

FILE NOTATIONS

Entered in MID File ✓
Location Map Pinned ✓
Card Indexed ✓

Checked by Chief *A*
Approval Letter *1-23-75*
Disapproval Letter

COMPLETION DATA:

Date Well Completed *4-10-75*
W..... WW..... TA.....
SW..... OS..... PA.....

Location Inspected ..
Bond released
State or Fee Land ..

LOGS FILED

Driller's Log.....
Electric Logs (No.) ✓
..... Dual Plot..... GR-N..... Micro.....
..... Sonic GR..... Lat..... MI-L..... Sonic.....
CBLog..... CCLog..... Others.....

THE STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

Exhibit "D-1"

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Disposal Well SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR MAPCO Inc.		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR Suite 320 Plaza West 1537 Avenue D, Billings, Montana 59102		8. FARM OR LEASE NAME Allred
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface NE NE (470.45' FNL & 1292.05' FEL) At proposed prod. zone Section 16, T. 1 S., R. 3 W., USM Duchesne County, Utah		9. WELL NO. WDW 2-16
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 5 miles N.E. Altamont		10. FIELD AND POOL, OR WILDCAT Altamont
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. line, if any) 470.45'	16. NO. OF ACRES IN LEASE 120	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 16 T. 1 S., R. 3 W., USM
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 238.9'	19. PROPOSED DEPTH 4600'	12. COUNTY OR PARISH Duchesne
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6315' G.L.		13. STATE Utah
17. NO. OF ACRES ASSIGNED TO THIS WELL 640		20. ROTARY OR CABLE TOOLS Rotary
22. APPROX. DATE WORK WILL START* February 20, 1975		

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"	Mixed	300'	As required
8-3/4"	7"	23#	4600'	As required

This well will be drilled from surface to total depth with rotary drilling equipment, including 3000 psi BOP assembly and any other required equipment. The casing will be pressure tested in order to protect oil, gas, and fresh water resources.

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 *J. D. Holliman* TITLE Manager of Operations Northern District DATE January 14, 1975
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

THE STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

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 Disposal Well SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 MAPCO Inc.

3. ADDRESS OF OPERATOR
 Suite 320 Plaza West
 1537 Avenue D, Billings, Montana

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface: NE NE (852.81' FNL & 1196.74' FEL)
 At proposed prod. zone: Section 35, T. 1 S., R. 5 W., USM
 Duchesne County, Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 7 miles west of Altamont

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. line, if any) 852.81

16. NO. OF ACRES IN LEASE 40

17. NO. OF ACRES ASSIGNED TO THIS WELL 640

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 183'

19. PROPOSED DEPTH 4650'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6796' G.L.

22. APPROX. DATE WORK WILL START*
 January 22, 1975

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Birch

9. WELL NO.
 WDW 2-35

10. FIELD AND POOL, OR WILDCAT
 Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Section 35
 T. 1 S., R. 5 W., USM

12. COUNTY OR PARISH 13. STATE
 Duchesne Utah

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"	Mixed	300'	As required
8-3/4"	7" & 7-5/8"	Mixed	4650'	As required

This well will be drilled from surface to total depth with rotary drilling equipment, including 3000 psi BOP assembly and any other required equipment. The casing will be pressure tested in order to protect oil, gas, and fresh water resources.

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24. SIGNED J. D. Holliman TITLE Manager of Operations Northern District DATE January 14, 1975

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

THE STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

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 1537 Avenue D, Billings, Montana

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 At surface NE NE (852.81' FNL & 1196.74' FEL)
 At proposed prod. zone Section 35, T. 1 S., R. 5 W., USM
 Duchesne County, Utah

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8. FARM OR LEASE NAME
 Birch

9. WELL NO.
 WDW 2-35

10. FIELD AND POOL, OR WILDCAT
 Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Section 35
 T. 1 S., R. 5 W., USM

12. COUNTY OR PARISH
 Duchesne

13. STATE
 Utah

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"	Mixed	300'	As required
8-3/4"	7" & 7-5/8"	Mixed	4650'	As required

This well will be drilled from surface to total depth with rotary drilling equipment, including 3000 psi BOP assembly and any other required equipment. The casing will be pressure tested in order to protect oil, gas, and fresh water resources.

APPROVED BY DIVISION OF OIL & GAS CONSERVATION

DATE JAN 23 1975

BY *C. B. [Signature]*

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 J. D. Holliman TITLE Manager of Operations Northern District DATE January 14, 1975
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Schlumberger

DUAL INDUCTION LOGGING
WITH LINEAR CORRELATION LOG

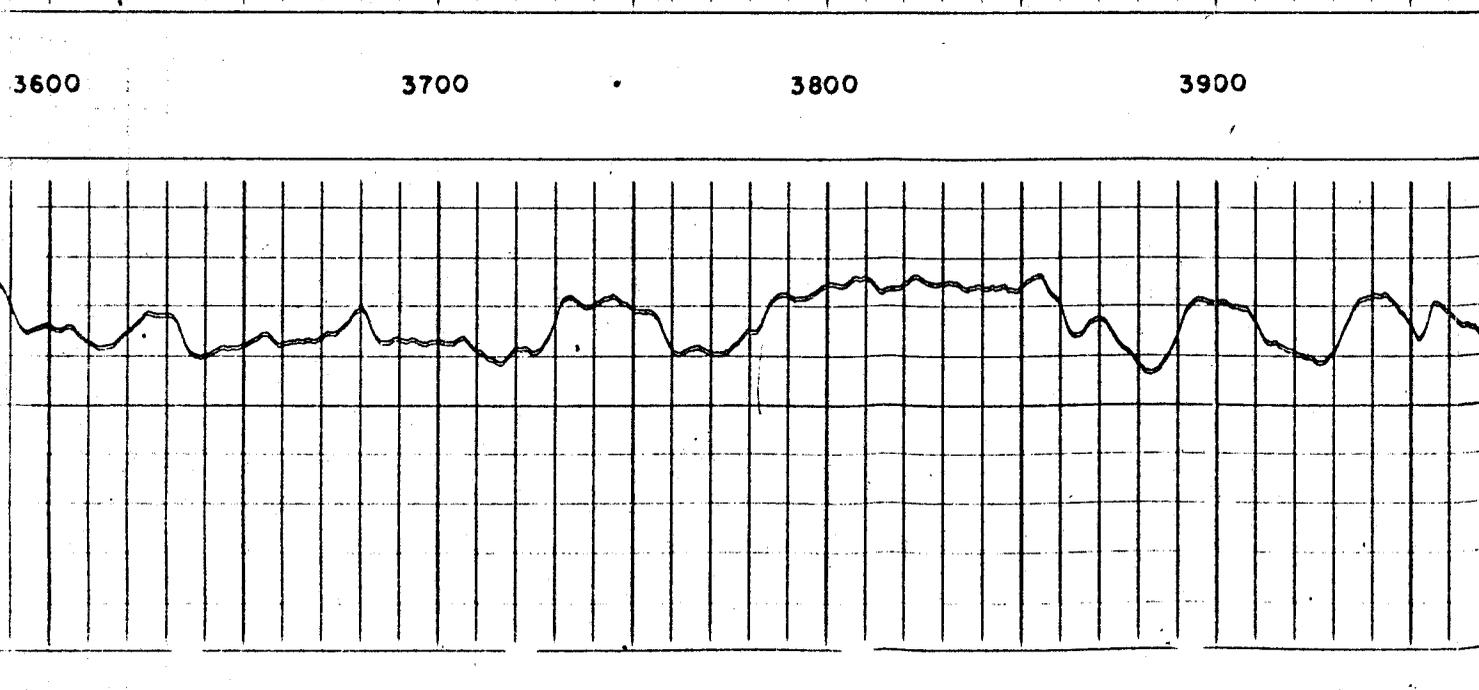
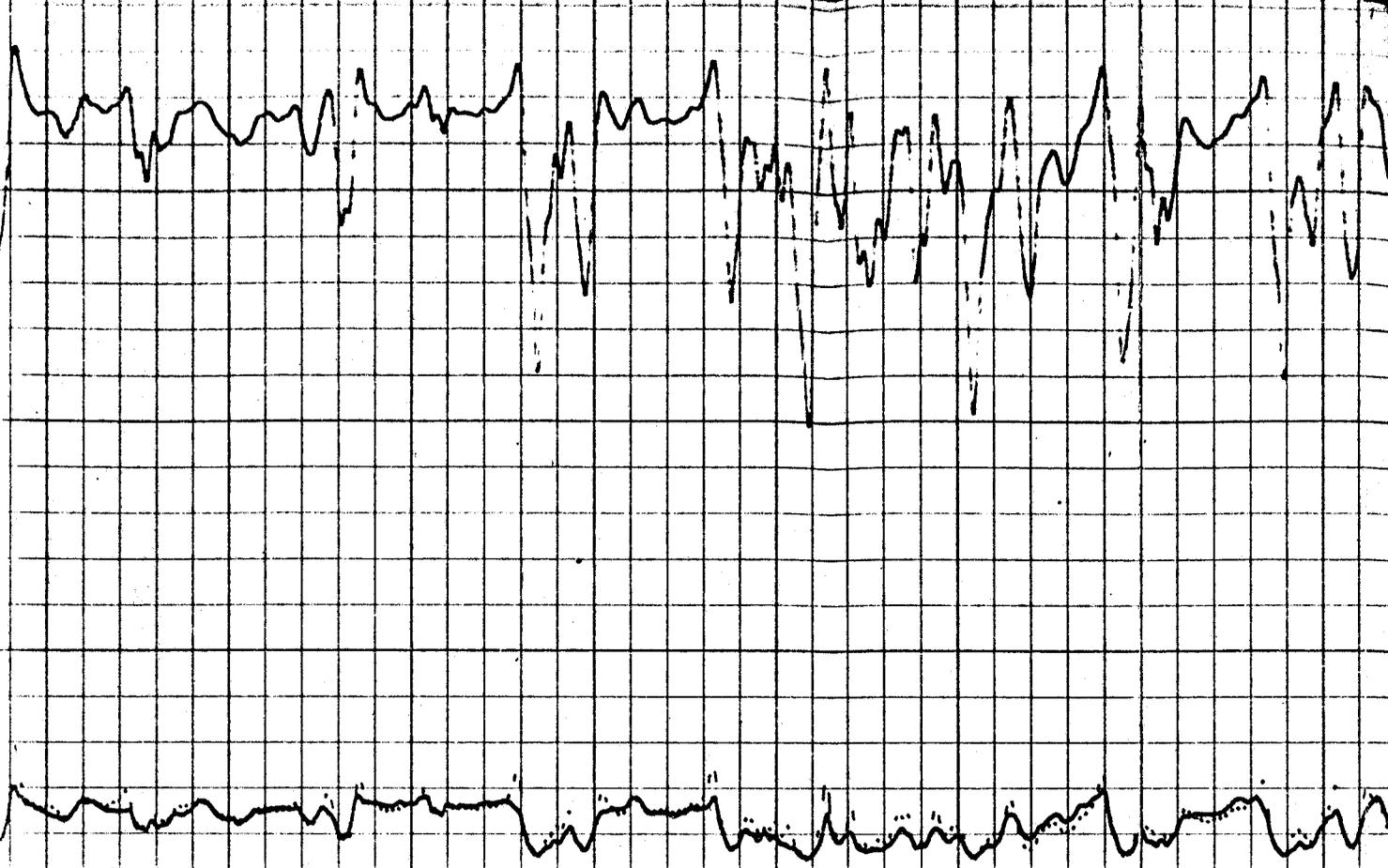
COUNTY DUCHESTER
FIELD or LOCATION ALTAMONT
WELL ALLRED #1-16
COMPANY MAPCO INC.

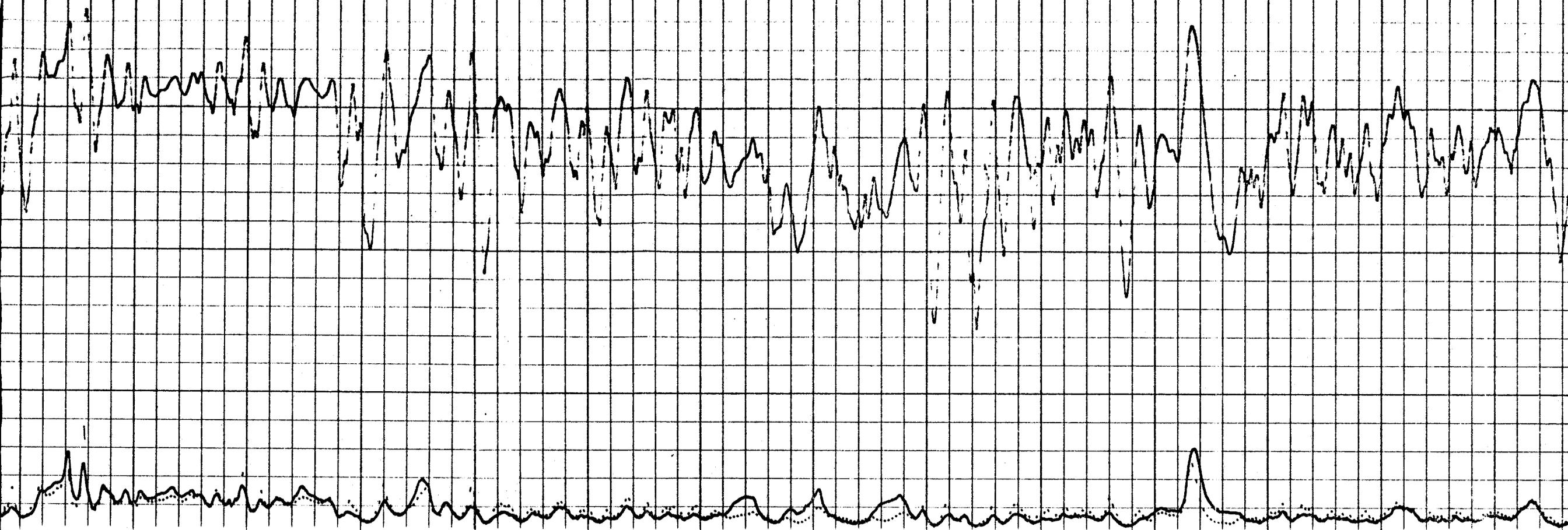
COMPANY MAPCO INCORPORATED "C-1"
WELL ALLRED #1-16
FIELD ALTAMONT
COUNTY DUCHESTER STATE UTAH

Location: NE NE (700' FLN-1280 FEL)
API Serial No. _____
Sec. 16 Twp. 1S Rge. 3W
Other Services:
FDC-GR
CNL-GR
BHC-GR

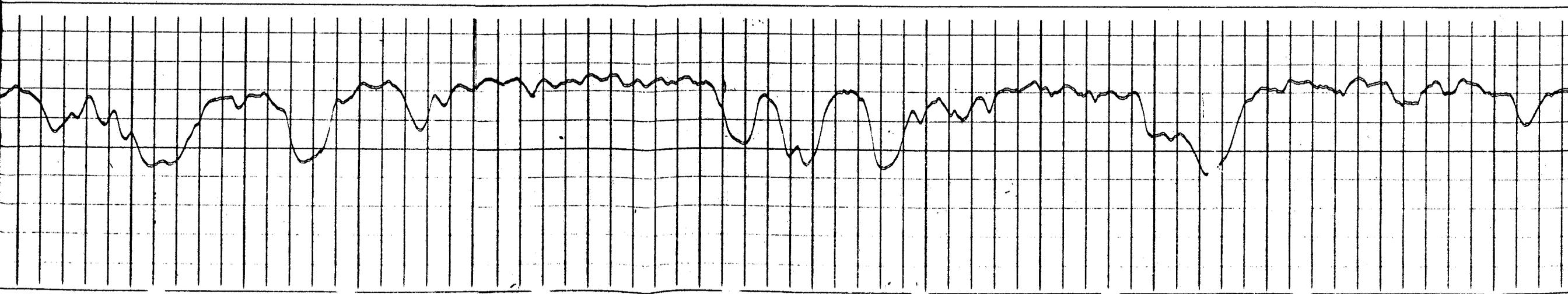
Permanent Datum: GL _____; Elev.: 6319
Log Measured From: KB _____, 21 Ft. Above Perm. Datum
Drilling Measured From: KB _____
Elev.: K.B. 6340
D.F. _____
G.L. 6319

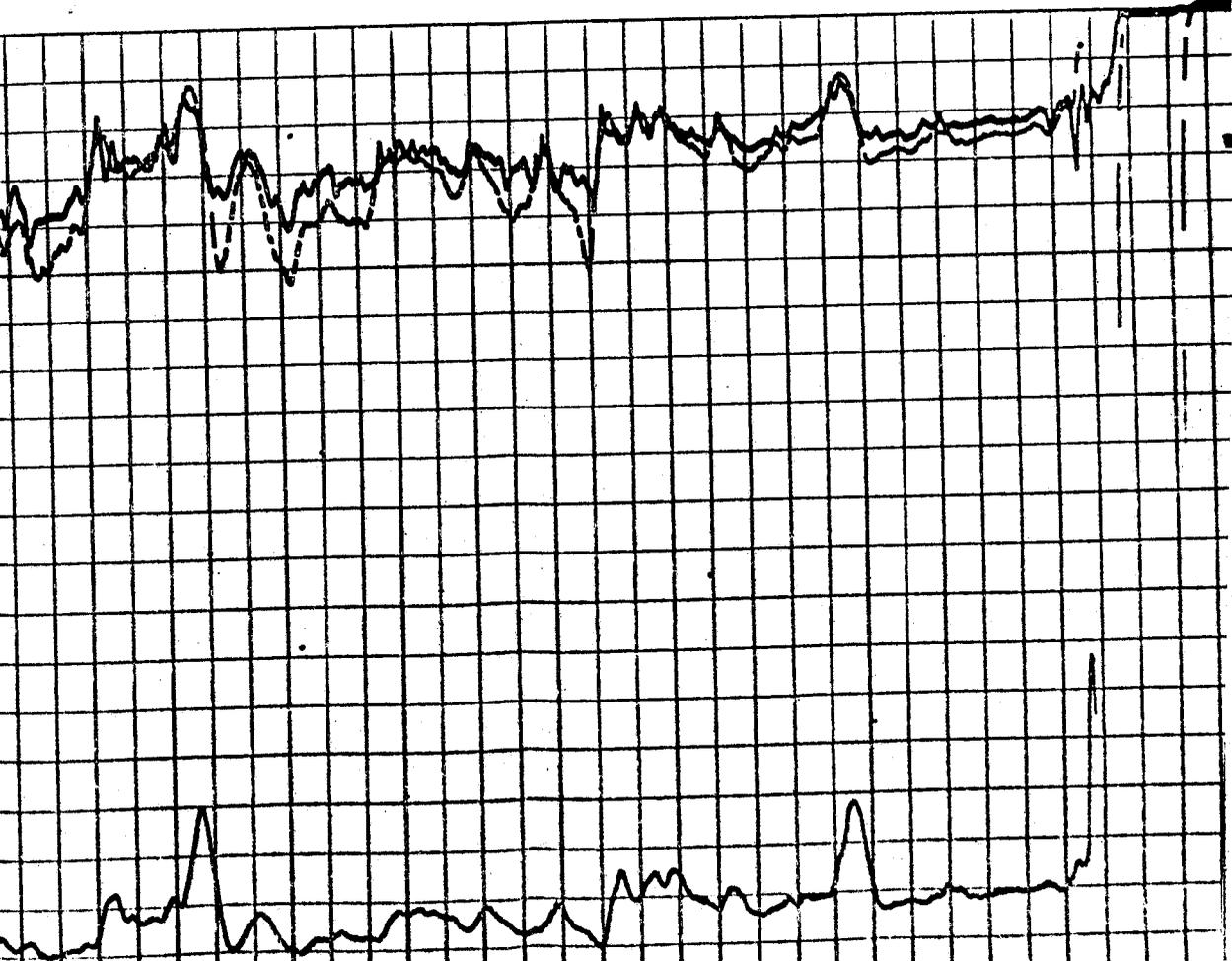
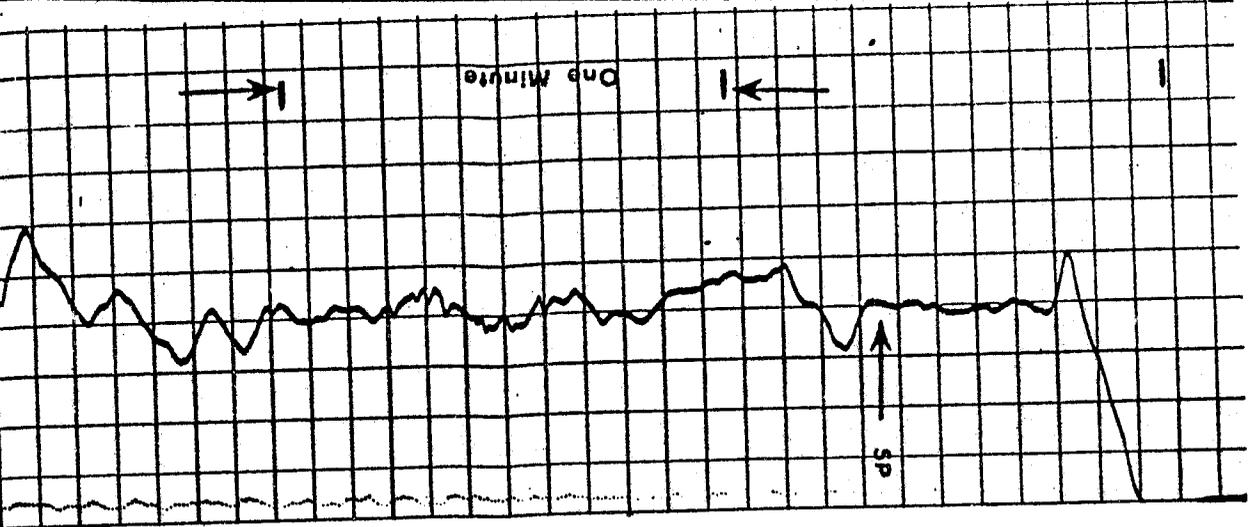
Date	11-11-73	1-10-74		
Run No.	ONE	TWO		
Depth-Driller	13349	16067		
Depth-Logger	13341	16046		
Btm. Log Interval	13335	16044		
Top Log Interval	2995	13326		
Casing-Driller	9-5/8@3005	9-5/8@13336	@	@
ing-Logger	2995	13326		
bit Size	8-3/4	6-1/2		
Type Fluid in Hole	FGM	GEL-CHEM-LIME		
Fluid Level	FULL	FULL		
Dens.	11.2	48	15.2	70
Visc.				
pH	10.8	10ml	12.9	4.0 ml
Fluid Loss				
Source of Sample	MUDPIT	MUDPIT		
Rm @ Meas. Temp.	.904 @ 70°F	1.7 @ 75°F	@	@
Rmf @ Meas. Temp.	.746 @ 70°F	.67 @ 75°F	@	@
Rmc @ Meas. Temp.	1.3 @ 70°F	3.5 @ 75°F	@	@
Source: Rmf	HEMS, CAL	M ²		
Source: Rmc		C		
Rm @ BHT	0.33 @ 182°F	.58 @ 225°F	@	@
Time Since Circ.	14 HRS.	10 HRS.		
Max. Rec. Temp.	182 °F	226 °F	°F	°F
Equip.	7683	7674		
Location	VERNAL	VERNAL		
Recorded By	LANGLEY	Y. T. K. / SPAETH		





4000 4100 4200 4300 4400 4500 4600



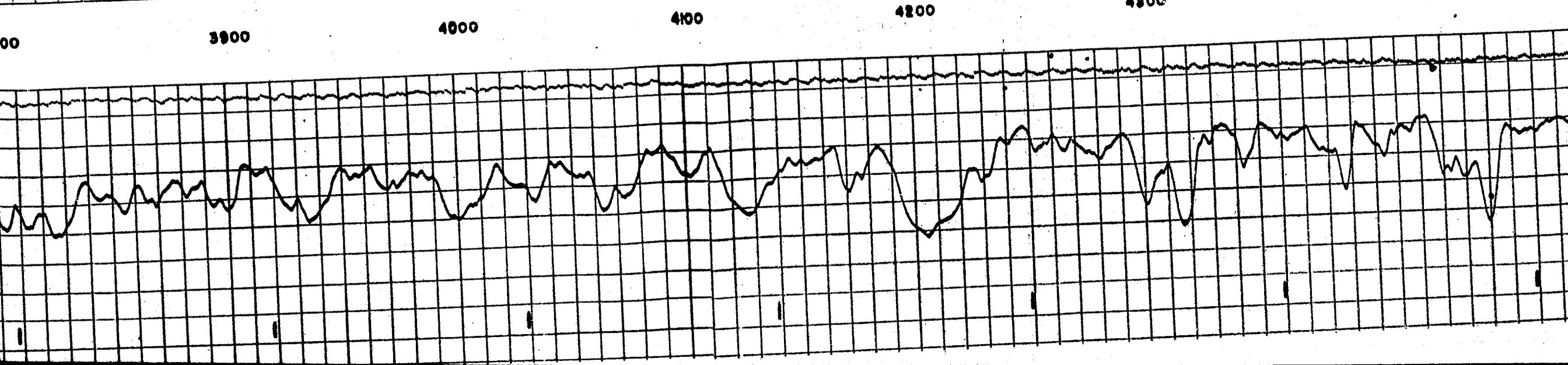


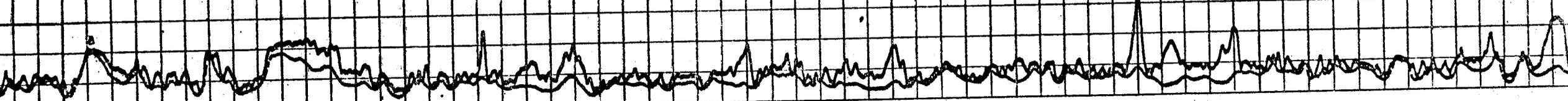
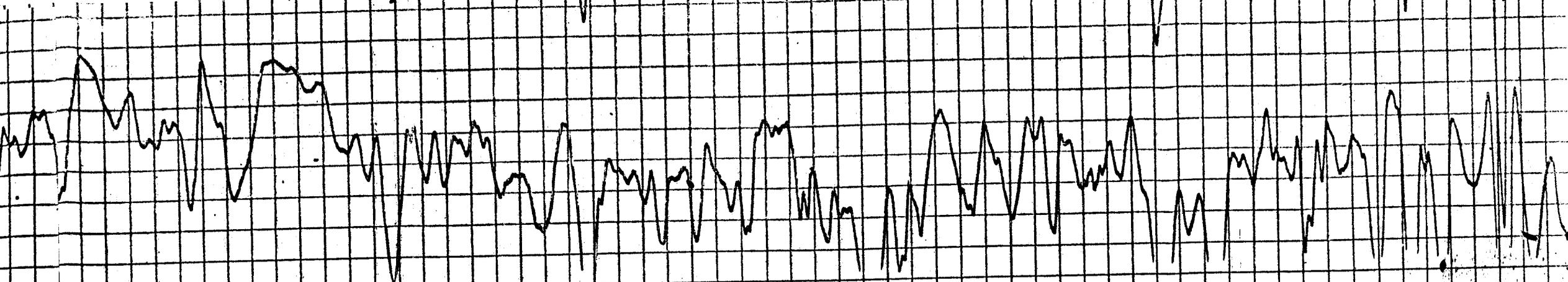
Dual Induction Focused Log
WITH LINEAR CORRELATION LOG

2

FILE NO. R-118	COMPANY MAPCO INCORPORATED		
	WELL BIRCH NO 1-35		
	FIELD ALTAMONT		
	COUNTY DUCHESNE	STATE UTAH	
LOCATION:		Other Services	
NE NE		BHC-AL, GR	
757 FNL 1024 FEL		CDLC-GR	
SEC 35	TWP 1S	RGE 5W	CDN-GR
Permanent Datum GROUND LEVEL	Elev. 6797	KB 6814	
Log Measured from KELLY BUSHING	17 Ft. Above Permanent Datum	DF	
Drilling Measured from KELLY BUSHING		GL 6797	
Date	11-4-73	1-4-74	
Run No.	ONE	TWO	
Depth—Driller	12905	15,685	
Depth—Logger	12905	15,571	
Bottom Logged Interval	12903	15,569	
Top Logged Interval	3484	12,862	
Casing—Driller	9 5/8 @ 3482	@	7 5/8 @ 12,895 @
Casing—Logger	3484		12,862
Bit Size	8 3/4		6 1/2
Type Fluid in Hole	CHEM-GEL		CHEM-GEL
	@	@	DRISCOSE @
Density and Viscosity	9.3 45		14.4 64
pH and Fluid Loss	10.5 6.2 cc		10.2 2.4 cc cc
Source of Sample	FLOWLINE		CIRCULATED
Rm @ Meas. Temp.	1.26 @ 61 °F	@ °F	2.3 @ 72 °F @ °F
Rmf @ Meas. Temp.	1.08 @ 62 °F	@ °F	1.7 @ 70 °F 55 @ 216 °F
Rmc @ Meas. Temp.	1.62 @ 64 °F	@ °F	2.8 @ 72 °F 93 @ 216 °F
Source of Rmf and Rmc	M M		M M
Rm @ BHT	43 @ 180 °F	@ °F	77 @ 216 °F @ °F
Time Since Circ.	15 HRS.		16 HRS.
Max. Rec. Temp. Deg. F.	180 °F		216 °F °F
Equip. No. and Location	6070 RUSVLT		6089 ROSVLT
Recorded By	MCCONNELL		MARTIN-WILCOX
Witnessed By	MR. HOGAN, MR. EVERTZ		MR. HOGAN

THIS LOG AND LOG CONFORMS TO API RECOMMENDED STANDARDS PRACTICE RP-31





4100

4200

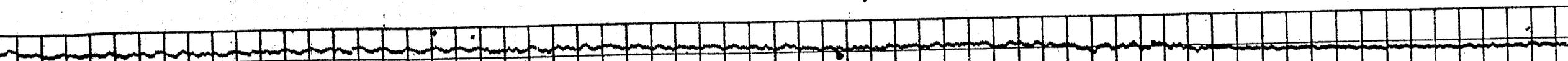
4300

4400

4500

4600

4700



CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

* * * * *

Operator: Linnmar Well No. Buch 2-35

County: Duchesne T 15 R 5W Sec. 35 API# 43-013-30362

New Well Conversion Disposal Well Enhanced Recovery Well

	<u>YES</u>	<u>NO</u>
UIC Forms Completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Plat including Surface Owners, Leaseholders, and wells of available record	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Schematic Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fracture Information	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pressure and Rate Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Adequate Geologic Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Fluid Source

Greener - wasatch

Analysis of Injection Fluid Yes No TDS 27,000+

Analysis of Water in Formation to be injected into Yes No TDS 12,360

Known USDW in area Duchesne River Depth 420

Number of wells in area of review 1 Prod. 1 P&A 0
Water 0 Inj. 0

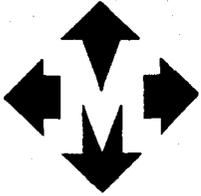
Aquifer Exemption Yes NA

Mechanical Integrity Test Yes No

Date 11-5-82 Type 1000 PSI - 10 min

Comments: TOC 1600

Reviewed by: _____



mapco
INC.

PRODUCTION DIVISION

January 14, 1975

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

ATTENTION: Mr. Cleon B. Feight

Re: Application in Compliance
With Rule C-11
Division of Oil and Gas Conservation
State of Utah

Gentlemen:

We are sending with this letter three (3) copies each of an Application for Administrative Approval, pursuant to Rule C-11, for the authorization of drilling two water disposal wells and the underground disposal of water produced with oil from wells in the Altamont Field, Duchesne County, Utah. The location of these wells are as follows:

MAPCO, Allred WDW No. 2-16, NE NE (470.45' FNL & 1292.05' FEL)
Section 16, T. 1 S., R. 3 W., Duchesne County

MAPCO, Birch WDW No. 2-35, NE NE (852.81' FNL & 1196.74' FEL)
Section 35, T. 1 S., R. 5 W., Duchesne County

Copies of the well survey plats were made from telecopy prints of the original. We have not received the original copies of these plats as yet, but will forward sets to you when we receive them.

We trust this takes care of everything needed for the approval of this Application. If we have overlooked anything, please let us hear from you.

Very truly yours,

MAPCO INC.

J. D. Holliman
J. D. Holliman
Manager of Operations
Northern District

*1/17/74
Self OK above
application called
to Jerry work on
phone. JST*

/awm

SUITE 320 PLAZA WEST 1537 AVENUE D BILLINGS, MONTANA 59102 A/C 406 248-7408
Enclosures



Telegram

SLA086(1630)(2-031830E017)PD 01/17/75 1629

ICS IPMBNGZ CSP

3036234158 TDBN DENVER CO 68 01-17 0429P EST

PMS CLEON B FREIGHT, DIRECTOR, UTAH DIVISION OF OIL AND GAS CONSERVAT
ION, PLS DELIVER ASAP, DLR

1588 WEST NORTH TEMPLE

SALT LAKE CITY UT 84116

RE: APPLICATION IN COMPLIANCE WITH RULE C-11 DIVISION OF OIL
AND GAS CONSERVATION STATE OF UTAH FOR MAPCO, BIRCH WDW2-35
SECTION 35- TOWNSHIP 1 SOUTH- RANGE 5 WEST ALTAMONT FIELD DUCHESNE
COUNTY UTAH.

THIS IS TO INFORM YOU THAT WALTER DUNCAN OIL PROPERTIES HAS
NO OBJECTION TO THE DRILLING OF SUBJECT WELL FOR WATER DISPOSAL
PURPOSES

WALTER DUNCAN OIL PROPERTIES- WALTER, RAYMOND T. AND VINCENT
J. DUNCAN BY DALE E HARRISON LAND MGR



Telegram

SLA060(1455)(1-023439A017)PD 01/17/75 1453

466-4455

TLX CHEVRON DVR
ZCZC 8 PD DENVER COLO JAN 17TH
PMS MR. CLEON B. FEIGHT
DIRECTOR OF OIL & GAS CONSERVATION
STATE OF UTAH
SALT LAKE CITY, UTAH

466-4455

CC: MAPCO, INC.
SUITE 320 PLAZA WEST
1537 AVENUE D
BILLINGS MONTANA

THIS IS TO ADVISE THAT CHEVRON OIL COMPANY HAS NO OBJECTION TO



Telegram

THE DRILLING BY MAPCO OF TWO SALT WATER DISPOSAL WELLS,
MAPCO ALLRED WDW2-16 AND MAPCO BIRCH WSW 2-35, BOTH TO BE
LOCATED IN THE ALTAMONT FIELD.

W.B. JACKSON
CHEVRON OIL COMPANY
WESTERN DIVISION
DENVER, COLORADO

NNNN

8F-1201 (R5-69)

Gulf Oil Company - U.S.

PRODUCTION DEPARTMENT
CASPER AREA

Oscar E. Stoner
AREA PRODUCTION MANAGER

P. O. Box 2619
Casper, Wyo. 82601

January 17, 1975

The State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84111

Attn: Cleon B. Feight, Director

Re: Application of Mapco to drill two disposal wells
Mapco Allred WDW #2-16 and Birch WDW #2-35

Gentlemen:

As mentioned in telephone conversation between Mr. Feight and Mr. L. P. Works on January 17, 1975, Gulf Oil Company has no objection to Mapco drilling two water disposal wells. The wells in question are the Allred WDW #2-16, Sec. 16-1S-3W and the Birch WDW #2-35, Sec. 35-2S-5W both in Altamont Field, Duchesne Co., Utah.

Very truly yours,



J. D. Richards

cc: Mapco
Suite 320 Plaza West
1537 Avenue D
Billings, Montana 59102





Flying Diamond Oil Corporation

1700 BROADWAY SUITE 900 DENVER, COLORADO 80202 PHONE (303) 573-6624

January 17, 1975

Mr. Cleon Feight
State of Utah
Natural Resources
1588 West North Temple
Salt Lake City, Utah 84116

Dear Mr. Feight:

Flying Diamond Oil Corporation has no objection to Mapco's application in compliance with Rule C-11, dated January 14, 1975, to drill two salt water disposal wells: (1) Allred WDW #2-16, Section 16, Township 1 South, Range 3 West; (2) Birch WDW #2-35, Section 35, Township 1 South, Range 5 West, both located in Duchesne County, Utah.

Yours very truly,

FLYING DIAMOND OIL CORPORATION

R. L. Flowers, Jr.
Drilling & Production Manager

RLF:jz



Telegram

SLA025(1236)(2-016566E017)PD 01/17/75 1236

ICS IPMBNGZ CSP

7132253505 TDBN HOUSTON TX 36 01-17 1236P EST

PMS STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OIL
AND GAS CONSERVATION, ATTN CLEON B FEIGHT DIRECTOR, DLR

1588 W.N. TEMPLE

SALT LAKE CITY UT 84116

BARBER OIL EXPLORATION INC HAS NO OBJECTIONS TO MATCO DRILLING
THE BELOW LISTED SALT WATER DISPOSAL WELLS IN THE ALTA MONTE
FIELD DUCHESNE COUNTY UTAH NUMBER 1. ALLRED WDW-2-16. 2. BIRCH
WDW-2-35

W P GOODSON VICE PRESIDENT

NNNN



Telegram

SLA094(1707)(2-034743E017)PD 01/17/75 1707

ICS IPMBNGZ CSP

3032929920 TDBN DENVER CO 42 01-17 0507P EST

PMS CLEON B FEIGHT DIRECTOR, DLR

STATE OF UTAH DIV OF OIL AND GAS CONSERVATION 1588 WEST NORTH
TEMPLE

SALT LAKE CITY UT 84116

PLEASE BE ADVISED THAT TENNECO OIL COMPANY HAS NO OBJECTIONS
TO NAPCO'S APPLICATION DATED JANUARY 14 1975 TO DRILL AND COMPLETE
THE WDW NUMBER 2-16 ALLRED 16-1S-3W, AND WDW NUMBER 2-35 BIRCH
35-1S-5W DUCHESNE COUNTY, UTAH AS STATED IN THIS APPLICATION

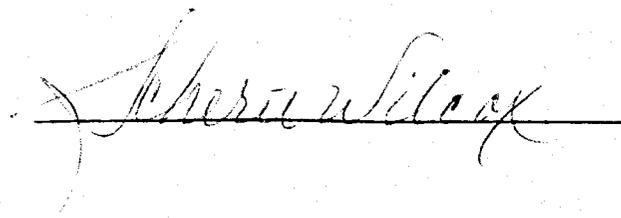
D D MYERS DIV PRODUCTION MGR TENNECO OIL CO
NNNN

TELEGRAM

January 21, 1975

From: Altex Oil Company
Cecil Wall, President
Vernal, Utah

Altex has no objection to Mapco's application dated 1-14-75 to drill and complete water disposal wells at Allred WDW 2-16, Sec. 16, T. 1 S, R. 3 W,; and Birch WDW 2-35, Sec. 35, T. 1 S, R. 5 W, Duchesne County.


