL _____	
COUNTY <u>Uintah</u>	SAMPLE FROM <u>Produced water</u>	
STATE <u>Utah</u>	DATE <u>August 18, 1968</u>	

REMARKS & CONCLUSIONS: _____

Cations	mg/l	meq/l	Anions	mg/l	meq/l
Sodium	6495	282.54	Sulfate	410	8.53
Potassium	80	2.05	Chloride	10700	311.75
Lithium	-	-	Carbonate	-	-
Calcium	464	23.15	Bicarbonate	317	5.20
Magnesium	94	7.73	Hydroxide	-	-
Iron	-	-	Hydrogen sulfide	-	-
Total Cations	315.47		Total Anions	315.47	

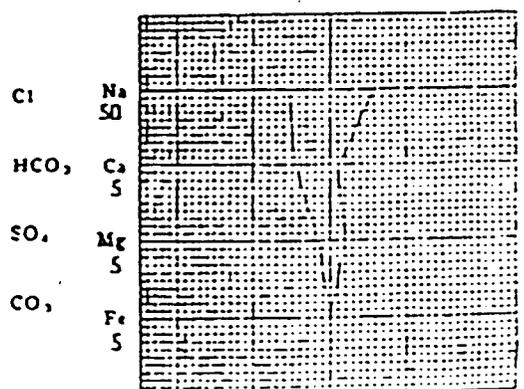
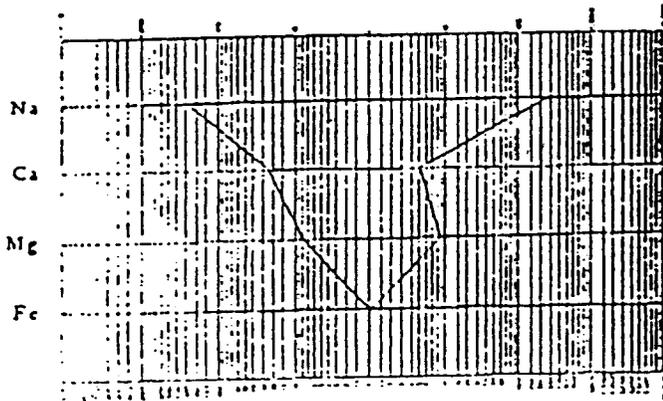
Total dissolved solids, mg/l	18399	Specific resistance @ 65° F.:	
NaCl equivalent, mg/l	18194	Observed	0.37 ohm-meters
Observed pH	7.2	Calculated	0.37 ohm-meters

WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC

STANDARD



ATTACHMENT "H"

The proposed average injection rate into the Natural Duck #5-16GR is 400 BWPD with a potential maximum rate of 600 BWPD. The average daily injection pressure is estimated at 950 psig. The actual pressure required to maintain a 400 BWPD injection rate may be higher or lower. The maximum injection pressure will be limited to 25 psig less than the estimated surface parting pressure of 2250 psig or 2225 psig. After injection commences, step rate tests will be run periodically to more accurately determine the parting pressure. These results will be submitted as they become available.

The casing tubing annulus will be filled with a corrosion inhibited packer fluid. The proposed injection fluid will be water from the Green River H6A and H13A sands (39,664 ppm). Attachment "H-1" is a water analysis of the H6A and H13A sands from the water supply well (#14-16GR), located in the SE SE Section 16-T9S-R20E.



P.O. Box 217
Roosevelt, Utah 84098

Office (801) 722-5066
Fax (801) 722-5727

WATER ANALYSIS REPORT

COMPANY BISHOP PETROLEUM ADDRESS _____ DATE: 9-9-93
SOURCE 14-16 DATE SAMPLED _____ ANALYSIS NO. _____

Sample	Meq/l (ppm)	Meq/l
1. PH	<u>7.8</u>	
2. H ₂ S (Qualitative)	<u>0</u>	
3. Specific Gravity	<u>1.030</u>	
4. Dissolved Solids		<u>39,664</u>
5. Suspended Solids		
6. Anaerobic Bacterial Count	<u>CI</u>	<u>C/MI</u>
7. Methyl Orange Alkalinity (CaCO ₃)		
8. Bicarbonate (HCO ₃)	<u>450</u>	<u>+61</u> <u>7</u> HCO ₃
9. Chlorides (Cl)	<u>20,500</u>	<u>+35.5</u> <u>578</u> Cl
10. Sulfates (SO ₄)	<u>3,600</u>	<u>+48</u> <u>75</u> SO ₄
11. Calcium (Ca)	<u>100</u>	<u>+20</u> <u>5</u> Ca
12. Magnesium (Mg)	<u>41</u>	<u>+12.2</u> <u>4</u> Mg
13. Total Hardness (CaCO ₃)	<u>420</u>	
14. Total Iron (Fe)	<u>1.5</u>	
15. Barium (Qualitative)		
16. Phosphate Residuals		

PROBABLE MINERAL COMPOSITION

Compound	Eqv. wt.	X	Meq/l	Mg/l
Ca (HCO ₃) ₂	81.04		<u>5</u>	<u>405</u>
Ca SO ₄	88.07			
Ca Cl ₂	55.50			
Mg (HCO ₃) ₂	73.17		<u>2</u>	<u>146</u>
Mg SO ₄	80.19		<u>2</u>	<u>120</u>
Mg Cl ₂	47.82			
Na HCO ₃	84.08			
Na SO ₄	71.03		<u>73</u>	<u>5153</u>
Na Cl	88.46		<u>578</u>	<u>33,790</u>

