Mobil Producing Texas & New Mexico Inc.

June 16, 1986

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

Case 8973

Oil Conservation Division (2)
Post Office Box 2088
Santa Fe, New Mexico 87501

7.01
WATER DISPOSAL WELL
MOBIL PRODUCING TX & NM, INC.
GOVERNMENT "D" LEASE
WELL NO. 4
FENTON, N.W. DELAWARE FIELD
EDDY COUNTY, NEW MEXICO

Gentlemen:

Mobil Producing TX & NM, Inc. (MPTM), respectfully requests authority to dispose of produced water into the Delaware formation in the subject well.

Conversion of this well to a water disposal well is necessary to economically dispose of lease and offlease water.

The supporting information for this application is organized in accordance with Form C-108.

If any further information is needed concerning this application, please call C.A. Moore at (915) 688-1772.

Yours very truly,

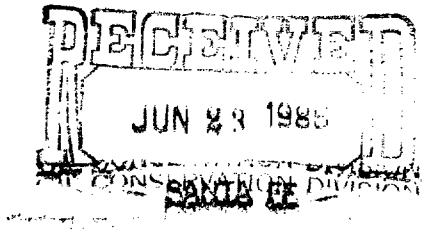
C. A. Moore

for G. E. Tate
Env. & Reg. Manager

CAMoore/dwc

Attachments

cc: Offset Operators & Surface Owner (w/attach)
New Mexico State Land Office
County Clerk, Carlsbad, New Mexico
District Director OCD - Artesia



A:M612970E.CAM

Set for hearing

They are expecting into the Northwest Fenton Delaware Pool There is extensive production in the

Informal Protest

7-2-56

Talk to me when you write the ord please, Dave C

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

Case 8973

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no

II. Operator: Mobil Producing Texas & New Mexico, Inc.

Address: P. O. Box 633, Midland, TX 79702

Contact party: G. E. Tate Phone: (915) 688-1772

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: G. E. Tate Title Env. & Reg. Mgr.

Signature: C.A. Moore for G.E. Tate Date: June 16, 1986

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;

(3) the formation name and depth with expected maximum injection rates and pressures; and

(4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Mobil Producing Texas & New Mexico Inc.

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

INDEX OF ATTACHMENTS
ORGANIZED IN ACCORDANCE WITH FORM C-108
PROPOSED WATER DISPOSAL WELL NO. 4
GOVERNMENT "D" LEASE
EDDY COUNTY, NEW MEXICO

III. Well Data

A. See well sketch also

1. Government "D" No. 4, Sec. 1, T-21-S, R-27-E

2. 20" csg @ 40' cemented with redimix to surface 26" hole

   13-3/8" csg @ 665' cmt w/700sx circulated 17-1/2" hole

   8-5/8" csg @ 2437' cmt w/2200sx circulated 11" hole

   5-1/2" csg @ 5712' cmt w/835sx TOC @ 2200 (calc) 7-7/8" hole

3. 2-7/8" N-80 steel tbg pvc lined 2.14" ID set @ 3800'

4. Baker AD-1 tension pkr 5-1/2" set @ 3800'

B.

1. Delaware; Fenton NW Field

2. 3849'- 56'; 3869'- 80'; 3898'- 3934'; 3964'- 4022'; perf 4 jspf

3. Well originally drilled as a Bone Spring producer

4. See sketch

5. Next higher zone - Delaware, oil 2800'- 3200'
   Next lower zone - Bone Spring, oil 5500'- 5650'

V. Map attached

VI. C-105's and 9-330's are attached

VII.

1. Avg. rate: 1000 BWPD, max rate: 2000 BWPD

2. Closed system

3. Avg. inj. pressure: 500#, max inj. press.: 770#

4. Sources include Delaware water and offlease Bone Spring water from the Burton Flat Lease. See attached letters and water analyses on compatibility.