A handwritten signature in cursive script, appearing to read "Cecil Wall", is written over a horizontal line.



western union

Telegram

SLB025(1142)(1-01083 2A0 22008)PD 01/22/75 1129

TLX SHELL PLZ HOU

ZCZC 016 HOUSTON TX JAN 22

PMS UTAH OIL AND GAS CONSERVATION BOARD

ATTN CLEON B FEIGHT

1588 WEST NORTH TEMPLE

SALT LAKE CITY UT 84116

SHELL CONSENTS TO MAPCO-S DRILLING OF THE MAPCO - ALLRED

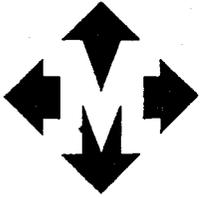
WDW 2-16 LOCATED IN SECTION 16 - T1S - R3W AND THE MAPCO-

BIRCH WDW 2-35 IN SECTION 35 - T1S - R5W - DUCHESNE COUNTY UTAH

HWA R J NELSON SHELL OIL CO

NNNN

328-5771
DW 1056A
Shady
mes



mapco
INC.

PRODUCTION DIVISION

January 28, 1975

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

ATTENTION: Scheree Wilcox

Re: Well Survey Plats for
MAPCO, Allred No. 2-16 WDW
Sec. 16, T. 1 S., R. 3 W.,
and
MAPCO, Birch No. 2-35 WDW
Sec. 35, T. 1 S., R. 5 W.,
Duchesne County, Utah

Gentlemen:

Enclosed are three (3) copies each original Well Survey Plats for the captioned wells. These should be attached to the Applications we submitted on January 14, 1975.

Very truly yours,

MAPCO INC.

(Mrs.) Agnes W. Model
Secretary to J. D. Holliman

Enclosures

January 23, 1975

Mapco Inc.
Suite 320 Plaza West
1537 Avenue D
Billings, Montana

Re: Well No's:
Allred WDW 2-16
Sec. 16, T. 1 S, R. 3 W,
Birch WDW 2-35
Sec. 35, T. 1 S, R. 5 W,
Duchesne County, Utah

Gentlemen:

Please be advised that administrative approval under Rule C-11, General Rules and Regulations, is hereby granted for the drilling of the above referred to water disposal wells.

Said approval is, however, conditional upon adhering to the provisions of the Order issued in Cause No. 139-9, outlined as follows:

- a) Applicant will take two samples of formation water by production swab tests, one from the upper interval and one from a lower interval.
- b) Applicant will notify this office prior to taking such samples in order that a member of our staff may be present to witness such tests, and take independent samples.
- c) Applicant will provide continuous monitoring of the salt water disposal well as to the volume of fluids injected and injection pressures.

Should you have any questions relative to the above, please do not hesitate to call or write.

Very truly yours,

CLEON B. FEIGHT
DIRECTOR

BEFORE THE BOARD OF OIL AND GAS CONSERVATION
DEPARTMENT OF NATURAL RESOURCES
in and for the STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF MAPCO)
INC. FOR ADMINISTRATIVE APPROVAL, PURSUANT)
TO RULE C-11, AUTHORIZING THE DRILLING OF)
TWO WATER DISPOSAL WELLS AND THE UNDERGROUND)
DISPOSAL OF WATER PRODUCED WITH OIL FROM)
WELLS IN THE ALTAMONT FIELD, DUCHESNE)
COUNTY, UTAH)

APPLICATION

Applicant, MAPCO INC., in support of this application, respectfully shows to the Board of Oil and Gas Conservation of the State of Utah, as follows:

1. Applicant is a Delaware corporation duly authorized to transact business in the State of Utah.

2. Applicant is an oil and gas operator in the Altamont Field, Duchesne County, Utah.

3. There are many producing oil and gas wells in the Altamont Field which are producing in association with oil and gas, salt water, brackish water or other water unfit for domestic, livestock, irrigation or other general uses. Unless appropriate disposal is provided, possible damage may occur to surface estates and potable surface waters.

4. Applicant proposes to dispose of such produced water by injection underground into the lower portion of the Duchesne River-Uintah formations underlying the proposed disposal wells.

5. Applicant proposes to drill two salt water disposal wells to be designated Allred WDW No. 2-16, located 470.45 feet from the north line and 1292.05 feet from the east line of Section 16, Township 1 South, Range 3 West, U.S.B.&M., and Birch WDW No. 2-35, located 852.81 feet from the north line and 1196.74 feet from the east line of Section 35, Township 1 South, Range 5 West, U.S.B.&M., both in Duchesne County, Utah. The location of the proposed disposal wells and all oil and gas wells, including abandoned and drilling wells and dry holes are shown on Exhibits "A-1" and "A-2" attached hereto and hereby made a part hereof. Also attached hereto and made a part hereof is Exhibit "B", the names of lessees of record within one-half mile of the proposed disposal wells.

6. The Duchesne River-Uintah formations are comprised predominantly of clastic sandstones and shales, with the numerous porous sandstones containing waters of varying degrees of salinity. The above formations occur at the surface at the proposed well sites, and based on log analysis of the nearest producing wells, the MAPCO Allred No. 1-16 and the MAPCO Birch No. 1-35, extend to a depth of approximately 7200 feet and 6300 feet, respectively.

7. Attached hereto and hereby made a part hereof as Exhibits "C-1" and "C-2" are reproductions of the pertinent portion of the logs of the MAPCO Allred No. 1-16, and the MAPCO Birch No. 1-35, which are submitted as typical and in lieu of the logs of the proposed disposal wells to be drilled.

8. Attached hereto and hereby made a part hereof as Exhibits "D-1" and "D-2" are reproductions of the Applications for Permit to Drill (Form OGC-1a) for the two disposal wells. These applications contain the proposed casing program, and the proposed method for testing casing before use of the disposal wells.

9. The proposed injection water is that which is produced along with oil and gas from the Green River-Wasatch formations beneath oil and gas wells in the Altamont Field, Utah. The estimated minimum amount of injection per well will be 200 barrels of water per day, increasing to an estimated maximum of 5,000 barrels per day due to additional wells and normal water cut increase. The proposed subsurface intervals to be injected into in the Allred WDW No. 2-16 are from approximately 3500 feet to 4600 feet, and the intervals in the Birch WDW No. 2-35 are from approximately 3700 feet to 4600 feet. Applicant believes the Duchesne River-Uintah formations will adequately take and receive the estimated maximum volumes of produced water.

10. Applicant believes that produced water to be disposed of and formation water in the Duchesne River-Uintah formations at the proposed injection intervals are both unfit for domestic, livestock, irrigation or other general uses. On the Allred WDW No. 2-16, Applicant will take two samples of formation water by production swab tests, one from the subsurface interval from 3500 to 3800 feet and the other test will be taken below 3800 feet over an interval to be selected by Applicant. On the Birch WDW No. 2-35, Applicant will take similar samples, one from the subsurface interval from 3700 to 4000

feet, and the other test will be taken below 4000 feet over an interval to be selected by Applicant. Applicant will notify the Director, Division of Oil and Gas Conservation, prior to taking such samples and conducting such tests in order that the Director or his staff may witness the tests and take independent samples.

11. Applicant proposes to provide continuous monitoring of the salt water disposal well as to volume of fluids injected and injection pressures, and such information will be recorded or logged.

12. Names and addresses of lessees of record within one-half mile of the proposed disposal wells are shown on Exhibit "B". All lessees were notified by registered mail of the filing of this application.

WHEREFORE, Applicant respectfully requests that the Board of Oil and Gas Conservation, pursuant to Rule C-11, approve administratively the drilling of the disposal well and the underground disposal of water produced with oil all as more fully set forth herein.

Dates this 14th day of January, 1975.

Respectfully submitted,

MAPCO INC.

By J. D. Holliman
J. D. Holliman
Manager of Operations
Northern District
Suite 320 Plaza West
1537 Avenue D
Billings, Montana 59102

STATE OF MONTANA

COUNTY OF YELLOWSTONE

J. D. Holliman, being first duly sworn on oath, deposes and says that he is Manager of Operations for the Northern District of MAPCO INC.; that he has read the foregoing application and knows the contents thereof; and that the matters and things therein stated are true.

James D. Holliman

Subscribed and sworn to before me this 14th day of January, 1975.

Lucille F. Robinson
Notary Public
In and for Yellowstone County, Montana

My Commission Expires:

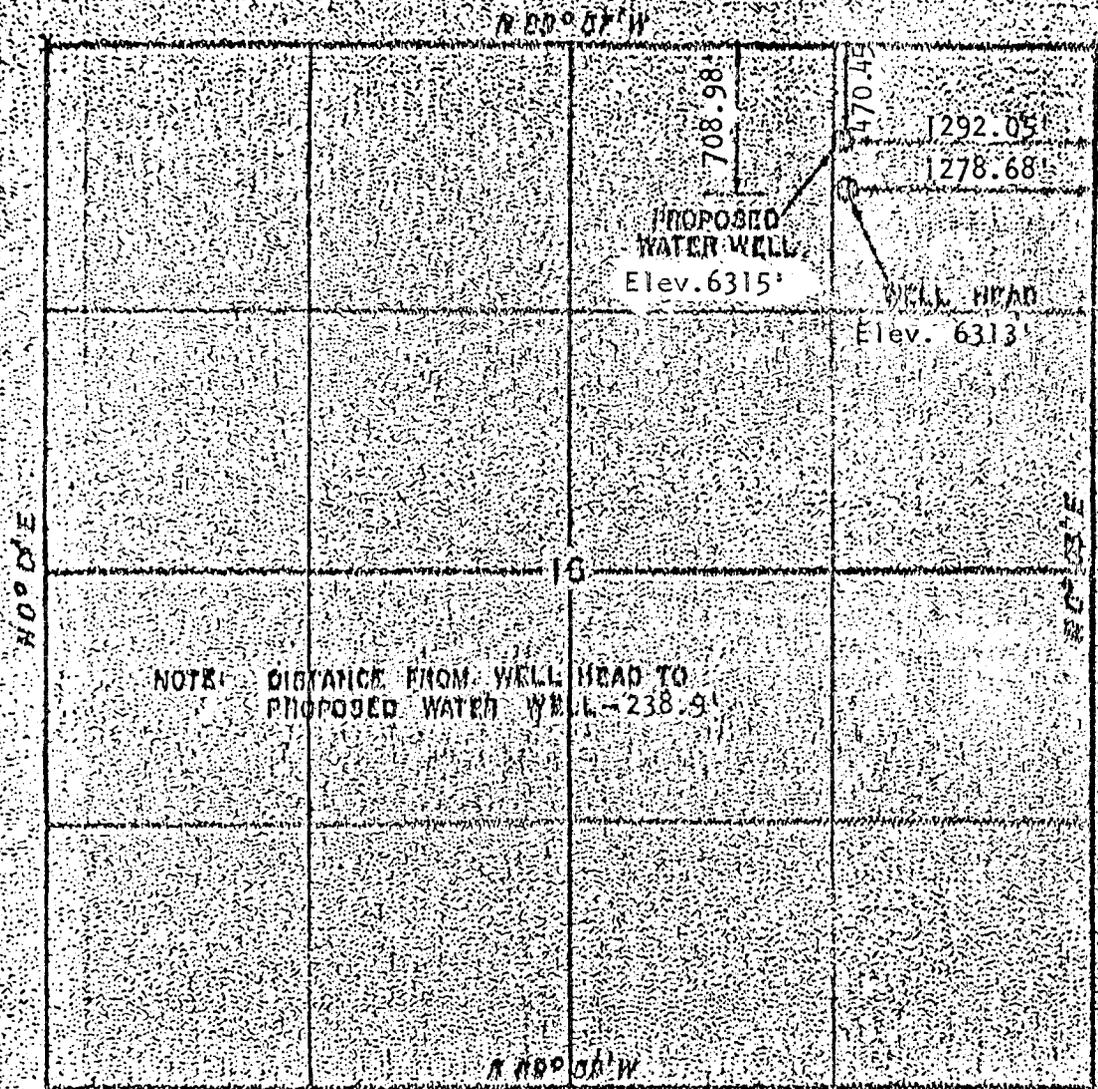
8-29-75

MAPCO INCORPORATED

ALLRED WELL

Well location, located as shown in the NE 1/4, NE 1/4,
 Section 10, T20, R3W, U.O., D. M. S.,
 Duchaine County, Utah

MAPCO, Allred WDW No. 2-16



CERTIFICATE

I, Gilbert R. Horrocks, do hereby
 certify that the above plat 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.

Gilbert R. Horrocks
 Gilbert R. Horrocks,
 Registered Land Surveyor,
 Certificate No. 3825



NOTE: DISTANCE FROM WELL HEAD TO
 PROPOSED WATER WELL - 238.9'

HORROCKS & ASSOCIATES
 CONSULTING ENGINEERS
 604 330, BARRAGE, UTAH

Scale: 1" = 1000'	Date: 12/1/70
Drawn: GP	Approved:
Checked: R.V.H.	Engineer:

X = Section Corner Location

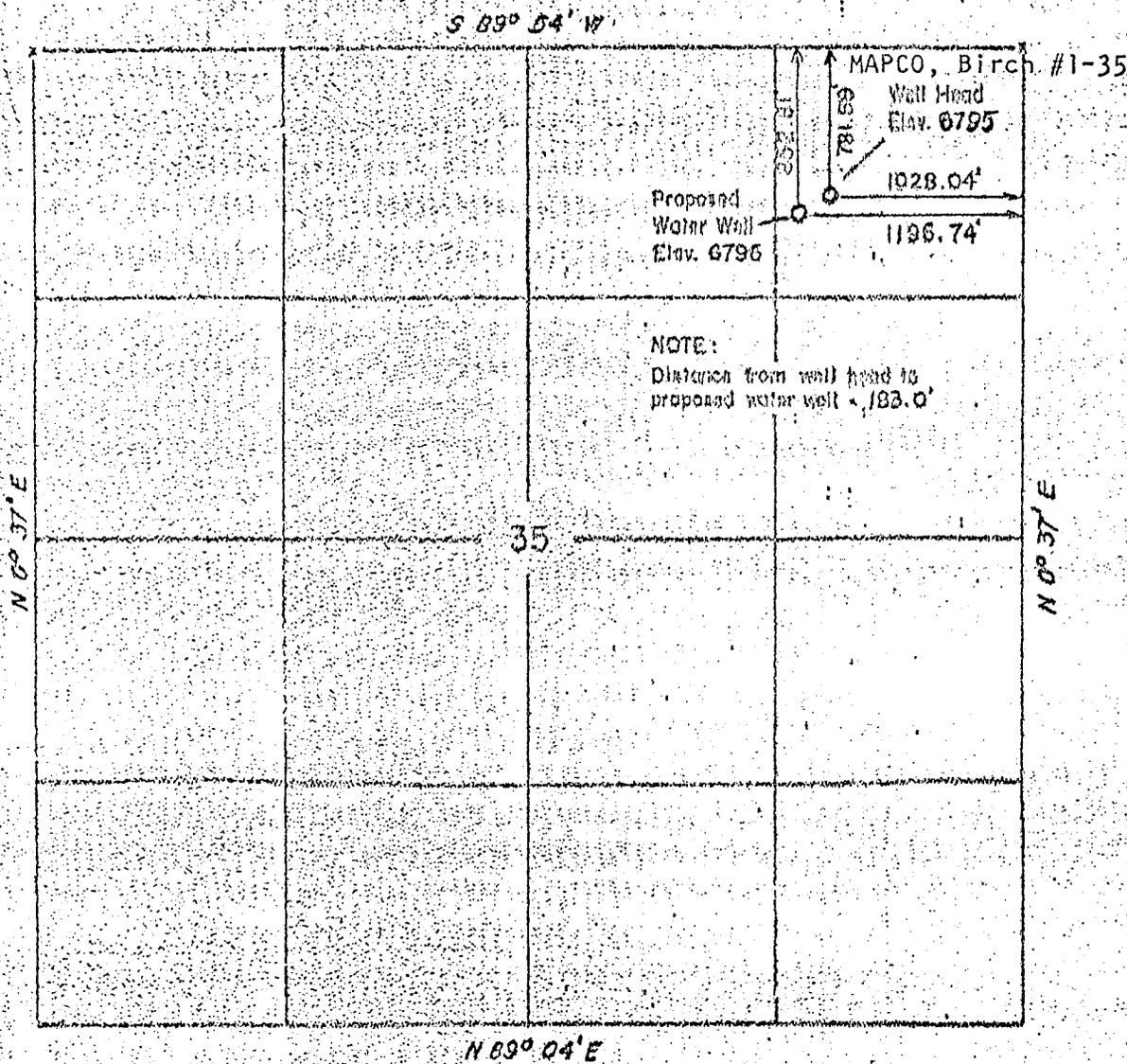
Exhibit "A-1"

MAPCO INCORPORATED

BIRCH WELL

Well location, located as shown in
the NE 1/4 of the NE 1/4, Section 35,
T. 1 S., R. 5 W., U.S.B. M.M.
Duchama County, Utah

MAPCO, Birch WDW No: 2-35



CERTIFICATE

I, Gilbert R. Horrocks, do hereby certify that the above plat 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.

Gilbert R. Horrocks
 Gilbert R. Horrocks,
 Registered Land Surveyor
 Certificate No. 3825

HORROCKS & ASSOCIATES	
Consulting Engineers	
Box 335	Rockwell, Utah
SCALE 1" = 100'	DATE Jan. 1975
DRAWN PDW	CHECKED RVH

Exhibit "A-2"



JUN 23 1975
Certificate of Analysis

LITE RESEARCH LABORATORIES

P. O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

DATE:

April 9, 1975

CLIENT:

Mapco Production Inc.
P.O. Box 1386
Roosevelt, Utah 84026

3554' - 4500'

SAMPLE NUMBER:

W-2079

(Birch 235) 1000

DATE RECEIVED:

4-8-75

SUBMITTED BY:

Steve Hale

SAMPLES ANALYZED FOR:

TDS & Chloride

RESULTS:

TDS - 12,360

Chloride - 4,408

REMARKS:

BY _____



EXXON CHEMICAL COMPANY U.S.A.

Houston Chemical Plant
8230 Stedman, Houston, Texas 77029

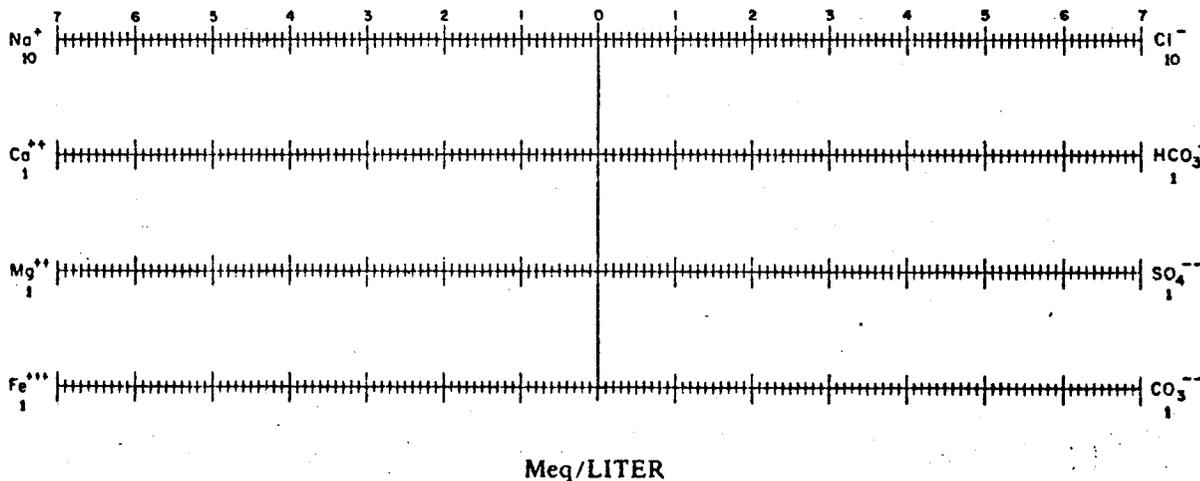
834-0008-1A
WATER ANALYSIS

SAMPLE DESCRIPTION: Water from Birch No. 1-35, Altamont Field, Utah

COMPANY: Mapco Production Co., Roosevelt, Utah
 STSR NUMBER: 75-6041-31
 REQUESTED BY: F. H. Collett
 DATE RECEIVED: April 1, 1975
 ANALYZED BY: C. S. Lieberman

	<u>Mg/L</u>	<u>Meq/L</u>		
Sodium	1,750	76	pH	-7.7
Calcium	60	3	Specific Gravity at <u>60</u> °F	1.003
Magnesium	12	1		
Chloride	2,310	65		<u>Mg/L</u>
Sulfate	300	6	Oil Content	23
Bicarbonate	520	8	Organic Matter	
Carbonate	Nil	-	Hydrogen Sulfide	
Hydroxide	Nil	-	<u>Barium</u>	Nil
TOTAL	4952			
Dissolved Iron				
Total Iron	5 ppm			

WATER PATTERN (Stiff Method)



Remarks:



JUN 23 1975
Certificate of Analysis

LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

DATE:

April 9, 1975

CLIENT:

Mapco Production Inc.
P.O. Box 1386
Roosevelt, Utah 84026

3554' - 4500'

SAMPLE NUMBER:

W-2079

Alfred
(Birch 235)

See 35 TIS R5W

DATE RECEIVED:

4-8-75

SUBMITTED BY:

Steve Hale

SAMPLES ANALYZED FOR:

TDS & Chloride

RESULTS:

TDS - 12,360

Chloride - 4,408

REMARKS:

BY _____

PI 1



Form OGC 3

FEB 2 1976

DIVISION OF OIL, GAS, & MINING
OIL & GAS CONSERVATION COMMISSION

STATE OF UTAH

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Birch

9. WELL NO.

WDW 2-35

10. FIELD AND POOL, OR WILDCAT

Altamont

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

Section 35

T. 1 S., R. 5 W.

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

14. PERMIT NO.

43-013-30362

DATE ISSUED

1-23-75

15. DATE SPUDDED

1-26-75

16. DATE T.D. REACHED

2-21-75

17. DATE COMPL. (Ready to prod.)

4-10-75

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

6796' G.L. - 6808' K.B.

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

4650'

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

to 4650'

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Injection Interval (Perforated): 3604-4474'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

BHC Sonic GR w/Caliper: 4642-526'

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36	529'	12-1/4"	425 sx Class G w/2% CaCl ₂	
				85 sx Class G 2/3% CaCl ₂	
7 & 7-5/8"	23, 26.4, 29.7 & 33.7	4650'	8-3/4"	655 sx 65-35 Pozmix & 400 sx 65-35 Pozmix	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	3493'	3493'

31. PERFORATION RECORD (Interval, size and number)

See Attachment

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

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

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

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

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

35. LIST OF ATTACHMENTS

Perforation Record

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED J. D. Holliman TITLE Manager of Operations Northern District DATE 1-27-76

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

Attachment for Form OGCC-3, Perforation Record, for

MAPCO, WDW Birch 2-35
Section 35, T. 1 S., R. 5 W.
Duchesne County, Utah

Perforated the following intervals (BHC Sonic - GR depths) with a strip
jet with 2 shots/foot 28 gram jets:

<u>Run No. 1</u>	<u>Run No. 6</u>
4472-4474	3846-3853
4467	3818-3821
4464-4466	3805-3812
4458-4460	<u>Run No. 7</u>
4416-4418	3771-3774
<u>Run No. 2</u>	3764-3766
4365-4375	3663-3669
4292-4294	<u>Run No. 8</u>
<u>Run No. 3</u>	3604-3608
4232	3725-3727
4213	3719-3723
4114-4118	
<u>Run No. 4</u>	
4083-4087	
4054-4058	
<u>Run No. 5</u>	
4007-4017	
3994-3996	
3960-3969	

Subject

Date

Sheet

of

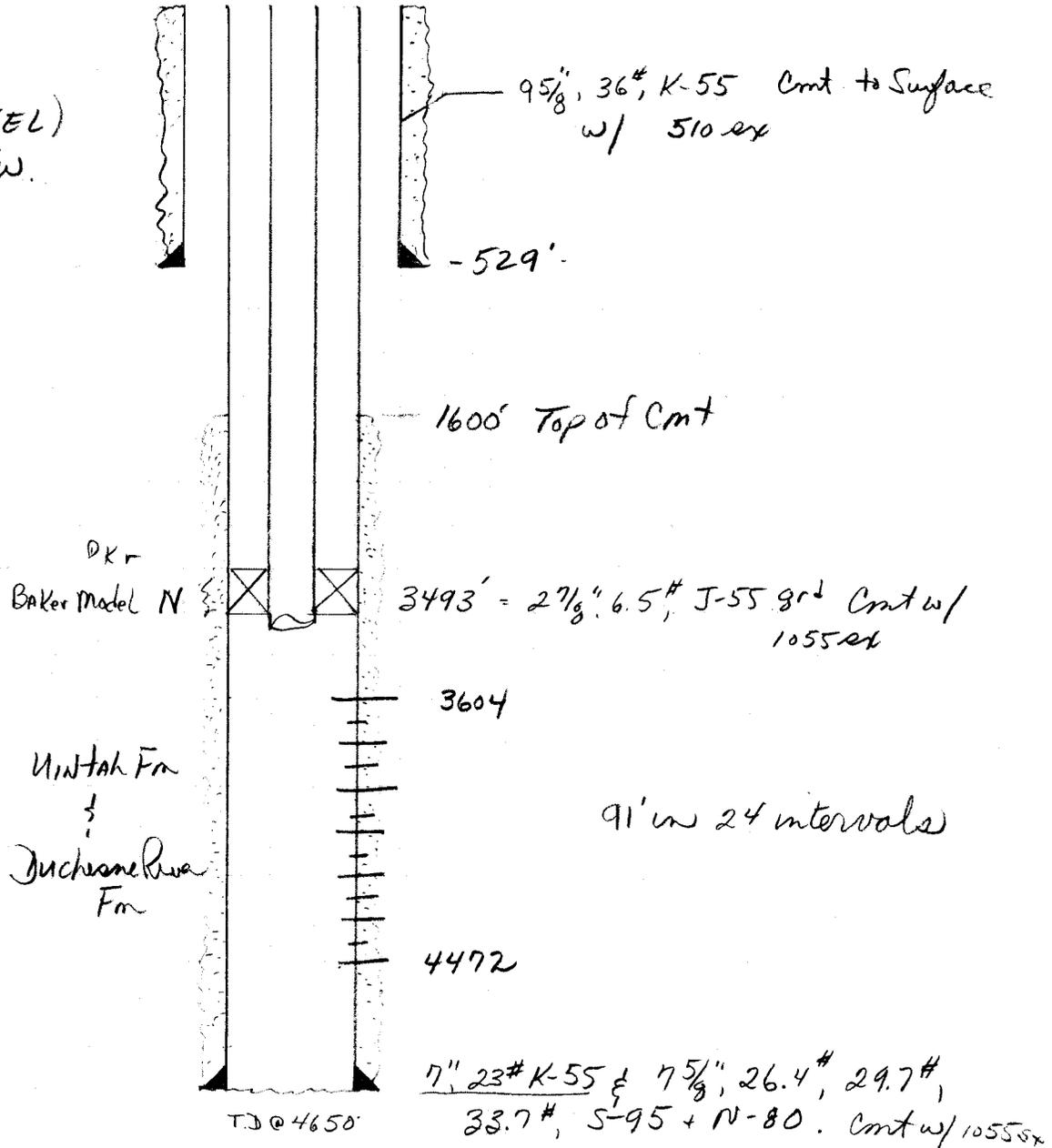
By

Birch 2-35

Location:

NENE (852.8' FNL +
1196.7' FEL)

Sec. 35, T. 15, R. 5W.



Birch 1-35

7 5/8" 26-29# set at 12,905 8 3/4" hole w/ 1000 ex

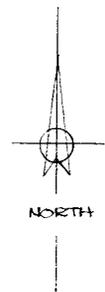
calc. cmt tp = 1164'

JAN 16 1975

MAPCO INCORPORATED

BIRCH WELL

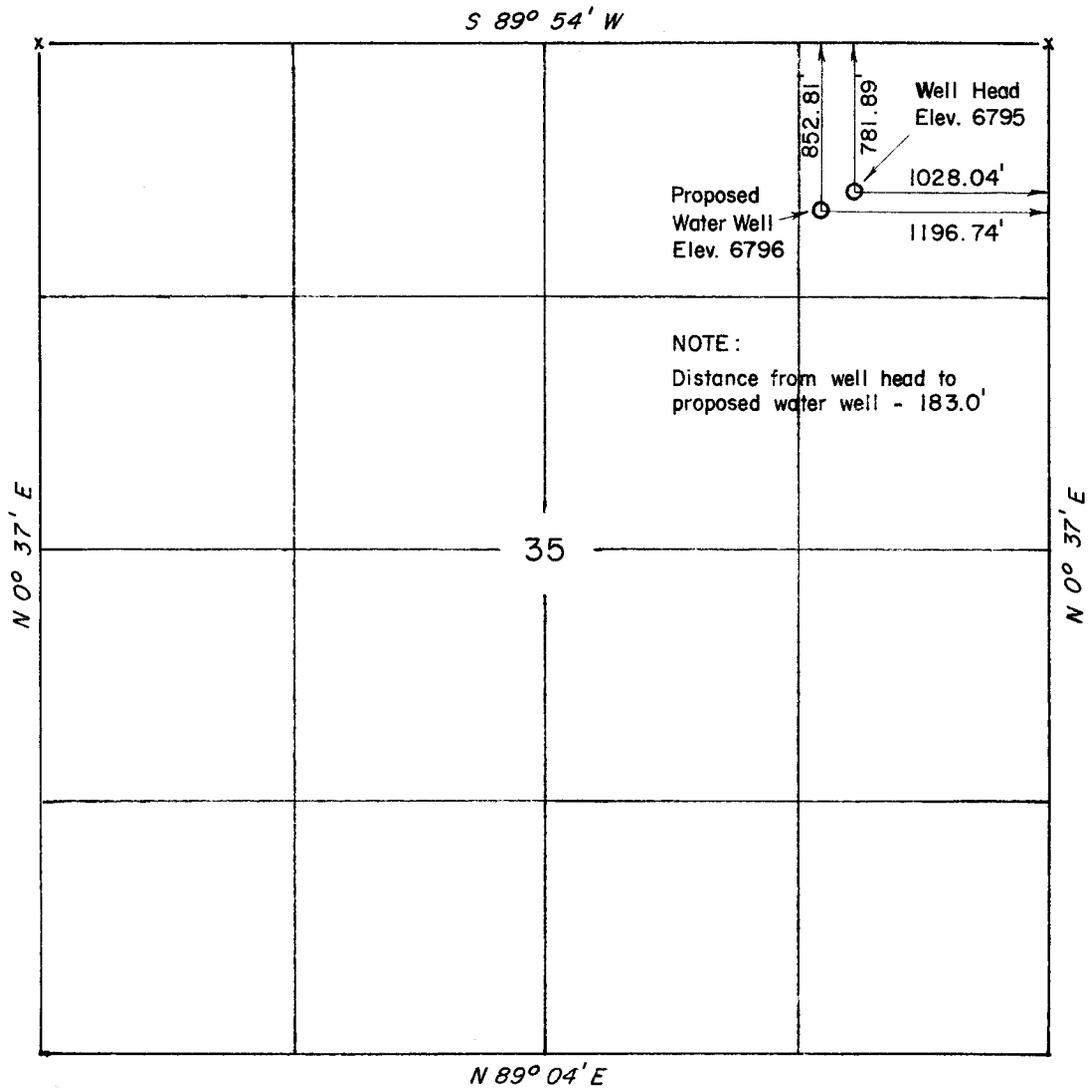
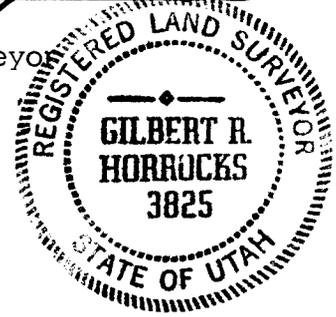
Well location, located as shown in
the NE 1/4 of the NE 1/4, Section 35,
T. 1 S., R. 5 W., U.S.B. & M.
Duchesne County, Utah



CERTIFICATE

I, Gilbert R. Horrocks, do hereby
certify that the above plat 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.

Gilbert R. Horrocks,
Registered Land Surveyor
Certificate No. 3825



x = Section Corner Location

HORROCKS & ASSOCIATES Consulting Engineers	
Box 335	Roosevelt, Utah
SCALE 1" = 1000'	DATE Jan. 1975
DRAWN PDW	CHECKED RVH



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

I. DANIEL STEWART
Chairman

CLEON B. FEIGHT
Director

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

December 6, 1978

Mapco, Inc.
Suite 320 Plaza West
1537 Avenue D
Billings, Montana 59102

Re: Well No. Allred SWD 2-16
Sec. 16, T. 1S, R. 3W,
Duchesne County, Utah
✓ Well No. Birch 2-35
Sec. 35, T. 1S, R. 5W,
Duchesne County, Utah
Both need August 1978 thru' October 1978

Gentlemen:

Our records indicate that you have not filed a "Monthly Disposal Well Report" for the months indicated above on the subject well(s).

In accordance with Rule C-11, General Rules and Regulations and Rules of Practice and Procedure, it is required that a report be filed each month on or before the sixteenth (16) day of the succeeding month following injection. This report may be filed on the enclosed form, or on company forms containing substantially the same information. We are enclosing forms for your convenience.

In order that we may keep our records accurate and complete, a report is still required each month, whether or not fluids are being injected.