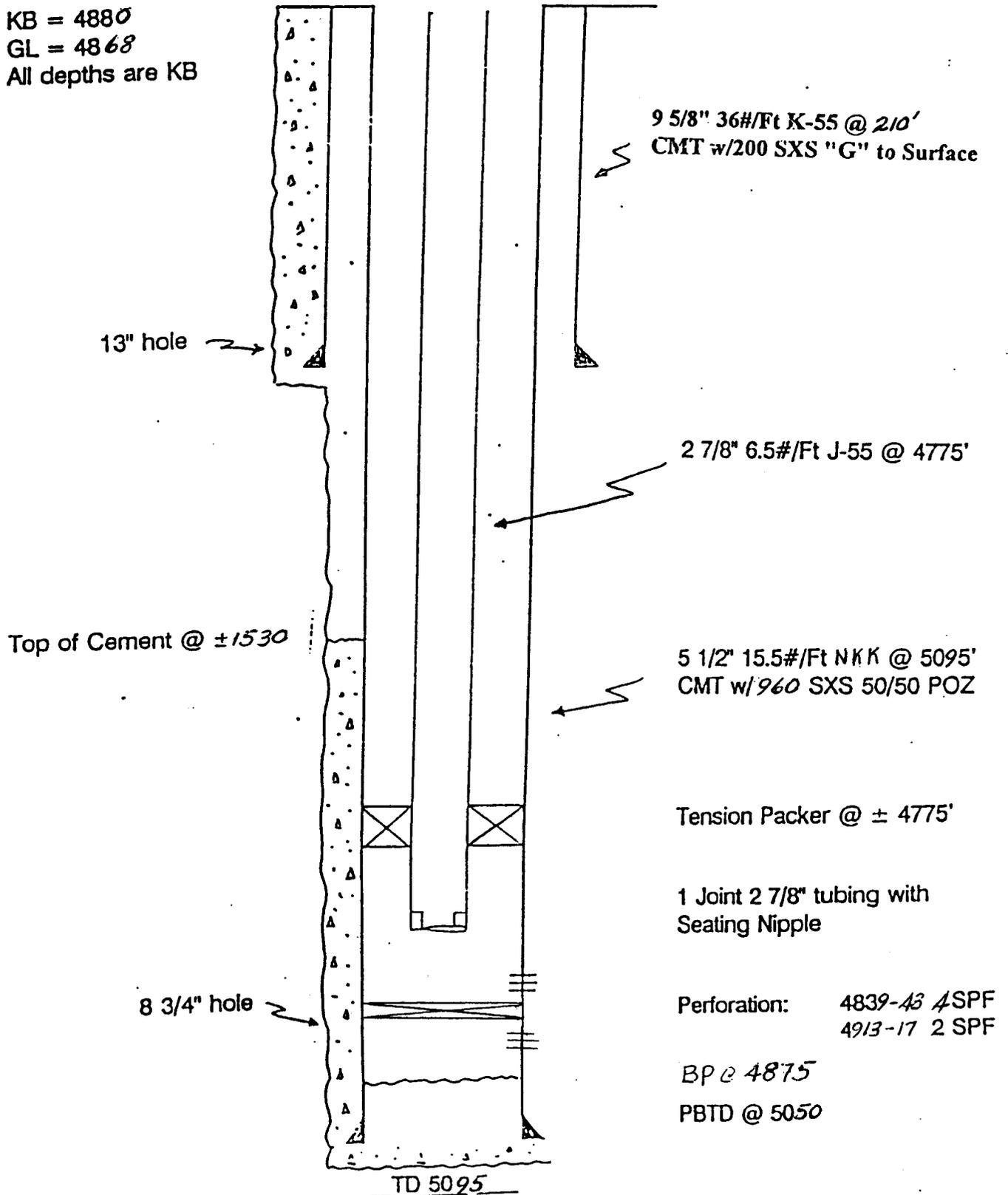
Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2000 Mg/l
Mg CO ₃	103 Mg/l

REMARKS _____

ATTACHMENT "M"

WELLBORE DIAGRAM
NATURAL DUCK #5-16 GR
539 FSL & 2000' FEL
SW SE 16-T9S-R20E
UINTAH COUNTY, UTAH

KB = 4880
GL = 4868
All depths are KB





PLUGGING AND ABANDONMENT PLAN

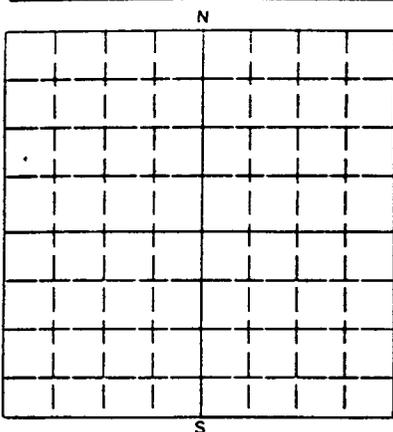
NAME AND ADDRESS OF FACILITY

Natural Duck #5-16GR SWSE 16-T9S-R20E
Duck Creek Green River Unit
Uintah County, Utah

NAME AND ADDRESS OF OWNER OPERATOR

Berry Ventures, Inc.
1580 Lincoln Street, Suite 880
Denver, Colorado 80203

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT - 640 ACRES



STATE

Utah

COUNTY

Uintah

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

SW 1/4 OF SE 1/4 OF 1/4 SECTION 16 TOWNSHIP 9S RANGE 20E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF

SECTION AND DRILLING UNIT

Surface Location 539 ft. from (N/S) S Line of quarter section
and 2000 ft. from (E/W) E Line of quarter section

TYPE OF AUTHORIZATION

- Individual Permit
- Area Permit
- Rul.

Number of Wells 1

Lease Name U-73323

WELL ACTIVITY

- CLASS I
- CLASS II
 - Brine Disposal
 - Enhanced Recovery
 - Hydrocarbon Storage
- CLASS III

Well Number ND 5-16GR

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"			210	13"
5 1/2"			5095	8 3/4"

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- The Balance Method
- The Dump Bailer Method
- The Two-Plug Method
- Other Set CIBP at 4825' & spot 2 sxs cement on top of CIBP

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)	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2" & 9 5/8"		
Depth to Bottom of Tubing or Drill Pipe (ft.)							
Sacks of Cement To Be Used (each plug)	2	10	10	10	32		
Slurry Volume To Be Pumped (cu. ft.)	2.3	12.6	12.6	12.6	12.6		
Calculated Top of Plug (ft.)	4808	2750	750	150	Surface		
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type Cement or Other Material (Class III)	G cement	50/50P07	50/50P07	50/50P07	50/50P07		

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (If any)

From	To	From	To
4839	4843		
4913	4917		

Estimated Cost to Plug Wells

\$7,200.00

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)
John B. Dunnewald, President Bishop
Petroleum - Agent for Berry Ventures, Inc.

SIGNATURE

DATE SIGNED

4/9/95

ATTACHMENT "Q-2"

NATURAL DUCK #5-16GR

P & A PROCEDURE

1. MIRU
2. Kill well with water
3. NU BOP
4. Unseat packer. TOO H w/2 7/8" tubing and packer. Lay down last 65 joints
5. Rig up wireline
6. Set CIBP @ ± 4825
7. Dump 2 sacks "G" cement on top of CIBP
8. Rig down wireline
9. TIH w/tubing to $\pm 2750'$
10. Rig up cementers
11. Spot 10 sack plug 50/50 POZ
12. Pull up to $\pm 750'$
13. Spot 10 sack plug 50/50 POZ
14. Pull up to $\pm 150'$
15. Spot 10 sack plug 50/50 POZ
16. Pull tubing to surface
17. Pump 10 sack plug 50/50 POZ
18. Open casing valve. Pump 22 sack plug down 9 5/8".
19. Rig down cementers
20. VD BOP
21. RD MO
22. Cut casing off 4' below ground level
23. Install dry hole marker
24. Restore location

ATTACHMENT "Q-3"

NATURAL DUCK #5-16GR

P & A COSTS

Rig	\$2000
Cementing	\$2000
Wireline/BIBP	\$1000
BOP	\$ 250
Transportation	\$ 250
Welding/Labor	\$ 250
Supervision	<u>\$ 800</u>
Sub-Total	\$6550
Contingency 10%	<u>\$ 650</u>
TOTAL	\$7200



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

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

August 9, 1995

Vernal Express
P. O. Box 1000
54 North Vernal Avenue
Vernal, Utah 84078

Re: Notice of Agency Action - Cause No. UIC-162

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

Sincerely,

A handwritten signature in cursive script that reads "Lisa D. Clement".

Lisa D. Clement
Administrative Secretary

Enclosure
WOI168





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

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

August 9, 1995

Newspaper Agency Corporation
Legal Advertising
Tribune Building, Front Counter
143 South Main
Salt Lake City, Utah 84111

Re: Notice of Agency Action - Cause No. UIC-162

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

Sincerely,

A handwritten signature in cursive script that reads "Lisa D. Clement".