5. Attached chemical analysis of disposal zone formation water

VIII. Attached geological data

IX. Proposed stimulation

1. Pump 3000 gals 10% NEFE HCL down 2-7/8" tbg.

2. Pump 500 lbs blocking agent (50% 100 mesh rock salt + 50% para formaldehyde)

3. Pump 3000 gals HCL

4. Pump 800 lbs blocking agent

5. Pump 3000 gals HCL

6. Pump 800 lbs blocking agent

7. Pump 2000 gals HCL

8. Pump 1100 gals 2% KCL wtr flush

X. Logs have been previously filed

XI. Attached chemical analysis of fresh water

XII. Attached affirmative statement

XIII. Attached proof of notice

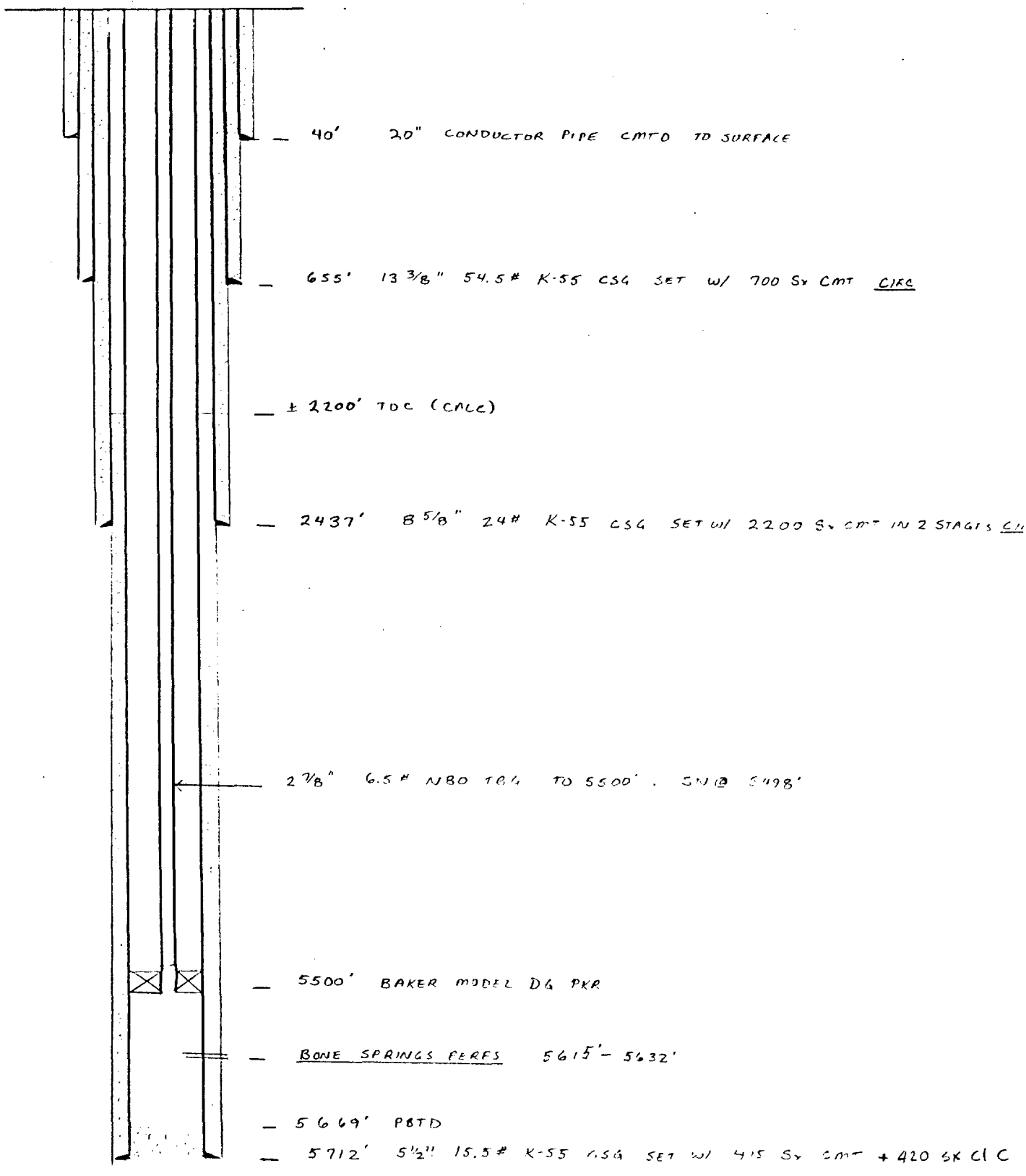
WELL NO. [illegible] FIELD EAST AVALON

LOCATION 1 T-21-S R-27-E
EDDY CO., N.M.