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

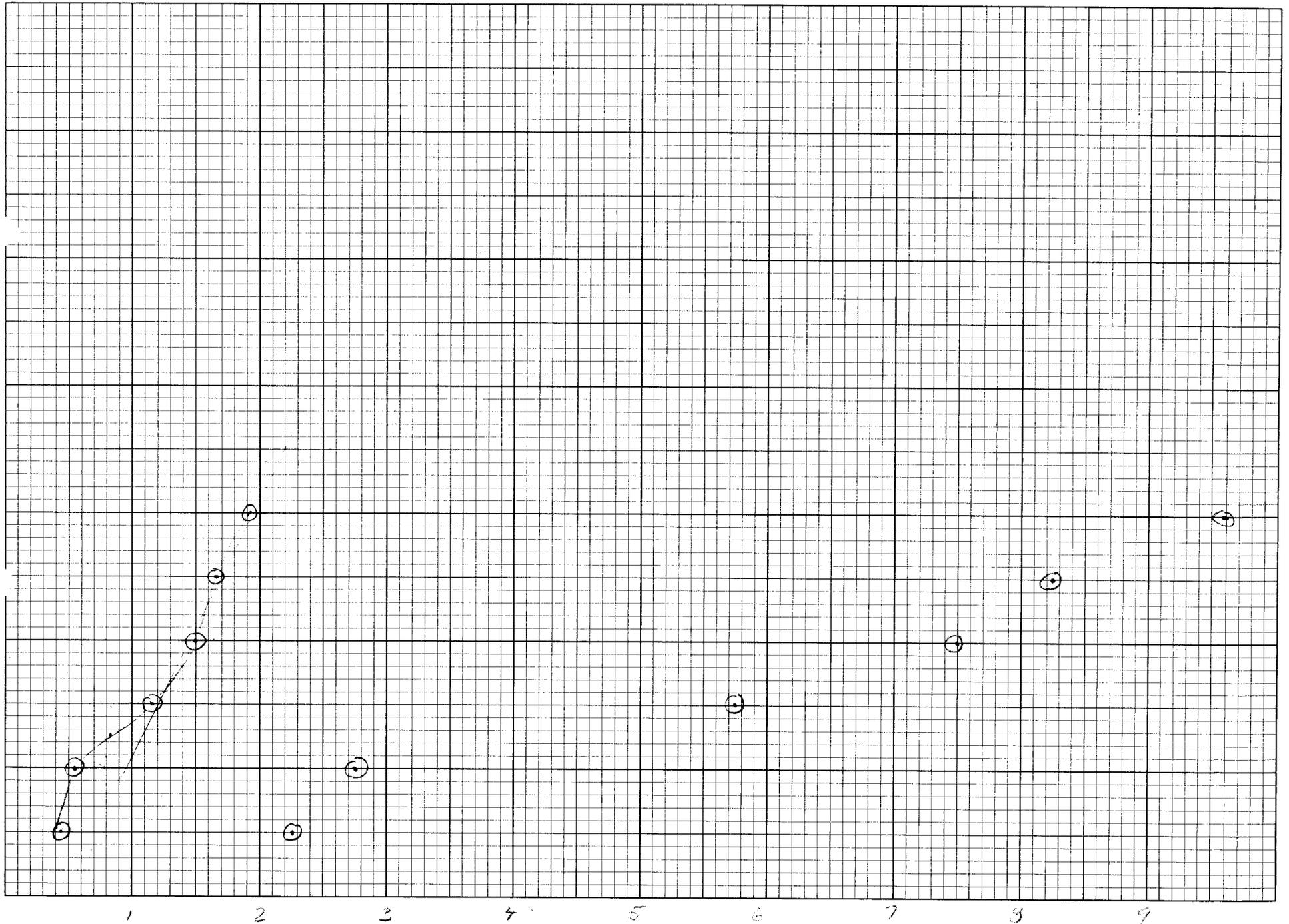
450 7 192

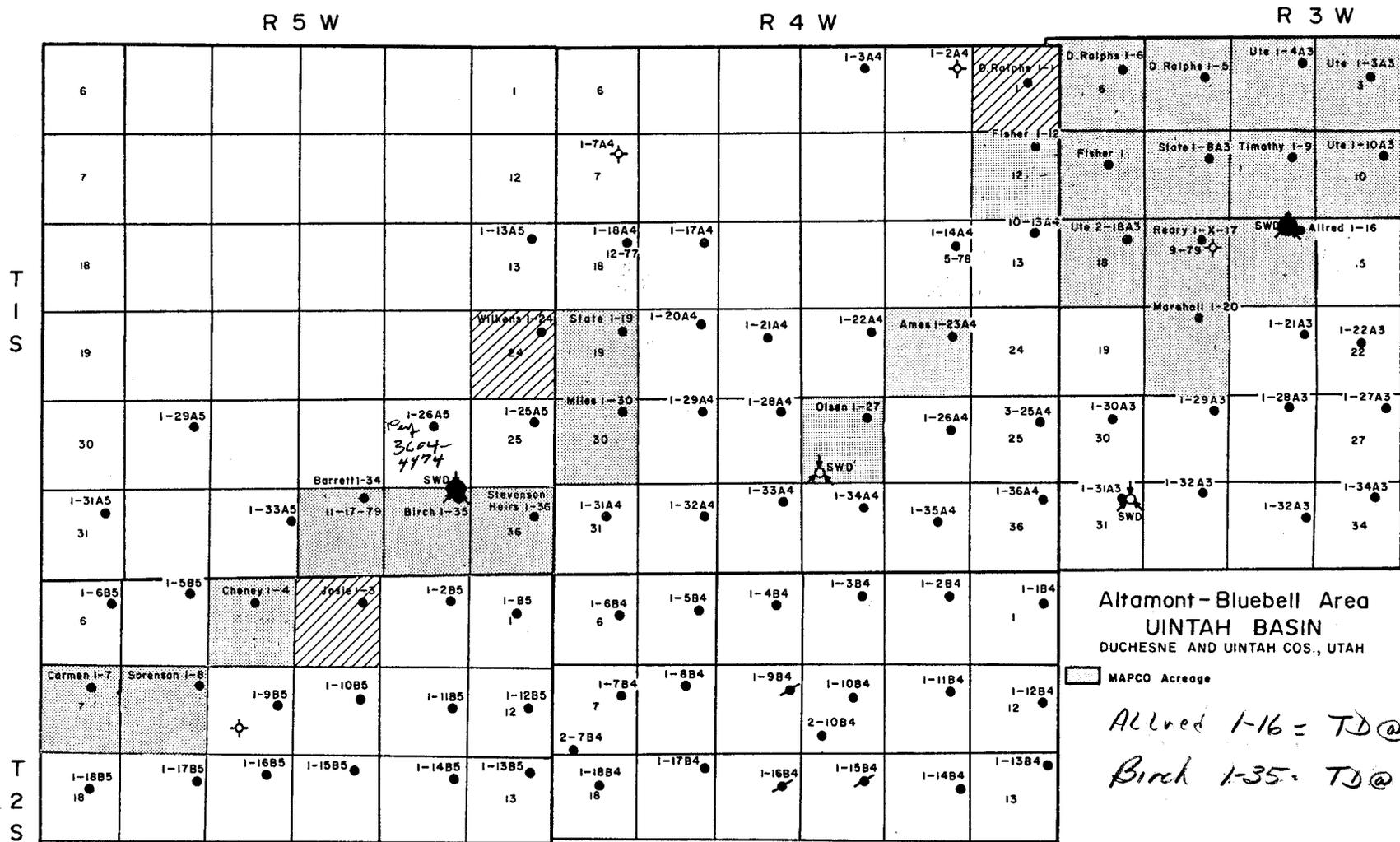
165 per

175 2 100

44

Birch 2-35





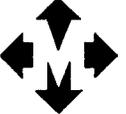
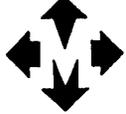
Altamont-Bluebell Area
 UINTAH BASIN
 DUCHESNE AND UINTAH COS., UTAH

MAPCO Acreage

Altmed 1-16 = TD @ 12400'
 Birch 1-35 = TD @ 15,685'

Birch 1-35

13 3/8
 9 5/16
 7 3/16
 61# at 439 17 1/2 w/ 510 of
 36# at 3482 12 1/4 w/ 2135 of
 26-22 at 12,905 8 3/4 w/ 24/1000 of


mapco

 INC.
MAPCO PRODUCTION COMPANY
 NORTHERN REGIONAL OFFICE
 BILLINGS, MONTANA

Sold to D & J Oil

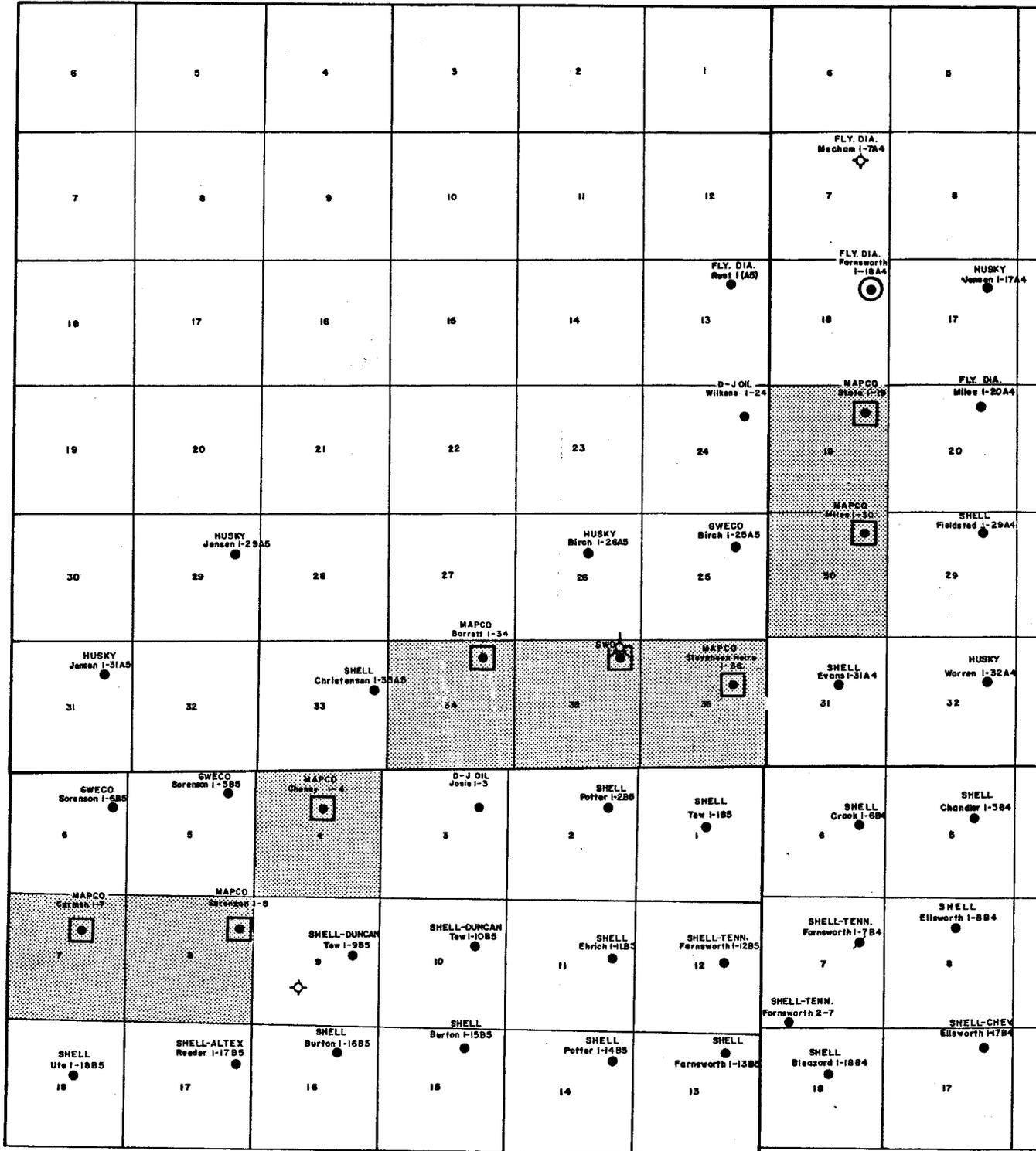
1.12 x 1000' = 1180
 1180 x 9.9502 = 11,741

Cement to 1,164 -
 Cores perfo

R 5 W

T 1 S

T 2 S



- Green River Completions
- Wasatch Completion
- △ SI



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

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

TO: All Water Disposal Well
Operators

DATE: September 30, 1980

FROM: CLEON B. FEIGHT

SUBJECT: Waste Water Disposal
Well's

A recent survey of the WDW'S in the Uintah Basin was made and the following apparent deficiencies were noted:

(1) If a high-low pressure shut-off switch was installed, in most instances the high shut-off was far above the formation break-down pressure. Also, on many wells, a pressure chart or gauge for injection pressure had not been installed.

(At this point we'd like to remind all operators that one of the conditions for the utilization of WDW'S was the selection of 0.5/lb. square inch/ft. of depth as the overall formation fracture gradient).

(2) In numerous cases we were unable to determine the presence of a recording device or meter for daily volume injected. (This Division does not at this time specify the type of recording device to be utilized, however, in the case of continued absence of any recorder, it shall and will be the prerogative of the Division to shut the WDW in until such time a working recording device is installed).

(3) Housekeeping in many areas is totally inadequate, and results in unnecessary pollution.

(4) Well identification signs were missing on several locations.

This Division would appreciate if all operators would take immediate steps to put these wells in proper operating order no later than October 30, 1980.

Due to the recent adoption of Rules & Regulations for underground injection of produced water, as well as secondary recovery, etc. by the EPA, a representative from said agency will accompany a member of this Division on our November inspection.

Memo
September 30, 1980
Page Two

So at this time we ask and hope that these wells be in First Class condition.

THANK YOU

DIVISION OF OIL, GAS AND MINING

Cleon B. Feight
CLEON B. FEIGHT
DIRECTOR

CBF/bjh

Form UIC 10
August, 1982

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
4241 State Office Building
Salt Lake City, Utah 84114

WELL INTEGRITY REPORT

Date 11/5/82

Water Disposal Well Enhanced Recovery Well _____ Other _____

DOGM/UIC Cause Number _____

Company Mapco Production Co.

Address _____

City and State Roosevelt, Utah Zip Code 84066

Lease Name or Number ^{API NO.} 43-013-30362 Well Name or Number Birch WDW 2-35

API Well Number ↓ Location _____ 1/4 of _____ 1/4 of _____

Section 35 Township 1S Range 5W County Duchesne

Present at Completion: _____ Yes No

Casing Tested in My Presence: Yes _____ No Pressure 1050 PSI 10 Minutes

Packer Tested in My Presence: Yes _____ No Pressure 1050 PSI 10 Minutes

Surface-Prod. Csg. Annulus _____ PSI Prod. Csg.-Tubing Annulus 1000 PSI

Disposed/Injected Water Sample Taken:
_____ Yes No (Attach water analysis when obtained)

This well seems to be completed in accordance with DOGM Rule I:
Yes No _____. If NO, write report.

Remarks: well not injecting at time of test
Tubing ~ 30 psi

I hereby certify that this report is true and complete to the best of my knowledge.

Name of Operator _____

(Signature) (Title)

R. J. Fifth
DOGM Field Inspector



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

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

July 27, 1983

Mapco Production Company
Roosevelt, UT 84066

Re: Well #Allred 2-16
Sec. 16, T. 1S, R. 3W.
&
Well #Birch 2-35
Sec. 35, T. 1S, R. 5W
Duchesne County, Utah

Gentlemen:

During a recent inspection of the Allred 2-16 well, it was noted that the pit was full of oil and appeared to be in poor shape. It is therefore recommended that this pit be cleaned up or burned off.

Also, for the past few months, the facility or pump house on the Birch 2-35 well has been padlocked. I called your office on 7-19-83, to inform your personned that we would be inspecting said well on the 20th or 21st of July and needed to get into the pump house to record pressures and rates. I was told that I would have to call your office before every inspection to get someone to unlock the facility. Because of our usually tight time scheduale, we were unable to call your office on the 20th, and we just missed the water hauler and the facility was still locked. Since the Environmental Protection Agency requires our Division to perform complete inspections, please advise as to how this situation can be solved and if it would be possible to obtain a key from your office to unlock the facility.

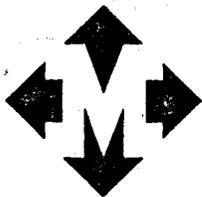
Your prompt attention and response to the above mentioned matters will be appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

THALIA R. PRATT
UIC SPECIALIST

TRP/tp



mapco
INC.

PRODUCTION DIVISION

August 10, 1983

State of Utah
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, UT 84114

RE: Allred 2-16
Sec. 16, T 1 S, R 3 W.
&
Birch 2-35
Sec. 35, T 1 S, R 5 W.
Duchesne County, Utah

Thalia Pratt:

This is in regard to your letter of 7-27-83 concerning inspection of Allred 2-16 and Birch 2-35.

The Birch 2-35 house is locked because of recent thefts. If you need to inspect said building just call from town or our doghouse at the S. Heirs 1-36. There can usually be someone on location to let you in within 10 minutes during working hours.

The pit on the Allred 2-16 has accumulated some oil on it but still doesn't have enough on it to pay to hot oil it and recover the oil. It has been our practice to hot oil these pits when there is enough oil to justify doing it even though this recovery just pays the hot oil bill. This has been done because of numerous complaints about the smoke caused by burning the pit.

Yours truly,

Darwin Kulland
Dist. Supt.

DK/sf

AUG 12 1983

DIVISION OF

OIL, GAS & MINING



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

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

July 28, 1986

Mr. Ed Whicker
Manager of Operations
Linmar Energy Corporation
P.O. Box 1327
Roosevelt, Utah 84066

Dear Mr. Whicker:

RE: Injection Well No. 2-16, 2-35, 2-32B4, Duchesne County, Utah

Recent field inspections conducted on the referenced injection wells, locations and facilities indicates that certain unacceptable operating practices are occurring. These observations and recommended correction actions necessary to effect compliance are listed below.

Allred 2-16, T1S, R3W, Section 16

- 1) Location should be cleaned up.
- 2) Need to install an adequate well identification sign.
- 3) The large pit on the location, which is nearly full of oily fluid and miscellaneous waste and trash, should not be used as a holding facility or evaporation pond. The pit is not adequately designed for such use nor is it permitted for this purpose. The pit fluid and trash should be removed and/or burned and the pit should be used only as an emergency or temporary holding facility in the future.

Birch 2-35, T1S, R5W, Section 35

This location should be cleaned up, trash removed, and pit burned off.

Russell 2-32B4, T2S, R4W, Section 32

- 1) Location should be cleaned up.

Page 2
Linmar Energy Corporation
July 28, 1986

- 2) Water leak inside the pump house should be repaired.
- 3) The lined pit is nearly overflowing. The fluid level in the pit should be lowered and maintained at a safe level below the liner top.

I realize these are difficult times for the oil industry and that it is economically difficult to justify any cash outlay that is not absolutely necessary. However, I feel these improvements would not require a significant expenditure of money other than the time and effort required to effect good operating procedures.

If you have any questions, please give me a call.

Sincerely,



Gil Hunt
UIC Program Manager

mfp
0021U-68,69

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

SUBMIT IN TRIPLED COPY
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug wells. Use "APPLICATION FOR PERMIT" (for such purposes) for such purposes.)

1. OIL WELL GAS WELL OTHER Disposal Well

2. NAME OF OPERATOR
LINMAR PETROLEUM COMPANY

3. ADDRESS OF OPERATOR
P.O. BOX 1327, ROOSEVELT, UTAH 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface:
852' FNL 1196' FEL

14. PERMIT NO.
43-013-30362

15. ELEVATIONS (Show whether OF, RT, OR, etc.)
6976' GL

MAR 14 1988
DIVISION OF OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Birch

9. WELL NO.
2-35A5

10. FIELD AND FOOT, OR WILDCAT
Altamont

11. SEC. T. R. M. OR BLK. AND SURVEY OR AREA
Sec. 35, T1S, R5W, USM

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL 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) <input type="checkbox"/>	(Other) <input type="checkbox"/>
(Other) Test Casing <input checked="" type="checkbox"/>			

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

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

In compliance with rule R615-5-5(3.1) of the Oil and Gas Conservation rules a pressure test was run on the subject well. On March 9, 1988 a hot oil unit was used to pressure test the casing to 980PSI. In 15 minutes the well bled to 940PSI. The test was witnessed by Dan Jarvis, UIC Geologist.

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

SIGNED Carroll Ellis TITLE Production Foreman DATE Mar. 11, 1988

(This space for Federal or State office use)

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

APR 21 1983



Uinta Research and Analytical Services

P.O. BOX 1488 - ROOSEVELT, UTAH 84066

James F. Smith

WATER ANALYSIS REPORT

(801) 722-2532

COMPANY Mapco Oil Co. ADDRESS Roosevelt, Utah DATE 4-15-83
 SOURCE #3 Sample-Aldridge House ANALYSIS NO. W-481

RECEIVED
 APR 19 1983

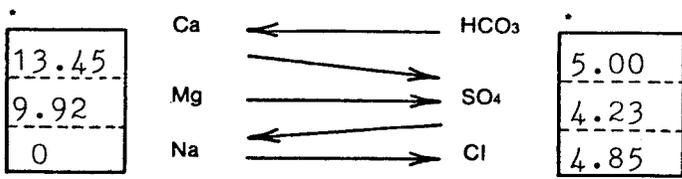
- Analysis**
1. PH 7.30
 2. H₂S (Qualitative) _____
 3. Specific Gravity 1.000
 4. Dissolved Solids _____
 5. Suspended Solids _____
 6. Phenolphthalein Alkalinity (CaCO₃) 0
 7. Methyl Orange Alkalinity (CaCO₃) 250
 8. Bicarbonate (HCO₃) _____
 9. Chlorides (Cl) _____
 10. Sulfates (SO₄) _____
 11. Calcium (Ca) _____
 12. Magnesium (Mg) _____
 13. Total Hardness (CaCO₃) _____
 14. Total Iron (Fe) _____
 15. Barium (Qualitative) _____
 16. Specific Conductivity (RW) _____
- *Milli equivalents per liter

DIVISION OF OIL, GAS & MINING

	Mg/L		*Meq/L
	<u>957.35</u>		
HCO ₃	<u>305</u>	÷ 61	<u>5.00</u>
Cl	<u>172</u>	÷ 35.5	<u>4.85</u>
SO ₄	<u>203</u>	÷ 48	<u>4.23</u>
Ca	<u>269</u>	÷ 20	<u>13.45</u>
Mg	<u>121</u>	÷ 12.2	<u>9.92</u>
	<u>1170</u>		
	<u>.30</u>		
	<u>1580</u>		<u>12593</u>
	<u>6.00</u>	Resistivity	<u>76</u> F

450' Deep

PROBABLE MINERAL COMPOSITION



Saturation Values	Distilled Water 20° C
Ca CO ₃	13 Mg/L
Ca SO ₄ · 2H ₂ O	2,090 Mg/L
Mg CO ₃	103 Mg/L

Compound	Equiv. Wt. X	Meq/L	= Mg/L
Ca (HCO ₃) ₂	81.04	<u>5.00</u>	<u>405.20</u>
Ca SO ₄	68.07	<u>4.23</u>	<u>287.94</u>
Ca Cl ₂	55.50	<u>4.22</u>	<u>234.21</u>
Mg (HCO ₃) ₂	73.17	<u>0</u>	<u>0</u>
Mg SO ₄	60.19	<u>0</u>	<u>0</u>
Mg Cl ₂	47.62	<u>.63</u>	<u>.30</u>
Na HCO ₃	84.00	<u>0</u>	<u>0</u>
Na ₂ SO ₄	71.03	<u>0</u>	<u>0</u>
Na Cl	58.46	<u>0</u>	<u>0</u>

Remarks: _____

NA= 0 mg/l

Thank you for the business:



Hinta Research and Analytical Services

P.O. BOX 1488 - ROOSEVELT, UTAH 84066

James F. Smith

WATER ANALYSIS REPORT

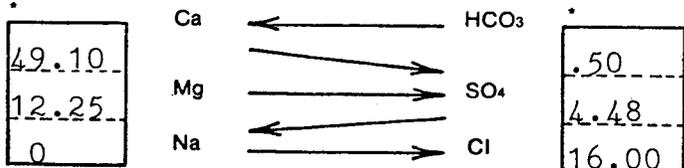
(801) 722-2532

COMPANY Mapco Oil Co. ADDRESS Roosevelt, Utah DATE: 4-15-83
 SOURCE #1 Sample-F. Aldridge DATESAMPLED _____ ANALYSIS NO. W-479

Analysis	Mg/L	*Meq/L
1. PH	<u>7.30</u>	
2. H ₂ S (Qualitative)	_____	
3. Specific Gravity	<u>1.005</u>	
4. Dissolved Solids	<u>1233.47</u>	
5. Suspended Solids	_____	
6. Phenolphthalein Alkalinity (CaCO ₃)	<u>0</u>	
7. Methyl Orange Alkalinity (CaCO ₃)	<u>25</u>	
8. Bicarbonate (HCO ₃)	HCO ₃ <u>30.5</u>	÷ 61 <u>.50</u> HCO ₃
9. Chlorides (Cl)	Cl <u>568</u>	÷ 35.5 <u>16.00</u> Cl
10. Sulfates (SO ₄)	SO ₄ <u>215</u>	÷ 48 <u>4.48</u> SO ₄
11. Calcium (Ca)	Ca <u>982</u>	÷ 20 <u>49.10</u> Ca
12. Magnesium (Mg)	Mg <u>149</u>	÷ 12.2 <u>12.25</u> Mg
13. Total Hardness (CaCO ₃)	<u>3070</u>	
14. Total Iron (Fe)	<u>.15</u>	
15. Barium (Qualitative)	_____	
16. Specific Conductivity (RW)	mmHos <u>3700</u>	ppm <u>24489</u>
Milli equivalents per liter	2.20 Resistivity <u>72</u> F	

450' Deep

PROBABLE MINERAL COMPOSITION



Saturation Values	Distilled Water 20° C
Ca CO ₃	13 Mg/L
Ca SO ₄ · 2H ₂ O	2,090 Mg/L
Mg CO ₃	103 Mg/L

Remarks: _____

Compound	Equiv. Wt. X	Meq/L	= Mg/L
Ca (HCO ₃) ₂	81.04	<u>.50</u>	<u>40.52</u>
Ca SO ₄	68.07	<u>4.48</u>	<u>304.95</u>
Ca Cl ₂	55.50	<u>16.00</u>	<u>888.00</u>
Mg (HCO ₃) ₂	73.17	<u>0</u>	<u>0</u>
Mg SO ₄	60.19	<u>0</u>	<u>0</u>
Mg Cl ₂	47.62	<u>0</u>	<u>0</u>
Na HCO ₃	84.00	<u>0</u>	<u>0</u>
Na ₂ SO ₄	71.03	<u>0</u>	<u>0</u>
Na Cl	58.46	<u>0</u>	<u>0</u>

Thank you for the business:



Hinta Research and Analytical Services

P.O. BOX 1488 - ROOSEVELT, UTAH 84066

James F. Smith

WATER ANALYSIS REPORT

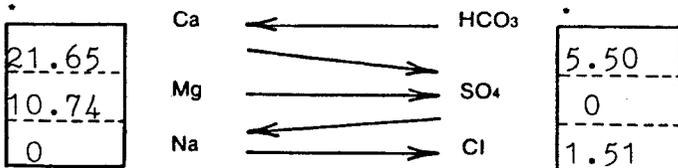
(801) 722-2532

COMPANY Mapco Oil Co. ADDRESS Roosevelt, Utah DATE: 4-15-83
 SOURCE #2 Sample-By Thompson 2-35 DATE SAMPLED _____ ANALYSIS NO. W-480

Analysis	Mg/L	*Meq/L
1. PH	<u>7.10</u>	
2. H ₂ S (Qualitative)	_____	
3. Specific Gravity	<u>1.000</u>	
4. Dissolved Solids	<u>529.53</u>	
5. Suspended Solids	_____	
6. Phenolphthalein Alkalinity (CaCO ₃)	<u>0</u>	
7. Methyl Orange Alkalinity (CaCO ₃)	<u>275</u>	
8. Bicarbonate (HCO ₃)	HCO ₃ <u>335.50</u>	÷ 61 <u>5.50</u> HCO ₃
9. Chlorides (Cl)	Cl <u>53.62</u>	÷ 35.5 <u>1.51</u> Cl
10. Sulfates (SO ₄)	SO ₄ <u>0</u>	÷ 48 <u>0</u> SO ₄
11. Calcium (Ca)	Ca <u>433</u>	÷ 20 <u>21.65</u> Ca
12. Magnesium (Mg)	Mg <u>131</u>	÷ 12.2 <u>10.74</u> Mg
13. Total Hardness (CaCO ₃)	<u>1620</u>	
14. Total Iron (Fe)	<u>.35</u>	
15. Barium (Qualitative)		
16. Specific Conductivity (RW)	mmHos <u>750</u>	ppm <u>5978</u>
*Milli equivalents per liter	10.0 Resistivity <u>71</u> F	

20' Deep

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt. X	Meq/L	= Mg/L
Ca (HCO ₃) ₂	81.04	<u>5.50</u>	<u>445.72</u>
Ca SO ₄	68.07	<u>0</u>	<u>0</u>
Ca Cl ₂	55.50	<u>1.51</u>	<u>8381</u>
Mg (HCO ₃) ₂	73.17	<u>0</u>	<u>0</u>
Mg SO ₄	60.19	<u>0</u>	<u>0</u>
Mg Cl ₂	47.62	<u>0</u>	<u>0</u>
Na HCO ₃	84.00	<u>0</u>	<u>0</u>
Na ₂ SO ₄	71.03	<u>0</u>	<u>0</u>
Na Cl	58.46	<u>0</u>	<u>0</u>

Saturation Values Distilled Water 20° C
 Ca CO₃ 13 Mg/L
 Ca SO₄ · 2H₂O 2,090 Mg/L
 Mg CO₃ 103 Mg/L

Remarks: _____

NA = 0 mg/l

Thank you for the business:

MAR 14 1983



Hinta Research and Analytical Services

P.O. BOX 1488 - ROOSEVELT, UTAH 84066

James F. Smith

(801) 722-2532

Crude Oil Analysis Report:

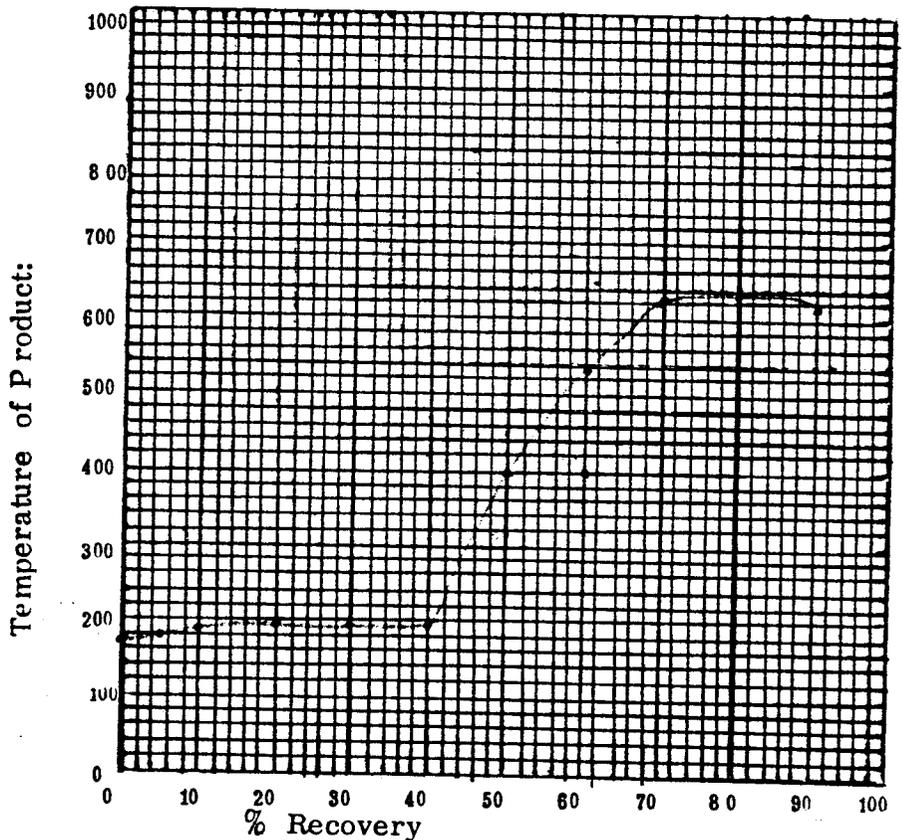
Company Name: Mapco Oil Co. Date Sampled: 2-22-83 Date: 2-28-83
 Sample Point: 1-14 E Location: _____
 Field: _____ County: Duchesene, Utah
 Depth: _____ URAS Log Number: 0-441

A.P.I. Gravity @ 60/60 f 36.7 B.S.W. % by Volume: 13.0 %
 _____ Vis at _____ °F _____
 _____ Vis at _____ °F _____

Metals:	PPM:
Sodium	1032
Iron	84
Lead	0

% Distillation:	°F
I.B.P.	172
5 %	180
10 %	188
20 %	196
30 %	196
40 %	196
50 %	400
60 %	537
70 %	622
80 %	632
90 %	626
95 %	
End Point	634
% Recovery	94.0
% Residue	5.5
% Loss	0.5

Distillation Graph:



Comments: _____

pour point 78° F.

Analyst: _____

Gas Chromatography

Hydrogen Sulfite

Oil Analysis

Well Meter Calibrations

SOONER CHEMICAL SPECIALTIES, INC.

P.O. Box 711 SEMINOLE, OKLAHOMA 74868 Phone (405) 382-2000
 P.O. Box 696 GRAND JUNCTION, COLORADO 81502 Phone (303) 858-9765
 P.O. Box 1436 ROOSEVELT, UTAH 84066 Phone (801) 722-3386

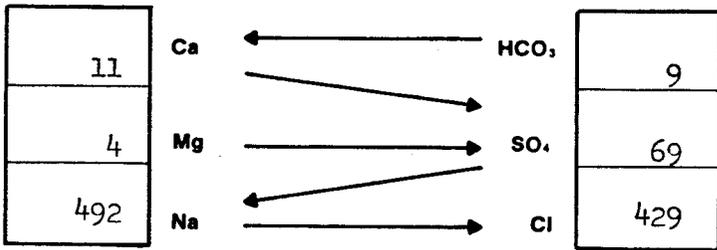
WATER ANALYSIS REPORT

COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-13-82
 SOURCE Allred 1-16 DATE SAMPLED 12-13-82 ANALYSIS NO. 792

Analysis	Mg/l (ppm)	*Meq/l
1. PH	7.5	
2. H ₂ S (Qualitative)	3.5 ppm	
3. Specific Gravity	1.0225	
4. Dissolved Solids	27,000	
5. Suspended Solids		
6. Anaerobic Bacterial Count <u>Initiated Culture</u> C/MI		
7. Methyl Orange Alkalinity (CaCO ₃)	460	
8. Bicarbonate (HCO ₃)	HCO ₃ 561	÷61 9 HCO ₃
9. Chlorides (Cl)	Cl 15,222	÷35.5 429 Cl
10. Sulfates (SO ₄)	SO ₄ 3,300	÷48 69 SO ₄
11. Calcium (Ca)	Ca 228	÷20 11 Ca
12. Magnesium (Mg)	Mg 44	÷12.2 4 Mg
13. Total Hardness (CaCO ₃)	750	
14. Total Iron (Fe)	0.8	
15. Barium (Qualitative)	0	
16. Phosphate Residuals	19.6	

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		9		729
Ca SO ₄	68.07		2		136
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		4		241
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		63		4,475
Na Cl	58.46		429		25,079

Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

REMARKS Resistivity = 0.285 Ohm Meters @ 70 °F

SOONER CHEMICAL SPECIALTIES, INC.

P.O. Box 711 SEMINOLE, OKLAHOMA 74868 Phone (405) 382-2000
 P.O. Box 696 GRAND JUNCTION, COLORADO 81502 Phone (303) 858-9765
 P.O. Box 1436 ROOSEVELT, UTAH 84066 Phone (801) 722-3386

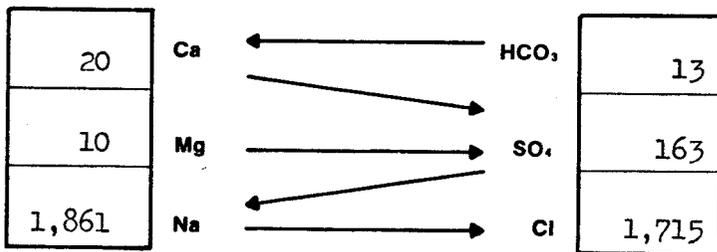
WATER ANALYSIS REPORT

COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-11-82
 SOURCE Fisher 1-12 DATE SAMPLED 12-10-82 ANALYSIS NO. 789

Analysis	Mg/l (ppm)	*Meq/l
1. PH	<u>7.1</u>	
2. H ₂ S (Qualitative)	<u>1.0 ppm</u>	
3. Specific Gravity	<u>1.0775</u>	
4. Dissolved Solids	<u>110,000</u>	
5. Suspended Solids		
6. Anaerobic Bacterial Count <u>Initiated Culture</u> C/MI		
7. Methyl Orange Alkalinity (CaCO ₃)	<u>660</u>	
8. Bicarbonate (HCO ₃)	HCO ₃ <u>805</u>	+61 <u>13</u> HCO ₃
9. Chlorides (Cl)	Cl <u>60,888</u>	+35.5 <u>1,715</u> Cl
10. Sulfates (SO ₄)	SO ₄ <u>7,800</u>	+48 <u>163</u> SO ₄
11. Calcium (Ca)	Ca <u>400</u>	+20 <u>20</u> Ca
12. Magnesium (Mg)	Mg <u>122</u>	+12.2 <u>10</u> Mg
13. Total Hardness (CaCO ₃)	<u>1,500</u>	
14. Total Iron (Fe)	<u>18</u>	
15. Barium (Qualitative)	<u>0</u>	
16. Phosphate Residuals		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Saturation Values

Distilled Water 20°C
 Ca CO₃ 13 Mg/l
 Ca SO₄ · 2H₂O 2,090 Mg/l
 Mg CO₃ 103 Mg/l

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		<u>13</u>		<u>1,054</u>
Ca SO ₄	68.07		<u>7</u>		<u>476</u>
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		<u>10</u>		<u>602</u>
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		<u>146</u>		<u>10,370</u>
Na Cl	58.46		<u>1,715</u>		<u>100,259</u>

REMARKS Resistivity = 0.109 Ohm Meters @ 70 °F

SOONER CHEMICAL SPECIALTIES, INC.

P.O. Box 711 SEMINOLE, OKLAHOMA 74868 Phone (405) 382-2000
 P.O. Box 696 GRAND JUNCTION, COLORADO 81502 Phone (303) 858-9765
 P.O. Box 1436 ROOSEVELT, UTAH 84066 Phone (801) 722-3386

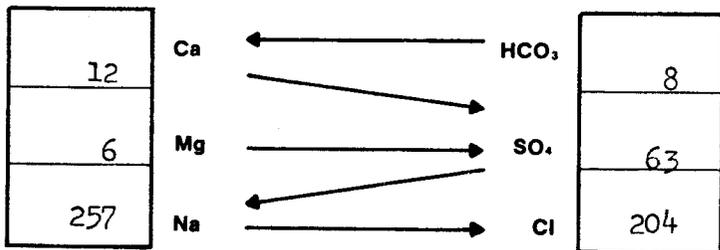
WATER ANALYSIS REPORT

COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-11-82
 SOURCE Olsen 1-27 DATE SAMPLED 12-10-82 ANALYSIS NO. 788

Analysis	Mg/l (ppm)	*Meq/l
1. PH	7.6	
2. H ₂ S (Qualitative)	3.5 ppm	
3. Specific Gravity	1.0175	
4. Dissolved Solids	27,000	
5. Suspended Solids		
6. Anaerobic Bacterial Count <u>Initiated Culture</u> C/MI		
7. Methyl Orange Alkalinity (CaCO ₃)	420	
8. Bicarbonate (HCO ₃)	HCO ₃ 512	÷61 8 HCO ₃
9. Chlorides (Cl)	Cl 7,257	÷35.5 204 Cl
10. Sulfates (SO ₄)	SO ₄ 3,000	÷48 63 SO ₄
11. Calcium (Ca)	Ca 240	÷20 12 Ca
12. Magnesium (Mg)	Mg 73	÷12.2 6 Mg
13. Total Hardness (CaCO ₃)	900	
14. Total Iron (Fe)	0.6	
15. Barium (Qualitative)	0	
16. Phosphate Residuals	13.8	

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	x	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		8		648
Ca SO ₄	68.07		4		272
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		6		361
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		53		3,765
Na Cl	58.46		204		11,926

Saturation Values Distilled Water 20°C

Ca CO₃ 13 Mg/l

Ca SO₄ · 2H₂O 2,090 Mg/l

Mg CO₃ 103 Mg/l

REMARKS Resistivity = 0.541 Ohm Meters @ 70 °F

SOONER CHEMICAL SPECIALTIES, INC.