Lisa D. Clement
Administrative Secretary

Enclosure
WOI168



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

---ooOoo---

IN THE MATTER OF THE APPLICATION	:	NOTICE OF AGENCY ACTION
OF BERRY VENTURES INC.	:	
FOR ADMINISTRATIVE APPROVAL	:	CAUSE NO. UIC-162
OF THE NATURAL DUCK 5-16	:	
WELL LOCATED IN SECTION 16,	:	
TOWNSHIP 9 SOUTH, RANGE 20 EAST,	:	
S.L.M., UINTAH COUNTY, UTAH,	:	
AS A CLASS II INJECTION WELL	:	

---ooOoo---

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

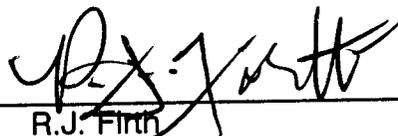
Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of Berry Ventures Inc. for administrative approval of the Natural Duck 5-16 well, located in Section 16, Township 9 South, Range 20 East, Uintah County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The interval from 4839 feet to 4917 feet (Green River Formation) will be selectively perforated for water injection. The maximum requested injection pressure will be limited to 1790 psig with a maximum rate of 1000 BWPD.

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 9th day of August, 1995.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING



R.J. Firth
Associate Director

**Berry Ventures, Inc.
Natural Duck #5-16 Well
Cause No. UIC-162**

Publication Notices were sent to the following:

Newspaper Agency Corporation
Legal Advertising
Tribune Building, Front Counter
143 South Main
Salt Lake City, Utah 84111

Vernal Express
P. O. Box 1000
54 North Vernal Avenue
Vernal, Utah 84078

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

Berry Ventures, Inc.
1580 Lincoln Street, Suite 880
Denver, Colorado 80203

U.S. Environmental Protection Agency
Region VIII
Attn. Tom Pike
999 18th Street
Denver, Colorado 80202-2466



Lisa D. Clement
Administrative Secretary
August 9, 1995

**DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM**

**PERMIT
DECISION DOCUMENT**

Applicant: Berry Ventures Inc. **Well:** Injection Well 5-16

Location: Natural Duck Unit, Duchesne County

Ownership Issues: The proposed well is located in section 16, township 9 south, range 20 east, Uintah, County, Utah. The surface is owned by the Ute Indian Tribe. The minerals are owned by the Federal Government. Lands and minerals within the 1/2 mile radius are owned by State of Utah, the BLM and various private individuals. Berry Ventures has provided an affidavit stating that all interested parties have been notified of their intent to convert the well to injection.

Well Integrity: The well proposed for injection is the Natural Duck 5-16. The well is presently a producing ~~abandoned~~ well. A 9 5/8" surface casing is set at 210 feet and is cemented to surface. A 5 1/2" production casing is set at 5095 feet and has a cement top at 1530 feet verified by a cement bond log. The injection interval is from 4839-4917 feet (Green River Formation). A 2 7/8" tubing will be set in a packer at 4775 feet. This construction should adequately protect all USDW's. There are 4 producing wells, 4 temporarily abandoned wells, 1 injection well, 1 plugged and abandoned well and a 1 water supply well in the 1/2 mile area of review. All wells in the AOR have sufficient cement behind the longstring and have adequate surface casing to prevent any migration of fluid up the hole. A casing test should be performed at the time of conversion and a casing/tubing pressure test should be performed prior to injection. A maximum pressure of 1750 psig was requested, and corresponds to the calculated fracture pressure gradient of .812 psi/ft. A step rate test should be run to determine actual fracture data.

Ground Water Protection: The base of moderately saline water is at a depth of approximately 247 feet located in the Uinta Formation in the area of the project. Any shallow fresh water zones will be adequately protected by existing constructions of surrounding wells. No corrective action is needed.

Oil/Gas & Other Mineral Resources Protection: The proposed unit area seems to be surrounded by wells of low effective porosity, net pay and/or production. Even though the M4 sand can be correlated to wells outside the unit there is probably permeability boundaries which separate them. Refer to hearing transcript for more information.

Bonding: The proposed well is located on indian land and would be bonded by the federal government.

Page 2
Berry Ventures

Actions Taken and Further Approvals Needed: A public notice for the proposed 2-15 injection well has been sent for publication in both the Salt Lake Tribune and the Vernal Express. It is recommended that approval be given to inject into the 2-15 well. An MIT and a step rate test need to be run at the time of conversion. Berry Ventures was notified that they may need a permit from the Division of Water Rights for water withdrawn from the source well for injection.

DJJ
Reviewers

8/10/95
Date

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

Newspaper Agency Corporation
 The Salt Lake Tribune  DESERET NEWS

CUSTOMER'S
 COPY

PROOF OF PUBLICATION

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	
DIV OF OIL, GAS & MINING 355 WEST NORTH TEMPLE 3 TRIAD CENTER #350 SLC, UT 84180	D5385340L-07	08/17/95

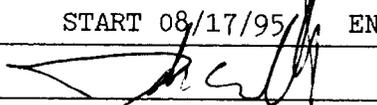
ACCOUNT NAME	
DIV OF OIL, GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TL8E8201201
SCHEDULE	
START 08/17/95 END 08/17/95	
CUST. REF. NO.	
UIC-162	
CAPTION	
NOTICE OF AGENCY ACTION CAUSE N	
SIZE	
69 LINES	1.00 COLUMN
TIMES	RATE
1	1.64
MISC. CHARGES	AD CHARGES
.00	113.16
TOTAL COST	
113.16	

OFFICE COPY

AFFIDAVIT OF PUBLICATION

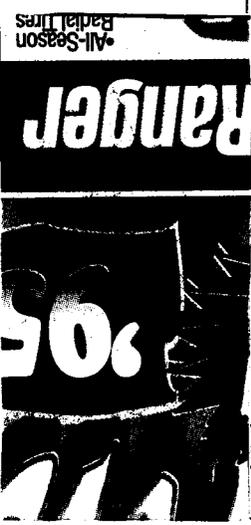
AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF NOTICE OF AGENCY ACTION CAUSE N FOR DIV OF OIL, GAS & MINING WAS PUBLISHED BY THE NEWSPAPER AGENCY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY, IN THE STATE OF UTAH.

PUBLISHED ON START 08/17/95 END 08/17/95

SIGNATURE 

DATE 08/17/95

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
 PLEASE PAY FROM BILLING STATEMENT.



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  DESERET NEWS

CUSTOMER'S
 COPY

PROOF OF PUBLICATION

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	
DIV OF OIL, GAS & MINING 355 WEST NORTH TEMPLE 3 TRIAD CENTER #350 SLC, UT 84180	D5385340L-07	08/17/95

ACCOUNT NAME	
DIV OF OIL, GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TL8E8201201
SCHEDULE	
START 08/17/95 END 08/17/95	
CUST. REF. NO.	
UIC-162	
CAPTION	
NOTICE OF AGENCY ACTION CAUSE N	
SIZE	
69 LINES 1.00 COLUMN	
TIMES	RATE
1	1.64
MISC. CHARGES	AD CHARGES
.00	113.16
TOTAL COST	
113.16	

NOTICE OF AGENCY ACTION
 CAUSE NO. UIC-162
 BEFORE THE DIVISION OF
 OIL, GAS AND MINING
 DEPARTMENT OF NATURAL
 RESOURCES, STATE OF UTAH

IN THE MATTER OF THE APPLI-
 CATION OF BERRY VENTURES, INC.
 FOR ADMINISTRATIVE APPROVAL
 OF THE NATURAL DUCK 5-16 WELL
 LOCATED IN SECTION 16, TOWNSHIP
 9 SOUTH, RANGE 20 EAST,
 S.L.M., UTAH COUNTY, UTAH, AS
 A CLASS II INJECTION WELL.