SIGNED M.E. VASICEK

G.L. 3196
D.F.
K.B. 3205
ZERO

Present



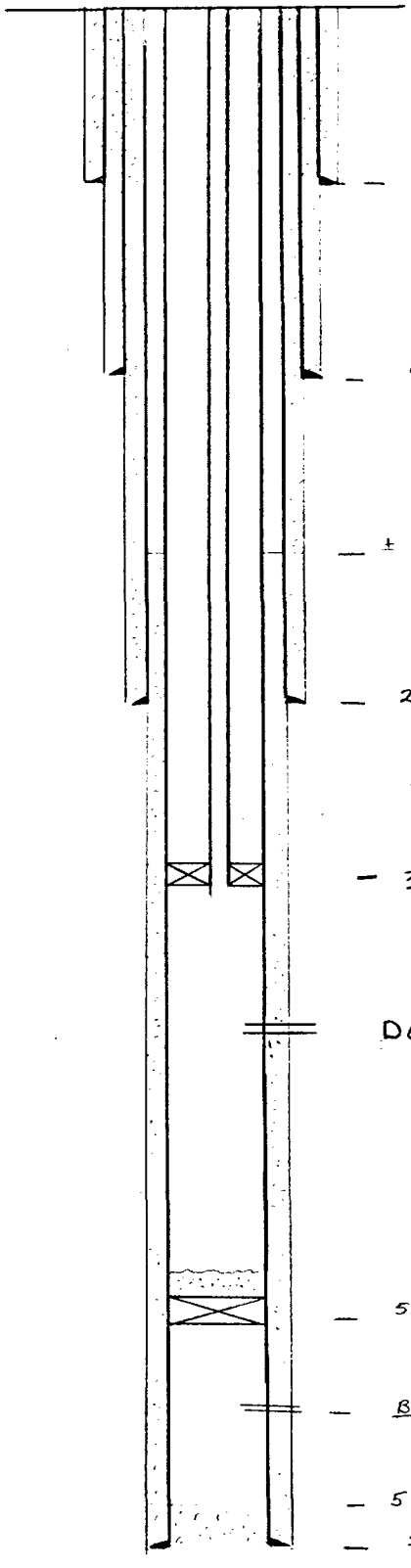
DATE 8-15-84 WELL NO. 4 LEASE GOVERNMENT D FIELD EAST AVALON

LOCATION 1 T-21-S R-27-E
EDDY CO., N.M.

SIGNED M. E. VASICEK

G.L. 3196
D.F.
K.B. 3205
ZERO

Proposed



— 40' 20" CONDUCTOR PIPE CMTD TO SURFACE

— 655' 13 3/8" 54.5# K-55 CSG SET W/ 700 Sx CMT CIRC

— ± 2200' TOC (CALC)

— 2437' 8 5/8" 24# K-55 CSG SET W/ 2200 Sx CMT IN 2 STAGES CIRC

— 3800' 5½" tension pkr & 2⅞" plastic lined pipe.

Delaware perfs: 3849'-3856', 3869'-3880', 3898'-3934', 3964'-4022'