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WATER ANALYSIS REPORT

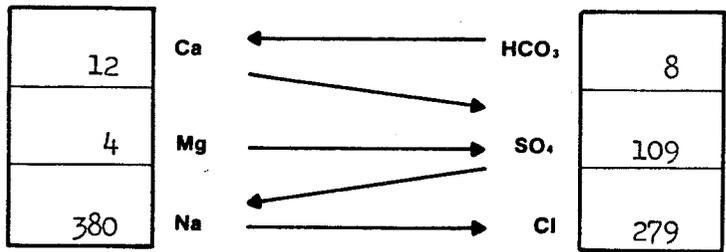
COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-11-82
 SOURCE Timothy 1-9 DATE SAMPLED 12-10 -82 ANALYSIS NO. 787

Analysis	Mg/l (ppm)	*Meq/l
1. PH	7.6	
2. H ₂ S (Qualitative)	3.0 ppm	
3. Specific Gravity	1.0150	
4. Dissolved Solids	22,000	
5. Suspended Solids		
6. Anaerobic Bacterial Count <u>Initiated Culture</u> C/MI		
7. Methyl Orange Alkalinity (CaCO ₃)	400	
8. Bicarbonate (HCO ₃)	HCO ₃ 488	÷61 8 HCO ₃
9. Chlorides (Cl)	Cl 9,912	÷35.5 279 Cl
10. Sulfates (SO ₄)	SO ₄ 5,250	÷48 109 SO ₄
11. Calcium (Ca)	Ca 240	÷20 12 Ca
12. Magnesium (Mg)	Mg 49	÷12.2 4 Mg
13. Total Hardness (CaCO ₃)	800	
14. Total Iron (Fe)	0.4	
15. Barium (Qualitative)	0	
16. Phosphate Residuals		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		8		648
Ca SO ₄	68.07		4		272
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		4		241
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		101		7,174
Na Cl	58.46		279		16,310



Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

REMARKS Resistivity = 0.389 Ohm Meters @ 70 °F

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WATER ANALYSIS REPORT

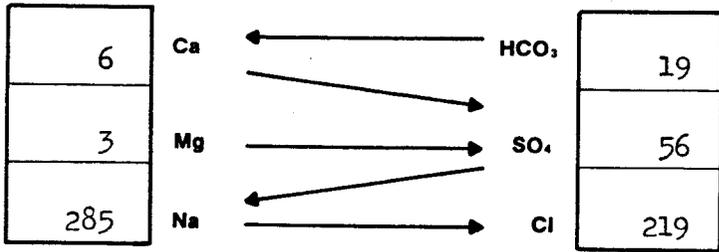
COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-11-82
 SOURCE Fisher 1-7 DATE SAMPLED 12-10-82 ANALYSIS NO. 786

Analysis	Mg/l (ppm)	*Meq/l
1. PH	7.9	
2. H ₂ S (Qualitative)	108.0 ppm	
3. Specific Gravity	1.0100	
4. Dissolved Solids	15,000	
5. Suspended Solids		
6. Anaerobic Bacterial Count <u>Initiated Culture</u> C/MI		
7. Methyl Orange Alkalinity (CaCO ₃)	960	
8. Bicarbonate (HCO ₃)	HCO ₃ 1,171	÷61 19 HCO ₃
9. Chlorides (Cl)	Cl 7,788	÷35.5 219 Cl
10. Sulfates (SO ₄)	SO ₄ 2,700	÷48 56 SO ₄
11. Calcium (Ca)	Ca 120	÷20 6 Ca
12. Magnesium (Mg)	Mg 36	÷12.2 3 Mg
13. Total Hardness (CaCO ₃)	450	
14. Total Iron (Fe)	0.6	
15. Barium (Qualitative)	0	
16. Phosphate Residuals		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		6		486
Ca SO ₄	68.07				
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17		3		220
Mg SO ₄	60.19				
Mg Cl ₂	47.62				
Na HCO ₃	84.00		10		840
Na ₂ SO ₄	71.03		56		3,978
Na Cl	58.46		219		12,803



Saturation Values Distilled Water 20° C

Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

REMARKS Resistivity = 0.558 Ohm Meters @ 70 °F

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WATER ANALYSIS REPORT

COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-11-82
 SOURCE Ralphs 1-5 DATE SAMPLED 12-10-82 ANALYSIS NO. 785

Analysis	Mg/l (ppm)	*Meq/l
1. PH	8.0	
2. H ₂ S (Qualitative)	180.0 ppm	
3. Specific Gravity	1.010	
4. Dissolved Solids	15,000	
5. Suspended Solids		
6. Anaerobic Bacterial Count <u>Initiated Culture</u> C/MI		
7. Methyl Orange Alkalinity (CaCO ₃)	1,500	
8. Bicarbonate (HCO ₃)	HCO ₃ 1,830	+61 30 HCO ₃
9. Chlorides (Cl)	Cl 2,124	+35.5 60 Cl
10. Sulfates (SO ₄)	SO ₄ 20	+48 0 SO ₄
11. Calcium (Ca)	Ca 80	+20 4 Ca
12. Magnesium (Mg)	Mg 24	+12.2 2 Mg
13. Total Hardness (CaCO ₃)	300	
14. Total Iron (Fe)	1.8	
15. Barium (Qualitative)	0	
16. Phosphate Residuals		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		4		324
Ca SO ₄	68.07				
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17		2		146
Mg SO ₄	60.19				
Mg Cl ₂	47.62				
Na HCO ₃	84.00		24		2,016
Na ₂ SO ₄	71.03				
Na Cl	58.46		60		3,508

Saturation Values Distilled Water 20°C

Ca CO₃ 13 Mg/l

Ca SO₄ · 2H₂O 2,090 Mg/l

Mg CO₃ 103 Mg/l

REMARKS Resistivity = 0.821 Ohm Meters @ 70 °F

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WATER ANALYSIS REPORT

COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-11-82
 SOURCE Marshall 1-20 DATE SAMPLED 12-10 ANALYSIS NO. 784

Analysis	Mg/l (ppm)	*Meq/l
1. PH	<u>7.3</u>	
2. H ₂ S (Qualitative)	<u>2.0 ppm</u>	
3. Specific Gravity	<u>1.0125</u>	
4. Dissolved Solids	<u>20,000</u>	
5. Suspended Solids		
6. Anaerobic Bacterial Count <u>Initiated Culture</u> C/MI		
7. Methyl Orange Alkalinity (CaCO ₃)	<u>440</u>	
8. Bicarbonate (HCO ₃)	HCO ₃ <u>537</u> ÷61 <u>9</u> HCO ₃	
9. Chlorides (Cl)	Cl <u>3,186</u> ÷35.5 <u>90</u> Cl	
10. Sulfates (SO ₄)	SO ₄ <u>4,650</u> ÷48 <u>97</u> SO ₄	
11. Calcium (Ca)	Ca <u>120</u> ÷20 <u>6</u> Ca	
12. Magnesium (Mg)	Mg <u>49</u> ÷12.2 <u>4</u> Mg	
13. Total Hardness (CaCO ₃)	<u>500</u>	
14. Total Iron (Fe)	<u>0.4</u>	
15. Barium (Qualitative)	<u>0</u>	
16. Phosphate Residuals	<u>26.6</u>	

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		<u>6</u>		<u>486</u>
Ca SO ₄	68.07				
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17		<u>3</u>		<u>220</u>
Mg SO ₄	60.19		<u>1</u>		<u>60</u>
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		<u>96</u>		<u>6,819</u>
Na Cl	58.46		<u>90</u>		<u>5,261</u>

Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

REMARKS Resistivity = 0.839 Ohm Meters @ 70 °F

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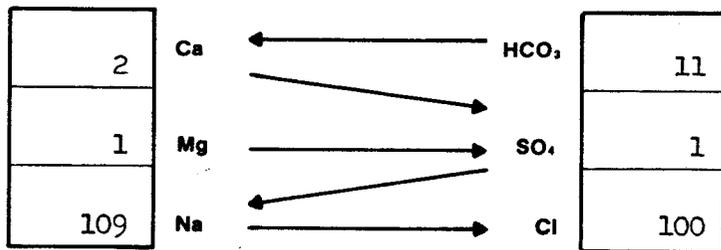
WATER ANALYSIS REPORT

COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-II-82
 SOURCE State 1-8 DATE SAMPLED 12-10 ANALYSIS NO. 783

Analysis	Mg/l (ppm)	*Meq/l
1. PH	<u>7.7</u>	
2. H ₂ S (Qualitative)	<u>0.5 ppm</u>	
3. Specific Gravity	<u>1.0075</u>	
4. Dissolved Solids	<u>10,000</u>	
5. Suspended Solids		
6. Anaerobic Bacterial Count <u>Initiated Culture</u> C/MI		
7. Methyl Orange Alkalinity (CaCO ₃)	<u>560</u>	
8. Bicarbonate (HCO ₃)	<u>683</u>	<u>11</u>
9. Chlorides (Cl)	<u>3,540</u>	<u>100</u>
10. Sulfates (SO ₄)	<u>40</u>	<u>1</u>
11. Calcium (Ca)	<u>45</u>	<u>2</u>
12. Magnesium (Mg)	<u>9</u>	<u>1</u>
13. Total Hardness (CaCO ₃)	<u>150</u>	
14. Total Iron (Fe)	<u>2.2</u>	
15. Barium (Qualitative)	<u>0</u>	
16. Phosphate Residuals	<u>12.7</u>	

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		<u>2</u>		<u>162</u>
Ca SO ₄	68.07				
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17		<u>1</u>		<u>73</u>
Mg SO ₄	60.19				
Mg Cl ₂	47.62				
Na HCO ₃	84.00		<u>8</u>		<u>67</u>
Na ₂ SO ₄	71.03		<u>1</u>		<u>71</u>
Na Cl	58.46		<u>100</u>		<u>5,846</u>

Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

REMARKS Resistivity = 1.309 Ohm Meters @ 70 °F

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WATER ANALYSIS REPORT

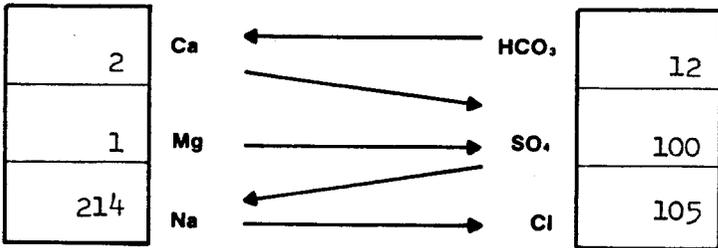
COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-11-82
 SOURCE Miles 1-30 DATE SAMPLED 12-10-82 ANALYSIS NO. 782

Analysis	Mg/l (ppm)	*Meq/l
1. PH	7.8	
2. H ₂ S (Qualitative)	1.0 ppm	
3. Specific Gravity	1.0125	
4. Dissolved Solids	20,000	
5. Suspended Solids		
6. Anaerobic Bacterial Count <u>Initiated Culture</u> C/MI		
7. Methyl Orange Alkalinity (CaCO ₃)	620	
8. Bicarbonate (HCO ₃)	HCO ₃ 756	÷61 12 HCO ₃
9. Chlorides (Cl)	Cl 3,710	÷35.5 105 Cl
10. Sulfates (SO ₄)	SO ₄ 4,800	÷48 100 SO ₄
11. Calcium (Ca)	Ca 42	÷20 2 Ca
12. Magnesium (Mg)	Mg 12	÷12.2 1 Mg
13. Total Hardness (CaCO ₃)	150	
14. Total Iron (Fe)	0.4	
15. Barium (Qualitative)	0	
16. Phosphate Residuals		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		2		162
Ca SO ₄	68.07				
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17		1		73
Mg SO ₄	60.19				
Mg Cl ₂	47.62				
Na HCO ₃	84.00		9		756
Na ₂ SO ₄	71.03		100		7,103
Na Cl	58.46		105		6,138



Saturation Values Distilled Water 20°C

Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

REMARKS Resistivity = 0.649 Ohm Meters @ 70 °F

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WATER ANALYSIS REPORT

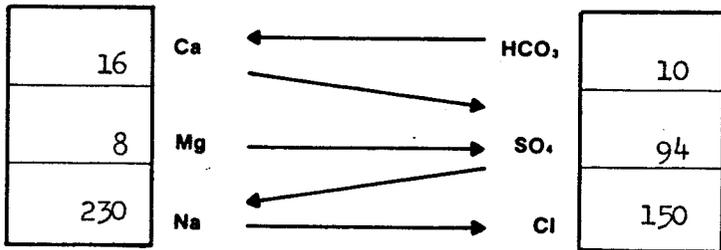
COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-11-82
 SOURCE Barrett 1-34 DATE SAMPLED 12-10-82 ANALYSIS NO. 781

Analysis	Mg/l (ppm)	*Meq/l
1. PH	<u>7.7</u>	
2. H ₂ S (Qualitative)	<u>1.5 ppm</u>	
3. Specific Gravity	<u>1.0125</u>	
4. Dissolved Solids	<u>20,000</u>	
5. Suspended Solids		
6. Anaerobic Bacterial Count <u>Initiated Culture</u> C/MI		
7. Methyl Orange Alkalinity (CaCO ₃)	<u>510</u>	
8. Bicarbonate (HCO ₃)	HCO ₃ <u>622</u>	<u>10</u> HCO ₃
9. Chlorides (Cl)	Cl <u>5,310</u>	<u>150</u> Cl
10. Sulfates (SO ₄)	SO ₄ <u>4,500</u>	<u>94</u> SO ₄
11. Calcium (Ca)	Ca <u>320</u>	<u>16</u> Ca
12. Magnesium (Mg)	Mg <u>97</u>	<u>8</u> Mg
13. Total Hardness (CaCO ₃)	<u>1,200</u>	
14. Total Iron (Fe)	<u>3.2</u>	
15. Barium (Qualitative)	<u>0</u>	
16. Phosphate Residuals	<u>14.2</u>	

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		<u>10</u>		<u>810</u>
Ca SO ₄	68.07		<u>6</u>		<u>408</u>
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		<u>8</u>		<u>482</u>
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		<u>80</u>		<u>5,682</u>
Na Cl	58.46		<u>150</u>		<u>8,769</u>



Saturation Values Distilled Water 20°C

Ca CO₃ 13 Mg/l
 Ca SO₄ · 2H₂O 2,090 Mg/l
 Mg CO₃ 103 Mg/l

Na HCO₃ 84.00
 Na₂ SO₄ 71.03
 Na Cl 58.46

REMARKS Resistivity = 0.635 Ohm Meters @ 70 °F

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WATER ANALYSIS REPORT

COMPANY Mapco Production ADDRESS Roosevelt, Utah DATE: 12-11-82
 SOURCE Birch 1-35 DATE SAMPLED 12-10-82 ANALYSIS NO. 777

Analysis	Mg/l (ppm)	*Meq/l
1. PH	7.9	
2. H ₂ S (Qualitative)	1.0 ppm	
3. Specific Gravity	1.0125	
4. Dissolved Solids	20,000	
5. Suspended Solids		
6. Anaerobic Bacterial Count <u>Initiated Culture</u> C/MI		
7. Methyl Orange Alkalinity (CaCO ₃)	500	
8. Bicarbonate (HCO ₃)	HCO ₃ 610	+61 10 HCO ₃
9. Chlorides (Cl)	Cl 5,310	+35.5 150 Cl
10. Sulfates (SO ₄)	SO ₄ 9,750	+48 203 SO ₄
11. Calcium (Ca)	Ca 540	+20 27 Ca
12. Magnesium (Mg)	Mg 73	+12.2 6 Mg
13. Total Hardness (CaCO ₃)	1,650	
14. Total Iron (Fe)	0.6	
15. Barium (Qualitative)	0	
16. Phosphate Residuals		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		10		810
Ca SO ₄	68.07		17		1,157
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		6		361
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		180		12,785
Na Cl	58.46		150		8,769

Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

REMARKS Resistivity = 0.743 Ohm Meters @ 70 °F

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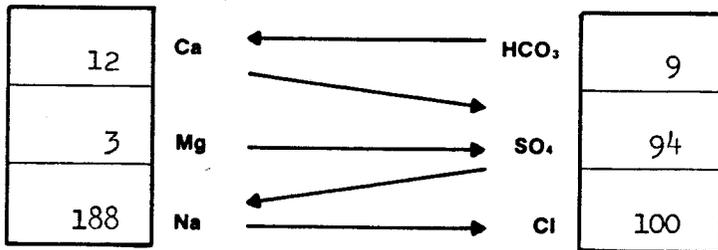
WATER ANALYSIS REPORT

COMPANY Mapco Production ADDRESS Roosevelt, Utah DATE: 12-11-82
 SOURCE Sorenson 1-8 DATE SAMPLED 12-10-82 ANALYSIS NO. 778

Analysis	Mg/l (ppm)	*Meq/l
1. PH	7.7	
2. H ₂ S (Qualitative)	1.5 ppm	
3. Specific Gravity	1.0150	
4. Dissolved Solids	8,000	
5. Suspended Solids	275,000	
6. Anaerobic Bacterial Count <u>Initiated Culture</u> C/MI		
7. Methyl Orange Alkalinity (CaCO ₃)	470	
8. Bicarbonate (HCO ₃)	HCO ₃ 573	÷61 9 HCO ₃
9. Chlorides (Cl)	Cl 3,540	÷35.5 100 Cl
10. Sulfates (SO ₄)	SO ₄ 4,500	÷48 94 SO ₄
11. Calcium (Ca)	Ca 240	÷20 12 Ca
12. Magnesium (Mg)	Mg 36	÷12.2 3 Mg
13. Total Hardness (CaCO ₃)	750	
14. Total Iron (Fe)	0.8	
15. Barium (Qualitative)	0	
16. Phosphate Residuals		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		9		729
Ca SO ₄	68.07		3		204
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		3		181
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		88		6,251
Na Cl	58.46		100		5,846

Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

REMARKS Resistivity = 1.038 Ohm Meters @ 70 °F

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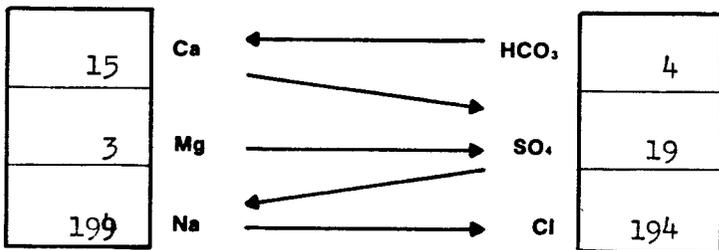
WATER ANALYSIS REPORT

COMPANY Mapco Production ADDRESS Roosevelt, Utah DATE: 12-11-82
 SOURCE State 1-19 DATE SAMPLED 12-10-82 ANALYSIS NO. 779

Analysis	Mg/l (ppm)	*Meq/l
1. PH	<u>7.3</u>	
2. H ₂ S (Qualitative)	<u>1.0 ppm</u>	
3. Specific Gravity	<u>1.0150</u>	
4. Dissolved Solids	<u>22,000</u>	
5. Suspended Solids		
6. Anaerobic Bacterial Count <u>Initiated Culture</u> C/MI		
7. Methyl Orange Alkalinity (CaCO ₃)	<u>180</u>	
8. Bicarbonate (HCO ₃)	HCO ₃ <u>220</u>	<u>4</u> HCO ₃
9. Chlorides (Cl)	Cl <u>6,903</u>	<u>194</u> Cl
10. Sulfates (SO ₄)	SO ₄ <u>900</u>	<u>19</u> SO ₄
11. Calcium (Ca)	Ca <u>300</u>	<u>15</u> Ca
12. Magnesium (Mg)	Mg <u>36</u>	<u>3</u> Mg
13. Total Hardness (CaCO ₃)	<u>900</u>	
14. Total Iron (Fe)	<u>1.4</u>	
15. Barium (Qualitative)	<u>0</u>	
16. Phosphate Residuals	<u>17.4</u>	

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		<u>4</u>		<u>324</u>
Ca SO ₄	68.07		<u>11</u>		<u>969</u>
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		<u>3</u>		<u>181</u>
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		<u>5</u>		<u>355</u>
Na Cl	58.46		<u>194</u>		<u>11,341</u>

Saturation Values

Distilled Water 20°C

Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

Resistivity = 0.675 Ohm Meters @ 70 °F

REMARKS _____

SOONER CHEMICAL SPECIALTIES, INC.

P.O. Box 711 SEMINOLE, OKLAHOMA 74868 Phone (405) 382-2000
 P.O. Box 696 GRAND JUNCTION, COLORADO 81502 Phone (303) 858-9765
 P.O. Box 1436 ROOSEVELT, UTAH 84066 Phone (801) 722-3386

WATER ANALYSIS REPORT

COMPANY Mapco Production ADDRESS Roosevelt, Utah DATE: 12-11-82
 SOURCE Stephenson Heirs 1-36 DATE SAMPLED 12-10-82 ANALYSIS NO. 780

Analysis	Mg/l (ppm)	*Meq/l
1. PH	7.7	
2. H ₂ S (Qualitative)	0.5 ppm	
3. Specific Gravity	1.0175	
4. Dissolved Solids	27,000	
5. Suspended Solids		
6. Anaerobic Bacterial Count <u>Initiated Culture</u> C/MI		
7. Methyl Orange Alkalinity (CaCO ₃)	460	
8. Bicarbonate (HCO ₃)	HCO ₃ 561	+61 9 HCO ₃
9. Chlorides (Cl)	Cl 4,602	+35.5 130 Cl
10. Sulfates (SO ₄)	SO ₄ 5,250	+48 109 SO ₄
11. Calcium (Ca)	Ca 480	+20 24 Ca
12. Magnesium (Mg)	Mg 73	+12.2 6 Mg
13. Total Hardness (CaCO ₃)	1,500	
14. Total Iron (Fe)	2.2	
15. Barium (Qualitative)	0	
16. Phosphate Residuals	8.6	

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		9		729
Ca SO ₄	68.07		15		1,021
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		6		361
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		88		6,251
Na Cl	58.46		130		7,600

Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

REMARKS Resistivity = 0.652 Ohm Meters @ 70 °F



JUN 2 1975

LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84025

(801) 722-2254

LABORATORY NUMBER W-2198
 SAMPLE TAKEN _____
 SAMPLE RECEIVED 4-24-75
 RESULTS REPORTED 5-2-75

SAMPLE DESCRIPTION _____ FIELD NO. _____
 COMPANY Mapco Production Inc. LEASE Allred WDW WELL NO. 2-16
 FIELD _____ COUNTY _____ STATE _____
 SAMPLE TAKEN FROM _____
 PRODUCING FORMATION _____ TOP _____
 REMARKS

ZONE # 2 All zones open.

SAMPLE TAKEN BY _____

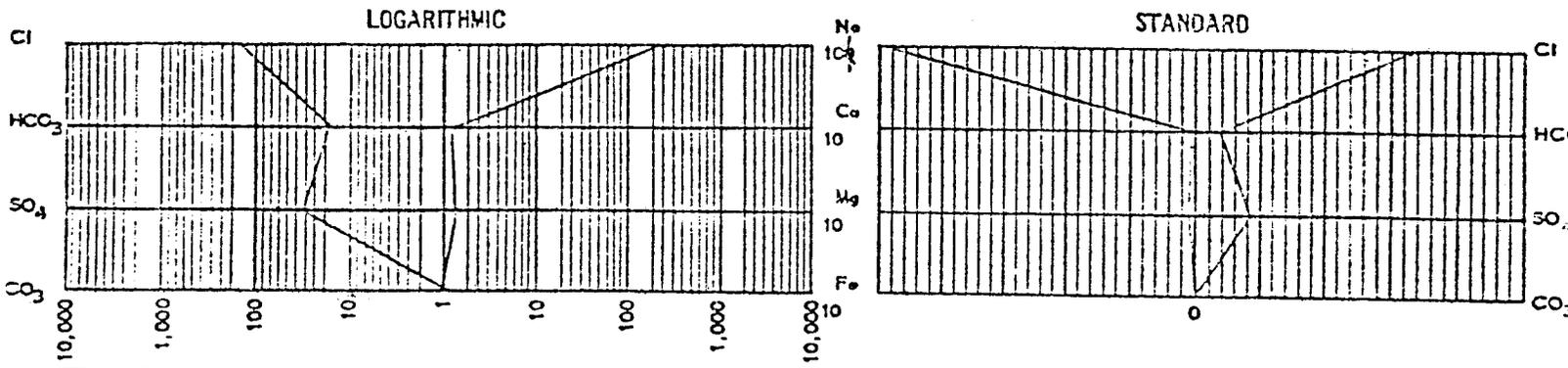
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0098 pH 7.95 RES. 0.50 OHM METERS @ 77° F

TOTAL HARDNESS 147.54 mg/L as CaCO₃ TOTAL ALKALINITY 1104.0 mg/L as CaCO₃

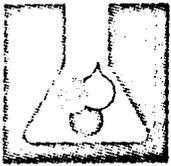
CONSTITUENT	MILLIGRAMS PER LITER mg. L.	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	22.8	1.14		
MAGNESIUM - Mg ++	21.7	1.78		
SODIUM - Na +	5600.0	243.48		
BARIUM (INCL. STRONTIUM) - Ba ++	0	0		
TOTAL IRON - Fe + - AND Fe +++	0.72	0.03	246.40	
BICARBONATE - HCO ₃ ⁻	1104.0	18.10		
CARBONATE - CO ₃ ⁻	0	0		
SULFATE - SO ₄ ⁻	2005.	41.77		
CHLORIDE - CL ⁻	5847.7	164.72	224.59	
TOTAL DISSOLVED SOLIDS	11178.			

MILLEQUIVALENTS PER LITER



ANALYST _____

CHECKED _____



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

LABORATORY NUMBER W-2093
 SAMPLE TAKEN 4-9-75
 SAMPLE RECEIVED 4-10-75
 RESULTS REPORTED 4-15-75

SAMPLE DESCRIPTION _____ FIELD NO. _____
 COMPANY Mapco Production LEASE Birch WELL NO. 2-35
 FIELD _____ COUNTY _____ STATE _____
 SAMPLE TAKEN FROM _____
 PRODUCING FORMATION _____ TOP _____
 REMARKS _____

SAMPLE TAKEN BY Steve Hale

CHEMICAL AND PHYSICAL PROPERTIES

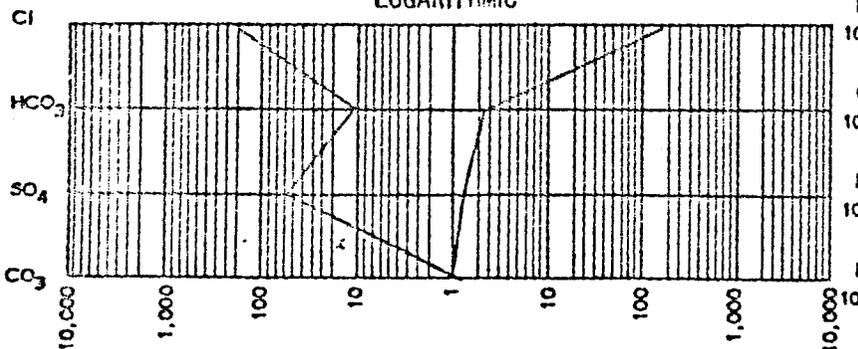
SPECIFIC GRAVITY @60/60° F. 1.0084 pH 7.73 RES. 0.60 OHM METERS @ 77° F

TOTAL HARDNESS 201.44 mg/L as CaCO₃ TOTAL ALKALINITY 718.0 mg/L as CaCO₃

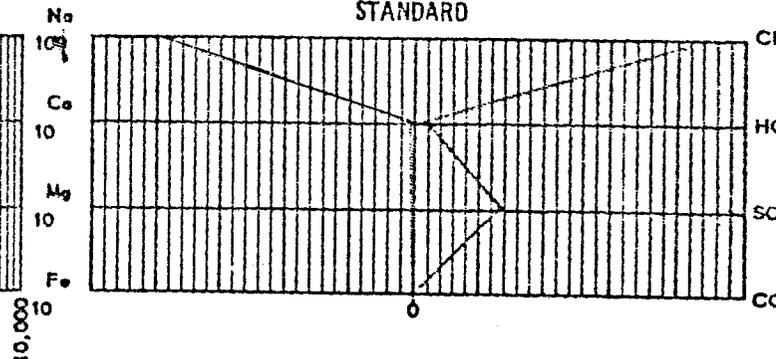
CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ⁺⁺	52.20	2.61		
MAGNESIUM - Mg ⁺⁺	17.20	1.41		
SODIUM - Na ⁺	4510.0	196.09		
BARIUM (INCL. STRONTIUM) - Ba ⁺⁺	1.32	0.02		
TOTAL IRON - Fe ⁺⁺ AND Fe ⁺⁺⁺	0.17	0.006	200.14	
BICARBONATE - HCO ₃ ⁻	718.0	11.77		
CARBONATE - CO ₃ ⁻⁻⁻	0	0		
SULFATE - SO ₄ ⁻⁻⁻	3300.0	68.75		
CHLORIDE - CL ⁻	7597.0	214.0	294.52	
TOTAL DISSOLVED SOLIDS	11000.			

MILLEQUIVALENTS PER LITER

LOGARITHMIC



STANDARD



ANALYST _____

CHECKED _____



LITE RESEARCH LABORATORIES

P. O. Box 266

Fort Duchesne, Utah 84026

(801) 722-2254

LABORATORY NUMBER W-9640
 SAMPLE TAKEN _____
 SAMPLE RECEIVED 6-2-80
 RESULTS REPORTED 6-4-80

SAMPLE DESCRIPTION _____ FIELD NO. ALLRED
 COMPANY MAPCO INC. LEASE _____ WELL NO. #1-16
 FIELD _____ COUNTY _____ STATE UTAH
 SAMPLE TAKEN FROM Allred #1-16 ? ?
 PRODUCING FORMATION _____ TOP _____

REMARKS

complete H₂O

submitted

SAMPLE TAKEN BY Mitchell Hall

CHEMICAL AND PHYSICAL PROPERTIES

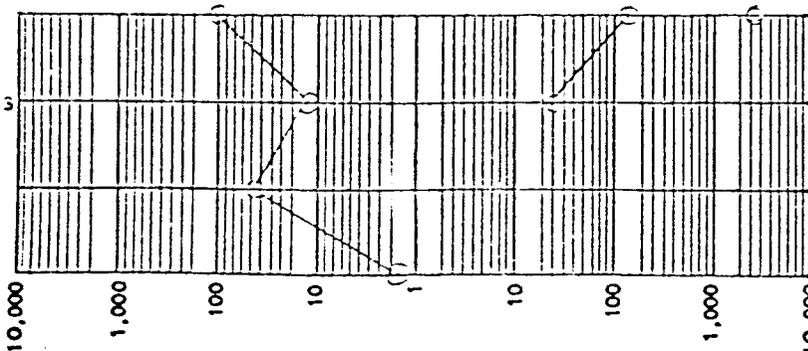
SPECIFIC GRAVITY @60/60° F. 1.0076 pH 8.62 RES. 0.94 OHM METERS @ 77° F

TOTAL HARDNESS 176 mg/L as CaCO₃ TOTAL ALKALINITY 1,113 mg/L as CaCO₃

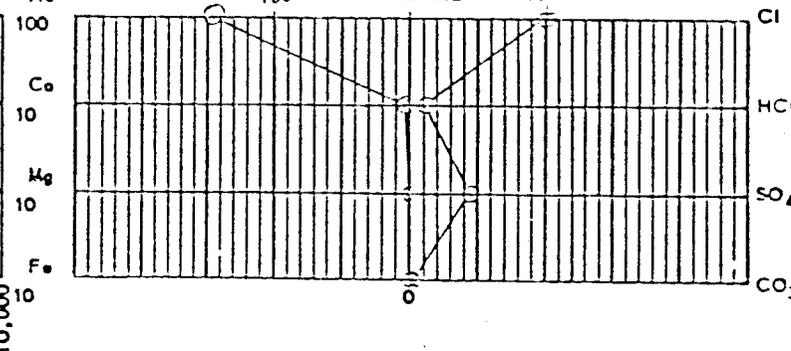
CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	56	2.79		
MAGNESIUM - Mg ++	8.5	.70		
SODIUM - Na +	3400	147.83		
BARIUM (INCL. STRONTIUM) - Ba ++	.0	.00		
TOTAL IRON - Fe ++ AND Fe +++	0.7	.03	151.34	
BICARBONATE - HCO ₃ ⁻	629	10.31		
CARBONATE - CO ₃ ⁻⁻	49.2	1.64		
SULFATE - SO ₄ ⁻⁻	2,140	44.56		
CHLORIDE - CL ⁻	3,550	100.11	156.62	
TOTAL DISSOLVED SOLIDS	9,280.0			

MILLEQUIVALENTS PER LITER

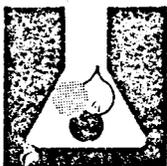
LOGARITHMIC



STANDARD



ANALYST _____



LITE RESEARCH LABORATORY

P.O. Box 119

Fort Duchesne, Utah 84026

JUN 2 1975

*Birch
Mills } Poor
St. Helena } H₂O
Quality*

LABORATORY NUMBER W-2246
 SAMPLE TAKEN _____
 SAMPLE RECEIVED 5-5-75
 RESULTS REPORTED 5-6-75

SAMPLE DESCRIPTION _____ FIELD NO. _____
 COMPANY Mapco Production Inc. LEASE Allred WELL NO. 1-16
 FIELD _____ COUNTY _____ STATE _____
 SAMPLE TAKEN FROM _____
 PRODUCING FORMATION _____ TOP _____
 REMARKS _____

SAMPLE TAKEN BY Floyd Collett

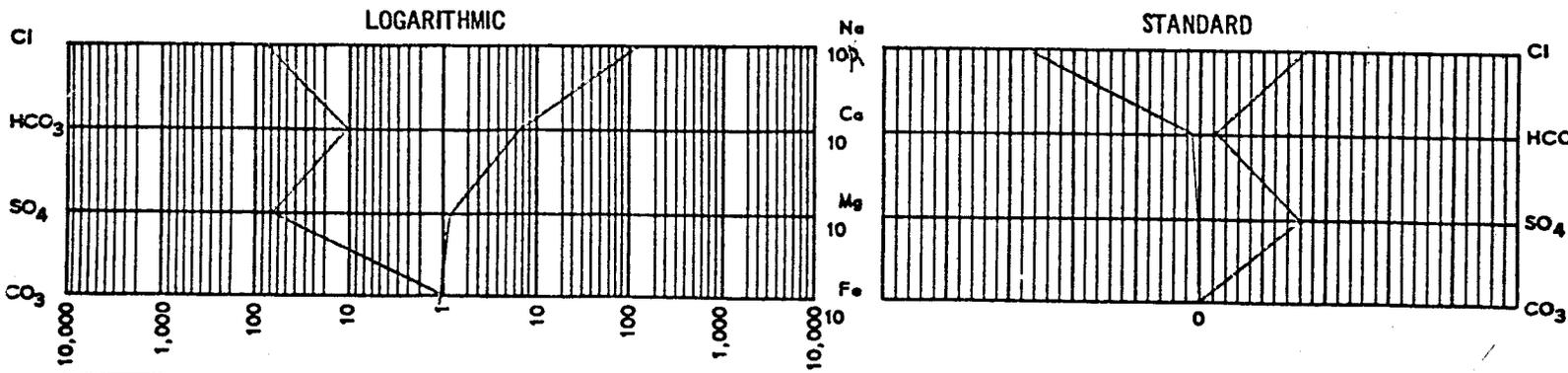
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0062 pH 8.15 RES. 7.50 OHM METERS @ 77° F

TOTAL HARDNESS 451.16 mg/L as CaCO₃ TOTAL ALKALINITY 670.0 mg/L as CaCO₃

CONSTITUENT	MILLIGRAMS PER LITER mg/L.	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	150.0	7.5		
MAGNESIUM - Mg ++	16.0	1.31		
SODIUM - Na +	3100.0	134.78		
BARIUM (INCL. STRONTIUM) - Ba ++	0	0		
TOTAL IRON - Fe ++ AND Fe +++	6.0	0.21	143.80	
BICARBONATE - HCO ₃ ⁻	670.0	10.98		
CARBONATE - CO ₃ ⁻	0	0		
SULFATE - SO ₄ ⁻	3820.0	79.58		
CHLORIDE - CL ⁻	3003.8	84.61	175.17	
TOTAL DISSOLVED SOLIDS	10800			

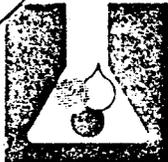
MILLEQUIVALENTS PER LITER



ANALYST _____

CHECKED _____

SEP 27 1974



LITE RESEARCH LABORATORIES

P O Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

LABORATORY NUMBER W-1386
 SAMPLE TAKEN _____
 SAMPLE RECEIVED _____
 RESULTS REPORTED _____

SAMPLE DESCRIPTION FIELD NO. _____
 COMPANY MAPCO LEASE Alred WELL NO. 116
 FIELD Altamont COUNTY Duchesne STATE Utah
 SAMPLE TAKEN FROM _____
 PRODUCING FORMATION _____ TOP _____
 REMARKS _____

SAMPLE TAKEN BY _____

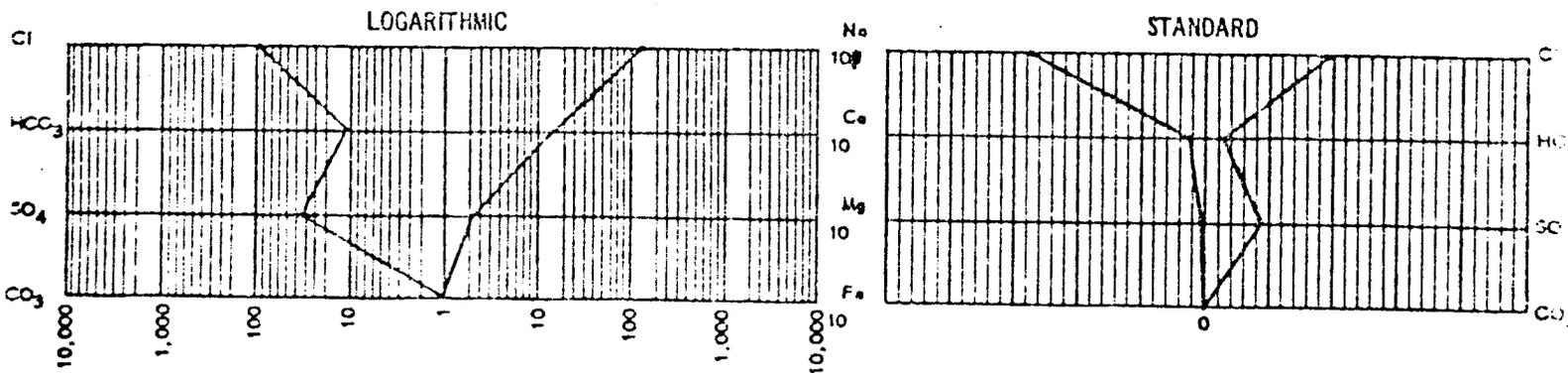
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 0.9949 pH 7.65 RES. .60 OHM METERS @ 77° F

TOTAL HARDNESS 834.2 mg/L as CaCO₃ TOTAL ALKALINITY 652 mg/L as CaCO₃

CONSTITUENT	MILLIGRAMS PER LITER mg L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	284.0	14.2		
MAGNESIUM - Mg ++	25.8	2.1		
SODIUM - Na +	3150.0	137.0		
BARIUM (INCL. STRONTIUM) - Ba ++	12.7	0.19		
TOTAL IRON - Fe ++ AND Fe +++	10.50	0.38	153.8	
BICARBONATE - HCO ₃ ⁻	652	10.7		
CARBONATE - CO ₃ ⁻⁻	0	0		
SULFATE - SO ₄ ⁻⁻	2215	46.1		
CHLORIDE - CL -	3448.6	97.1		
TOTAL DISSOLVED SOLIDS	10800.0			

MILLEQUIVALENTS PER LITER



ANALYST _____

CHECKED _____



LIFE RESEARCH LABORATORIES

P.O. BOX 119

Provo, Utah 84606

(801) 722-2254

LABORATORY NUMBER W-3578
 SAMPLE TAKEN 9/19/76
 SAMPLE RECEIVED 9/20/76
 RESULTS REPORTED 8 9/24/76

SAMPLE DESCRIPTION _____ FIELD NO. _____
 COMPANY ~~XXXXXX~~ Mapco Inc. LEASE _____ WELL NO. _____
 FIELD _____ COUNTY _____ STATE _____
 SAMPLE TAKEN FROM Allred 1-16
 PRODUCING FORMATION _____ TOP _____
 REMARKS Carl Roosevelt, Utah
M 722-4521
 SAMPLE TAKEN BY Collins

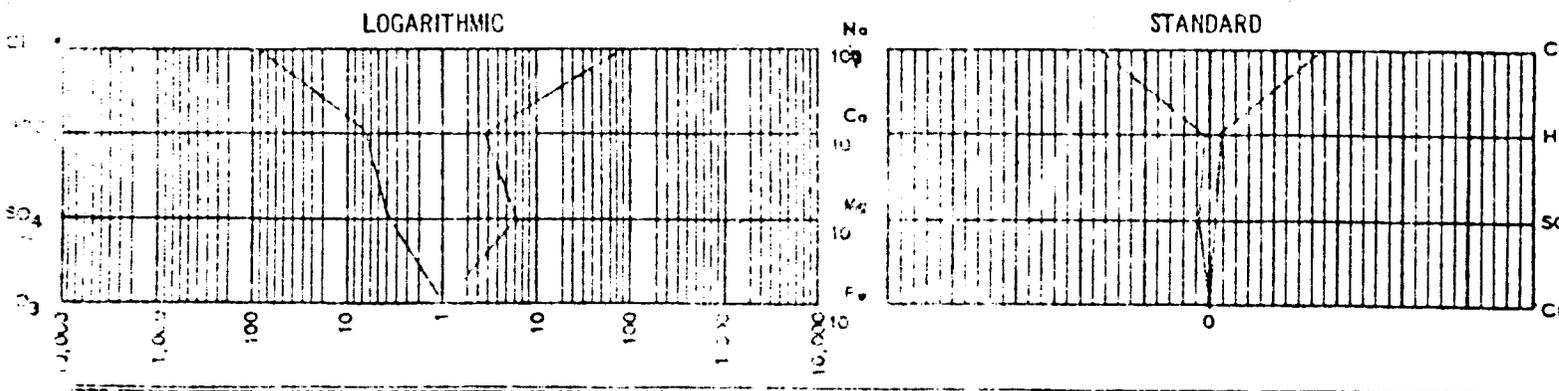
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0050 pH 7.10 RES. 114.0 OHM METERS @ 77° F