THE STATE OF UTAH TO ALL PER-
 SONS INTERESTED IN THE ABOVE
 ENTITLED MATTER.

Notice is hereby given that
 the Division is commencing an
 informal adjudicative proceed-
 ing to consider the application
 of Berry Ventures, Inc. for admin-
 istrative approval of the Natural
 Duck 5-16 well, located in Sec-
 tion 16, Township 9 South,
 Range 20 East, Utah County,
 Utah, for conversion to a Class II
 injection well. The proceeding
 will be conducted in accord-
 ance with Utah Admin. R.649-
 10, Administrative Procedures.

The interval from 4839 feet
 to 4917 feet (Green River For-
 mation) will be selectively per-
 forated for water injection. The
 maximum requested injection
 pressure will be limited to 1790
 psig with a maximum rate of
 1000 BWPD.

Any person desiring to object
 to the application or otherwise
 intervene in the proceeding,
 must file a written protest or no-
 tice of intervention with the Divi-
 sion within fifteen days follow-
 ing publication of this notice. If
 such a protest or notice of inter-
 vention is received, a hearing
 will be scheduled before the
 Board of Oil, Gas and Mining.
 Protestants and/or intervenors
 should be prepared to demon-
 strate at the hearing how this
 matter affects their interests.

DATED this 9th day of August,
 1995.

STATE OF UTAH
 DIVISION OF OIL, GAS AND
 MINING
 /s/ R.J. Firth
 Associate Director
 8E820120

AFFIDAVIT OF PUBLICATION

I, _____, NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY THAT THE ATTACHED
 ADVERTISEMENT OF NOTICE OF AGENCY ACTION CAUSE N _____ 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 CIRCULATION IN UTAH, AND PUBLISHED
 IN SALT LAKE CITY, SALT LAKE COUNTY, IN THE STATE OF UTAH.

PUBLISHED ON _____ START 08/17/95 END 08/17/95

SIGNATURE _____

DATE 08/17/95

OFFICE COPY

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
 PLEASE PAY FROM BILLING STATEMENT.

PROOF OF PUBLICATION

STATE OF UTAH,

} ss.

County of Uintah

I, Melanie Morrison,
being duly sworn, depose and say, that I
am the Business Manager of The Vernal
Express, a weekly newspaper of general
circulation, published each week at Vernal,
Utah, that the notice attached hereto was
published in said newspaper

for 1 publications,

the first publication having been made on

the 16th day of August, 1995 and the last

on the 16th day of August, 1995, that

said notice was published in the regular
and entire issue of every number of the
paper during the period and times of
publication, and the same was published in
the newspaper proper and not in a
supplement.

By.....*Melanie Morrison*.....
Manager

Subscribed and sworn to before me, this
16th day of August A.D. 1995.

Jack P. Stalls.....
Notary Public, Residence, Vernal, Utah

**NOTICE OF
AGENCY ACTION
CAUSE NO. UIC-162
BEFORE THE
DIVISION OF OIL,
GAS AND MINING
DEPARTMENT OF
NATURAL
RESOURCES
STATE OF UTAH**

**IN THE MATTER OF
THE APPLICATION OF
BERRY VENTURES,
INC. FOR ADMINIS-
TRATIVE APPROVAL
OF THE NATURAL
DUCK 5-16 WELL LO-
CATED IN SECTION
16, TOWNSHIP 9
SOUTH, RANGE 20
EAST, S.L.M., UINTAH
COUNTY, UTAH, AS A
CLASS II INJECTION
WELL**

**THE STATE OF
UTAH TO ALL PER-
SONS INTERESTED IN
THE ABOVE ENTI-
TLED MATTER.**

Notice is hereby given
that the Division is com-
mencing an informal ad-
judicative proceeding to
consider the application
of Berry Ventures, Inc.
for administrative ap-
proval of the Natural
Duck 5-16 well, located
in Section 16, Township
9 South, Range 20 East,
Uintah County, Utah, for
conversion to a Class II
injection well. The pro-
ceeding will be conduct-

ed in accordance with
Utah Admin. R.649-10,
Administrative Proce-
dures.

The interval from 4839
feet to 4917 feet (Green
River Formation) will be
selectively perforated for
water injection. The max-
imum requested injection
pressure will be limited
to 1790 psig with a maxi-
mum rate of 1000 BW-
PD.

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 publica-
tion of this notice. If such
a protest or notice of in-
tervention is received, a
hearing will be scheduled
before the Board of Oil,
Gas and Mining. Protes-
tants and/or intervenors
should be prepared to
demonstrate at the hear-
ing how this matter af-
fects their interests.

DATED this 9th day of
August, 1995.

STATE OF UTAH
DIVISION OF OIL,
GAS AND MINING
R.J. FIRTH
Associate Director

Published in the Vernal
Express Aug. 16, 1995



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

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

September 7, 1995

Berry Ventures Inc.
1580 Lincoln Street, Suite 880
Denver, Colorado 80203

Re: Natural Duck 5-16 Well, Section 16, Township 9 South, Range 20 East, Uintah 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 Berry Ventures Inc.

Enclosed with this letter is the Underground Injection Control Permit for this well. If you have any questions regarding this approval or the necessary requirements, please contact Dan Jarvis at this office.

Sincerely,

R.J. Firth
Associate Director

ldc

cc: Tom Pike, Environmental Protection Agency
Bureau of Land Management, Vernal





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

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-162

Operator: Berry Ventures Inc.
Well: Natural Duck 5-16
Location: Section 16, Township 9 South, Range 20 East,
Uintah County
API No.: 43-047-30523
Well Type: Enhanced Recovery (waterflood)

Stipulations of Permit Approval

1. Approval for conversion to injection well issued on September 7, 1995.
2. Maximum Allowable Injection Pressure: 1790 psig
3. Maximum Allowable Injection Rate: 1000 bwpd
4. Injection Interval: 4,839 feet to 4917 feet (Green River Formation)

Approved by:

R.J. Firth
Associate Director, Oil and Gas

9/8/95

Date



October 20, 1995

Mr. R. J. Firth
State of Utah, Dept. of Natural Resources
Division of Oil, Gas & Mining
355 W. North Temple, Suite 350
Salt Lake City, Utah 84180-1203

Re: Natural Duck 5-16 Well
Section 16, T9S, R20E
Uintah County, Utah

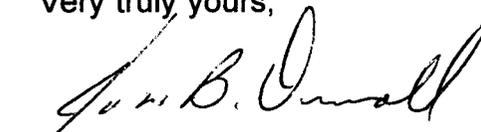
Gentlemen:

Attached for your information and files is a Form 9 pertaining to the conversion of the 5-16 well to an injection well for the Duck Creek Unit Waterflood. Also attached are copies of the data provided to the E.P.A. which includes a Mechanical Integrity Test Report witnessed by the BLM staff from Vernal.

We are currently laying the water injection line to the 5-16 well and would hope to be able to start injection next week.