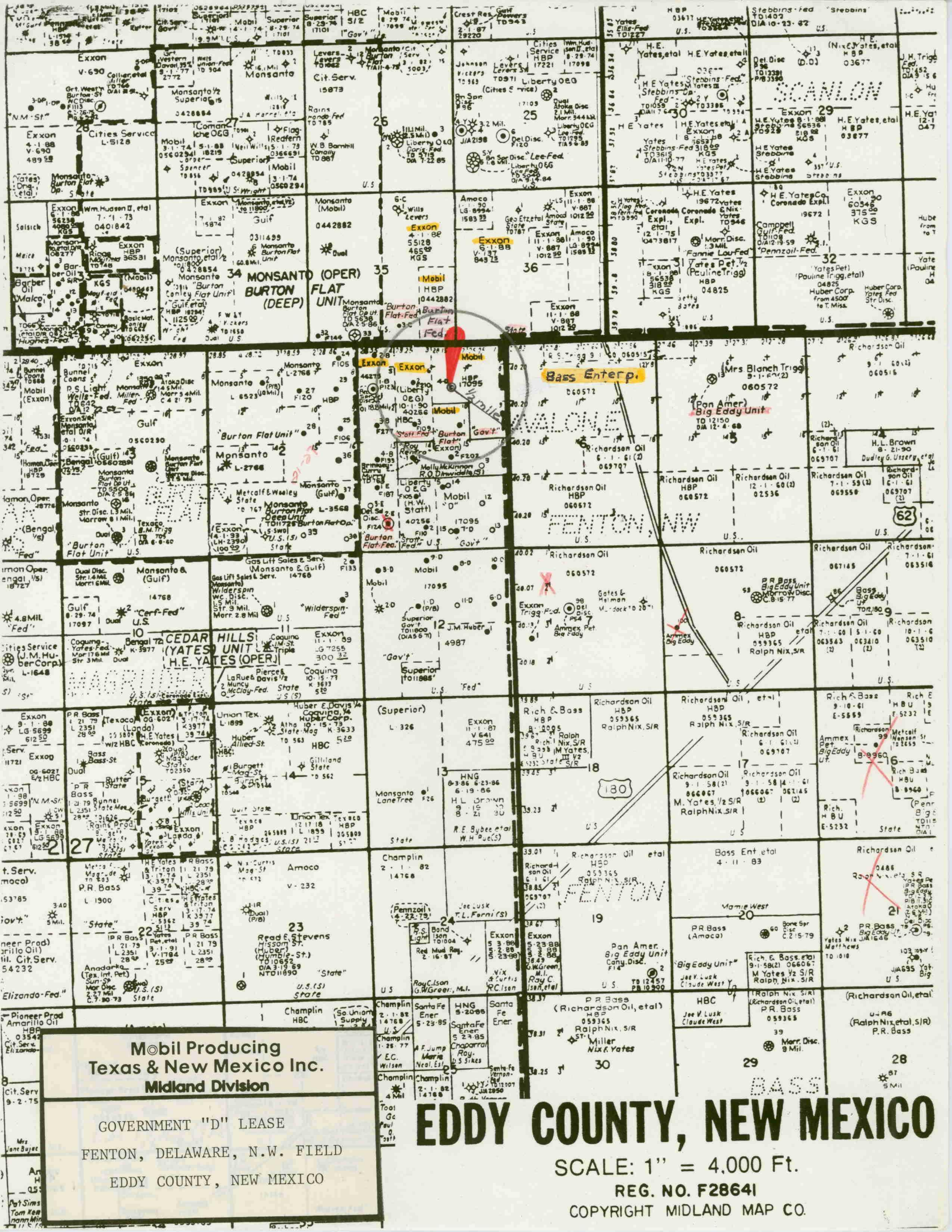
— 5590 CIBP capped w/ 35' cmt

— BONE SPRINGS PERFS 5615'-5632'

— 5669' PBTD

— 5712' 5½" 15.5# K-55 CSG SET W/ 415 Sx CMT Pacesetter Lite + 420 Sx cmt class C

5712 TD


MONSANTO (OPER) BURTON (DEEP)
BURTON FLAT UNIT
"Burton Flat Unit"
CEDAR HILLS (YATES) UNIT
H.E. YATES (OPER)
MALONE
FENTON
FENTON NW
SCANLON
BASS
Bass Enterp.
Pan Amer. Big Eddy Unit
Mobil Producing
Texas & New Mexico Inc.
Midland Division
GOVERNMENT "D" LEASE
FENTON, DELAWARE, N.W. FIELD
EDDY COUNTY, NEW MEXICO
EDDY COUNTY, NEW MEXICO
SCALE: 1" = 4,000 Ft.
REG. NO. F28641
COPYRIGHT MIDLAND MAP CO.

MOBIL PRODUCING TEXAS & NEW MEXICO, INC.
GOVERNMENT "D" LEASE
PROPOSED WATER DISPOSAL WELL
WELL NO. 4
T-21-S, R-27-E
EDDY COUNTY, NEW MEXICO

OPERATOR LEASE	WELL NO.	LOCATION	WELL TYPE	DATE DRILLED	DEPTH	COMPLETION INTERVAL
OPERATOR- MOBIL PRODUCING TX. & N.M., INC.						
Burton Flat	1	2950' FNL; 1700' FEL, Sec. 1 T-21-S, R-27-E	P	7-24-85	5722'	Bone Spring 5604-5622'
"	2	3300' FSL; 1980' FEL Sec. 1 T-21-S, R-27-E	P	11-29-84	5745'	Bone Spring 5552-5574'
OPERATOR- EXXON CORP.						
Stott Federal	2	1980' FWL; 1392' FNL Sec. 1 T-21-S, R-27-E	P	6-17-84	5670'	Bone Spring 5537-5560'
"	3	1980' FWL; 2912' FNL Sec. 1 T-21-S, R-27-E	P	7-13-84	5630'	Bone Spring 5488-5516'