TOTAL HARDNESS 534.0 mg/L as CaCO₃ TOTAL ALKALINITY 746.0 mg/L as CaCO₃

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	72.0	3.60		
MAGNESIUM - Mg ++	85.8	7.03		
SODIUM - Na +	1945.0	84.57		
BARIUM (INCL. STRONTIUM) - Ba ++	10.0	0.15		
TOTAL IRON - Fe ++ AND Fe +++	0.67	0.02	95.36	
BICARBONATE - HCO ₃ ⁻	455.16	7.46		
CARBONATE - CO ₃ ⁻⁻	0	0		
SULFATE - SO ₄ ⁻⁻	236.0	4.92		
CHLORIDE - CL ⁻	3098.0	87.27	99.65	
TOTAL DISSOLVED SOLIDS	6,092.2			

MILLEQUIVALENTS PER LITER



ANALYST _____

REPORT _____



LITE RESEARCH LABORATORIES

(801) 722-2254

LABORATORY NUMBER W-3666
 SAMPLE TAKEN 10/14/76
 SAMPLE RECEIVED 10/15/76
 RESULTS REPORTED _____

SAMPLE DESCRIPTION _____ FIELD NO. Allred 1-16
 COMPANY Mapco LEASE _____ WELL NO. _____
 FIELD _____ COUNTY _____ STATE _____
 SAMPLE TAKEN FROM _____
 PRODUCING FORMATION _____ TOP _____
 REMARKS _____

Out of treater

SAMPLE TAKEN BY Hall Time: 5pm

CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @ 60/60° F. 1.0443 pH 6.90 RES. 0.95 OHM METERS @ 77° F

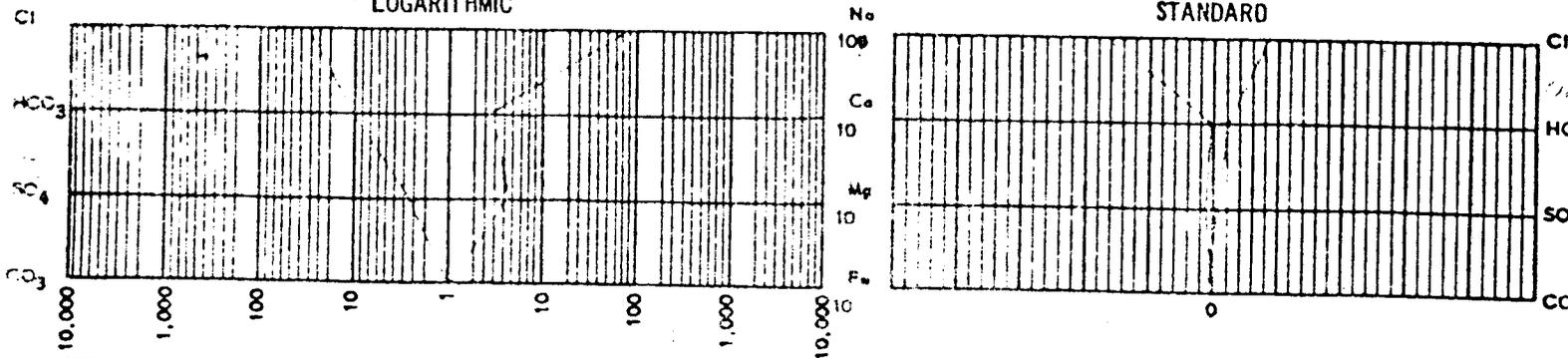
TOTAL HARDNESS 472.3 mg/L as CaCO₃ TOTAL ALKALINITY 1,000.0 mg/L as CaCO₃

CONSTITUENT	MILLIGRAMS PER LITER mg L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	71.0	3.55		
MAGNESIUM - Mg ++	71.0	5.82		
SODIUM - Na +	1900.0	82.61		
BARIUM (INCL. STRONTIUM) - Ba ++	14.0	0.21		
TOTAL IRON - Fe ++ AND Fe +++	1.53	0.05	92.24	
BICARBONATE - HCO ₃ ⁻	610.1	10.00		
CARBONATE - CO ₃ ⁼⁼	0	0		
SULFATE - SO ₄ ⁼⁼	163.0	3.40		
CHLORIDE - CL ⁻	1474.4	41.53	54.93	
TOTAL DISSOLVED SOLIDS	6,160			

MILLEQUIVALENTS PER LITER

LOGARITHMIC

STANDARD



ANALYST _____

CHECKED _____



TRETOLITE DIVISION

369 Marshall Avenue / Saint Louis, Missouri 63119
(314) WO 1-3500/TWX 910-760-1660/Telex 44-2417

MAR 18 1977

WATER ANALYSIS REPORT

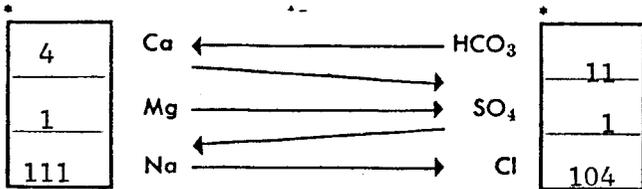
COMPANY MapCo Production Inc. ADDRESS Roosevelt, Utah DATE: 2/14/77

SOURCE Fisher 1-7, Treater discharge (H2O) DATE SAMPLED 2/14/77 ANALYSIS NO. W-3985

Analysis	Mg/L	*Meq/L
1. PH <u>7.95</u>	Resistivity <u>0).87 ohm meters</u>	
2. H ₂ S (Qualitative) _____		
3. Specific Gravity <u>1.0031</u>		
4. Dissolved Solids _____	<u>6,200</u>	
5. Suspended Solids _____		
6. Phenolphthalein Alkalinity (CaCO ₃) _____	<u>650</u>	
7. Methyl Orange Alkalinity (CaCO ₃) _____		
8. Bicarbonate (HCO ₃) _____	HCO ₃ <u>650</u> ÷ 61 = <u>11</u> HCO ₃	
9. Chlorides (Cl) _____	Cl <u>3,678</u> ÷ 35.5 = <u>104</u> Cl	
10. Sulfates (SO ₄) _____	SO ₄ <u>24</u> ÷ 48 = <u>1</u> SO ₄	
11. Calcium (Ca) _____	Ca <u>123</u> ÷ 20 = <u>4</u> Ca	
12. Magnesium (Mg) _____	Mg <u>10</u> ÷ 12.2 = <u>1</u> Mg	
13. Total Hardness (CaCO ₃) _____		
14. Total Iron (Fe) _____	<u>18</u>	
15. Barium (Qualitative) _____	<u>1</u>	
16. _____		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/L
Ca SO ₄ • 2H ₂ O	2,090 Mg/L
Mg CO ₃	103 Mg/L

Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
Ca (HCO ₃) ₂	81.04		<u>4</u>		<u>324</u>
Ca SO ₄	68.07				
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17		<u>1</u>		<u>73</u>
Mg SO ₄	60.19				
Mg Cl ₂	47.62				
Na HCO ₃	84.00		<u>6</u>		<u>504</u>
Na ₂ SO ₄	71.03		<u>1</u>		<u>71</u>
Na Cl	58.46		<u>104</u>		<u>6,079</u>

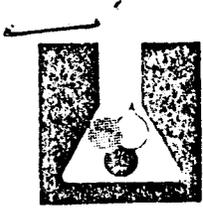
REMARKS This water analysis indicates that a CaCo3 scaling condition exists in this produced fluid.

Rhula Collett

Respectfully submitted
TRETOLITE COMPANY

Floyd H. Collett

JAN 14 1977



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

LABORATORY NUMBER W-3860
 SAMPLE TAKEN 1/11/77
 SAMPLE RECEIVED 1/11/77
 RESULTS REPORTED _____

SAMPLE DESCRIPTION _____ FIELD NO. Fisher
 COMPANY Mapco LEASE _____ WELL NO. 1-7
 FIELD _____ COUNTY _____ STATE _____
 SAMPLE TAKEN FROM _____
 PRODUCING FORMATION _____ TOP _____
 REMARKS _____

Treator Water Sample SAMPLE TAKEN BY _____

CHEMICAL AND PHYSICAL PROPERTIES

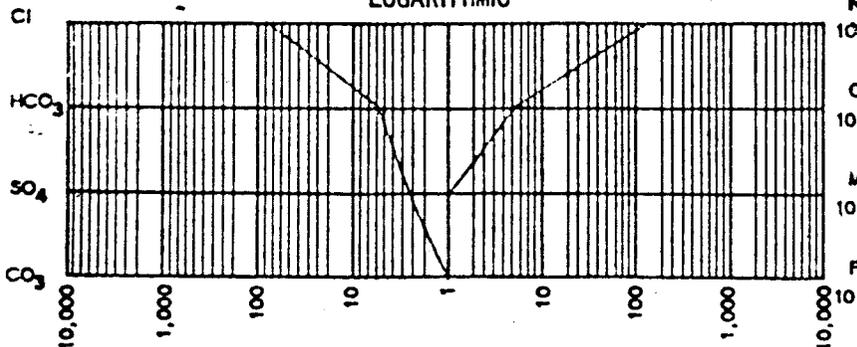
SPECIFIC GRAVITY @60/60° F. 1.0040 pH 6.94 RES. 0.88 OHM METERS @ 77° F

TOTAL HARDNESS 397.5 mg/L as CaCO₃ TOTAL ALKALINITY 628.0 mg/L as CaCO₃

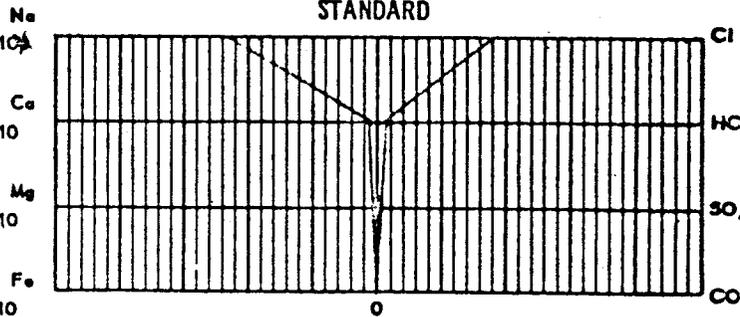
CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	127.0	6.35		
MAGNESIUM - Mg ++	9.6	0.79		
SODIUM - Na +	2730.0	118.70		
BARIUM (INCL. STRONTIUM) - Ba ++	12.0	0.18		
TOTAL IRON - Fe ++ AND Fe +++	22.8	0.81	126.83	
BICARBONATE - HCO ₃ ⁻	383.2	6.28		
CARBONATE - CO ₃ ⁼⁼	0	0		
SULFATE - SO ₄ ⁼⁼	159.0	3.31		
CHLORIDE - CL ⁻	3174.5	89.42	99.01	
TOTAL DISSOLVED SOLIDS	6480.0			

←----- MILLEQUIVALENTS PER LITER -----→

LOGARITHMIC

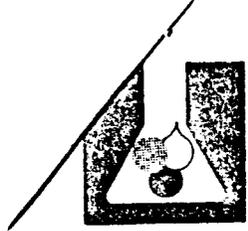


STANDARD



ANALYST _____

CHECKED _____



JAN 14 1977

LITE RESEARCH LABORATORIES

P O Box 119

Fort Duchesne Utah 84026

(801) 722-2254

LABORATORY NUMBER W-3861
 SAMPLE TAKEN 1/11/77
 SAMPLE RECEIVED 1/11/77
 RESULTS REPORTED _____

SAMPLE DESCRIPTION _____ FIELD NO. Fisher
 COMPANY Mapco LEASE _____ WELL NO. 1-7
 FIELD _____ COUNTY _____ STATE _____
 SAMPLE TAKEN FROM _____
 PRODUCING FORMATION _____ TOP _____
 REMARKS Water Tank Water Sample

SAMPLE TAKEN BY _____

CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0036 pH 6.60 RES. 0.84 OHM METERS @ 77° F

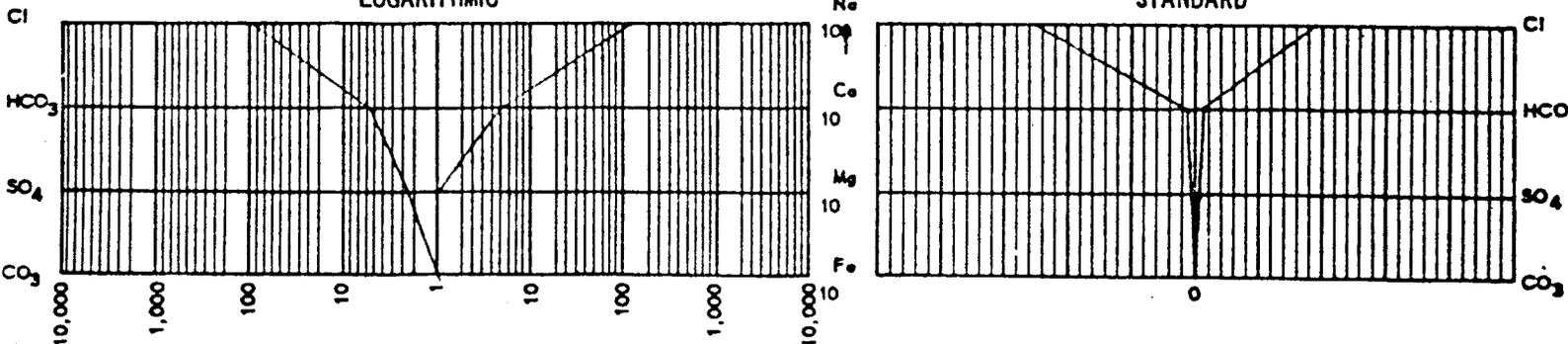
TOTAL HARDNESS 382.7 mg/L as CaCO₃ TOTAL ALKALINITY 648.0 mg/L as CaCO₃

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	124.0	6.20		
MAGNESIUM - Mg ++	10.3	0.84		
SODIUM - Na +	2880.0	125.22		
BARIUM (INCL. STRONTIUM) - Ba ++	10.0	0.15		
TOTAL IRON - Fe ++ AND Fe +++	17.1	0.61	133.02	
BICARBONATE - HCO ₃ ⁻	395.4	6.48		
CARBONATE - CO ₃ ⁼⁼	0	0		
SULFATE - SO ₄ ⁼⁼	129.0	2.69		
CHLORIDE - CL -	3414.2	96.17	105.34	
TOTAL DISSOLVED SOLIDS	6680.0			

MILLEQUIVALENTS PER LITER

LOGARITHMIC

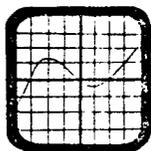
STANDARD



ANALYST _____

CHECKED _____

JUN 16 1975



**WESTERN
STANDARD
LABORATORIES, INC.**

1465 West 820 North Provo, Utah 84601 (801)377-7787

WSL

LABORATORY NUMBER W6-87
 SAMPLE TAKEN _____
 SAMPLE RECEIVED 6-6-75
 RESULTS REPORTED 6-11-75

SAMPLE DESCRIPTION _____ FIELD NO. _____
 COMPANY Mapco Prod. Inc. LEASE _____ WELL NO. 1-34
 _____ SEC. _____ TWP. _____ RGE. _____ SUR. _____
 DISTRICT _____ FIELD _____ COUNTY _____ STATE _____
 SAMPLE TAKEN FROM _____
 PRODUCING FORMATION _____ TOP _____
 REMARKS Berrett

SAMPLE TAKEN BY _____

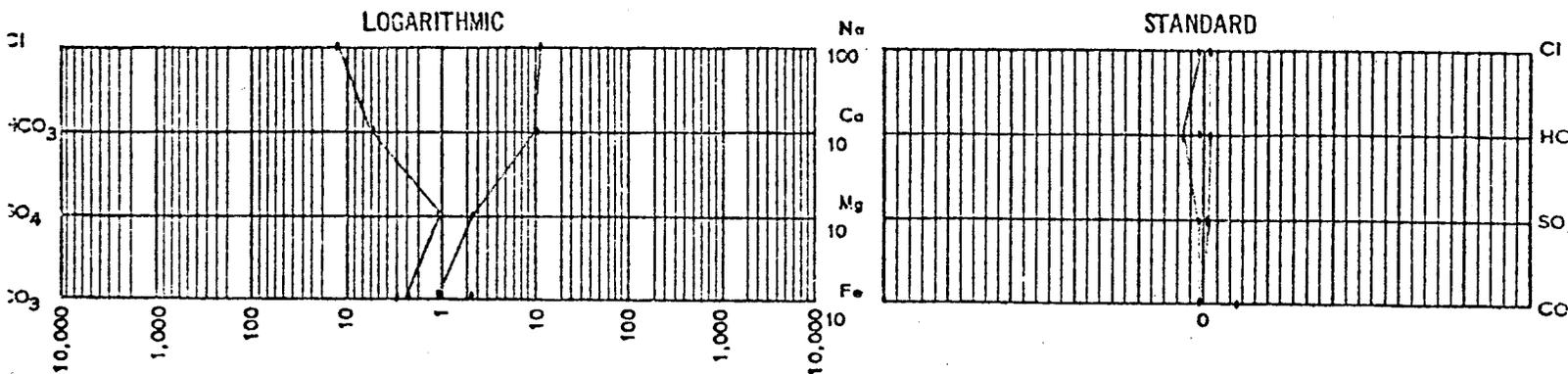
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.005 pH 6.95 RES. 0.82 OHM METERS @ 77° F

TOTAL HARDNESS Mg/L as CaCO₃ 953 TOTAL ALKALINITY Mg/L as CaCO₃ 671

CONSTITUENT	MILLIGRAMS PER LITER Mg/L.	MILLEQUIVALENTS PER LITER MEQ/L	REMARKS
CALCIUM - Ca ++	326	16.3	
MAGNESIUM - Mg ++	33.1	2.7	
SODIUM - Na +	589	25.6	
BARIUM (INCL. STRONTIUM) - Ba ++			
TOTAL IRON - Fe ++ AND Fe +++	1.7	.1	
BICARBONATE - HCO ₃ ⁻	324	5.3	
CARBONATE - CO ₃ ⁼⁼	85	2.8	
SULFATE - SO ₄ ⁼⁼	4.4	.1	
CHLORIDE - CL -	1295	36.5	
TOTAL DISSOLVED SOLIDS	3579		

MILLEQUIVALENTS PER LITER



ANALYST _____

CHECKED _____



TRETOLITE DIVISION
 369 Marshall Avenue / Saint Louis, Missouri, 63119
 (314) WO 1-3500/TWX 910-760-1660/Telex 44-2417

AUG 8 1977
 JDA & File

WATER ANALYSIS REPORT

COMPANY Mapco production co. Inc. ADDRESS Roosevelt Utah DATE: 8/1/77

SOURCE Power water tank Olsen DATE SAMPLED 8/1/77 ANALYSIS NO. _____
 Analysis Mg/L *Meq/L

1. pH 7.4
2. H₂S (Qualitative) 5.5
3. Specific Gravity 1.010
4. Dissolved Solids _____
5. Suspended Solids _____
6. Phenolphthalein Alkalinity (CaCO₃) _____
7. Methyl Orange Alkalinity (CaCO₃) _____
8. Bicarbonate (HCO₃) _____
9. Chlorides (Cl) _____
10. Sulfates (SO₄) _____
11. Calcium (Ca) _____
12. Magnesium (Mg) _____
13. Total Hardness (CaCO₃) _____
14. Total Iron (Fe) _____
15. Barium (Qualitative) _____
16. Strontium _____

Sulfate Reducing Bacteria

1-10 c/ml

5,721

0

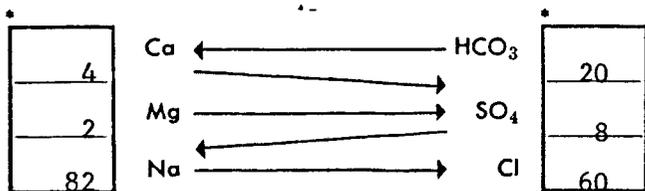
0

1000

HCO ₃	<u>1,220</u>	÷ 61	<u>20</u>	HCO ₃
Cl	<u>2,127</u>	÷ 35.5	<u>60</u>	Cl
SO ₄	<u>375</u>	÷ 48	<u>8</u>	SO ₄
Ca	<u>87</u>	÷ 20	<u>4</u>	Ca
Mg	<u>26</u>	÷ 12.2	<u>2</u>	Mg
	<u>326</u>			
	<u>.1</u>			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/L
Ca SO ₄ • 2H ₂ O	2,090 Mg/L
Mg CO ₃	103 Mg/L

Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
Ca (HCO ₃) ₂	81.04		<u>4</u>		<u>324</u>
Ca SO ₄	68.07		<u>0</u>		<u>0</u>
Ca Cl ₂	55.50		<u>0</u>		<u>0</u>
Mg (HCO ₃) ₂	73.17		<u>2</u>		<u>146</u>
Mg SO ₄	60.19		<u>0</u>		<u>0</u>
Mg Cl ₂	47.62		<u>0</u>		<u>0</u>
Na HCO ₃	84.00		<u>14</u>		<u>1,176</u>
Na ₂ SO ₄	71.03		<u>8</u>		<u>568</u>
Na Cl	58.46		<u>60</u>		<u>3,507</u>

REMARKS Analysis indicates that the power water has a CaCO₃ & MgCO₃ scaling tendency
Corrosive nature of water due to H₂S.

Respectfully submitted
 TRETOLITE COMPANY

Royal A. Calicut



AUG 22 1975

LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

LABORATORY NUMBER W-2594
 SAMPLE TAKEN _____
 SAMPLE RECEIVED 8-19-75
 RESULTS REPORTED 8-19-75

SAMPLE DESCRIPTION _____ FIELD NO. _____
 COMPANY Mapco LEASE Olsen WELL NO. 1-27
 FIELD _____ COUNTY _____ STATE _____
 SAMPLE TAKEN FROM _____
 PRODUCING FORMATION _____ TOP _____
 REMARKS

Treater

SAMPLE TAKEN BY _____

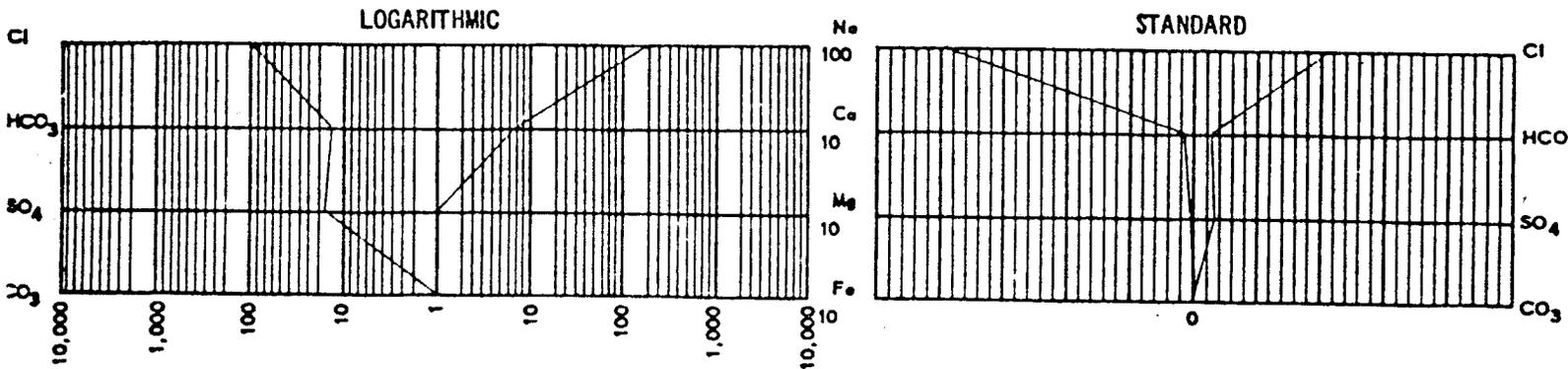
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0049 pH 7.80 RES. 0.95 OHM METERS @ 77°F

TOTAL HARDNESS 494.15 mg/L as CaCO₃ TOTAL ALKALINITY 944.0 mg/L as CaCO₃

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	158.0	7.90		
MAGNESIUM - Mg ++	12.1	0.99		
SODIUM - Na +	4500.0	195.65		
BARIUM (INCL. STRONTIUM) - Ba ++	0	0		
TOTAL IRON - Fe ++ AND Fe +++	27.8	0.99	205.54	
BICARBONATE - HCO ₃ ⁻	944.0	15.48		
CARBONATE - CO ₃ ⁻⁻	0	0		
SULFATE - SO ₄ ⁻⁻	880.0	18.33		
CHLORIDE - CL ⁻	3598.9	101.38	135.19	
TOTAL DISSOLVED SOLIDS	8320.0			

MILLEQUIVALENTS PER LITER



ANALYST _____

CHECKED _____



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

LABORATORY NUMBER W-2194
 SAMPLE TAKEN _____
 SAMPLE RECEIVED 4-24-75
 RESULTS REPORTED 4-24-75

SAMPLE DESCRIPTION **FIELD NO.** _____
COMPANY Mapco Production **LEASE** Sorenson **WELL NO.** 1-8
FIELD _____ **COUNTY** _____ **STATE** _____
SAMPLE TAKEN FROM _____
PRODUCING FORMATION _____ **TOP** _____
REMARKS _____

SAMPLE TAKEN BY Floyd Collett

CHEMICAL AND PHYSICAL PROPERTIES

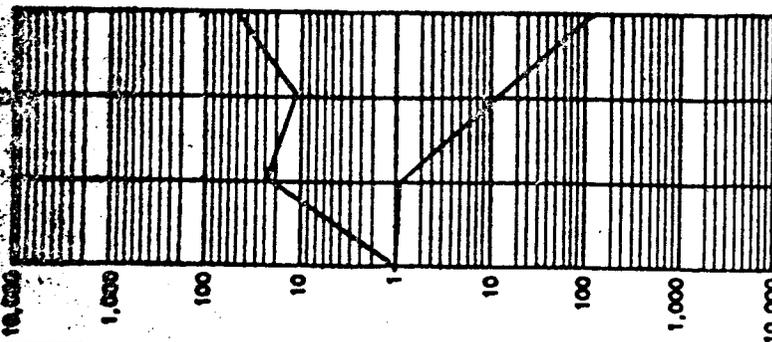
SPECIFIC GRAVITY @ 60/60° F. 1.0056 **pH** 8.05 **RES.** 1.10 **OHM METERS @** 77° F

TOTAL HARDNESS 551.1 **mg/L as CaCO₃** **TOTAL ALKALINITY** 718.0 **mg/L as CaCO₃**

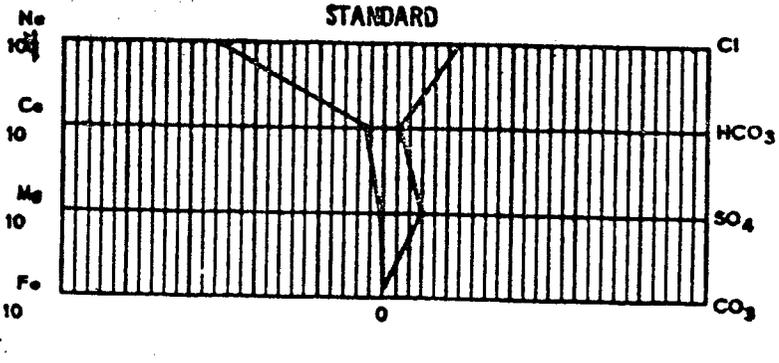
CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	212.0	10.60		
MAGNESIUM - Mg ++	4.54	0.37		
SODIUM - Na +	3000.0	130.43		
BARIUM (HCL, STRONTIUM) - Ba ++	0	0		
TOTAL IRON - Fe ++ AND Fe +++	1.68	0.06	141.58	
BICARBONATE - HCO ₃ ⁻	718.0	11.77		
CARBONATE - CO ₃ ⁻	0	0		
SULFATE - SO ₄ ⁻	1305.0	27.19		
CHLORIDE - Cl ⁻	2054.2	57.86	96.82	
TOTAL DISSOLVED SOLIDS	5640			

MILLEQUIVALENTS PER LITER

LOGARITHMIC



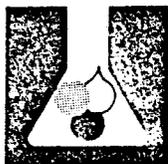
STANDARD



ANALYST _____

CHECKED _____

JUN 2 1975



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

LABORATORY NUMBER W02244
 SAMPLE TAKEN _____
 SAMPLE RECEIVED 5-5-75
 RESULTS REPORTED 5-6-75

SAMPLE DESCRIPTION
 COMPANY Mapco Production Inc. LEASE _____ STATE _____ FIELD NO. _____
 WELL NO. 1-8
 FIELD _____ COUNTY _____ STATE _____
 SAMPLE TAKEN FROM _____
 PRODUCING FORMATION _____ TOP _____
 REMARKS _____

SAMPLE TAKEN BY Floyd Collett

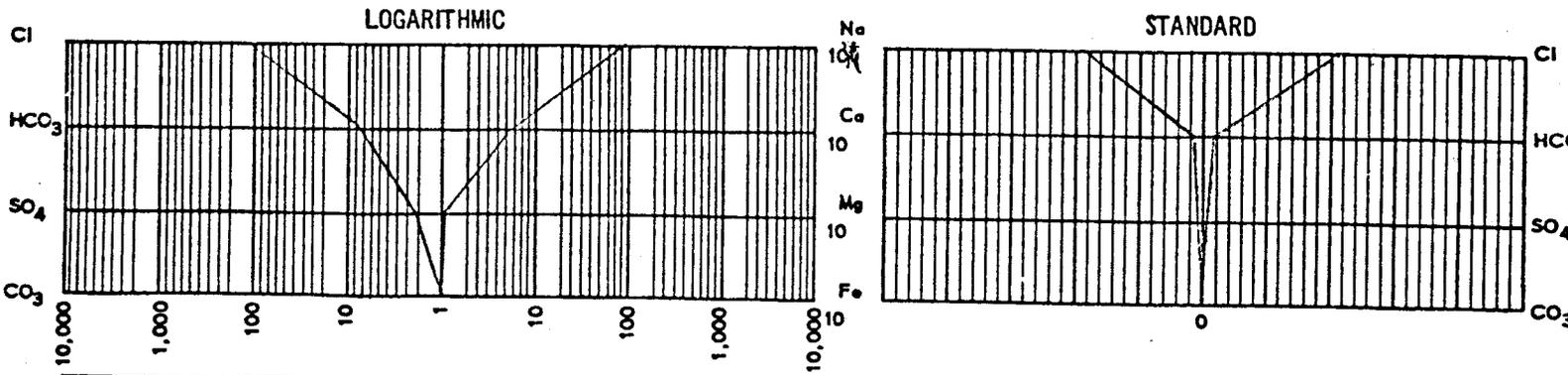
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0041 pH 8.30 RES. 1.00 OHM METERS @ 77° F

TOTAL HARDNESS 379.78 mg/L as CaCO₃ TOTAL ALKALINITY 528.0 mg/L as CaCO₃

CONSTITUENT	MILLIGRAMS PER LITER mg/L.	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	135.0	6.75		
MAGNESIUM - Mg ++	8.6	0.70		
SODIUM - Na +	2077.0	90.30		
BARIUM (INCL. STRONTIUM) - Ba ++	0	0		
TOTAL IRON - Fe++ AND Fe+++	4.06	0.15	97.90	
BICARBONATE - HCO ₃ ⁻	528.0	8.66		
CARBONATE - CO ₃ ⁻⁻	0	0		
SULFATE - SO ₄ ⁻⁻	102.0	2.13		
CHLORIDE - CL ⁻	3698.5	104.18	114.97	
TOTAL DISSOLVED SOLIDS	5320			

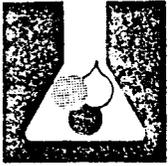
MILLEQUIVALENTS PER LITER



ANALYST _____

CHECKED _____

JUN 2 1975



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

LABORATORY NUMBER W-2248
 SAMPLE TAKEN _____
 SAMPLE RECEIVED 5-5-75
 RESULTS REPORTED 5-6-75

SAMPLE DESCRIPTION _____ FIELD NO. _____
 COMPANY Mapco Production Inc. LEASE Marshall WELL NO. 1-20
 FIELD _____ COUNTY _____ STATE _____
 SAMPLE TAKEN FROM _____
 PRODUCING FORMATION _____ TOP _____
 REMARKS _____

SAMPLE TAKEN BY Floyd Collett

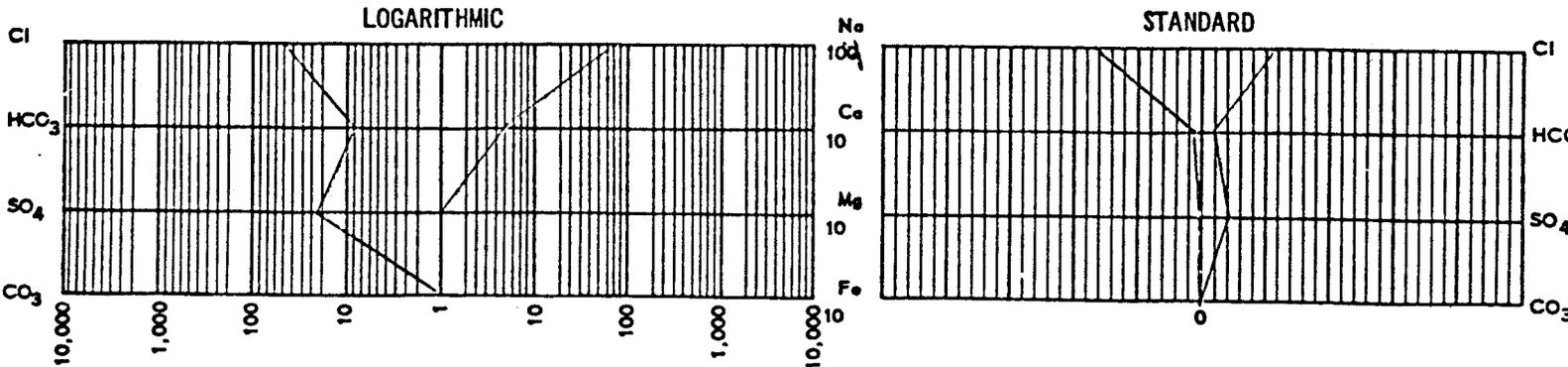
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0029 pH 7.60 RES. 1.20 OHM METERS @ 77° F

TOTAL HARDNESS 334.78 mg/L as CaCO₃ TOTAL ALKALINITY 560.0 mg/L as CaCO₃

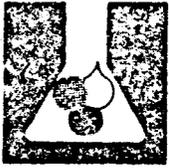
CONSTITUENT	MILLIGRAMS PER LITER mg/L.	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	120.0	6.0		
MAGNESIUM - Mg ++	4.40	0.36		
SODIUM - Na +	1892.0	82.26		
BARIUM (INCL. STRONTIUM) - Ba ++	0	0		
TOTAL IRON - Fe ++ AND Fe +++	9.5	0.34	88.96	
BICARBONATE - HCO ₃ ⁻	560.0	9.18		
CARBONATE - CO ₃ ⁻⁻⁻	0	0		
SULFATE - SO ₄ ⁻⁻	1100	22.92		
CHLORIDE - CL ⁻	2099.2	59.33	91.23	
TOTAL DISSOLVED SOLIDS	5920			

MILLEQUIVALENTS PER LITER



ANALYST _____

CHECKED _____



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

LABORATORY NUMBER W-2195
 SAMPLE TAKEN _____
 SAMPLE RECEIVED 4-24-75
 RESULTS REPORTED 4-24-75

SAMPLE DESCRIPTION
 COMPANY Mapco Production LEASE _____ STATE _____ FIELD NO. _____
 WELL NO. 1-19
 FIELD _____ COUNTY _____ STATE _____
 SAMPLE TAKEN FROM _____
 PRODUCING FORMATION _____ TOP _____
 REMARKS _____

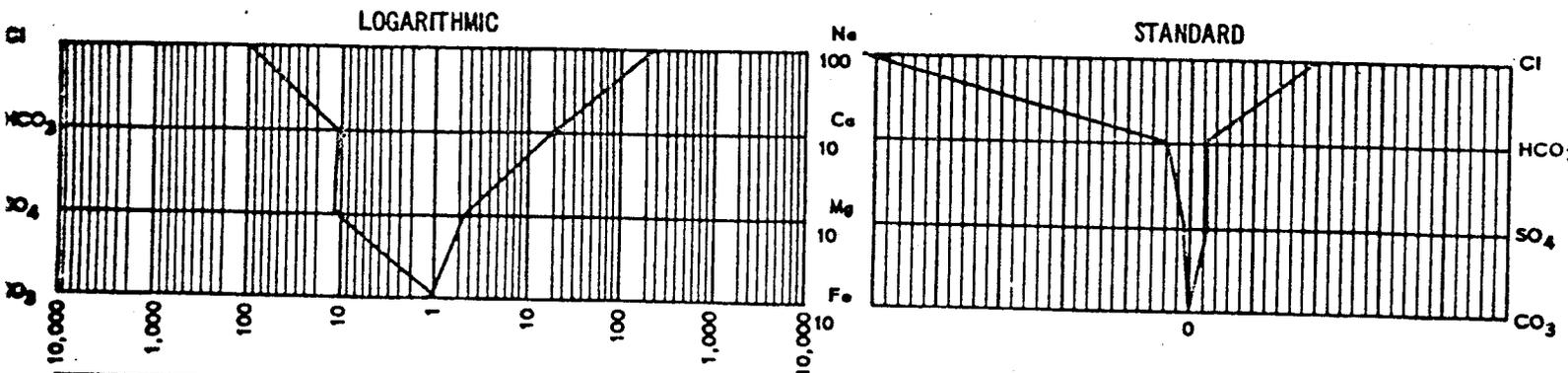
SAMPLE TAKEN BY Floyd Collett

CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0053 pH 7.91 RES. .80 OHM METERS @ 77° F
 TOTAL HARDNESS 1083.0 mg/L as CaCO₃ TOTAL ALKALINITY 734.0 mg/L as CaCO₃