If there are questions or additional data is needed, please advise.

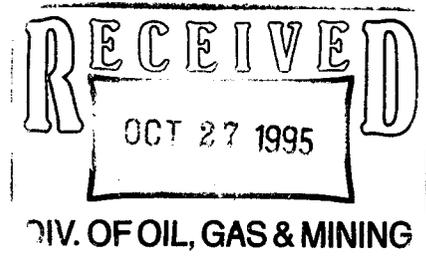
Very truly yours,


John B. Dunnewald
Agent for Berry Ventures

JBD:skb

Enclosures

cc: BLM - Vernal



BISHOP
PETROLEUM
CORPORATION

1580 LINCOLN ST.
SUITE 880
DENVER, COLORADO 80203
OFFICE (303) 863-7800

October 25, 1995

Mr. Gustav Stolz, Jr.
United States Environmental Protection Agency
Denver Place, Suite 500
999 18th St., 8WM-DW
Denver, Colorado 80202-2466

Re: Duck Creek 5-16GR
Permit #UT2757-04237
Pore Pressure Determination

Dear Mr. Stolz:

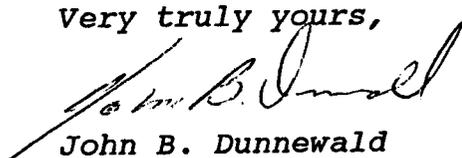
During the course of recompleting the 5-16GR Well as an injector, a fluid level was observed at 1800' with the hole full of KCL water. With the top perforation in the M-4 of the Green River Formation at 4837', and a fluid density of .438 pounds per foot, it is possible to calculate a current bottom hole or pore pressure for the M-4 Sand of 1331 PSI.

Attached for your file is a Well Rework Form 7520-12 for the 5-16 recompletion.

We are currently installing the injection pipeline from the 14-16 to the 5-16 location and hope to be able to start injection before the end of the month.

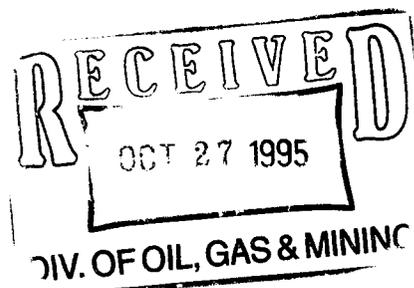
You have previously received a copy of the mechanical integrity test for this well, however, if additional data is required, please advise.

Very truly yours,



John B. Dunnewald
Agent for Berry Ventures

JBD/jag
enclosure



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

6. Lease Designation and Serial Number U 73323
7. Indian Allottee or Tribe Name UTE - Surface
8. Unit or Communitization Agreement UTU 72689A
9. Well Name and Number Duck Creek 5-16 GR
10. API Well Number 43-047-30523
11. Field and Pool, or Wildcat Duck Creek - Green River

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

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other (specify) <u>Water Injection</u>	
2. Name of Operator <u>Berry Ventures Inc.</u>	
3. Address of Operator <u>1580 Lincoln St., Suite 880, Denver, Co. 80203</u>	4. Telephone Number <u>(303) 863-7800</u>
5. Location of Well Footage : <u>539' FSL, 2000' FEL Section 16</u> County : <u>Uintah</u> QQ, Sec, T., R., M. : <u>SW/4SE/4 Section 16, T9S, R20E</u> State : <u>UTAH</u>	

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Other _____	

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

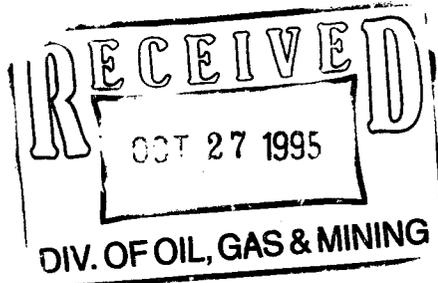
<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input checked="" type="checkbox"/> Shoot or Acidize
<input checked="" type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Other _____	

Date of Work Completion 10/11/95

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.)

10/4/95 to 10/11/95 - Move in rig, set CIBPs at 4870' & 4867' with 2sx cement on top. Top cement @ 4857'. Acidize M-4 sand of Green River formation (4839' - 4843') with 1500 gal 10% HCl. Set injection packer @ 4811', fill annulus with packer fluid and pressure test for mechanical integrity per EPA requirements.



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

Name & Signature John B. Dunnewald Title AGENT FOR BERRY VENTURES Date 10/24/95
(State Use Only)



United States Department of the Interior



BUREAU OF LAND MANAGEMENT

Vernal District Office
170 South 500 East
Vernal, Utah 84078

IN REPLY REFER TO:

Phone (801) 789-1562

FAX (801) 789-9634

MECHANICAL INTEGRITY PRESSURE TEST CASING/TUBING ANNULUS

Lease No. U-38399 Date: 10/11/95
 Company Name: Green Mountain Date: 15.01
 Well Name: Duck Creek 5-16 Permit No. _____
 Field Name: Duck Creek County: Uintan
 Well Location: SWS6 Sec 16 T 950 R 00E
 Well Type: SWD ER X 2H _____ Other: _____
 Type of Packer: Arrowshot 1 Mountain States Total Depth: 4853'
 Packer Set at (depth): 4811' FT
 Surface Casing Size: 8 5/8" (3) From: _____ FT to _____ FT
 Casing Size: 5 1/2" From: _____ FT to _____ FT
 Tubing Size: 2 7/8" @ 4800' Tubing Pressure during Test: 0 psig
 Time of Day: 0800-0900 am/pm
 Fluid in Annulus: Packer fluid (brine water)

2 Aug. 1890 @ 4667' to 15' cont on top

	Test #1	Test #2
0 Min:	<u>890</u> psig	_____ psig
5	<u>↓</u> psig	_____ psig
10	<u>↓</u> psig	_____ psig
15	<u>890</u> psig	_____ psig
20	<u>↓</u> psig	_____ psig
25	<u>↓</u> psig	_____ psig
30	<u>890</u> psig	_____ psig
35	<u>↓</u> psig	_____ psig
40	<u>↓</u> psig	_____ psig
45	<u>890</u> psig	_____ psig
50	<u>↓</u> psig	_____ psig
55	<u>↓</u> psig	_____ psig
60	<u>890</u> psig	_____ psig

Test Conducted by: Western Oil Well Service
 Inspected by: Carol Hubby
 Others Present: ns crew & Packer

RECEIVED
 OCT 27 1995
 DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
U-73323

6. If Indian, Allottee or Tribe Name
Ute Tribal Surface

7. If Unit or CA/Agreement, Name and/or No.
UTU-72689A
Duck Creek Green River Fm.

8. Well Name and No.
Duck Creek 5-16GR

9. API Well No.
43-047-30523

10. Field and Pool, or Exploratory Area
Duck Creek

11. County or Parish, State
Uintah County, Utah

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other Injection

2. Name of Operator
RIM Operating, Inc., as agent for RIM Offshore, Inc.

3a. Address
5 Inverness Dr. E., Englewood, CO 80112

3b. Phone No. (include area code)
(303) 799-9828

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
539' FSL & 2000' FEL, SW/4SE/4
Section 16-T9S-R20E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Change of Operator</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Please be advised that effective February 1, 2000, RIM Operating, Inc., as agent for RIM Offshore, Inc., is now considered to be the operator of the Duck Creek Green River Unit which includes the above well, and is responsible under the terms and conditions of the Lease for the operations conducted upon the leased lands. Bond coverage is provided by BLM Bond No. UT 1148, Surety No. RLB0001427.