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

Form C-105
Revised 10-1-78

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U.S.G.S.	✓	
LAND OFFICE		
~~OPERATOR~~ BLM	✓	

RECEIVED BY
OIL CONSERVATION DIVISION
OCT 16 1985
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501
O. C. D.
ARTESIA, OFFICE

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease: State ☐ Fee ☒

5. State Oil & Gas Lease No.

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER

7. Unit Agreement Name

8. Farm or Lease Name [redacted]

9. Well No. [redacted]

2. Name of Operator
The Superior Oil Company ✓ (Mobil Producing Tx. & N.M. Inc.

10. Field and Pool, or Wildcat
Avalon-Bone Spring, East

3. Address of Operator
Nine Greenway Plaza, Suite 2700, Houston, Texas 77046

4. Location of Well
UNIT LETTER J LOCATED 2950 FEET FROM THE N LINE AND 1700 FEET FROM THE E LINE OF SEC. 1 TWP. 21S RGE. 27E NMPM

12. County
Eddy

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
7-24-85	8-7-85	9-26-85	KB 3204 GL - 3190	3190

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
5722	5680		→	X	

24. Producing Interval(s), of this completion — Top, Bottom, Name
5604-5622 Bone Springs

25. Was Directional Survey Made
NO

26. Type Electric and Other Logs Run
CNL-LDT-GR-CAL, DLL-RXO-GR, Sonic

27. Was Well Cored
NO

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	54.5#	665	17½	650 x Clc (858 CF)	Circ
8 5/8	24#	2552	12¼	1500 x CLC (1980 CF)	Circ
5½	15.5#	5722	7 7/8	800 x lite (1448 CF)	Circ
				+ 450 x CLC (594 CF)	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 7/8	SN @ 5620	TAC @ 5557

31. Perforation Record (Interval, size and number)
perf w/4 JSPF 5604-5622 (73 holes)

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5604-5622	Spot 200 gal 15% Di NeFe HCL
	SWF w/4200 gal YF-4 + 10878 gal
	2% KCL w/YF-4 fluid w/4200 gal
	CO_2 w/24000# 20/40 Brady Sd.

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
9-26-85	1½ x 2 x 24 Pump	Producing

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio
10-1-85	24			10	125	6	12500

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
						43.5 @ 60

34. Disposition of Gas (Sold, used for fuel, vented, etc.)
Sold

Test Witnessed By
T. J. Auld

35. List of Attachments
C-104, Inclination Survey, Logs

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Nancy Lewis TITLE MOBIL PRODUCING TX & N.M. INC. AS AGENT FOR THE SUPERIOR OIL COMPANY DATE 10-11-85

Form C-105
Revised 10-1-78

NEW MEXICO ENERGY AND MINERALS DEPARTMENT

DISTRIBUTION		
SANTA FE	✓	
FILE	✓	✓
U.S.G.S.	✓✓	
LAND OFFICE		
OPERATOR	BJM ✓	

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RECEIVED
JAN 31 1985
O. C. D.
ARTESIA, OFFICE

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease: State [ ] Fee [X]
5b. State Oil & Gas Lease No.

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER
1b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] OTHER

7. Unit Agreement Name
8. Farm or Lease Name: [redacted]
9. Well No.: [redacted]
2. Name of Operator: Mobil Producing TX. & N.M. Inc.
10. Field and Pool, or Wildcat: E. Avalon - Bone Spring
3. Address of Operator: Nine Greenway Plaza, Suite 2700, Houston, Texas 77046
4. Location of Well: UNIT LETTER O LOCATED 3300 FEET FROM THE South LINE AND 1980 FEET FROM THE East LINE OF SEC. 1 TWP. 21S RGE. 27E NMPM
12. County: Eddy

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
11-29-84	12-27-84	1-23-85	3178' GR	