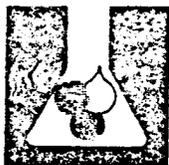
CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	380.0	19.0		
MAGNESIUM - Mg ++	32.20	2.64		
SODIUM - Na +	6000.0	260.87		
BARIUM (INCL. STRONTIUM) - Ba ++	0	0		
TOTAL IRON - Fe++ AND Fe+++	2.44	0.09	338.88	
BICARBONATE - HCO ₃ ⁻	734.0	12.03		
CARBONATE - CO ₃ ⁻⁻	0	0		
SULFATE - SO ₄ ⁻⁻	623.0	12.98		
CHLORIDE - CL -	3548.6	99.96	124.97	
TOTAL DISSOLVED SOLIDS	7840			

MILLEQUIVALENTS PER LITER



ANALYST _____

CHECKED _____



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

LABORATORY NUMBER W-2195
 SAMPLE TAKEN _____
 SAMPLE RECEIVED 4-24-75
 RESULTS REPORTED 4-24-75

SAMPLE DESCRIPTION
 COMPANY Mapco Production LEASE _____ STATE _____ FIELD NO. _____
 FIELD _____ COUNTY _____ STATE _____ WELL NO. 1-19
 SAMPLE TAKEN FROM _____
 PRODUCING FORMATION _____ TOP _____
 REMARKS _____

SAMPLE TAKEN BY Floyd Collett

CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0053 pH 7.91 RES. .80 OHM METERS @ 77° F

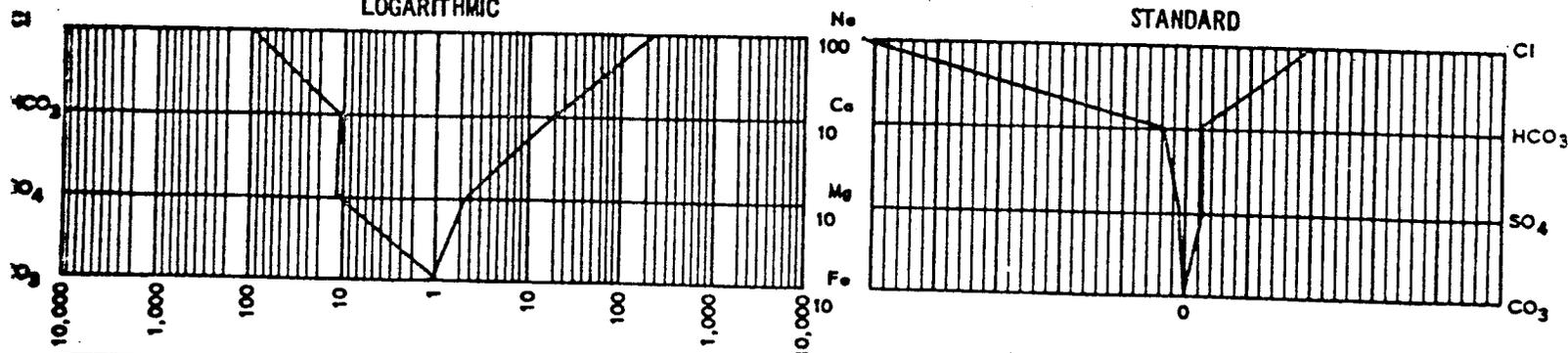
TOTAL HARDNESS 1083.0 mg/L as CaCO₃ TOTAL ALKALINITY 734.0 mg/L as CaCO₃

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	380.0	19.0		
MAGNESIUM - Mg ++	32.20	2.64		
SODIUM - Na +	6000.0	260.87		
BARIUM (INCL. STRONTIUM) - Ba ++	0	0		
TOTAL IRON - Fe ++ AND Fe +++	2.44	0.09	338.88	
BICARBONATE - HCO ₃ ⁻	734.0	12.03		
CARBONATE - CO ₃ ⁻	0	0		
SULFATE - SO ₄ ⁻	623.0	12.98		
CHLORIDE - CL -	3548.6	99.96	124.97	
TOTAL DISSOLVED SOLIDS	7840			

MILLEQUIVALENTS PER LITER

LOGARITHMIC

STANDARD



ANALYST _____

CHECKED _____



TRETOLITE DIVISION
 369 Marshall Avenue / Saint Louis, Missouri 63119
 (314) WO 1-3500/TWX 910-760-1660/Telex 44-2417

Felt

WATER ANALYSIS REPORT

COMPANY MAPCO PRODUCTION INC, ADDRESS ROOSEVELT, UTAH DATE: 7/21/77

SOURCE S.H. 1-36 DATE SAMPLED 7/20 '77 ANALYSIS NO. _____
 Analysis Mg/L *Meq/L

1.	pH	<u>7.7</u>			
2.	H ₂ S (Qualitative)	<u>2.0</u>			
3.	Specific Gravity	<u>1.010</u>			
4.	Dissolved Solids		<u>13,348</u>		
5.	Suspended Solids				
6.	Phenolphthalein Alkalinity (CaCO ₃)				
7.	Methyl Orange Alkalinity (CaCO ₃)		<u>650</u>		
8.	Bicarbonate (HCO ₃)		<u>793</u>	÷ 61	<u>13</u> HCO ₃
9.	Chlorides (Cl)		<u>2,127</u>	÷ 35.5	<u>60</u> Cl
10.	Sulfates (SO ₄)		<u>6,000</u>	÷ 48	<u>125</u> SO ₄
11.	Calcium (Ca)		<u>218</u>	÷ 20	<u>11</u> Ca
12.	Magnesium (Mg)		<u>107</u>	÷ 12.2	<u>9</u> Mg
13.	Total Hardness (CaCO ₃)		<u>652</u>		
14.	Total Iron (Fe)		<u>.1</u>		
15.	Barium (Qualitative)		<u>0</u>		
16.	Strontium				

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

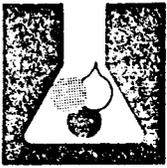
11	Ca	←		→	
9	Mg	←		→	
178	Na	←		→	
			HCO ₃		13
				SO ₄	125
				Cl	60

Saturation Values	Distilled Water 20°C	Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
Ca CO ₃	13 Mg/L	Ca (HCO ₃) ₂	81.04	<u>11</u>			<u>891</u>
Ca SO ₄ • 2H ₂ O	2,090 Mg/L	Ca SO ₄	68.07	<u>0</u>			<u>0</u>
Mg CO ₃	103 Mg/L	Ca Cl ₂	55.50	<u>0</u>			<u>0</u>
		Mg (HCO ₃) ₂	73.17	<u>2</u>			<u>146</u>
		Mg SO ₄	60.19	<u>7</u>			<u>421</u>
		Mg Cl ₂	47.62	<u>0</u>			<u>0</u>
		Na HCO ₃	84.00	<u>0</u>			<u>0</u>
		Na ₂ SO ₄	71.03	<u>118</u>			<u>8,382</u>
		Na Cl	58.46	<u>60</u>			<u>3,508</u>

REMARKS Analysis indicates that a CaCO₃ scaling condition exists in this water. A small amount of MgCO₃ may precipitate also.

Respectfully submitted
TRETOLITE COMPANY

Alfred H. Collett



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

LABORATORY NUMBER W-2245
 SAMPLE TAKEN _____
 SAMPLE RECEIVED 5-5-75
 RESULTS REPORTED 5-6-75

SAMPLE DESCRIPTION _____ FIELD NO. _____
 COMPANY Mapco Production Inc. LEASE Timothy WELL NO. 1-9
 FIELD _____ COUNTY _____ STATE _____
 SAMPLE TAKEN FROM _____
 PRODUCING FORMATION _____ TOP _____
 REMARKS _____

SAMPLE TAKEN BY Floyd Collett

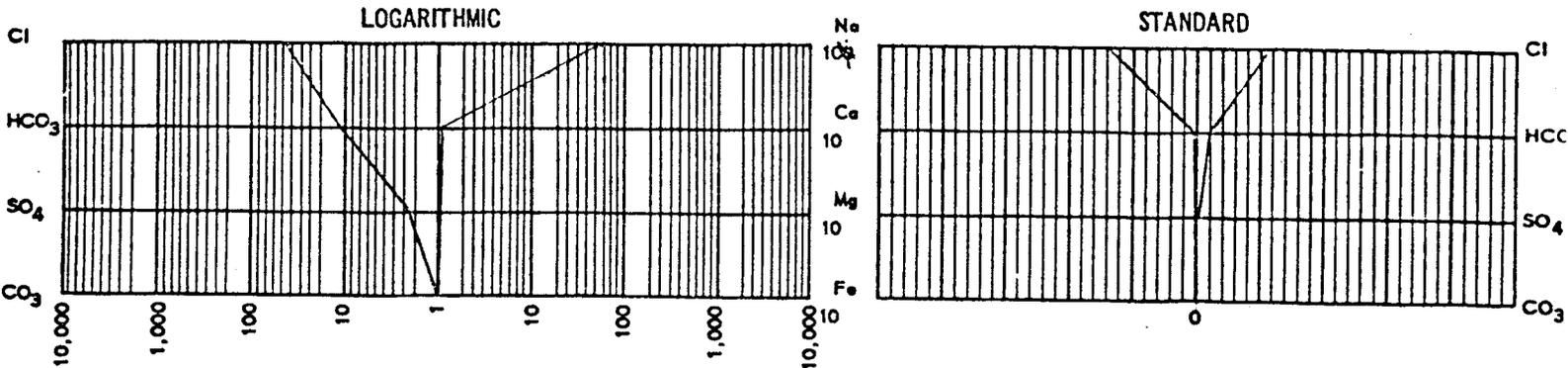
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0026 pH 8.40 RES. 1.50 OHM METERS @ 77° F

TOTAL HARDNESS 64.27 mg/L as CaCO₃ TOTAL ALKALINITY 696.0 mg/L as CaCO₃

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	21.0	1.05		
MAGNESIUM - Mg ++	1.59	0.13		
SODIUM - Na +	1593.0	69.26		
BARIUM (INCL. STRONTIUM) - Ba ++	0	0		
TOTAL IRON - Fe ++ AND Fe +++	2.95	0.11	70.55	
BICARBONATE - HCO ₃ ⁻	684.0	11.21		
CARBONATE - CO ₃ ⁻⁻	12.0	0.40		
SULFATE - SO ₄ ⁻⁻	120.0	2.50		
CHLORIDE - CL -	2024.2	57.02	71.13	
TOTAL DISSOLVED SOLIDS	4400			

MILLEQUIVALENTS PER LITER



ANALYST _____

CHECKED _____

JAN 17 1983

SOONER CHEMICAL SPECIALTIES, INC.

P. O. Box 711 SEMINOLE, OKLAHOMA 74868 Phone (405) 382-2000

**SOONER
CHEMICALS**

WATER ANALYSIS REPORT

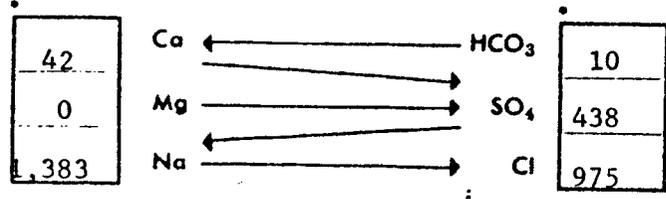
COMPANY Diamond Shamrock ADDRESS Vernal, Utah DATE: 11-6-80

SOURCE Pariette Bench #4 SWD DATE SAMPLED 11-5-80 ANALYSIS NO. 1

Analysis	Mg/L	*Meq/L
1. PH	<u>6.9</u>	
2. H ₂ S (Qualitative)	<u>10.5 ppm</u>	
3. Specific Gravity	<u>1.060</u>	
4. Dissolved Solids	<u> </u>	
5. Suspended Solids	<u> </u>	
6. Phenolphthalein Alkalinity (CaCO ₃)	<u> </u>	
7. Methyl Orange Alkalinity (CaCO ₃)	<u>520</u>	
8. Bicarbonate (HCO ₃)	HCO ₃ <u>634</u> ÷ 61	<u>10</u> HCO ₃
9. Chlorides (Cl)	Cl <u>34,692</u> ÷ 35.5	<u>977</u> Cl
10. Sulfates (SO ₄)	SO ₄ <u>21,000</u> ÷ 48	<u>438</u> SO ₄
11. Calcium (Ca)	Ca <u>840</u> ÷ 20	<u>42</u> Ca
12. Magnesium (Mg)	Mg <u>0</u> ÷ 12.2	<u>0</u> Mg
13. Total Hardness (CaCO ₃)	<u>270</u>	
14. Total Iron (Fe)	<u>1.2</u>	
15. Barium (Qualitative)	<u>None</u>	

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

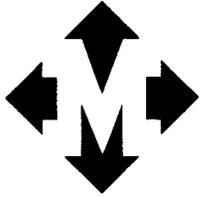


Saturation Values Distilled Water 20°C

Ca CO ₃	13 Mg/L
Ca SO ₄ • 2H ₂ O	2,090 Mg/L
Mg CO ₃	103 Mg/L

Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
Ca (HCO ₃) ₂	81.04		<u>10</u>		<u>810</u>
Ca SO ₄	68.07		<u>32</u>		<u>2,178</u>
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19				
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		<u>406</u>		<u>28,838</u>
Na Cl	58.46		<u>977</u>		<u>57,115</u>

REMARKS Water analysis indicates that a CaCO₃ (Calcium Carbonate) and CaSO₄ (Calcium Sulfate) scaling condition exists in this water. Also a corrosive environment exists due to the high chlorides (57,115), low P.H., H₂S (10.5 ppm) and Sulfate Reducing Bacteria (100-999 c/ml).



MAPCO

PRODUCTION COMPANY

ost

October 12, 1983

RECEIVED
OCT 19 1983

State of Utah
Division of Oil, Gas & Mining
Room 4241 State Office Building
Salt Lake City, Utah 84114

**DIVISION OF
OIL, GAS & MINING**

Reference: Birch #2-35
Section 35-1S-5W
Duchesne County, Utah

Gentlemen:

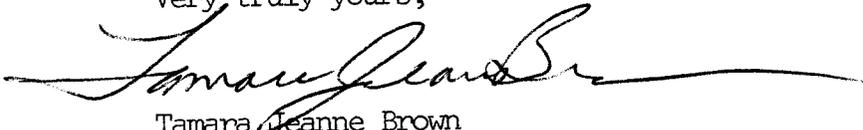
In compliance with Rule I-4 and Rule I-5 - "Authorization for Existing Class II Injection Wells", please find enclosed our application and corresponding data accompanying our application as listed below:

- 1) Form No. DOGM-UIL-1 (Revised 1982) - "Application for Disposal Well. (6 Copies).
- 2) Form No. DOGM-UIC-3B (Revised 1982) - "Annual Fluid Injection Report" (6 Copies).
- 3) Form DOGM-UIC-2 (Revised 1982) - "Completion & Test Data By Producing Formation". (6 Copies).
- 4) Water Analysis from wells to be injected in subject well (1 Copy of each well).
- 5) Water Analysis of wells producing within one mile of subject well (1 Copy of each well).
- 6) Plat showing subject well and all known oil & gas wells, abandoned, drilling and dry holes within 1/2 mile, together with the name of operator.
- 7) Electric Logs (1 Copy).
- 8) Schematic drawing of subsurface. (1 Copy).

LETTER TO STATE OF UTAH
FROM TAMARA J. BROWN
PAGE 2

If additional information is needed to complete this application,
please do not hesitate to call.

Very truly yours,

A handwritten signature in black ink, appearing to read "Tamara Jeanne Brown", with a long horizontal flourish extending to the right.

Tamara Jeanne Brown
Production Technician

/tjb

STATE OF UTAH
 DIVISION OF OIL, GAS, AND MINING
 ROOM 4241 STATE OFFICE BUILDING
 SALT LAKE CITY, UTAH 84114
 (801) 533-5771
 (RULE I-5 & RULE I-4)

FORM NO. DOGM-UIC-1
 (Revised 1982)

IN THE MATTER OF THE APPLICATION OF

MAPCO Production Co.
 ADDRESS 705 S. Elgin P. O. Box 2115
Tulsa, OK. ZIP 74101
 INDIVIDUAL PARTNERSHIP CORPORATION
 FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
 INJECT FLUID INTO THE Birch #2-35 WELL
 SEC. 35 TWP. 1S RANGE 5W
Duchesne COUNTY, UTAH

CAUSE NO. 139-9

ENHANCED RECOVERY INJ. WELL	<input type="checkbox"/>
DISPOSAL WELL	<input type="checkbox"/>
LP GAS STORAGE	<input type="checkbox"/>
EXISTING WELL (RULE I-4)	<input type="checkbox"/>

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:

1. That Rule I-5 (g) (iv) authorizes administrative approval of enhanced recovery injections, disposal or LP Gas storage operations.
2. That the applicant submits the following information.

Lease Name <u>Birch</u>	Well No. <u>2-35</u>	Field <u>Altamont</u>	County <u>Duchesne</u>
Location of Enhanced Recovery Injection or Disposal Well <u>NENE</u> Sec. <u>35</u> Twp. <u>1S</u> Rge. <u>5W</u>			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Casing Test Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date <u>11-5-82</u>	
Depth-Base Lowest Known Fresh Water Within 1/2 Mile <u>420</u>	Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	State What	
Location of Injection Source(s) <u>853 FNL & 1197 FEL</u> <u>Sec. 35 T1S R5W</u>	Geologic Name(s) and Depth of Source(s)		
Geologic Name of Injection Zone <u>(Uintah) Duchesne River</u>	Depth of Injection Interval <u>3604</u> to <u>4422</u>		
a. Top of the Perforated Interval: <u>3604</u>	b. Base of Fresh Water: <u>420</u>	c. Intervening Thickness (a minus b) <u>3184'</u>	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>			
Lithology of Intervening Zones			
Injection Rates and Pressures Maximum <u>5000</u> B/D <u>1500</u> Psi PSI			
The Names and Addresses of Those to Whom Notice of Application Should be Sent. <u>Division of Oil, Gas & Mining 6 copies of Application</u> <u>1 Set of Attachments</u>			

State of OKLAHOMA
 County of TULSA

Tamara Jeanne Brown
 Applicant

Before me, the undersigned authority, on this day personally appeared Tamara Jeanne Brown known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Suscribed and sworn to before me this 17th day of Oct., 19 82

SEAL

My commission expires 9-27-86

April Verbel
 Notary Public in and for Tulsa, Ok

(OVER)

INSTRUCTIONS

1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitative analysis of the injection formation of water.
2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).
3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)
4. Attach Electric or Radioactivity Log of Subject well (if released).
5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.
7. The Division is required to send notice of application to the surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehole within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.
8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.
9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.
10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.
12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	9 5/8	529	510	Surface	Returns
Intermediate	-	-	-	-	-
Production	7" + 7 5/8	4650	1055	1600'	Bond LOG
Tubing			Name - Type - Depth of Tubing Packer		
Total Depth	Geologic Name - Inj. Zone	Depth - Top of Inj. Interval	Depth - Base of Inj. Interval		

[Rule I-7(a)]

ANNUAL FLUID INJECTION REPORT
January 1, through December 31, 19 _____
(See Reverse Side for Definition and Instructions)

OPERATOR MAPCO ADDRESS 705 S. Elgin P O Box 2115 ZIP 74101

1. PURPOSE OF FLUID INJECTION (Check appropriate Box)

Enhanced Recovery Disposal
L.P. Gas Storage

Complete Appropriate Section Below (2 or 3)

2. ENHANCED RECOVERY (Project Basis)

A. Location: Sec. _____ Twp. _____ Rng. _____ County _____ (Approx. Center of Project)
B. Pool Name: _____ Formation _____ Depth _____
C. Authorized by _____ Order No. _____ Date _____
D. Nature of Inj. Fluid: Gas L.P.G. Salt Water Brackish Water Fresh Water
E. Daily Ave. Inj. (Bbls. or MCF)
F. Avg. Well Head Inj. Press _____
G. If all or part of Inj. Fluid is Fresh Water show source:
Well Depth _____ Feet Pond Stream
Other _____ Location: Sec. _____ Twp. _____ Rng. _____

3. DISPOSAL (Individual Well)

A. Location: $\frac{1}{4}$ NE Sec 35 Twp. 1S Rng. 5W County Duchesne
B. Formation Duchesne River Depth 3604-4472
C. Authorized by St. of UT Order No. 139-9 Date 1-23-75
D. Avg. Daily Disposal Volume _____ Avg. Daily Well Head Press _____ PSIG
E. Quality (If available attach copy of Chemical Analysis)
Disposal Water Formation Water (Prior To Disposal)
F. Annulus Pressures between: Tubing & Long String 50 PSI
Long String & Surface Casing NA PSI
G. Packer Setting Depth 3493 Feet
H. Inspected By: Ron Firth Date 11-5-82

4. Describe any well testing or well repair performed during the time period:

Filled and pressure checked casing to 1000 psi with
Utah State Rep. Ron Firth 11-5-82.

5. Verification of Information on this Page:

I certify that to the best of my knowledge and belief the facts contained herein are true and correct.

By Thomas J. Ben Title PRODUCTION TECHNICIAN

6. Summary of Monthly Casing Annulus Monitoring

	1	2	3	4	5	6
Well Name						
Location						
January Press.						
Feb. Press.						
March Press.						
April Press.						
May Press.						
June Press.						
July Press.						
August Press.						
Sept. Press.						
Oct. Press.						
Nov. Press.						
Dec. Press.						
	7	8	9	10	11	12
Well Name						
Location						
January Press.						
Feb. Press.						
March Press.						
April Press.						
May Press.						
June Press.						
July Press.						
August Press.						
Sept. Press.						
Oct. Press.						
Nov. Press.						
Dec. Press						

7. Verification of Information on this Page.

I certify that to the best of my knowledge and belief the facts contained herein are true and correct.

By _____ Title _____

INSTRUCTIONS:

1. File additional second pages if well count exceeds twelve.
2. File one copy for each enhanced recovery project or disposal well by January 1st of each year for previous year's activity.
3. Fresh water is defined as water containing less than 10,000 mg/1 TDS or less than 5,000 PPM chlorides.

(To be filed within 30 days after drilling is completed)

DEPARTMENT OF NATURAL RESOURCES AND ENERGY

COUNTY LEASE NO.

API NO. _____

640 Acres
N

W _____ E

S

Locate Well Correctly
and Outline Lease

DIVISION OF OIL, GAS, AND MINING
Room 4241 State Office Building
Salt Lake City, Utah 84114

COUNTY Duchesne SEC. 35 TWP. 1S RGE. 5W

COMPANY OPERATING MAPCO

OFFICE ADDRESS 705 S. Elgin, P. O. Box 2115

TOWN Tulsa STATE ZIP OK. 74101

FARM NAME Birch WELL NO. 2-35

DRILLING STARTED Jan. 19 75 DRILLING FINISHED 2-21 75

DATE OF FIRST PRODUCTION NA COMPLETED 4-10-75

WELL LOCATED SW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$

467 FT. FROM SL OF $\frac{1}{4}$ SEC. & 1198 FT. FROM WL OF $\frac{1}{4}$ SEC.

ELEVATION DERRICK FLOOR 6808 GROUND 6796

TYPE COMPLETION

Single Zone _____

Multiple Zone XX

Comingled _____

LOCATION EXCEPTION

OIL OR GAS ZONES

Name	From	To	Name	From	To
None			None		
"			"		
"			"		

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Top
9 5/8	36#	K-55	529	1000	510		Surface
7"	23#	K-55					
7 5/8	26.4 29.7	S-95	4650	1000	1055		1600'
	33.7	N-80					

TOTAL DEPTH _____

PACKERS SET

DEPTH _____

NOTE: THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUGGING FORM DOGM-UIC-6

COMPLETION & TEST DATA BY PRODUCING FORMATION

1

2

3

FORMATION	Uintah-Duchesne	
SPACING & SPACING ORDER NO.	River	
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	InjWell	
PERFORATED	3604-4472	
	91' in 24	
INTERVALS	intervals	
ACIDIZED?	No	
FRACTURE TREATED?	No	

INITIAL TEST DATA

Date			
Oil, bbl./day			
Oil Gravity			
Gas, Cu. Ft./day	CF	CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.			
Water-Bbl./day			
Pumping or Flowing			
CHOKE SIZE			
FLOW TUBING PRESSURE			

A record of the formations drilled through, and pertinent remarks are presented on the reverse.
(use reverse side)

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

Telephone (918) 599-4007 Annou Ben
Name and title of representative of company

Subscribed and sworn before me this 17th day of Oct., 19 85

Cipriel Herbel Notary
9-27-86 Commission Expires

EXHIBIT "B"

The following lists represent those lessees within 1/2 mile of each of the proposed water disposal wells.

MAPCO, Allred WDW No. 2-16

- ✓ Flying Diamond Corporation
572 E. 2nd Street
Salt Lake City, Utah 84102
- ✓ Barber Oil Exploration Inc.
2627 Tenneco Building
Houston, Texas 77002
- ✓ Altex Oil Corporation
P. O. Box 666
Vernal, Utah 84078
- ✓ Chevron Oil Company
P. O. Box 599
Denver, Colorado 80201
- ✓ Tenneco Oil Company
P. O. Box 2511
Houston, Texas 77001
- ✓ Shell Oil Company
P. O. Box 1875
Houston, Texas 77001

MAPCO, Birch WDW No. 2-35

- ✓ Tenneco Oil Company
P. O. Box 2511
Houston, Texas 77001
- ✓ Barber Oil Exploration, Inc.
2627 Tenneco Building
Houston, Texas 77002
- ✓ Altex Oil Corporation
P. O. Box 666
Vernal, Utah 84078
- ✓ Walter Duncan
Box 211
LaSalle, Illinois 61301
- ✓ Vincent Duncan
Box 211
LaSalle, Illinois 61301
- ✓ Raymond Duncan
Box 211
LaSalle, Illinois 61301
- ✓ Gulf Oil Corporation
Box 2100
Houston, Texas 77001
- ✓ Shell Oil Company
Box 1875
Houston, Texas 77001

RECEIVED
APR 16 1987

WATER ANALYSIS REPORT

DATE: 04-07-1987

DIVISION OF
OIL, GAS & MINING

SAMPLE

COMPANY: LINMAR ENERGY
SOURCE:
NUMBER: 0002
LOCATION: BIRCH 2-35A5 15 5W Sec 35
DATE SAMPLED: 04-01-1987
ATTENTION: ED WHICKER

ANALYSIS

	MG/L
1. PH	8.46
2. SPECIFIC GRAVITY	
3. HYDROGEN SULFIDE	NOT DETERMINED
4. CARBON DIOXIDE	NOT DETERMINED
5. DISSOLVED OXYGEN	NOT DETERMINED
6. HYDROXYL (OH)	
7. CARBONATE (CO3)	32.4
8. BICARBONATE (HCO3)	768.6
9. CHLORIDES (CL)	2200
10. SULFATES (SO4)	1875
11. CALCIUM (CA)	92.18
12. MAGNESIUM (MG)	4.86
13. SODIUM (NA)	
14. BARIUM (BA)	NOT DETERMINED
15. TOTAL IRON (FE)	NOT DETERMINED
19. TOTAL HARDNESS (CACO3)	250.24

CARY HAYS
REEF CHEMICAL CO
RANGLEY COLO
1-303-675-5153

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

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
See Below

3. ADDRESS OF OPERATOR
See Below

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

14. PERMIT NO.

15. ELEVATIONS (Show whether OF, RT, OR, etc.)

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO. See Exhibit "A"
Attached Hereto

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
See Exhibit "A"
Attached Hereto

12. COUNTY OR PARISH
Duchesne & Uintah Counties

13. STATE
Utah

NOV 9 1987

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) <input type="checkbox"/>	

(Other) Change of Operator

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

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

CHANGE OF OPERATOR
(Effective November 1, 1987)

FROM:

Company Name: Linmar Energy Corporation
Address: 7979 East Tufts Avenue Parkway, Suite 604, Denver, Colorado 80237
Telephone No.: (303) 773-8003

TO:

Company Name: Linmar Petroleum Company **19503**
Address: 7979 East Tufts Avenue Parkway, Suite 604, Denver, Colorado 80237
Telephone No.: (303) 773-8003

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

LINMAR ENERGY CORPORATION

SIGNED BY: B. J. Lewis

TITLE Vice President

DATE November 6, 1987

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

Linmar Energy N9520

Linmar Petroleum N9523

TA - 43-013-30173	15 4w sec 17 WSTC	1-17A4	✓
TA - 43-013-30196	15 5w sec. 36 WSTC	SDW 1-36A5	✓
SDW - 43-013-30362	15 5w sec. 35 UNTA	2-35	✓
TA - 43-013-30174	15 4w sec. 32 WSTC	1-32A4	✓
TA - 43-013-30153	15 5w sec. 26 WSTC	1-26A5	✓
TA - 43-013-30154	15 5w sec 29 WSTC	1-29A5	✓
TA - 43-013-30186	15 5w sec 31 WSTC	1-31A5	✓
SDW - 43-013-30371	25 4w sec. 32 UNTA	2-32B4	✓
POW - 43-013-30979	15 3w sec. 8 GR-WS	2-8A3	✓
POW - 43-013-30155	WSTC	1-35B5	

not on card file.

RULE I-9

NOTICE OF TRANSFER OF OWNERSHIP

Classification of Well Transferred: Disposal Well Enhanced Recovery Injection Well

Name of Present Operator MAPCO, Inc., Production Co.

Address P.O. Box 1360 Roosevelt, Utah 84066

Well Being Transferred:

Name: Birch 2-35A5

Location: Sec. 35 Twp. 1-S Rng. 5-W County Duchesne

Order No. Authorizing Injection Cause No. 139-9 Rule C-11 Date 1-23-75

Zone Injected Into: Lower Duchesne River-Uinta formations 3604' to 4474'

Effective Date of Transfer October 1, 1983

Darwin Kulland
Signature FOR MAPCO PROD CO

Date

Name of New Operator Linmar Energy

Address P.O. Box 1327 Roosevelt, Utah 84066

LINMAR ENERGY CORP by E.B. [Signature]
Signature of New Operator

NOVEMBER 9, 1983
Date

FOR DOGM USE ONLY

It is acknowledged by the Division of Oil, Gas, and Mining that Linmar Energy Corp. is the new operator of the above-named well and may:

1. continue to inject fluids as authorized by Order No. 139-9 & UIC Rules and Regulations
2. not inject fluids until after Notice, Hearing, and Approval by the Division

Signature [Signature]

Date 11/18/83

FILE IN TRIPLICATE

LINMAR PETROLEUM COMPANY
7979 East Tufts Avenue Parkway, Suite 604
Denver, Colorado 80237
(303) 773-8003

111202

November 6, 1987

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

ATTN: Tami Searing

Re: Change of Operator

14503

Dear Ms. Searing:

Enclosed is a Sundry Notice, in triplicate, evidencing Change of Operator effective November 1, 1987, from Linmar Energy Corporation to Linmar Petroleum Company covering the wells listed on the Exhibit "A" attached thereto. Such listing of wells should cover all the wells in which you currently show Linmar Energy Corporation as Operator.

If you have any questions whatsoever or if you need any additional information, please do not hesitate to call me collect at (303) 773-8003.

Thank you so very much for all of your assistance and cooperation in this matter.

Very truly yours,

LINMAR PETROLEUM COMPANY

Susan L. Foster

Susan L. Foster
Land Consultant

SLF:jgm

Enclosures

cc: Ed Whicker, Field Superintendent, Linmar Petroleum Company

NOV 9 1987

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
WORKOVER AND COMPLETION FORM

COMPANY: MEDALLION EXPLORATION COMPANY REP: JIM HOOKS

WELL NAME: F. J. FENZEL #1 API NO: 43-013-30311

SECTION: 15 TWP: 02S RANGE: 02W

CONTRACTOR: TRINITY WELL SERVICE RIG NUMBER: #1

INSPECTOR: DENNIS INGRAM TIME: 12:15 PM AM/PM DATE: 1/7/94

OPERATIONS AT THE TIME OF INSPECTION: ON BOTTOM W/PACKER & TUBING
TRYING TO CIRCULATE.

=====

WELL SIGN: Y TYPE OF WELL: WIW STATUS PRIOR TO WORKOVER: SDW

H2S: N/A ENVIRONMENTAL: OK PIT: YES BOPE: YES

DISPOSITION OF FLUIDS USED: PIT, FLAT, FRAC, AND TRUCK.

PERFORATED: _____ STIMULATED: _____ SAND CONTROL: _____

WATER SHUT OFF: _____ WELLBORE CLEANOUT: _____ WELL DEEPENED: _____

CASING OR LINER REPAIR: _____ ENHANCED RECOVERY: _____ THIEF ZONE: _____

CHANGE OF LIFT SYSTEM: _____ TUBING CHANGE: _____ OTHER CEMENT SQUEEZE: Y

SURFACE EQUIPMENT CHANGES OR ASSOCIATED COSTS DO NOT QUALIFY FOR CREDITS.

=====

REMARKS:

HAVE DUG SMALL PIT BY WELLHEAD FOR FLUID. OLD EMERGENCY PIT IS FULL
OF CRUDE. STEVE LAMB SAYS THEY WILL TRY & FARM OIO IN PIT NEXT SPRING.



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)

June 30, 1994

Linmar Petroleum Company
P.O. Box 1327
Roosevelt, Utah 84066

Re: Pressure Test for Mechanical Integrity, Allred 2-16 and Birch 2-35, Injection Wells, Sec. 16, T. 1 S., R. 3 W., Sec. 35, T. 1 S., R. 5 W., Duchesne County, Utah

Gentlemen:

The Underground Injection Control Program which the Division of Oil, Gas and Mining (DOG M) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. Rule R649-5-5.3 of the Oil and Gas Conservation General Rules requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five year period beginning October, 1982. Our records indicate the above referenced wells are due for testing. Please make arrangements and ready the well for testing during the week of July 18, 1994 as outlined below:

1. Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), as well as personnel to assist in opening valves etc.
2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.
3. If mechanical difficulties or workover operations make it impossible for the wells to be tested on this date the tests may be rescheduled.

Page 2
Pressure Test
June 30, 1994

4. Company personnel should meet DOGM representatives at the field office or other location as negotiated.
5. All bradenhead valves with exception of the tubing on the injection wells must be shut in 24 hours prior to testing.

Please contact Dan Jarvis at (801)538-5340 to arrange a meeting time and place or negotiate a different date if this one is unacceptable.

Sincerely,

A handwritten signature in black ink, appearing to read "Gil Hunt", with a long horizontal flourish extending to the right.

Gil Hunt
UIC Program Manager

ldc
Attachment
WOI52

STATE OF UTAH
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

INJECTION WELL - PRESSURE TEST

Test Date: <u>7/19/94</u>	Well Owner/Operator: <u>Linmar Petroleum</u>
Disposal Well: <u>X</u>	Enhanced Recovery Well: _____ Other: _____
API No.: <u>43-013-30361</u>	Well Name/Number: <u>Birch 2-35A5</u>
Section: <u>35</u>	Township: <u>1 South</u> Range: <u>5 West</u>

Initial Conditions:

Tubing - Rate: n/a Pressure: 300 psi
Casing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

<u>Time (Minutes)</u>	<u>Annulus Pressure</u>	<u>Tubing Pressure</u>
0	<u>750</u>	_____
5	<u>750</u>	_____
10	<u>750</u>	_____
15	<u>750</u>	_____
20	_____	_____
25	_____	_____
30	_____	_____

Results: Pass Fail

Conditions After Test:

Tubing Pressure: 300 psi
Casing/Tubing Annulus Pressure: 0 psi

REMARKS:

Passed MIT

Carroll Estes
Operator Representative

[Signature]
DOG M Witness

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

1- LWP 7-PL	✓
2- LWP 8-SJ	✓
3- DTS 9-FILE	✓
4- VLC	✓
5- RJF	✓
6- LWP	✓

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

- 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: 9-8-94)

TO (new operator)	<u>COASTAL OIL & GAS CORP</u>	FROM (former operator)	<u>LINMAR PETROLEUM COMPANY</u>
(address)	<u>PO BOX 749</u>	(address)	<u>7979 E TUFTS AVE PKWY 604</u>
	<u>DENVER CO 80201-0749</u>		<u>DENVER CO 80237</u>
	phone <u>(303) 572-1121</u>		phone <u>(303) 773-8003</u>
	account no. <u>N 0230</u>		account no. <u>N9523</u>

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

Name: **SEE ATTACHED**	API: <u>013-30362</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). *(Rec'd 9-12-94)*
- See* 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 9-16-94)*
- N/A* 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: _____.
- N/A* 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- See* 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(10-4-94)*
- See* 6. Cardex file has been updated for each well listed above. *10-14-94*
- See* 7. Well file labels have been updated for each well listed above. *10-14-94*
- See* 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(10-4-94)*
- 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

- Lee 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) ** 25,000 Surety "Trust Land Admin." (Bond Incr. in Progress)*

- Lee 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond. ** 80,000 Surety "United Pacific Ins. Co"*
- ____ 2. A copy of this form has been placed in the new and former operators' bond files. ** Upon compl. of reating.*
- Lee 3. The former operator has requested a release of liability from their bond (yes/no) ____ . Today's date Sept. 13, 1994. 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 _____ 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's 2. Copies of documents have been sent to State Lands for changes involving State leases. *10-17-94 to Ed Bennett*

FILMING

- ✓ 1. All attachments to this form have been microfilmed. Date: 10-20 1994.

FILING

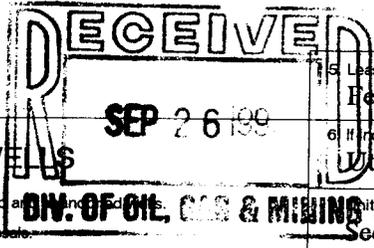
- ____ 1. Copies of all attachments to this form have been filed in each well file.
- ____ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

941003 Ed / Trust Land Admin. (Bond Incr. in Progress)

* Indian Lease wells & wells involved in C.A.'s "separate change".