RECEIVED

FEB 10 2000

DIVISION OF
~~OIL, GAS AND MINING~~

RIM Operating, Inc.

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

Name (Printed/Typed)
Rene' Morin

Title
Vice President

Signature *Rene' Morin*

Date
2/3/2000

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office _____

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: Duck Creek 5-16GR
Field or Unit name: Duck Creek Green River Unit API no. 43-047-30523
Well location: QQ SWSE section 16 township 9S range 20E county Uintah
Effective Date of Transfer: 2/1/2000

CURRENT OPERATOR

Transfer approved by:

Name John B. Dunnewald Company Berry Ventures, Inc.
Signature [Signature] Address 5764 Fig Way, Suite B-1
Title Agent Arvada, CO 80002
Date _____ Phone (303) 421-6300
Comments:

NEW OPERATOR

Transfer approved by:

Name Rene' Morin Company RIM Operating, Inc.
Signature [Signature] Address 5 Inverness Drive East
Title Vice President Englewood, CO 80112
Date _____ Phone (303) 799-9828
Comments:

(State use only)
Transfer approved by [Signature] Title Field Services Manager
Approval Date 6-7-00

RECEIVED

FEB 10 2000



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

IN REPLY REFER TO
UT-931

February 15, 2000

RIM Operating, Inc.
5 Inverness Drive East
Englewood, Colorado 80112

Re: Duck Creek (Green River) Unit
Uintah County, Utah

Gentlemen:

On February 11, 2000, we received an indenture dated February 1, 2000, whereby Berry Ventures, Inc. resigned as Unit Operator and RIM Operating, Inc. was designated as Successor Unit Operator for the Duck Creek (Green River) Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective February 15, 2000. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Duck Creek (Green River) Unit Agreement.

Your statewide (Utah) oil and gas bond No. 1148 will be used to cover all operations within the Duck Creek (Green River) Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Vernal (w/enclosure)
~~Division of Oil, Gas & Mining~~
Minerals Adjudication Group U-932
File - Duck Creek (Green River) Unit (w/enclosure)
MMS - Data Management Division
Agr. Sec. Chron
Fluid Chron

UT931:TAThompson:tt:2/15/00

RECEIVED

FEB 16 2000

DIVISION OF
OIL, GAS AND MINING

RIM Operating, Inc.

**5 Inverness Drive East
Englewood, CO 80112
303.799.9828
303.799.4259 Fax**

October 29, 2001

**Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801**

**Re: Duck Creek 6-16GR, EPA Permit # UT2888-04587
Natural Duck 8-15 GR, EPA permit # UT2879-04585
Natural Duck 11-21 GR, EPA Permit # UT2823-04378
Duck Creek 5-16 GR, EPA Permit # UT2757-04237
Duck Creek 2-15 GR, EPA Permit # UT2731-03797
Duck Creek Field
Uintah County, Utah**

Dear Sirs:

Please find enclosed the Casing Integrity Test for the above wells. The Duck Creek #5-16 GR well failed its integrity test and was repaired on October 16th, 2001. A hole was found one jt. of tubing and two others where replaced. It will be tested again on November 8th, 2001. If you require any additional information do not hesitate to contact the undersigned. Thank you.

Sincerely,


Kenneth J. Kundrik
Operations Engineer

RECEIVED

OCT 31 2001

**DIVISION OF
OIL, GAS AND MINING**

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 reenter a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.
U-73322

6. If Indian, Allottee or Tribe Name
Northern Ute

7. If Unit or CA, Agreement Designation
Duck Creek Unit UTU-72689A

8. Well Name and No.
Duck Creek #5-16 GR

9. API Well No.
43-047-30523

10. Field and Pool, or Exploratory Area
Duck Creek Unit

11. County or Parish, State
Uintah County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well
Oil Gas
 Well Well Other Water Injection Well

2. Name of Operator
RIM OPERATING, Inc.

3. Address and Telephone No.
5 Inverness Drive East, Englewood Colorado 80112

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
539' FSL & 2000' FEL (SW SE) sec 16-T 9S - R 20E

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Casing Integrity Test
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

13. work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

A casing integrity test was conducted on the above well October 4, 2001. The initial pressure was 1900 psi and declined to 1450 psi in 2 minutes. The pressure chart is attached. The test failed. The well was repaired on October 16, 2001. One joints of tubing was found to have holes and two other joints weak and replaced. Another integrity test will be conducted on November 8, 2001.