ACCT NUM	COMPANY NAME	FLD NUM	FIELD NAME	TOWN SHIP	RANGE	SEC	QTR QTR	API NUMBER	PROD ZONE	WELL STATUS	ENTITY	WELL NAME	
✓N9523	LINMAR PETROLEUM COMPANY	55	ALTAMONT	SO10	W040	19	NENE	4301330322	GR-WS	POW	9118	STATE 1-19A4 ML-27912	
					W050	34	NWNE	4301330323	GR-WS	POW	9121	BARRETT 1-34A5 FEE	
					W030	18	NWNE	4301330354	GR-WS	TA	5915	UTE ALLOTTED 2-18A3 14-20-H62-1828	
65	BLUEBELL	55	ALTAMONT	SO10	W020	1	SENW	4301330360	GR-WS	POW	5830	CHASEL MILLER 2-1A2 FEE	
					W050	35	NENE	4301330362	DUCHR	WDW	99996	BIRCH WDW 2-35 FEE	
65	BLUEBELL	55	ALTAMONT	SO20	W040	32	SENE	4301330371	UNTA	WDW	99996	RUSSELL SWD 2-32B4 FEE	
					W030	19	SWNE	4301330535	GR-WS	SOW	1435	FISHER 1-19A3 FEE	
					W010	34	NESW	4301330590	GR-WS	POW	1440	LE BEAU 1-34-A1 FEE	
65	BLUEBELL	55	ALTAMONT	SO20	W020	19	SENW	4301330600	GR-WS	POW	9350	LINMAR 1-19B2 FEE	
					W030	16	NESW	4301330617	GR-WS	POW	9124	LINMAR HANSEN 1-16B8 FEE	
					W040	4	NESW	4301330645	GR-WS	POW	9125	OMAN 2-4B4 FEE	
65	BLUEBELL	55	ALTAMONT	SO20	W050	33	SWNE	4301330649	GR-WS	SOW	9132	WILDLIFE RES. 1-33B8 FEE	
					NO10	W020	25	NWSE	4301330659	GR-WS	POW	9111	DYE 1-25Z2 FEE
					SO20	W040	25	NWNE	4301330668	GR-WS	POW	9126	BROTHERSON 1-25B4 FEE
65	BLUEBELL	55	ALTAMONT	SO20	W050	28	NESW	4301330718	GR-WS	POW	9131	BROWN 2-28B8 FEE	
					NO10	W010	29	NWSE	4301330725	GR-WS	POW	9110	JENSEN 1-29Z FEE
					SO10	W010	17	NESW	4301330732	GR-WS	POW	9112	CHASEL 2-17A1 FEE
65	BLUEBELL	55	ALTAMONT	SO10	W040	16	NESE	4301330737	GR-WS	TAZ	9117	FISHER 1-16A4	
					W040	16	NESE	4301330737	GRRVL	POW	9117	FISHER 1-16A4 FEE	
					SO20	W050	14	NESW	4301330757	GR-WS	PA	9130	FLANIGAN 2-14B5
65	BLUEBELL	55	ALTAMONT	SO10	W040	24	NWNE	4301330760	GR-WS	POW	9136	GOODRICH 1-24A4 FEE	
					SO30	W060	14	SWSW	4301330775	GR-WS	POW	9133	UTE TRIBAL 2-14C6 14-20-H62-3809
					SO10	W040	25	NWSW	4301330776	GR-WS	POW	9137	CARL SMITH 2-25A4 FEE
65	BLUEBELL	55	ALTAMONT	SO20	W030	8	NESW	4301330780	GR-WS	POW	9355	CHRISTENSEN 2-8B3 FEE	
					NO10	W010	30	NWSE	4301330813	GR-WS	POW	9405	UTE TRIBAL 1-30Z1 14-20-H62-3910
					SO10	W020	2	SENW	4301330816	GR-WS	POW	9620	MURRAY 3-2A2 FEE
65	BLUEBELL	55	ALTAMONT	SO10	W040	15	SWNE	4301330817	GR-WS	POW	9345	JESSEN 1-15A4 FEE	
					SO10	W030	9	NWSW	4301330876	GR-WS	POW	9790	CLARK 2-9A3 FEE
					SO10	W030	16	SESW	4301330877	GR-WS	SOW	9335	JENKINS 3-16A3 FEE
65	BLUEBELL	55	ALTAMONT	SO10	W030	11	NESW	4301330893	GR-WS	POW	9401	LESLIE UTE 1-11A3 14-20-H62-3979	
					SO10	W030	13	SWNE	4301330894	GR-WS	POW	9402	E.B. UTE 1-13A3 14-20-H62-3980
					SO10	W030	23	NESW	4301330895	GR-WS	POW	9403	LAUREN UTE 1-23A3 14-20-H62-3981
65	BLUEBELL	55	ALTAMONT	SO20	W040	8	NESW	4301330898	GR-WS	TA	2418	ELLSWORTH 2-8B4 FEE	
					SO20	W050	4	SESW	4301330901	GR-WS	PA	9407	EDWARDS 2-4B5
					SO10	W040	32	SWSW	4301330904	GR-WS	POW	10045	OMAN 2-32A4 FEE
65	BLUEBELL	55	ALTAMONT	SO10	W050	26	SESW	4301330905	GR-WS	POW	9630	CHRISTENSEN 2-26A5 FEE	
					SO20	W050	8	NWSW	4301330906	GR-WS	TA PA	10712	*MILTZ 2-8B5 FEE
					SO20	W040	33	SWNW	4301330907	GR-WS	TA	9865	BELCHER 2-33B4 FEE
65	BLUEBELL	55	ALTAMONT	SO20	W050	35	SENW	4301330908	GR-WS	SOW	9404	BROTHERSON 2-35B8 FEE	
					SO10	W050	36	SESW	4301330911	GR-WS	POW	9406	FORD 2-36A5 FEE
					SO10	W040	27	NWSE	4301330915	GR-WS	POW	9632	FIELDSTED 2-27A4 FEE
65	BLUEBELL	55	ALTAMONT	SO10	W040	11	NESE	4301330936	GR-WS	PA	10482	JESSEN 1-11A4	
					SO10	W030	18	SENW	4301330940	GR-WS	POW	9633	TIMOTHY 3-18A3 FEE
					SO20	W040	27	NWNW	4301330941	GR-WS	POW	9625	WIMMER 2-27B4 FEE
65	BLUEBELL	55	ALTAMONT	NO10	W010	20	NWSE	4301330942	GR-WS	POW	10230	WILKERSON 1-20Z1 FEE	
					SO10	W010	4	SWNE	4301330954	GR-WS	POW	9855	HORROCKS 2-4A1 FEE
					SO10	W050	29	SESW	4301330974	GR-WS	SOW	10040	JENSEN 2-29A5 FEE



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:
None
6. If Indian, Allottee or Tribe Name:
None
7. Permit Agreement Name:
See attached list.

1. Type of Well: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER:	8. Well Name and Number: See attached list.
2. Name of Operator: Coastal Oil & Gas Corporation	9. API Well Number: See attached list.
3. Address and Telephone Number: P.O. Box 749, Denver, CO 80201-0749 (303) 573-4476	10. Field and Pool, or Wildcat: Altamont/Bluebell
4. Location of Well Footages: See attached list. County: See attached list. QQ, Sec., T., R., M.: 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 checked="" type="checkbox"/> Other <u>Change of operator.</u> | |

Approximate date work will start 9/8/94

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 type="checkbox"/> Other _____ | |

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.)

There was a change of operator on the date above for all wells on the attached list:

OPERATOR: - FROM: Linmar Petroleum Company
TO: Coastal Oil & Gas Corporation

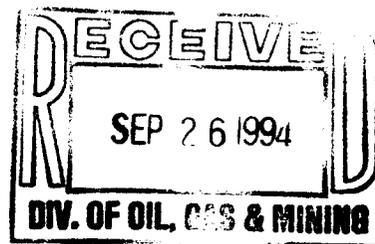
All operations are covered by Nationwide Bond No. 11-40-66A, Bond No. U6053821 and Nationwide Bond No.962270.

13. Name & Signature: Bernice Schneider Title: Environmental Analyst Date: 09/19/94

(This space for State use only)

WELL NAME	API #	FOOTAGES	LOCATION	COUNTY	LEASE DESIGNATION	TRIBE NAME	CA #	BOND #
Allred 1-16A3	43-013-30232	700' FNL & 1280' FEL	Section 16, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	96-000087	102102, 962270
Allred 2-16A3	43-013-30361		Section 16, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	96-000087	102102, 962270
Barrett 1-34A5	43-013-30323	713' FNL & 1387' FEL	Section 34, T1S, R5W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Belcher 2-33B4	43-013-30907	2348' FNL & 1085' FWL	Section 33, T2S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000119	102102, 962270
Birch 1-35A5	43-013-30233	757' FNL & 1024' FEL	Section 35, T1S, R5W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Birch 2-35A5	43-013-30362		Section 35, T1S, R5W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Brotherson 1-25B4	43-013-30668	778' FNL & 1627' FEL	Section 25, T2S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Brotherson 1-27B4	43-013-30185	1244' FNL & 1454' FEL	Section 27, T2S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Brotherson 2-35B5	43-013-30908	2432' FNL & 1648' FWL	Section 35, T2S, R5W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Brotherson 2-3B4	43-013-31008	1226' FSL & 1933' FWL	Section 3, T2S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Brown 2-28B5	43-013-30718	1777' FSL & 1413' FWL	Section 28, T2S, R5W, U.S.M.	Duchesne	Fee	Ute	96-000068	102102, 962270
Carl Smith 2-25A4	43-013-30776		Section 25, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000036	102102, 962270
Chandler 2-5B4	43-013-31000	466' FSL & 1180' FWL	Section 5, T2S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Chasel 2-17A1	43-013-30732	1379' FSL & 1360' FWL	Section 17, T1S, R1W, U.S.M.	Duchesne	Fee	Ute	NW 546 VR49184680C	102102, 962270
Chasel Hackford 2-10A1E	43-047-31421	1120' FSL & 1120' FEL	Section 10, T1S, R1E, U.S.M.	Uintah	Fee	Ute	UT08014986C693	102102, 962270
Chasel Miller 2-1A2	43-013-30360		Section 1, T1S, R2W, U.S.M.	Duchesne	Fee	Ute	UT08014987C685	102102, 962270
Christensen 2-26A5	43-013-30905	776' FSL & 1467' FWL	Section 26, T1S, R5W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Christensen 2-8B3	43-013-30780	1880' FSL & 1648' FWL	Section 8, T2S, R3W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Christensen 3-4B4	43-013-31142	804' FSL & 1948' FEL	Section 4, T2S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Christman Blann 1-31B4	43-013-30198	1257' FNL & 1552' FEL	Section 31, T2S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Clark 2-9A3	43-013-30876		Section 9, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	9C-000123	102102, 962270
Duncan 3-1A2	43-013-31135	1097' FSL & 702' FWL	Section 1, T1S, R2W, U.S.M.	Duchesne	Fee	Ute	UT08014987C685	102102, 962270
Dye 1-25Z2	43-013-30659	1520' FSL & 1520' FEL	Section 25, T1N, R2W, U.S.M.	Duchesne	Fee	Ute	UT08049P84C723	102102, 962270
D. Moon 1-23Z1	43-047-31479		Section 23, T1N, R1W, U.S.M.	Uintah	Fee	Ute		102102, 962270
Ellsworth 2-8B4	43-013-30898	1580' FSL & 1580' FWL	Section 8, T2S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Ellsworth 2-9B4	43-013-31138	2976' FNL & 2543' FWL	Section 9, T2S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Evans 1-31A4	43-013-30067	1987' FNL & 1973' FEL	Section 31, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	96-00045	102102, 962270
Fieldsted 2-27A4	43-013-30915	1496' FSL & 1718' FEL	Section 27, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000108	102102, 962270
Fisher 1-16A4	43-013-30737	1527' FSL & 834' FEL	Section 16, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	VR49184672C	102102, 962270
Fisher 1-19A3	43-013-30535	1609' FNL & 1671' FEL	Section 19, T1S, R3W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Fisher 1-7A3	43-013-30131	1980' FNL & 2080' FEL	Section 7, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	96-000058	102102, 962270
Fisher 2-6A3	43-013-30984	404' FSL & 596' FEL	Section 6, T1S, R3W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Ford 2-36A5	43-013-30911	1113' FSL & 1659' FWL	Section 36, T1S, R5W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Goodrich 1-24A4	43-013-30760	1106' FNL & 1599' FEL	Section 24, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	VR49184703C	102102, 962270
Griffith 1-33B4	43-013-30288	1307' FNL & 1512' FEL	Section 33, T2S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000119	102102, 962270
Hansen 1-16B3	43-013-30617	2088' FSL & 1760' FWL	Section 16, T2S, R3W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Horrocks 1-3A1	43-013-30171	2502' FNL & 2141' FEL	Section 3, T1S, R1W, U.S.M.	Duchesne/Uintah	Fee	Ute		102102, 962270
Horrocks 2-4A1	43-013-30954	1678' FNL & 1520' FWL	Section 4, T1S, R1W, U.S.M.	Duchesne	Fee	Ute	UT08014985C701	102102, 962270
Jacobson 2-12A4	43-013-30985	1104' FSL & 2417' FWL	Section 12, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	UT08014986C685	102102, 962270
Jenkins 3-16A3	43-013-30877	1085' FSL & 1905' FWL	Section 16, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	96-000087	102102, 962270
Jensen 1-29Z1	43-013-30725	1331' FSL & 2424' FEL	Section 29, T1N, T1W, U.S.M.	Duchesne	Fee	Ute	VR49184681C	102102, 962270
Jensen 1-31A5	43-013-30186	1380' FNL & 1244' FEL	Section 31, T1S, R5W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Jensen 2-29A5	43-013-30974	1085' FSL & 1528' FWL	Section 29, T1S, R5W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Jessen 1-15A4	43-013-30817	2417' FNL & 1514' FEL	Section 15, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	VR49184692C	102102, 962270
Jessen 1-17A4	43-013-30173	1182' FNL & 1130' FEL	Section 17, T1S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
LeBeau 1-34A1	43-013-30590		Section 34, T1S, R1W, U.S.M.	Duchesne/Uintah	Fee	Ute	VR49184694C	102102, 962270
Lindsay Russell 1-32B4	43-013-30308	1320' FNL & 1320' FEL	Section 32, T2S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000116	102102, 962270
Lindsay Russell 2-32B4	43-013-30371		Section 32, T2S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000116	102102, 962270
Linmar 1-19B2	43-013-30600	2032' FNL & 2120' FWL	Section 19, T2S, R2W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Marshall 1-20A3	43-013-30193	565' FNL & 1821' FEL	Section 20, T1S, R3W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Morris 2-7A3	43-013-30977	2473' FSL & 580' FWL	Section 7, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	96-000058	102102, 962270
Murray 3-2A2	43-013-30816	2211' FNL & 2257' FWL	Section 2, T1S, R2W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Olsen 1-27A4	43-013-30064	1200' FNL & 1200' FEL	Section 27, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000108	102102, 962270
Oman 2-32A4	43-013-30904	754' FSL & 1140' FWL	Section 32, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	NW-613	102102, 962270
Oman 2-4B4	43-013-30645	1536' FSL & 1849' FWL	Section 4, T2S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Powell 2-8A3	43-013-30979	661' FSL & 1114' FWL	Section 8, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	NRM-715	102102, 962270
Rhodes Moon 1-35B5	43-013-30155	870' FNL & 960' FEL	Section 35, T2S, R5W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Rhoades Moon 1-36B5	43-013-30289		Section 36, T2S, R5W, U.S.M.	Duchesne	Fee	Ute	96-000113	102102, 962270
Timothy 1-9A3	43-013-30321	1491' FNL & 1646' FEL	Section 9, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	9C-000123	102102, 962270
Ti.nothy 3-18A3	43-013-30940		Section 18, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	9C-000132	102102, 962270
Warren 1-32A4	43-013-30174	1799' FNL & 1104' FEL	Section 32, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	NW-613	102102, 962270
Wildlife Resources 1-33B5	43-013-30649	1804' FNL & 1603' FEL	Section 33, T2S, R5W, U.S.M.	Duchesne	Fee	Ute	UT08049184C726	102102, 962270
Wilkerson 1-20Z1	43-013-30942	1523' FSL & 1509' FEL	Section 20, T1N, R1W, U.S.M.	Duchesne	Fee	Ute	UT08014986C680	102102, 962270
Wimmer 2-27B4	43-013-30941	904' FNL & 886' FWL	Section 27, T2S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270

WELL NAME	API #	FOOTAGES	LOCATION	COUNTY	LEASE DESIGNATION	TRIBE NAME	CA #	BOND #
State 1 - 19A4	43-013-30322	985' FNL & 853' FEL	Section 19, T1S, R4W, U.S.M.	Duchesne	ML-27912	Ute		102102, 962270
State 1 - 8A3	43-013-30286	1545' FNL & 1489' FEL	Section 8, T1S, R3W, U.S.M.	Duchesne	ML-24316	Ute	NRM-715	102102, 962270
Wainoco State 1 - 14B1	43-047-30818		Section 14, T2S, R1W, U.S.M.	Duchesne/Uintah	ML-2402	Ute		102102, 962270



September 21, 1994

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

ATTN: Leesha Cordoba

Leesha:

I have mailed off the revised list of all the FEE wells to you, as well as the State wells.

The signed copies of the UIC Form 5's were mailed to the State approximately 9/12/94. Copies of the sundries sent to the BLM for all the Indian wells were mailed to the State also on 9/19/94.

I will address the Linmar FEE and CA wells ASAP, and will talk to our land people on 9/19 to determine the disposition of those wells temporarily abandoned.

Thanks again for you much appreciated help.

Sincerely,

Bonnie Johnston
Environmental Coordinator
(303) 573-4476

WELL NAME	API #	FOOTAGES	LOCATION	COUNTY	LEASE DESIGNATION	TRIBE NAME	CA #	BOND #
Allred 1-16A3	43-013-30232	700' FNL & 1280' FEL	Section 16, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	96-000087	102102, 962270
Allred 2-16A3	43-013- 30691 30361		Section 16, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	96-000087	102102, 962270
Belcher 2-33B4	43-013-30907	2348' FNL & 1085' FWL	Section 33, T2S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000119	102102, 962270
Brown 2-28B5	43-013-30718	1777' FSL & 1413' FWL	Section 28, T2S, R5W, U.S.M.	Duchesne	Fee	Ute	96-000068	102102, 962270
Carl Smith 2-25A4	43-013-30776		Section 25, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000036	102102, 962270
Chasel 2-17A1	43-013-30732	1379' FSL & 1360' FWL	Section 17, T1S, R1W, U.S.M.	Duchesne	Fee	Ute	VR49184680C	102102, 962270
Chasel Hackford 2-10A1E	43-047-31421	1120' FSL & 1120' FEL	Section 10, T1S, R1E, U.S.M.	Uintah	Fee	Ute	UT08014986C693	102102, 962270
Chasel Miller 2-1A2	43-013-30360		Section 1, T1S, R2W, U.S.M.	Duchesne	Fee	Ute	UT08014987C685	102102, 962270
Clark 2-9A3	43-013-30876		Section 9, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	9C-000123	102102, 962270
Duncan 3-11A2	43-013-31135	1097' FSL & 702' FWL	Section 1, T1S, R2W, U.S.M.	Duchesne	Fee	Ute	UT08014987C685	102102, 962270
Dye 1-25Z2	43-013-30659	1520' FSL & 1520' FEL	Section 25, T1N, R2W, U.S.M.	Duchesne	Fee	Ute	UT08049P84C723	102102, 962270
Fieldsted 2-27A4	43-013-30915	1496' FSL & 1718' FEL	Section 27, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000108	102102, 962270
er 1-16A4	43-013-30737	1527' FSL & 834' FEL	Section 16, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	VR49184672C	102102, 962270
ner 1-7A3	43-013-30131	1980' FNL & 2080' FEL	Section 7, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	96-000058	102102, 962270
Goodrich 1-24A4	43-013-30760	1106' FNL & 1599' FEL	Section 24, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	VR49184703C	102102, 962270
Griffith 1-33B4	43-013-30288	1307' FNL & 1512' FEL	Section 33, T2S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000119	102102, 962270
Horrocks 2-4A1	43-013-30954	1678' FNL & 1520' FEL	Section 4, T1S, R1W, U.S.M.	Duchesne	Fee	Ute	UT08014985C701	102102, 962270
Jacobson 2-12A4	43-013-30985	1104' FSL & 2417' FWL	Section 12, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	UT08014986C685	102102, 962270
Jenkins 3-16A3	43-013-30877	1085' FSL & 1905' FWL	Section 16, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	96-000087	102102, 962270
Jensen 1-29Z1	43-013-30725	1331' FSL & 2424' FEL	Section 29, T1N, T1W, U.S.M.	Duchesne	Fee	Ute	VR49184681C	102102, 962270
Jessen 1-15A4	43-013-30817	2417' FNL & 1514' FEL	Section 15, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	VR49184692C	102102, 962270
LeBeau 1-34A1	43-013-30590		Section 34, T1S, R1W, U.S.M.	Duchesne/Uintah	Fee	Ute	VR49184694C	102102, 962270
Lindsay Russell 1-32B4	43-013-30308	1320' FNL & 1320' FEL	Section 32, T2S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000116	102102, 962270
Lindsay Russell 2-32B4	43-013-30371		Section 32, T2S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000116	102102, 962270
Morris 2-7A3	43-013-30977	2473' FSL & 580' FWL	Section 7, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	96-000058	102102, 962270
Olsen 1-27A4	43-013-30064	1200' FNL & 1200' FEL	Section 27, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000108	102102, 962270
Oman 2-32A4	43-013-30904	754' FSL & 1140' FWL	Section 32, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	NW-613	102102, 962270
Powell 2-8A3	43-013-30979	661' FSL & 1114' FWL	Section 8, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	NRM-715	102102, 962270
Rhoades Moon 1-36B5	43-013-30289		Section 36, T2S, R5W, U.S.M.	Duchesne	Fee	Ute	96-000113	102102, 962270
Timothy 1-9A3	43-013-30321	1491' FNL & 1646' FEL	Section 9, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	9C-000123	102102, 962270
Timothy 3-18A3	43-013-30940		Section 18, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	9C-000132	102102, 962270
Warren 1-32A4	43-013-30174	1799' FNL & 1104' FEL	Section 32, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	NW-613	102102, 962270
Wildlife Resources 1-33B5	43-013-30649	1804' FNL & 1603' FEL	Section 33, T2S, R5W, U.S.M.	Duchesne	Fee	Ute	UT08049184C726	102102, 962270
Wilkerson 1-20Z1	43-013-30942	1523' FSL & 1509' FEL	Section 20, T1N, R1W, U.S.M.	Duchesne	Fee	Ute	UT08014986C680	102102, 962270

WILKINSON

 SEP 26 1994

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.
Fee

6. If Indian, Alottee or Tribe Name
Ute

7. If Unit or CA, Agreement Designation
N/A

8. Well Name and No.
See attached list.

9. AAPI Well No.
See attached list.

10. Field and Pool, Or Exploratory Area
See attached list.

11. County or Parish, State
See attached list.

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

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Linmar Petroleum Company

3. Address and Telephone No.
7979 East Tufts Ave. Parkway, Suite 604, Denver, CO 80237 (303) 773-8003

4. Location of Well (Footage, Sec., T., R., M., Or Survey Description)
 See attached list of wells.

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

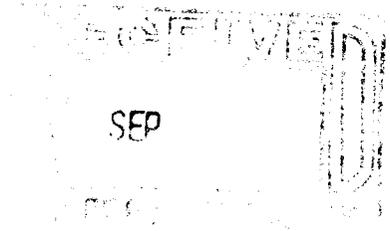
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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 markets and zones pertinent to this work.)*

There will be a change of operator for all wells specified on the attached list.

OPERATOR - FROM: Linmar Petroleum Company
 TO: Coastal Oil and Gas Corporation

All operations will be covered by Nationwide Bond No. 11-40-66A and Bond No. U6053821, as required by the State of Utah.



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

Signed By: L. M. Kohlefer Title Vice President of Managing General Partner Date 9/1/94

(This space for Federal or State office use)

APPROVED BY _____ Title _____ Date _____
 Conditions of approval, if any:

WELL NAME	API #	FOOTAGES	LOCATION	FIELD	COUNTY	LEASE DESIGNATION
✓ Allred 2-16A3	43-013-30361		Section 16, T1S, R3W, U.S.M.	Altamont	Duchesne	Fee <u>96-00037</u>
Barrett 1-34A5	43-013-30323	713' FNL & 1387' FEL	Section 34, T1S, R5W, U.S.M.	Altamont	Duchesne	Fee
Birch 1-35A5	43-013-30233	757' FNL & 1024' FEL	Section 35, T1S, R5W, U.S.M.	Altamont	Duchesne	Fee
Birch 2-35A5	43-013-30362		Section 35, T1S, R5W, U.S.M.	Altamont	Duchesne	Fee
Brotherson 1-25B4	43-013-30668	778' FNL & 1627' FEL	Section 25, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee
Brotherson 1-27B4	43-013-30185	1244' FNL & 1464' FEL	Section 27, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee
Brotherson 2-35B5	43-013-30908	2432' FNL & 1648' FWL	Section 35, T2S, R5W, U.S.M.	Altamont	Duchesne	Fee
Brotherson 2-3B4	43-013-31008	1226' FSL & 1933' FWL	Section 3, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee
✓ Chandler 2-5B4	43-013-31000	466' FSL & 1180' FWL	Section 5, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee <u>96-00037</u>
Christensen 2-26A5	43-013-30905	776' FSL & 1467' FWL	Section 26, T1S, R5W, U.S.M.	Altamont	Duchesne	Fee
Christensen 2-8B3	43-013-30780	1880' FSL & 1694' FWL	Section 8, T2S, R3W, U.S.M.	Altamont	Duchesne	Fee
Christensen 3-4B4	43-013-31142	804' FSL & 1948' FEL	Section 4, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee
Christman Blann 1-31B4	43-013-30198	1257' FNL & 1552' FEL	Section 31, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee
D. Moon 1-23Z1	43-047-31479		Section 23, T1N, R1W, U.S.M.	Bluebell	Uintah	Fee
Ellsworth 2-8B4	43-013-30898	1580' FSL & 1580' FWL	Section 8, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee
✓ Ellsworth 2-9B4	43-013-31138	2976' FNL & 2543' FWL	Section 9, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee <u>96-00045 (ANR)</u>
Evans 1-31A4	43-013-30067	1987' FNL & 1973' FEL	Section 31, T1S, R4W, U.S.M.	Altamont	Duchesne	Fee
Fisher 1-19A3	43-013-30535	1609' FNL & 1671' FEL	Section 19, T1S, R3W, U.S.M.	Altamont	Duchesne	Fee
Fisher 2-6A3	43-013-30984	404' FSL & 596' FEL	Section 6, T1S, R3W, U.S.M.	Altamont	Duchesne	Fee
Ford 2-36A5	43-013-30911	1113' FSL & 1659' FWL	Section 36, T1S, R5W, U.S.M.	Altamont	Duchesne	Fee
Hansen 1-16B3	43-013-30617	2088' FSL & 1760' FWL	Section 16, T2S, R3W, U.S.M.	Altamont	Duchesne	Fee
Horrocks 1-3A1	43-013-30171	2502' FNL & 2141' FWL	Section 3, T1S, R1W, U.S.M.	Bluebell	Duchesne/Uintah	Fee
Jensen 1-31A5	43-013-30186	1380' FNL & 1244' FEL	Section 31, T1S, R5W, U.S.M.	Altamont	Duchesne	Fee
Jensen 2-29A5	43-013-30974	1085' FSL & 1528' FWL	Section 29, T1S, R5W, U.S.M.	Altamont	Duchesne	Fee
Jessen 1-17A4	43-013-30173	1182' FNL & 1130' FEL	Section 17, T1S, R4W, U.S.M.	Altamont	Duchesne	Fee
✓ Lindsay Russell 2-32B4	43-013-30371		Section 32, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee <u>96-00016</u>
Linmar 1-19B2	43-013-30600	2032' FNL & 2120' FWL	Section 19, T2S, R2W, U.S.M.	Altamont	Duchesne	Fee
Marshall 1-20A3	43-013-30193	565' FNL & 1821' FEL	Section 20, T1S, R3W, U.S.M.	Bluebell	Duchesne	Fee
Murray 3-2A2	43-013-30816	2211' FNL & 2257' FWL	Section 2, T1S, R2W, U.S.M.	Bluebell	Duchesne	Fee
✓ 1-2-4B4	43-013-30645	1536' FSL & 1849' FWL	Section 4, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee
Roads Moon 1-35B5	43-013-30155	870' FNL & 960' FEL	Section 35, T2S, R5W, U.S.M.	Altamont	Duchesne	Fee
Wimmer 2-27B4	43-013-30941	904' FNL & 886' FWL	Section 27, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: Birch #2-35A3
Field or Unit name: Altamont API no. 43-013-30362
Well location: QQ section 35 township 1S range 5W county Duchesne
Effective Date of Transfer: 9/1/94

CURRENT OPERATOR

Transfer approved by:

Name L. M. Rohleder Company Linmar Petroleum Company
Signature *L. M. Rohleder* Address 7979 E. Tufts Ave. Pkwy., Ste 604
Title Vice President of Managing General Partner Denver, CO 80237
Date 9/1/14 Phone (303) 773-8003

Comments:

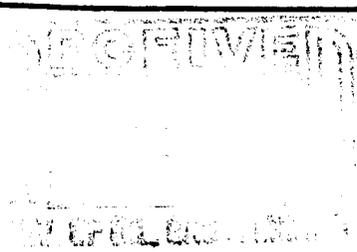
NEW OPERATOR

Transfer approved by:

Name Randy L. Bartley Company Coastal Oil & Gas Corporation
Signature *[Signature]* Address P.O. Box 749
Title Vice President Denver, CO 80201-0749
Date 9/1/94 Phone (303) 572-1121

Comments:

(State use only)
Transfer approved by *[Signature]* Title UIC Manager
Approval Date 10-4-94



SEP 26 1994

5. Lease Designation and Serial Number:

Free

6. If Indian, Allottee or Tribe Name:

Ute

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.

7. Unit Agreement Name:

See attached list.

1. Type of Well:

OIL GAS OTHER:

8. Well Name and Number:

See attached list.

2. Name of Operator:

Linmar Petroleum Company

9. API Well Number:

See attached list.

3. Address and Telephone Number:

7979 East Tufts Ave. Parkway, Suite 604, Denver, CO 80237 (303)773-8003

10. Field and Pool, or Wildcat:

Altamont/Bluebell

4. Location of Well

Footages: See attached list.

County: See attached list.

QQ, Sec., T., R., M.:

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 checked="" type="checkbox"/> Other <u>Change of operator.</u> | |

Approximate date work will start 9/8/94

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 type="checkbox"/> Other _____ | |

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.)

There was a change of operator on the date above for all wells on the attached list:

OPERATOR: -- FROM: Linmar Petroleum Company
TO: Coastal Oil & Gas Corporation

All operations are covered by Nationwide Bond No. 11-40-66A, Bond No. U6053821 and Nationwide Bond No.962270.

13.

Name & Signature: BY: L. M. ROHLER *L. M. Rohleder*

V.P. OF MANAGING

Title: GENERAL PARTNER

Date: 9/20/94

(This space for State use only)

TATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:
Fee

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.

6. If Indian, Allottee or Tribe Name:
N/A

7. Unit Agreement Name:
N/A

1. Type of Well:
OIL GAS OTHER: Saltwater Disposal

8. Well Name and Number:
Birch #2-35A5

2. Name of Operator:
Coastal Oil & Gas Corporation

9. API Well Number:
43-013-30362

3. Address and Telephone Number:
P.O. Box 749, Denver, CO 80201-0749 (303) 573-4455

10. Field and Pool, or Wildcat:
Altamont

4. Location of Well
Footages: 852' FNL & 1196' FEL
QQ, Sec., T., R., M.: Section 35-T1S-R5W

County: Duchesne
State: Utah

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

NOTICE OF INTENT
(Submit in Duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other CO
- New Construction
- Pull or Alter Casing
- Recompletion
- Perforate
- Vent or Flare
- Water Shut-Off

Approximate date work will start Upon Approval

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandon *
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other
- New Construction
- Pull or Alter Casing
- Perforate
- Vent or Flare
- Water Shut-Off

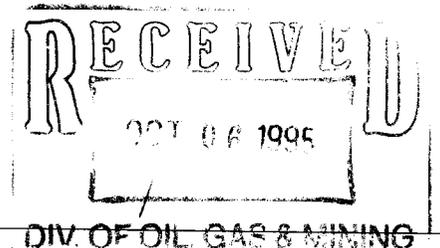
Date of work completion _____

Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see the attached workover procedure for work to be performed on the subject well.



13. Name & Signature: Sheila Bremer

Sheila Bremer
Title: Environmental & Safety Analyst Date: 10/04/95

(This space for State use only)

Not to exceed max. injection pressure of 1500 psi.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 10-13-95
BY: [Signature]

**BIRCH 2-35A5 SWD
Section 35 T1S R5W
Altamont Field
Duchesne Co. Utah**

PROCEDURE:

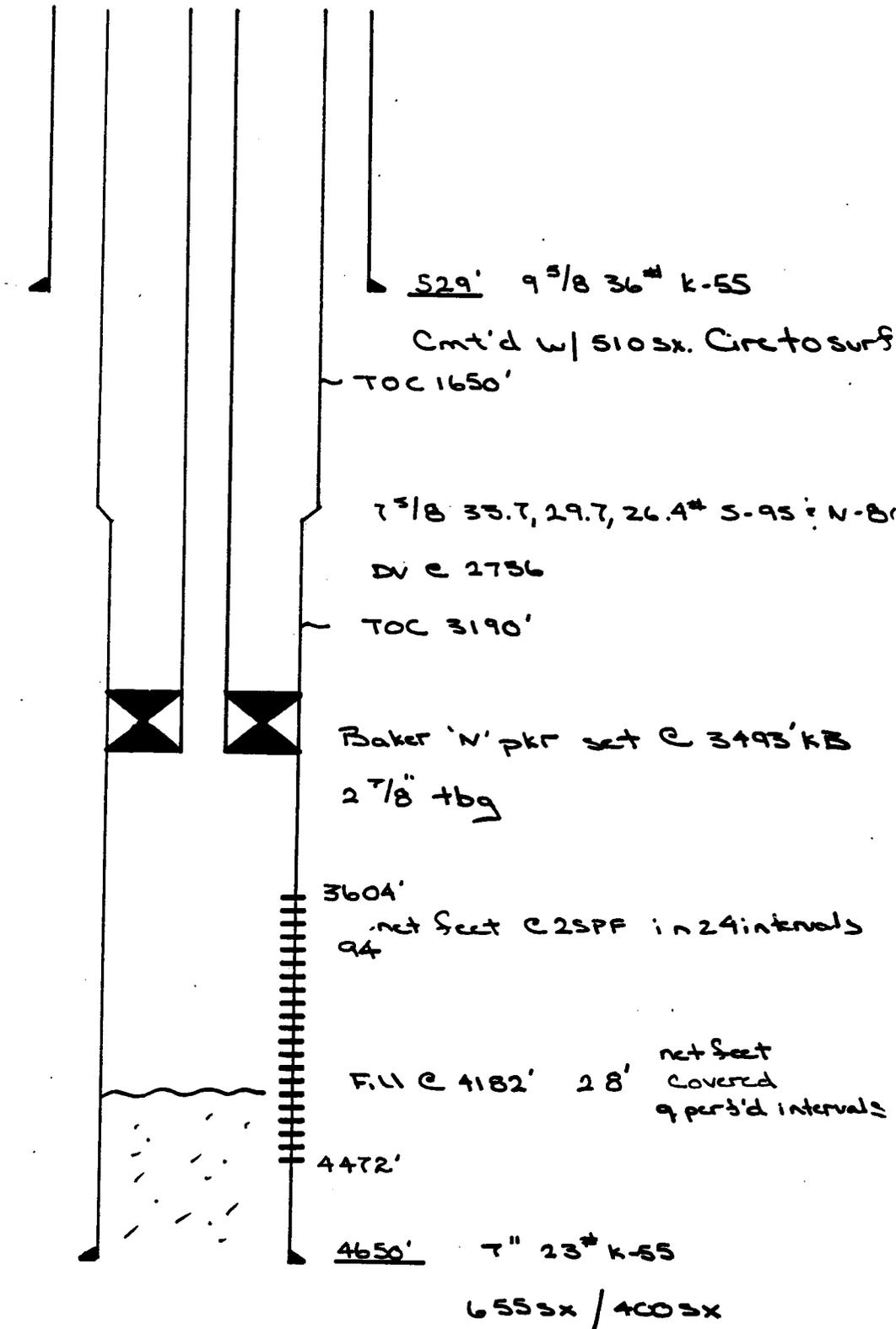
1. Bleed dn well. MIRU Coiled tbg unit. CO fill from 4182' to below bottom perf @ 4472' w/produced wtr using N2 assist if necessary. If well flows back, flow back during cleanout. Downhole motor may be needed due to compacted fill.
2. MIRU Dowell to acidize interval from 3604-4472 188 holes per attached treatment schedule. Pump acid @ 2-4 BPM and 2000 psi max press.
3. Swab or flow back load. Return well to injection.

BIRCH 2-35 AS SWD

6796' GL

Altamont Field

4575' KB





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 19, 1996

Coastal Oil & Gas Corp.
P.O. Box 120
Altamont, Utah 84001

Re: Pressure Test for Mechanical Integrity, LDS 2-27B5,
Erich 2-11B5, Birch 2-35 and G. Hanson 2-4B3 Injection
Wells, Duchesne County, Utah

Gentlemen:

The Underground Injection Control Program which the Division of Oil, Gas and Mining (DOGM) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. Rule R649-5-5.3 of the Oil and Gas Conservation General Rules requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five year period beginning October 1982. Our records indicate the above referenced wells are due for testing. Please make arrangements and ready the wells for testing during the week of September 2, 1996 as outlined below:

1. Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), as well as personnel to assist in opening valves etc.
2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.
3. If mechanical difficulties or workover operations make it impossible for the wells to be tested on this date the tests may be rescheduled.



Page 2
Coastal Oil & Gas Corp.
August 19, 1996

4. Company personnel should meet DOGM representatives at the field office or other location as negotiated.
5. All bradenhead valves with exception of the tubing on the injection wells must be shut-in 24 hours prior to testing.

Please contact Dan Jarvis at (801)538-5338 to arrange a meeting time and place or negotiate a different date if this one is unacceptable.

Sincerely,

A handwritten signature in cursive script, appearing to read "Gil Hunt".

Gil Hunt
Environmental Manager, Oil & Gas

STATE OF UTAH
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

3270/WDW

INJECTION WELL - PRESSURE TEST

Test Date: <u>9/5/96</u>	Well Owner/Operator: <u>Coastal Oil & Gas</u>
Disposal Well: <u>X</u>	Enhanced Recovery Well: _____ Other: _____
API No.: <u>43-013-30362</u>	Well Name/Number: <u>Birch 2-35A5</u>
Section: <u>35</u>	Township: <u>1S</u> Range: <u>5W</u>

Initial Conditions:

Tubing - Rate: _____ Pressure: 600 psi
Casing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

<u>Time (Minutes)</u>	<u>Annulus Pressure</u>	<u>Tubing Pressure</u>
0	<u>575</u>	<u>600</u>
5	<u>575</u>	<u>600</u>
10	<u>575</u>	<u>600</u>
15	<u>575</u>	<u>600</u>
20	_____	_____
25	_____	_____
30	_____	_____

Results: Pass Fail

Conditions After Test:

Tubing Pressure: 600 psi
Casing/Tubing Annulus Pressure: 0 psi

REMARKS:

Passed MIT

[Signature]
Operator Representative

[Signature]
DOGM Witness



Coastal
The Energy People

April 25, 2000

Mr. Bahram Jafari
8ENF-T
U. S. EPA
Region VIII
999 18th Street, Suite 500
Denver, CO 80202-2466

Re: Well: Birch # 2-35A5 SWD
Well ID: UT 2652-02557
Field: Altamont

43-013-30362
Sec. 35, 1S, 5W

Dear Mr. Jafari:

Per conditions described in the permit identified above, please find results for the mechanical integrity test (MIT) recently performed on the above referenced well. As data enclosed indicates, this well attained a "pass" performance for the MIT.