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

Signed Kenneth J Kundrik Title Operations Engineer Date 10/25/01

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

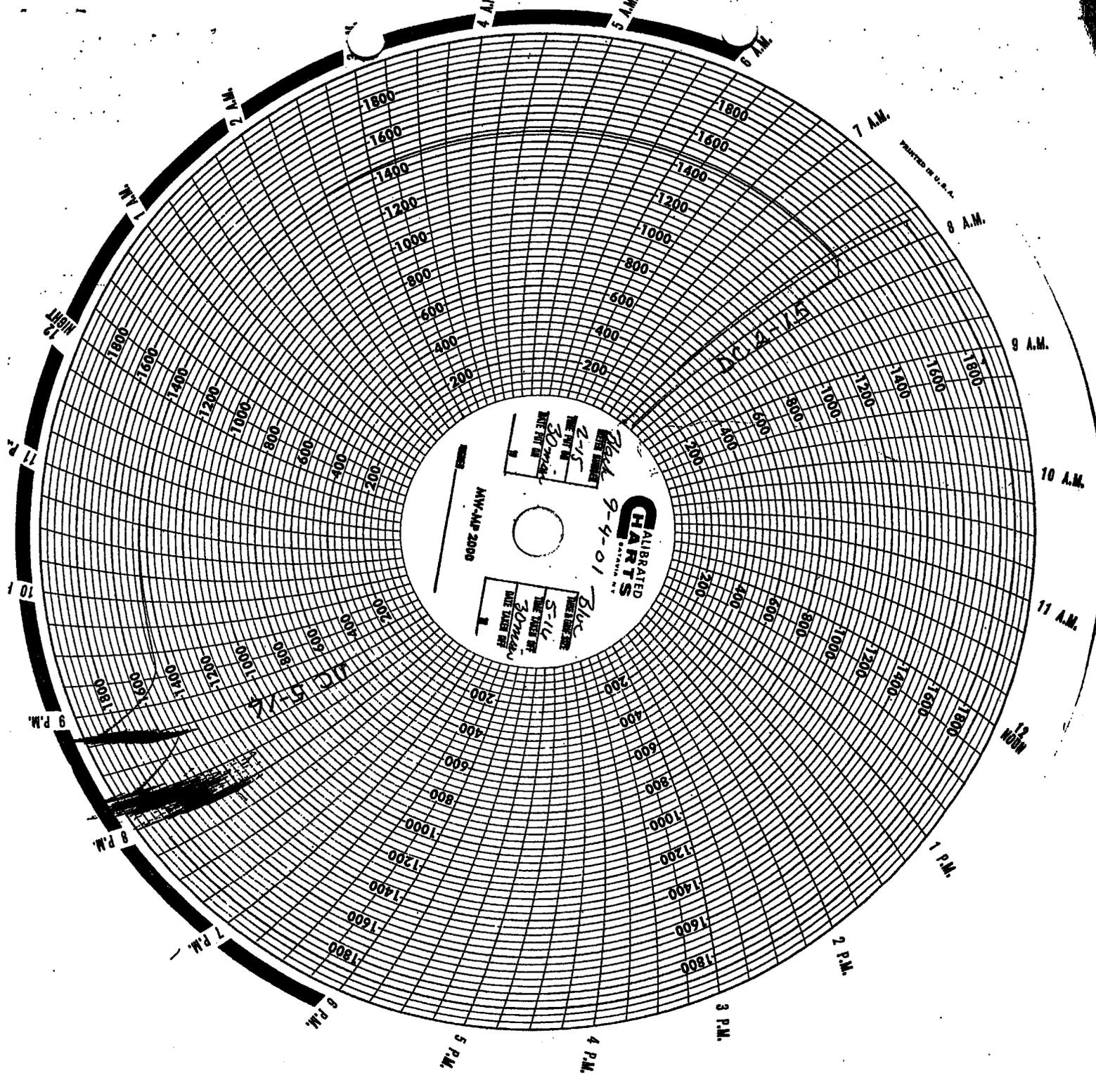
Conditions of approval, if any: _____

RECEIVED
OCT 31 2001

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 Instructions on Reverse Side

DIVISION OF
OIL, GAS AND MINING

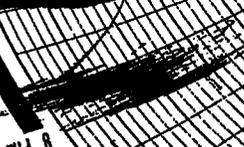


CALIBRATED
CHARTS
ANY-MAP 2000

Blk 9-4-01

2-15
THE TIDE
DATE 2-15-41

5-14
THE TIDE
DATE 5-14-41



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 reenter a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No. U-73320
6. If Indian, Allottee or Tribe Name Northern Ute
7. If Unit or CA, Agreement Designation Duck Creek Unit UTU-72689A
8. Well Name and No. Duck Creek #5-16 GR
9. API Well No. 43-047-30523
10. Field and Pool, or Exploratory Area Duck Creek Unit
11. County or Parish, State Uintah County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other Water Injection Well

2. Name of Operator
RIM OPERATING, Inc.

3. Address and Telephone No.
5 Inverness Drive East, Englewood Colorado 80112

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
539' FSL & 2000' FEL (SW SE) sec 16-T 9S - R 20E

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <u>Casing Integrity Test</u> <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>
	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water

13. work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.*

A casing integrity test was conducted on the above well November 8, 2001. The initial pressure was 1810 psi and had no decline. The pressure chart is attached.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**

RECEIVED

DEC 12 2001

DIVISION OF
OIL, GAS AND MINING

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

Signed Kenneth J Kundrik Kenneth J Kundrik Title Operations Engineer Date 12/10/01

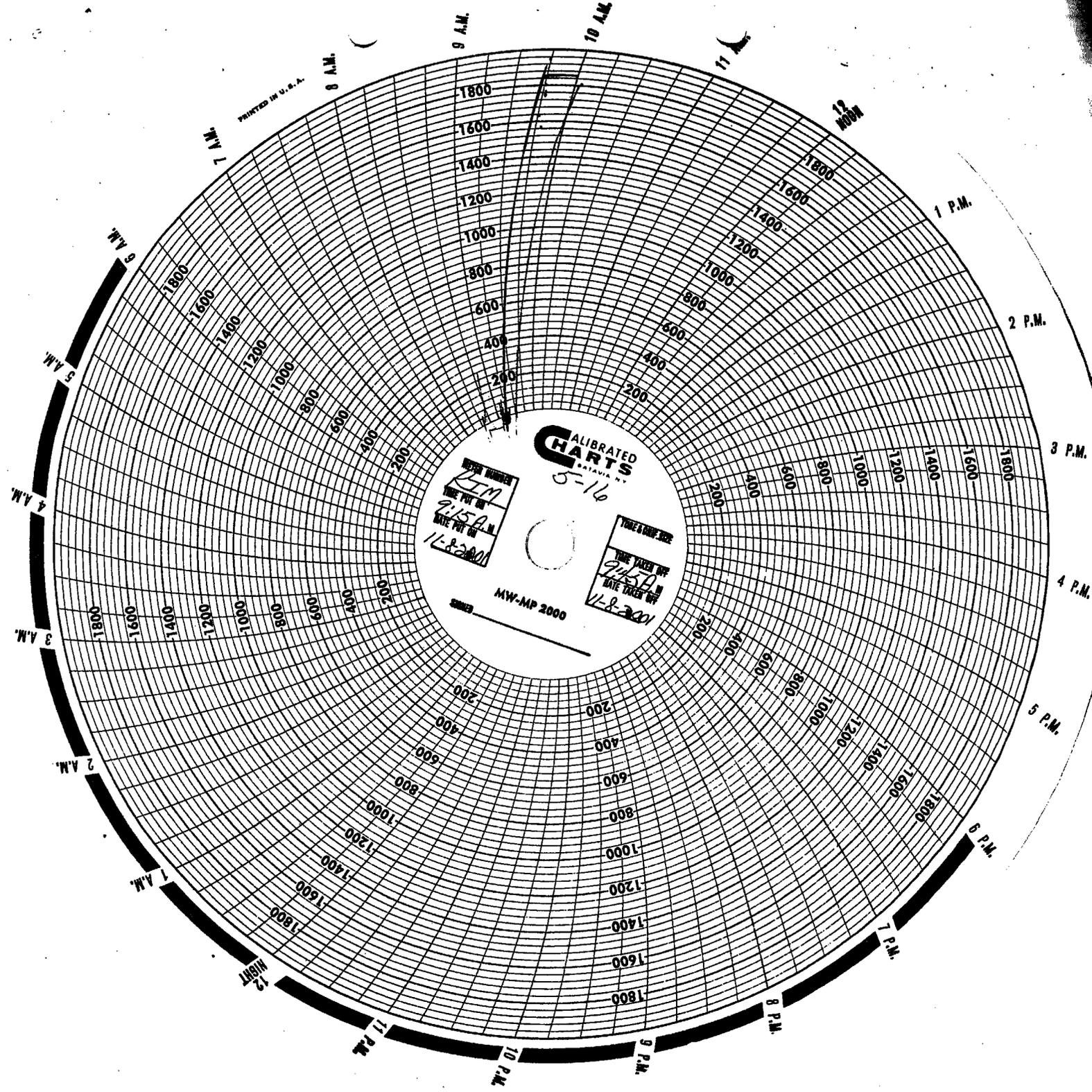
(This space for Federal or State office use)

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.

PRINTED IN U.S.A.



CALIBRATED
CHARTS
BALTIMORE, MD

TEST NUMBER
215
TIME TAKEN BY
2:15 P.M.
DATE TAKEN BY
11-8-30

5-16

TIME & DATE TAKEN
TIME TAKEN BY
2:15 P.M.
DATE TAKEN BY
11-8-30

MW-MP 2000

DEC - 3 2001

Mechanical Integrity Pressure Test Casing-Tubing Annulus

Lease No.: U-0144869
 Company Name: REM LLC Date: 11-8-2001
 Well Name: 5-1166R Permit No.: _____
 Field Name: DUCK CREEK County: UINTAH
 Well Location: SE/SE Sec. 14 Twp. T9S Rge. 30E
 Well Type: SWD: _____ ER: _____ Other: _____
 Type Packer: _____ Packer Set @: _____
 Total Depth: _____ PBTB: _____
 Surface Casing: Size: _____ Set @: _____ TO _____
 Production Casing: Size: _____ Set @: _____ TO _____
 Tubing: _____
 Perforation: _____ Formation: _____
 Time of Day: 9:45 A.M. AM PM
 Fluid In Annulus: WATER

Test		Test	
Time (min)	Psig	Time (min)	Psig
0	1810	0	_____
5	1810	5	_____
10	1810	10	_____
15	1810	15	_____
20	1810	20	_____
25	1810	25	_____
30	1810	30	_____
35	_____	35	_____
40	_____	40	_____
45	_____	45	_____
55	_____	55	_____
60	_____	60	_____

Test Conducted by: REM LLC; J
 Inspected by: _____
 Witnessed by: GARY T FUECKEBERG

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
U-73323

6. If Indian, Allottee, or Tribe Name
Ute Tribal Surface

SUBMIT IN TRIPLICATE - Other Instructions on page 2.

1. Type of Well
 Oil Well Gas Well Other Inj

7. If Unit or CA/Agreement, Name and/or No.
UTU-72689A Duck Creek Green River Unit

8. Well Name and No.
Duck Creek 5-16GR

2. Name of Operator
Finley Resources, Inc.

9. API Well No.
43-047-30523

3a. Address 1308 Lake Street
Fort Worth, TX 76102

3b. Phone No. (include area code)
817-336-1924

10. Field and Pool, or Exploratory Area
Duck Creek

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
539' FSL & 2000' FEL
SWSE Sec 16-T9S-R20E

11. County or Parish, State
Uintah County, UT

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/ Resume)	<input type="checkbox"/> Water Shut-off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Change</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon	<u>of Operator</u>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

Please be advised that effective January 1, 2014, Finley Resources, Inc. assumed operatorship of the referenced well. Bond coverage pursuant to 43CFR3104 for lease activities is being provided by Finley Resources, Inc. under their Federal BLM Bond No. UTB000305. They will be responsible for compliance under the lease terms and conditions.

RIM Operating, Inc., the previous operator, hereby names Finley Resources, Inc. as successor operator effective January 1, 2014.

RIM Operating, Inc.


Rene Morin
Vice President

RECEIVED

FEB 18 2014

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct. Name (Printed Typed)
Finley Resources, Inc. Title Clinton H. Koerth
VP of Land & Acquisition
Signature  Date 2/4/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office **APPROVED**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

AUG 04 2014

DIV. OIL GAS & MINING
BY: 

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING
 CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

1/1/2014

FROM: (Old Operator): RIM Operating, Inc. N1045 5 INVERNESS DR E ENGLE WOOD CO 80112 303-799-9828	TO: (New Operator): Finley Resources, Inc. N3460 1308 LAKE STREET FORT WORTH TX 76102 817-336-1924
--	--

CA No. **Unit:** **Duckcreek**

WELL NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List						

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 2/18/2014
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 2/18/2014
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 8/4/2014
- 4a. Is the new operator registered in the State of Utah: Business Number: 7409151-0143
- 5a. (R649-9-2)Waste Management Plan has been received on: Yes
- 5b. Inspections of LA PA state/fee well sites complete on: N/A
- 5c. Reports current for Production/Disposition & Sundries on: 6/1/2014
- 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 Not Yet BIA N/A
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: Not Yet
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** 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: N/A

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 8/4/2014
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 8/4/2014
- Bond information entered in RBDMS on: 8/4/2014
- Fee/State wells attached to bond in RBDMS on: 8/4/2014
- Injection Projects to new operator in RBDMS on: N/A
- Receipt of Acceptance of Drilling Procedures for APD/New on: N/A
- Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: N/A

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: UTB000305
- 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 RLB0011264
RLB0015635-
FCB
DT B0015636
- 3b. The **FORMER** operator has requested a release of liability from their bond on: 4/18/2014

LEASE INTEREST OWNER NOTIFICATION:

- (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: N/A

COMMENTS:

RIM Operating, Inc. N1045 to Finley Resources, Inc. N3460 Effective 1/1/2014

Well Name	Section	TWN	RNG	API Number	Entity	Mineral Lease	Well Type	Well Status	Unit
DUCKCREEK 3-16GR	16	090S	200E	4304730476	11631	Federal	WS	A	DUCK CREEK (GRRV)
DUCKCREEK 5-16GR	16	090S	200E	4304730523	11631	Federal	WI	A	DUCK CREEK (GRRV)
DUCKCREEK 6-16GR	16	090S	200E	4304730540	11631	Federal	WI	A	DUCK CREEK (GRRV)
NATURAL DUCK 2-15	15	090S	200E	4304730555	11631	Federal	WI	A	DUCK CREEK (GRRV)
NATURAL DUCK 8-15	15	090S	200E	4304730679	11631	Federal	WI	A	DUCK CREEK (GRRV)
NATURAL DUCK 11-21	21	090S	200E	4304730770	11631	Federal	WI	A	DUCK CREEK (GRRV)
NATURAL DUCK 1-15	15	090S	200E	4304730393	11631	Federal	OW	P	DUCK CREEK (GRRV)
NATURAL DUCK 6-15	15	090S	200E	4304730647	11631	Federal	OW	P	DUCK CREEK (GRRV)
DUCKCREEK 15-16GR	16	090S	200E	4304730649	11631	Federal	OW	P	DUCK CREEK (GRRV)
DUCKCREEK 18-16GR	16	090S	200E	4304730655	5000	Federal	GW	P	
NATURAL DUCK 12-21	21	090S	200E	4304730771	11631	Federal	OW	P	DUCK CREEK (GRRV)
DUCKCREEK 26-8GR	8	090S	200E	4304730784	10734	Federal	OW	P	
NATURAL DUCK 3-15	15	090S	200E	4304730556	11631	Federal	OW	S	DUCK CREEK (GRRV)
NATURAL DUCK 4-21	21	090S	200E	4304730557	11631	Federal	OW	S	DUCK CREEK (GRRV)
DUCKCREEK 11-16GR	16	090S	200E	4304730626	11631	Federal	OW	S	DUCK CREEK (GRRV)
NATURAL DUCK 5-15	15	090S	200E	4304730646	11631	Federal	OW	S	DUCK CREEK (GRRV)
DUCKCREEK 14-16GR	16	090S	200E	4304730652	11631	State	OW	S	DUCK CREEK (GRRV)
DUCKCREEK 16-16GR	16	090S	200E	4304730653	11631	State	OW	S	DUCK CREEK (GRRV)
NATURAL DUCK 9-15	15	090S	200E	4304730680	11631	Federal	OW	S	DUCK CREEK (GRRV)
NATURAL DUCK 10-21	21	090S	200E	4304730769	11631	Federal	OW	S	DUCK CREEK (GRRV)
COGC 1-22-9-20	22	090S	200E	4304730923	11631	Federal	OW	S	DUCK CREEK (GRRV)
NBU 34Y	21	090S	200E	4304730509	11631	Federal	OW	TA	DUCK CREEK (GRRV)