If you have questions, you may contact me at (435)781-7048.

Sincerely,

Deborah A. Harris, PG
Environmental Geologist

Cc:


Bill McGaughey
BLM-Vernal
WF-Vernal

RECEIVED
APR 26 2000
DIVISION OF
OIL, GAS AND MINING

Coastal Oil & Gas Corporation

A SUBSIDIARY OF THE COASTAL CORPORATION
1368 S 1200 E • P.O. BOX 1148 • VERNAL UT 84078 • 435/789-4433 • FAX 435/789-4436

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 4/19/00 Time 11:55 (am) pm
Test conducted by: Dwayne Davies
Others present: Dale Christensen

Well: Birch 2-35 A5 SWD Well ID: UT2652-02557
Field: Altamont Company: Coastal Oil & Gas Corp.
Well Location: NE/NE Sec 35 T15 R5W Address: P.O. Box 1148
Denver Ut 84078

Time	Test #1	Test #2	Test #3
<i>New</i> 0 min	<u>1000</u> psig	_____ psig	_____ psig
5	<u>990</u>	_____	_____
10	<u>980</u>	_____	_____
15	<u>970</u>	_____	_____
20	<u>960</u>	_____	_____
25	<u>950</u>	_____	_____
30 min	<u>940</u>	_____	_____
35	_____	_____	_____
40	_____	_____	_____
45	_____	_____	_____
50	_____	_____	_____
55	_____	_____	_____
60 min	_____	_____	_____

RECEIVED

APR 26 2000

DIVISION OF
OIL, GAS AND MINING

Tubing press Start 150 psig _____ psig _____ psig
End 75 psig

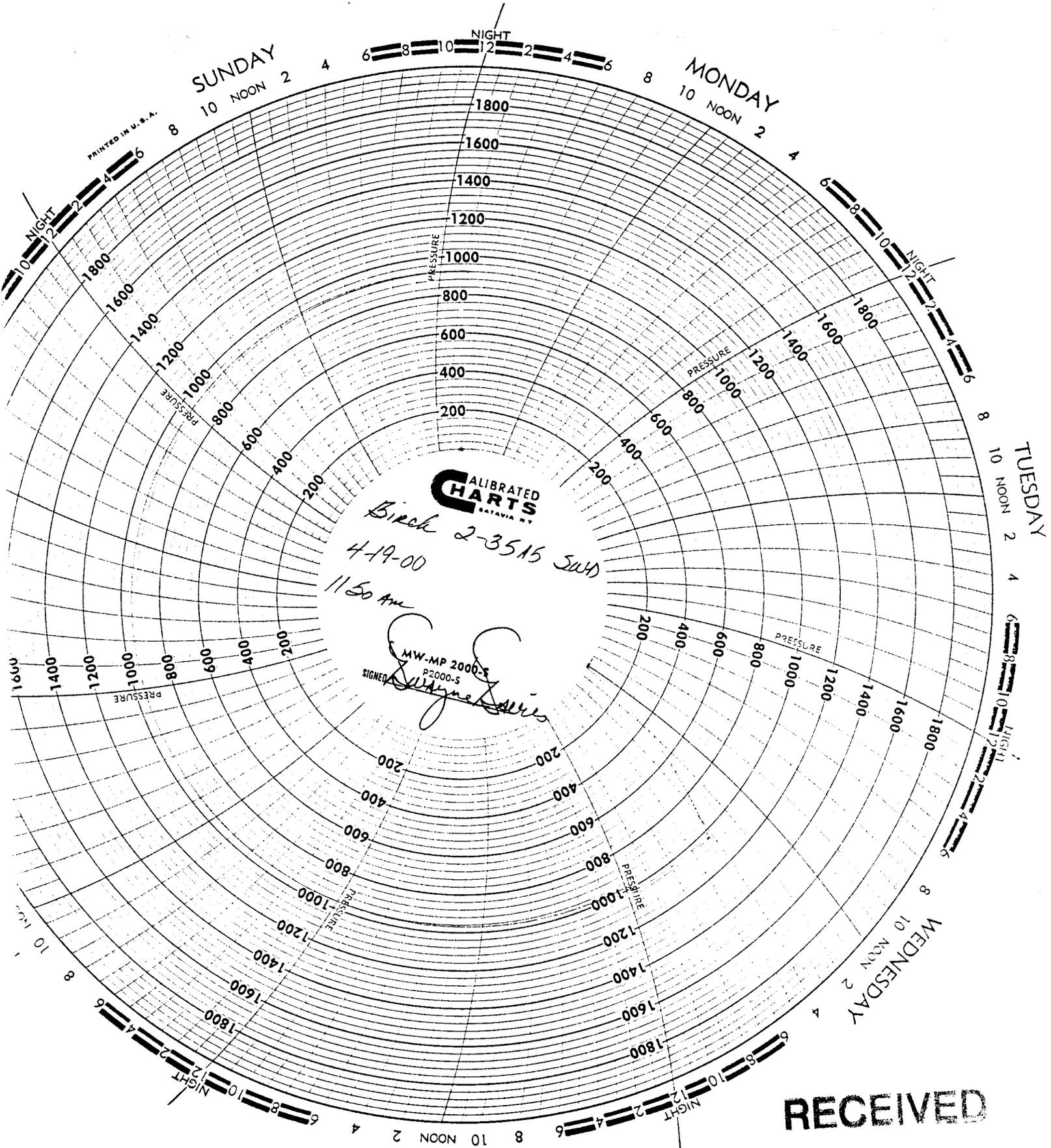
Result Pass Fail Pass Fail Pass Fail

Signature of EPA Witness: _____

See back of page for any additional comments & compliance followup.

This is the front side of two sides

Coastal Witness Dwayne Davies



ALIBRATED
HARTS
BATAVIA NY

Birch 2-3515 SWD
4-19-00
11:50 Am

MW-MP 2000-S
P2000-S
SIGNED *W. Wayne Harris*

RECEIVED

APR 26 2000

DIVISION OF
OIL, GAS AND MINING

June 8, 2001

Carroll Estes
Coastal Oil and Gas/El Paso Production
P.O. Box 1148
Vernal, UT 84078

Mr. Gil Hunt
Utah Department of Natural Resources/DOGM
1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801

Re: Emergency Pit-Birch 2-35A5 SWD *15 43013 30362*
SW
35

Dear Mr. Hunt:

Coastal Oil & Gas (El Paso) proposes to install a lined emergency overflow pit at the Birch 2-35A5 SWD location as per the attached Exhibit A and Diagram.

This pit is necessary because the current 210-barrel overflow tank is inadequate to contain 24 hours of throughput for this facility. The construction on this facility will commence immediately upon receipt of your approval for this project.

Thank you in advance for your consideration in this matter. If you have other questions about this emergency pit or facility please contact me at (435) 781-7009.

Sincerely,



Carroll Estes
Principal Environmental Specialist

Cc: Mike McAllister
Carl Lakey
Bill McGaughey
Ward Maloy
Well File

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

Date: 6-11-01
By: *G. Hunt*

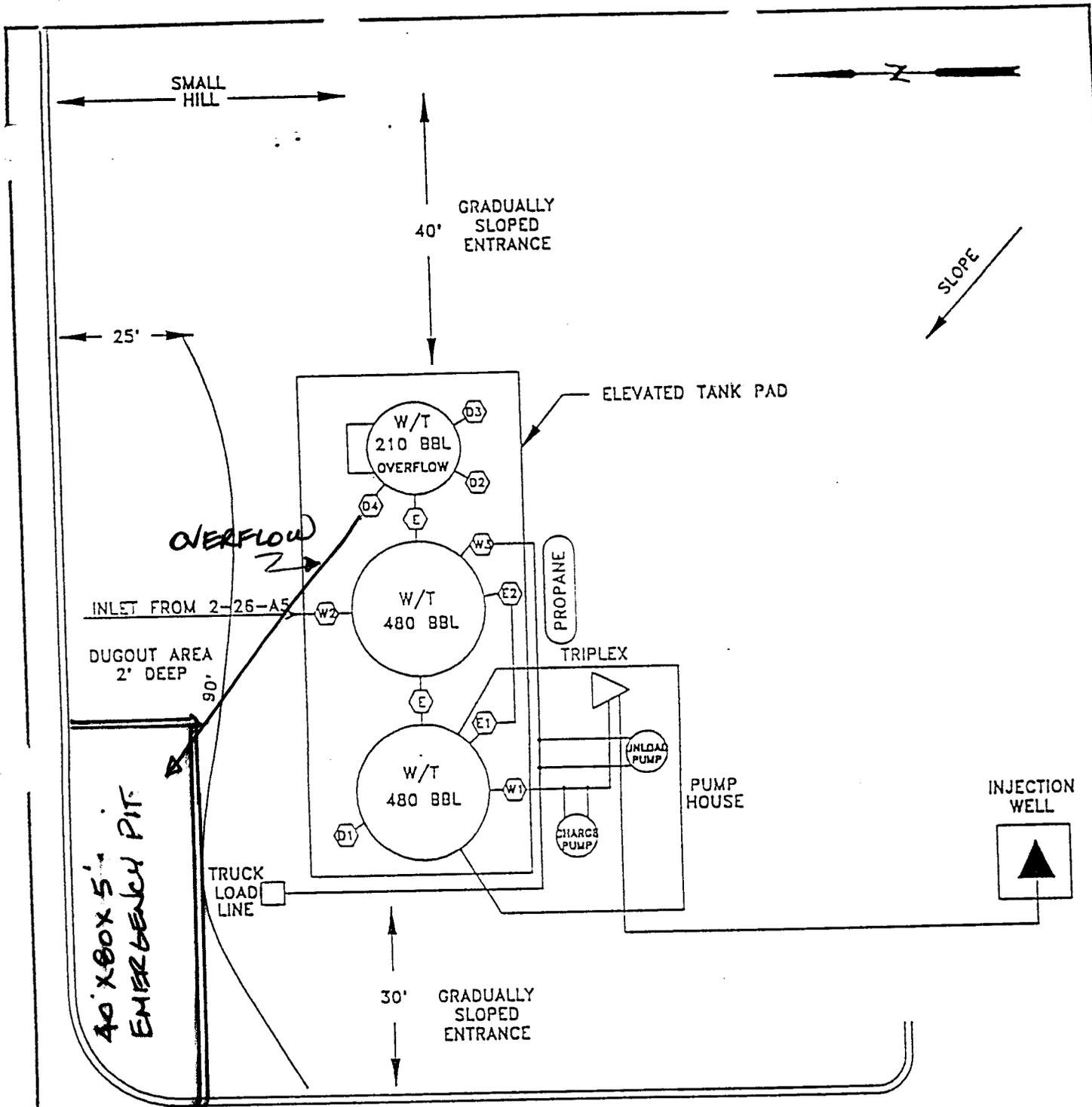
DOGM/2-35A5 SWD

*For emergency use only.
Fluid removed within 48 hours.*



Exhibit A:

The pit has been designed for a 2,849-barrel capacity, which is necessary to facilitate the 24-hour throughput of the facility. The pit will be constructed 80' long by 40' wide by 5' deep. The pit bottom will be padded with straw and a 30 mil, UV treated impervious black plastic liner will be installed over the straw. The pit will be emptied with water trucks when an overflow condition has occurred. The pit will be kept dry and clean at all times except when an overflow condition has occurred. The pit will be emptied no later than 48 hours after an overflow event.



This lease is subject to the site security plan for the Allamont Field for Coastal Oil & Gas. The plan is located at: Allamont Gas Plant 2 miles west of Allamont on Highway 87. Allamont, Utah

File No: RUN-13/2-35-A5

NOT TO SCALE

Coastal Oil & Gas Corp.

Field: Allamont
 Lease(s): BIRCH 2-35-A5 SWD
 Location: SW SW Sec. 36, T1S-R5W
 County: Duchesne State: Utah
 Prepared By: K. Rombeck Date: 1-29-96

Buy's & Associates, Inc.
 Environmental Consultants

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH		4-KAS ✓
2. CDW		5-LPV ✓ <i>bpl</i>
3. JLT		6-FILE

Enter date after each listed item is completed

Change of Operator (Well Sold)

Designation of Agent

Operator Name Change (Only)

X Merger

The operator of the well(s) listed below has changed, effective: **3-09-2001**

FROM: (Old Operator):
COASTAL OIL & GAS CORPORATION
Address: 9 GREENWAY PLAZA STE 2721
HOUSTON, TX 77046-0995
Phone: 1-(713)-418-4635
Account N0230

TO: (New Operator):
EL PASO PRODUCTION OIL & GAS COMPANY
Address: 9 GREENWAY PLAZA STE 2721 RM 2975B
HOUSTON, TX 77046-0995
Phone: 1-(832)-676-4721
Account N1845

CA No.

Unit:

WELL(S)

NAME	API NO	ENTITY NO	SEC TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
ALLRED 2-16A3	43-013-30361	99996	16-01S-03W	FEE	WD	A
BIRCH 2-35A5	43-013-30362	99996	35-01S-05W	FEE	WD	A
G HANSON 2-4B3 SWD	43-013-30337	99990	04-02S-03W	FEE	WD	A
LAKE FORK 2-23B4	43-013-30038	1970	23-02S-04W	FEE	WD	A
LINDSAY RUSSELL 2-32B4	43-013-30371	99996	32-02S-04W	FEE	WD	A
TEW 1-9B5	43-013-30121	1675	09-02S-05W	FEE	WD	A
EHRICH 2-11B5	43-013-30391	99990	11-02S-05W	FEE	WD	A
LDS CHURCH 2-27B5	43-013-30340	99990	27-02S-05W	FEE	WD	A
UTE 1-14C6	43-013-30056	12354	14-03S-06W	INDIAN	WD	A
SOUTHMAN CANYON U 3	43-047-15880	99990	15-10S-23E	FEDERAL	WD	A
STIRRUP STATE 32-6 (HORSESHOE BEND UNIT)	43-047-32784	12323	32-06S-21E	STATE	WIW	A
NBU 21-20B (NATURAL BUTTES UNIT)	43-047-30359	2900	20-09S-20E	FEDERAL	WD	A
NBU 159 (NATURAL BUTTES UNIT)	43-047-31996	2900	35-09S-21E	FEDERAL	WD	A

OPERATOR CHANGES DOCUMENTATION

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/19/2001
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/19/2001
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 06/21/2001
- Is the new operator registered in the State of Utah: YES Business Number: 608186-0143

5. If **NO**, the operator was contacted contacted on: N/A
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the (merger, name change, or operator change for all wells listed on Federal or Indian leases on: N/A
7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A
9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 06/21/2001
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 06/21/2001
3. Bond information entered in RBDMS on: 06/20/2001
4. Fee wells attached to bond in RBDMS on: 06/21/2001

STATE BOND VERIFICATION:

1. State well(s) covered by Bond No.: 400JU0705

FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed has furnished a bond: 400JU0708
2. The **FORMER** operator has requested a release of liability from their bond on: COMPLETION OF OPERATOR CHANGE
The Division sent response by letter on: N/A
3. (R649-2-10) The **FORMER** operator of the Fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: COMPLETION OF OPERATOR CHANGE

FILMING:

1. All attachments to this form have been **MICROFILMED** on: 7.12.01

FILING:

1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filed in each well file on: _____

COMMENTS: Master list of all wells involved in operator change from Coastal Oil & Gas Corporation to El Paso Production Oil and Gas Company shall be retained in the "Operator Change File".

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL GAS WELL OTHER _____

2. NAME OF OPERATOR: El Paso Production Oil & Gas Company

3. ADDRESS OF OPERATOR: 368 South 1200 East CITY Vernal STATE Utah ZIP 84078 PHONE NUMBER: 435-789-4433

4. LOCATION OF WELL FOOTAGES AT SURFACE: _____ COUNTY: _____

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____ STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER: Exhibit "A"

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Name Change</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

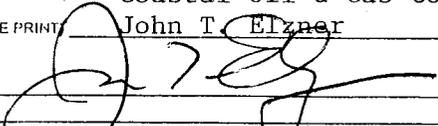
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

As a result of the merger between The Coastal Corporation and a wholly owned subsidiary of El Paso Energy Corporation, the name of Coastal Oil & Gas Corporation has been changed to El Paso Production Oil & Gas Company effective March 9, 2001.

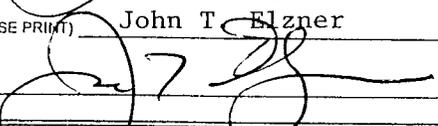
See Exhibit "A"

Bond # 400JU0708

NAME (PLEASE PRINT) Coastal Oil & Gas Corporation John T. Elzner TITLE Vice President

SIGNATURE  DATE 06-15-01

NAME (PLEASE PRINT) El Paso Production Oil & Gas Company John T. Elzner TITLE Vice President

SIGNATURE  DATE 06-15-01

(This space for State use only)

RECEIVED

JUN 19 2001

DIVISION OF
OIL, GAS AND MINING

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

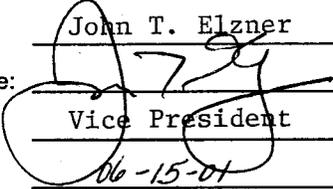
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number <p style="text-align: center;">EXHIBIT "A"</p>	API Number
Location of Well	Field or Unit Name
Footage : _____ County : _____	Lease Designation and Number
QQ, Section, Township, Range: _____ State : UTAH	

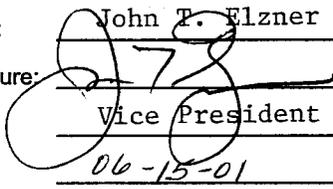
EFFECTIVE DATE OF TRANSFER: 03-09-01

CURRENT OPERATOR

Company: <u>Coastal Oil & Gas Corporation</u>	Name: <u>John T. Elzner</u>
Address: <u>1368 South 1200 East</u>	Signature: 
city <u>Vernal</u> state <u>UT</u> zip <u>84078</u>	Title: <u>Vice President</u>
Phone: <u>435-789-4433</u>	Date: <u>06-15-01</u>

Comments: As a result of the merger between The Coastal Corporation and a wholly owned subsidiary of El Paso Energy Corporation, the name of Coastal Oil & Gas Corporation has been changed to El Paso Production Oil & Gas Company effective March 9, 2001.
See EXHIBIT "A"

NEW OPERATOR

Company: <u>El Paso Production Oil & Gas Company</u>	Name: <u>John T. Elzner</u>
Address: <u>1368 South 1200 East</u>	Signature: 
city <u>Vernal</u> state <u>UT</u> zip <u>84078</u>	Title: <u>Vice President</u>
Phone: <u>435-789-4433</u>	Date: <u>06-15-01</u>

Comments: NAME CHANGE

Bond Number 400JU0708

(This space for State use only)

Transfer approved by: 
Title: Tech. Services Manager

Approval Date: 6-21-01

Comments: Exhibit A as revised.

RECEIVED
JUN 19 2001
DIVISION OF
OIL, GAS AND MINING

EXHIBIT "A"

NAME CHANGE FROM COASTAL OIL & GAS CORPORATION TO EL PASO PRODUCTION OIL & GAS COMPANY

API Well No.	Well Name	Well Status	Well Type	Location(T-R)	Section
43-013-30361-00-00	ALLRED 2-16A3	Active Well	Water Disposal	1S-3W	16
43-013-30370-00-00	UTE TRIBAL 1-25A3	Producing Well	Oil Well	1S-3W	25
43-013-30362-00-00	BIRCH 2-35A5	Active Well	Water Disposal	1S-5W	35
43-013-30337-00-00	G HANSON 2-4B3 SWD	Active Well	Water Disposal	2S-3W	4
43-013-30038-00-00	LAKE FORK 2-23B4	Active Well	Water Disposal	2S-4W	23
43-013-30371-00-00	LINDSAY RUSSELL 2-32B4	Active Well	Water Disposal	2S-4W	32
43-013-30121-00-00	TEW 1-9B5	Active Well	Water Disposal	2S-5W	9
43-013-30391-00-00	EHRICH 2-11B5	Active Well	Water Disposal	2S-5W	11
43-013-30340-00-00	LDS CHURCH 2-27B5	Active Well	Water Disposal	2S-5W	27
43-013-30289-00-00	RHOADES MOON 1-36B5	Shut_In	Oil Well	2S-5W	36
43-013-30056-00-00	UTE 1-14C6	Active Well	Water Disposal	3S-6W	14
43-047-33597-00-00	NBU SWD 2-16	Spudded (Drilling commenced: Not yet completed)	Water Disposal	10S-21E	16
43-047-32344-00-00	NBU 205	Shut_In	Gas Well	10S-22E	9
43-047-15880-00-00	SOUTHMAN CANYON U 3	Active Well	Water Disposal	10S-23E	15
43-047-31822-00-00	UTE 26-1		Water Disposal	4S-1E	26
43-047-32784-00-00	STIRRUP STATE 32-6	Active Well	Water Injection	6S-21E	32
43-047-30359-00-00	NBU 21-20B	Active Well	Water Disposal	9S-20E	20
43-047-33449-00-00	OURAY SWD 1	Approved permit (APD); not yet spudded	Water Disposal	9S-21E	1
43-047-31996-00-00	NBU 159	Active Well	Water Disposal	9S-21E	35

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 JUN 19 2001
 DIVISION OF
 OIL, GAS AND MINING

State of Delaware
Office of the Secretary of State

PAGE 1

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "COASTAL OIL & GAS CORPORATION", CHANGING ITS NAME FROM "COASTAL OIL & GAS CORPORATION" TO "EL PASO PRODUCTION OIL & GAS COMPANY", FILED IN THIS OFFICE ON THE NINTH DAY OF MARCH, A.D. 2001, AT 11 O'CLOCK A.M.

RECEIVED

JUN 19 2001

DIVISION OF
OIL, GAS AND MINING



0610204 8100

010162788

Harriet Smith Windsor
Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 1061007

DATE: 04-03-01

**CERTIFICATE OF AMENDMENT
OF
CERTIFICATE OF INCORPORATION**

COASTAL OIL & GAS CORPORATION (the "Company"), a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware, DOES HEREBY CERTIFY:

FIRST: That the Board of Directors of the Company, by the unanimous written consent of its members, filed with the minutes of the Board, adopted a resolution proposing and declaring advisable the following amendment to the Certificate of Incorporation of the Company:

RESOLVED that it is deemed advisable that the Certificate of Incorporation of this Company be amended, and that said Certificate of Incorporation be so amended, by changing the Article thereof numbered "FIRST." so that, as amended, said Article shall be and read as follows:

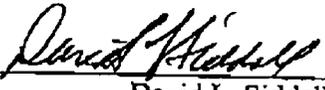
"FIRST. The name of the corporation is El Paso Production Oil & Gas Company."

SECOND: That in lieu of a meeting and vote of stockholders, the stockholders entitled to vote have given unanimous written consent to said amendment in accordance with the provisions of Section 228 of the General Corporation Law of the State of Delaware.

THIRD: That the aforesaid amendment was duly adopted in accordance with the applicable provisions of Sections 242 and 228 of the General Corporation Law of the State of Delaware.

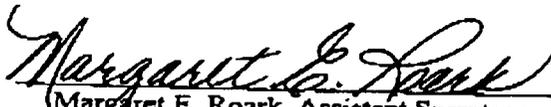
IN WITNESS WHEREOF, said COASTAL OIL & GAS CORPORATION has caused this certificate to be signed on its behalf by a Vice President and attested by an Assistant Secretary, this 9th day of March 2001.

COASTAL OIL & GAS CORPORATION



David L. Siddall
Vice President

Attest:



Margaret E. Roark, Assistant Secretary

RECEIVED

STATE OF DELAWARE
SECRETARY OF STATE
DIVISION OF CORPORATIONS
FILED 11:00 AM 03/09/2001
010118394 - 0610204

JUN 19 2001

DIVISION OF
OIL, GAS AND MINING

State of Delaware
Office of the Secretary of State PAGE 1

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THAT THE SAID "COASTAL OIL & GAS CORPORATION", FILED A CERTIFICATE OF AMENDMENT, CHANGING ITS NAME TO "EL PASO PRODUCTION OIL & GAS COMPANY", THE NINTH DAY OF MARCH, A.D. 2001, AT 11 O'CLOCK A.M.

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JUN 19 2001

DIVISION OF
OIL, GAS AND MINING



Harriet Smith Windsor
Harriet Smith Windsor, Secretary of State

0610204 8320

AUTHENTICATION: 1103213

010202983

DATE: 04-27-01

EL PASO PRODUCTION OIL & GAS COMPANY

CERTIFICATE OF INCUMBENCY

I, Margaret E. Roark, do hereby certify that I am a duly elected, qualified and acting Assistant Secretary of EL PASO PRODUCTION OIL & GAS COMPANY, a Delaware corporation (the "Company"), and that, as such, have the custody of the corporate records and seal of said Company; and

I do hereby further certify that the persons listed on the attached Exhibit A have been elected, qualified and are now acting in the capacities indicated, as of the date of this Certificate.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of El Paso Production Oil & Gas Company this 18th day of April 2001.


Margaret E. Roark, Assistant Secretary

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JUN 19 2001

DIVISION OF
OIL, GAS AND MINING

wellfile

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

UIC FORM 3

MONTHLY INJECTION REPORT

Operator: ELPASO PRODUCTION

Report Period: August 2005

Address: P.O. BOX 120
ALTAMONT
UTAH, 84001

Phone Number: (435) 454-3394

Amended Report: () (highlight changes)

Well Name and Number:	BIRCH 2-35A5			API Number:	43-013-30362
Location of Well	Maximum Allowable Inj Pressure: 768			Field/Unit Name	Altamont/Bluebell
Footage: 3,604' to 4,474'	County: Duchesne			Lease Designation and Number	UT2652-05557
QQ	Section: 35	Township: 1S	Range: 5W	State: UTAH	

Date	Volume Disposed	Hours in Service	Maximum Pressure	Average Operating Pressure	Tubing/Casing Annulus Pressure
1	0	0	0	0	0
2	0	0	0	0	0
3	0	0	0	0	0
4	0	0	0	0	0
5	0	0	0	0	0
6	0	0	0	0	0
7	0	0	0	0	0
8	0	0	0	0	0
9	0	0	0	0	0
10	0	0	0	0	0
11	0	0	0	0	0
12	0	0	0	0	0
13	0	0	0	0	0
14	0	0	0	0	0
15	0	0	0	0	0
16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0
19	0	0	0	0	0
20	0	0	0	0	0
21	0	0	0	0	0
22	0	0	0	0	0
23	0	0	0	0	0
24	0	0	0	0	0
25	0	0	0	0	0
26	0	0	0	0	0
27	0	0	0	0	0
28	0	0	0	0	0
29	0	0	0	0	0
30	0	0	0	0	0
31	0	0	0	0	0

Total Volume Injected for Month 0 All Time Cumulative Volume Injected _____

I hereby certify that this report is true and complete to the best of my knowledge.

Name (Please Print) Brad Jensen

Title Production Supervisor

Signature 

Date 9/8/2005

(5/2000)

Carol - please change to shut-in injection per inspectors - Dan Jarvis
Thanks
Earlene 9/19/05

RECEIVED
SEP 12 2005

DIV. OF OIL, GAS & MINING

INJECTION WELL - PRESSURE TEST

Well Name: <u>Birch 2-35 WDW</u>	API Number: <u>43013 30362</u>
Qtr/Qtr: <u>NE NE</u>	Section: <u>35</u> Township: <u>1S</u> Range: <u>5W</u>
Company Name: <u>El Paso Production</u>	
Lease: State _____ Fee _____	Federal _____ Indian _____
Inspector: <u>Richard Powell</u>	Date: <u>9/15/05</u>

Initial Conditions:

Tubing - Rate: ~~_____~~ 0 Pressure: 225 psi

Casing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
11:00 0	<u>1080</u>	<u>225</u>
5	<u>1080</u>	<u>225</u>
10	<u>1080</u>	<u>225</u>
15	<u>1080</u>	<u>225</u>
20	<u>1080</u>	<u>225</u>
25	<u>1080</u>	<u>225</u>
30	<u>1080</u>	<u>225</u>

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 225 psi

Casing/Tubing Annulus Pressure: 0 psi

COMMENTS: _____

Laura J. Wall
Operator Representative

RECEIVED

SEP 20 2005

DIVISION OF OIL GAS & MINING

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

Change of Operator (Well Sold)

X Operator Name Change

The operator of the well(s) listed below has changed, effective: <u>7/1/2006</u>	
FROM: (Old Operator): N1845-El Paso Production O&G Company 1001 Louisiana Street Houston, TX 77002 Phone: 1 (713) 420-2300	TO: (New Operator): N3065-El Paso E&P Company, LP 1001 Louisiana Street Houston, TX 77002 Phone: 1 (713) 420-2131
CA No.	Unit:

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: 7/5/2006
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 7/5/2006
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 3/30/2006
- Is the new operator registered in the State of Utah: YES Business Number: 2114377-0181
- If **NO**, the operator was contacted on: _____
- (R649-9-2) Waste Management Plan has been received on: _____ requested 7/18/06
- Inspections of LA PA state/fee well sites complete on: ok
- Reports current for Production/Disposition & Sundries on: _____
- 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 not yet
- 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")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 7/14/2006

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 7/19/2006
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 7/19/2006
- Bond information entered in RBDMS on: 7/19/2006
- Fee/State wells attached to bond in RBDMS on: 7/19/2006
- Injection Projects to new operator in RBDMS on: 7/19/2006
- Receipt of Acceptance of Drilling Procedures for APD/New on: 7/5/2006

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: 103601420
- Indian well(s) covered by Bond Number: 103601473
- (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 400JU0708
- The **FORMER** operator has requested a release of liability from their bond on: n/a applicable wells moved
 The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 7/20/2006

COMMENTS:

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

		5. LEASE DESIGNATION AND SERIAL NUMBER: MULTIPLE LEASES
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		8. WELL NAME and NUMBER: SEE ATTACHED
2. NAME OF OPERATOR: EL PASO PRODUCTION OIL AND GAS COMPANY <i>N1845</i>		9. API NUMBER:
3. ADDRESS OF OPERATOR: 1339 EL SEGUNDO AVE NE ALBUQUERQUE NM 87113		PHONE NUMBER: (505) 344-9380
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED		10. FIELD AND POOL, OR WILDCAT: SEE ATTACHED
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		COUNTY: UINTAH & DUCHESNE
		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____ <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: CHANGE OF OPERATOR
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

PLEASE BE ADVISED THAT EL PASO PRODUCTION OIL AND GAS COMPANY (CURRENT OPERATOR) HAS TRANSFERRED ITS OPERATORSHIP TO EL PASO E&P COMPANY, L.P. (NEW OPERATOR) EFFECTIVE ~~JUNE 30~~ *July 1*, 2006 AND THAT EL PASO E&P COMPANY, L.P. IS CONSIDERED TO BE THE NEW OPERATOR OF THE ATTACHED WELL LOCATIONS.

EL PASO E&P COMPANY, L.P. IS RESPONSIBLE UNDER THE TERMS AND CONDITIONS OF THE LEASE(S) FOR THE OPERATIONS CONDUCTED UPON LEASED LANDS. BOND COVERAGE IS PROVIDED BY THE STATE OF UTAH STATEWIDE BLANKET BOND NO. 400JU0705, BUREAU OF LAND MANAGEMENT NATIONWIDE BOND NO. 103601420, AND BUREAU OF INDIAN AFFAIRS NATIONWIDE BOND NO. 103601473.

El Paso E & P Company, L. P. *N3065*
1001 Louisiana
Houston, TX 77002

William M. Griffin
William M. Griffin, Sr. Vice President

NAME (PLEASE PRINT) CHERYL CAMERON	TITLE AUTHORIZED REGULATORY AGENT
SIGNATURE <i>Cheryl Cameron</i>	DATE 6/20/2006

(This space for State use only)
APPROVED *7/19/06*
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician (See Instructions on Reverse Side)

RECEIVED
JUL 05 2006
DIV. OF OIL, GAS & MINING

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

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number BIRCH 2-35A5	API Number 4301330362
Location of Well Footage : 852' FNL, 1196' FEL County : DUCHESNE QQ, Section, Township, Range: NENE 35 1S 5W State : UTAH	Field or Unit Name ALTAMONT/BLUEBELL Lease Designation and Number FEE

EFFECTIVE DATE OF TRANSFER: 6/30/2006

CURRENT OPERATOR

Company: EL PASO PRODUCTION OIL AND GAS CO
Address: 1339 EL SEGUNDO AVE NE
city ALBUQUERQUE state NM zip 87113
Phone: (505) 344-9380
Comments:

Name: CHERYL CAMERON
Signature: *Cheryl Cameron*
Title: REGULATORY ANALYST
Date: 6/6/2006

NEW OPERATOR

Company: EL PASO E&P COMPANY, L.P.
Address: 1339 EL SEGUNDO AVE NE
city ALBUQUERQUE state NM zip 87113
Phone: (505) 344-9380
Comments:

Name: CHERYL CAMERON
Signature: *Cheryl Cameron*
Title: REGULATORY ANALYST
Date: 6/6/2006

(This space for State use only)

Transfer approved by: *Dan Ferris*
Title: *Geologist*

Approval Date: 7/14/06

Comments:

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:

6/1/2012

FROM: (Old Operator):
 N3065- El Paso E&P Company, L.P.
 1001 Louisiana Street
 Houston, TX. 77002

 Phone: 1 (713) 997-5038

TO: (New Operator):
 N3850- EP Energy E&P Company, L.P.
 1001 Louisiana Street
 Houston, TX. 77002

 Phone: 1 (713) 997-5038

CA No.

Unit:

N/A

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: 6/25/2012
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/25/2012
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/27/2012
- Is the new operator registered in the State of Utah: _____ Business Number: 2114377-0181
- (R649-9-2)Waste Management Plan has been received on: Yes
- Inspections of LA PA state/fee well sites complete on: N/A
- Reports current for Production/Disposition & Sundries on: 6/25/2012
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM N/A BIA Not Received
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
- 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: 9/12/2012

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 9/24/2102
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 9/24/2012
- Bond information entered in RBDMS on: 9/24/2012
- Fee/State wells attached to bond in RBDMS on: 9/24/2012
- Injection Projects to new operator in RBDMS on: 9/24/2012
- Receipt of Acceptance of Drilling Procedures for APD/New on: N/A

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: 103601420
- Indian well(s) covered by Bond Number: 103601473
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 400JU0705
- The **FORMER** operator has requested a release of liability from their bond on: N/A

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: 9/24/2012

COMMENTS:

Well Name	Sec	TWP	RNG	API Number	Enity Number	Lease	Well Tyoe	Well Status
UTE 1-14C6	14	030S	060W	4301330056	12354	Indian	WD	A
UTE TRIBAL 1-A	18	030S	060W	4301315122	99990	Fee	WD	A
LAKE FORK 2-23B4	23	020S	040W	4301330038	1970	Fee	WD	A
TEW 1-9B5	09	020S	050W	4301330121	1675	Fee	WD	A
RHOADES MOON 1-36B5	36	020S	050W	4301330289	4765	Fee	WD	A
G HANSON 2-4B3 SWD	04	020S	030W	4301330337	99990	Fee	WD	A
LDS CHURCH 2-27B5	27	020S	050W	4301330340	99990	Fee	WD	A
LINDSAY RUSSELL 2-32B4	32	020S	040W	4301330371	99996	Fee	WD	A
EHRICH 2-11B5	11	020S	050W	4301330391	99990	Fee	WD	A
LAWSON 1-21A1	21	010S	010W	4301330738	935	Fee	WI	A
DAVIS 1-33A1E	33	010S	010E	4304730384	805	Fee	WD	A
ALLRED 2-16A3	16	010S	030W	4301330361	99996	Fee	WD	I
BIRCH 2-35A5	35	010S	050W	4301330362	99996	Fee	WD	I

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: Multiple Leases
2. NAME OF OPERATOR: El Paso E&P Company, L.P. Attn: Maria Gomez		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana CITY Houston STATE TX ZIP 77002 PHONE NUMBER: (713) 997-5038		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: See Attached COUNTY: QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH		8. WELL NAME and NUMBER: See Attached
		9. API NUMBER:
		10. FIELD AND POOL, OR WILDCAT: See Attached

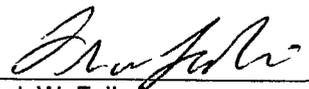
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

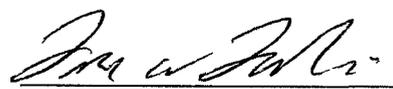
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Change of</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<u>Name/Operator</u>

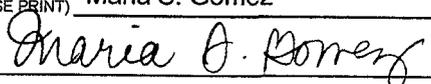
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please be advised that El Paso E&P Company, L.P. (current Operator) has changed names to EP Energy E&P Company, L.P. (new Operator) effective June 1, 2012 and that EP Energy E&P Company, L.P. is considered the new operator of the attached well locations.

EP Energy E&P Company, L.P. is responsible under the terms and conditions of the lease(s) for the operations conducted upon leased lands. Bond coverage is provided by the State of Utah Statewide Blanket Bond No. 400JU0705, Bureau of Land Management Nationwide Bond No. 103601420, and Bureau of Indian Affairs Nationwide Bond No. 103601473.


Frank W. Falleri
Vice President
El Paso E&P Company, L.P.


Frank W. Falleri
Sr. Vice President
EP Energy E&P Company, L.P.

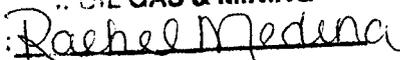
NAME (PLEASE PRINT) <u>Maria S. Gomez</u>	TITLE <u>Principal Regulatory Analyst</u>
SIGNATURE 	DATE <u>6/22/2012</u>

(This space for State use only)

APPROVED

SEP 24 2012

OIL GAS & MINING



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

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number Birch 2-35A5	API Number 4301330362
Location of Well Footage : 852' & 1196' FEL County : Duchesne QQ, Section, Township, Range: NENE 35 1S 5W State : UTAH	Field or Unit Name Altamont/Bluebell Lease Designation and Number Fee

EFFECTIVE DATE OF TRANSFER: 6/1/2012

CURRENT OPERATOR

Company: El Paso E&P Company, L.P. Name: Maria S. Gomez
Address: 1001 Louisiana Signature: *Maria S. Gomez*
city Houston state TX zip 77002 Title: Principal Regulatory Analyst
Phone: (713) 997-5038 Date: 9/11/2012
Comments:

NEW OPERATOR

Company: EP Energy E&P Company, L.P. Name: Maria S. Gomez
Address: 1001 Louisiana Signature: *Maria S. Gomez*
city Houston state TX zip 77002 Title: Principal Regulatory Analyst
Phone: (713) 997-5038 Date: 9/11/2012
Comments:

(This space for State use only)

Transfer approved by: *Paul J. Smith*
Title: *VIC Geologist*

Approval Date: *9/19/2012*

Comments:

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SEP 12 2012
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