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
5745'	5700'		→	Yes	

24. Producing Interval(s), of this completion — Top, Bottom, Name
5552'-5574' Bone Spring

25. Was Directional Survey Made: No

26. Type Electric and Other Logs Run
LDT-GR-Caliper, DLL-MSFL-GR-Caliper, Sidewall Cores

27. Was Well Cored: No

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5	630'	17-1/2"	675 sx Class C Lite	None
8-5/8"	24	2539'	11"	1700 sx Class C	None
5-1/2"	15.5	5708'	7-7/8"	525 sx Class C Lite and 500 Class C Neat	None

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-7/8"	5578'	5406'

31. Perforation Record (Interval, size and number)
5552-5574' (45 holes w/3-1/8" gun)

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4 sq holes @ 5680	Press to 2000 PSI-No break down
5552-5574'	56 Bbls 7½% HCL w/additives.
	750 SCF/bbl nitrogen, 10,400
	gals gel, 5600 gals CO2, 24,000

33. PRODUCTION 20-40 sd, 8000# 12-20 sd, 100# silica flour

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
1-19-85	Flowing	SI

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio
1-26-85	24	21/64"		202	380	2	1881

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
320	0					44.0°

34. Disposition of Gas (Sold, used for fuel, vented, etc.)
SI - Negotiating for sales contracts.

Test Witnessed By: Jim Fletcher

35. List of Attachments
Logs and Inclination Survey

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED G. E. Tate G.E. Tate TITLE Regulatory Manager DATE 1-28-85

for Agent for The Superior Oil Company

AMD to correct test data

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

RECEIVED
AUG 01 1984
O. C. D.
ARTESIA, OFFICE

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: NM-40256

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: --

7. UNIT AGREEMENT NAME: --

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other ~~ARTESIA, OFFICE~~

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

8. FARM OR LEASE NAME: [redacted]

9. WELL NO.: [redacted]

2. NAME OF OPERATOR: Exxon Corporation

3. ADDRESS OF OPERATOR: P. O. Box 1600, Midland, TX 79702

10. FIELD AND POOL, OR WILDCAT: Undesig. - Bone Spring
Extension

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1980' FWL & 1392.3' FNL of Sec. 1 (SE/NW)
At top prod. interval reported below
At total depth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 1-21S-27E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
	4-13-84	Eddy	New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
6-17-84	7-10-84	7-21-84	3197' GR	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5670'			→	0-5670'	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5537 - 5560' Bone Spring

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: FDC-CNL; DLL-MSFL; Sidewall Cores

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
13-3/8"	48#	575'	17-1/2"	600 sx C1C	
8-5/8"	24#	2495'	11"	2000 sx Pacesetter Lite; 700 sx C1C Neat	400 sx C1C
5-1/2"	14, 15.5#	5661'	7-7/8"	1215 sx C1C	

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"	5300'	5300'

31. PERFORATION RECORD (*Interval, size and number*): Perf 5537 - 5560 w/ 96 shots

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5537 - 5560	2500 gals 15% HCl
	20,000 gals YFCO_2, 28,700#
	20-40 mesh sand

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
7-19-84	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7-25-84	24	20/64"		210	235	4	1117

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
215						45

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

TEST WITNESSED BY:

35. LIST OF ATTACHMENTS

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

SIGNED [signature] TITLE Unit Head DATE 7-30-84

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

Form 9-330
(Rev. 5-63)

Prospect
Artesia, NM 88210

C/S1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

RECEIVED BY
SEP 24 1984
O. C. D.
ARTESIA, OFFICE

5. LEASE DESIGNATION AND SERIAL NO.: NM-40256

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: --

7. UNIT AGREEMENT NAME: --

8. FARM OR LEASE NAME: [redacted]

9. WELL NO.: [redacted]

10. FIELD AND POOL, OR WILDCAT: E. Nuvall ~~Undesig.~~ - Bone Spring

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 1 - 21S - 27E

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

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

2. NAME OF OPERATOR: Exxon Corporation

3. ADDRESS OF OPERATOR: P. O. Box 1600, Midland, TX 79702

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1980' FWL and 2912.3' FNL of Sec. 1 (NE/SW)
At top prod. interval reported below
At total depth

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
	4-13-84	Eddy	New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
7-13-84	8-17-84	8-29-84	KB-3196; GL-3184	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5630			→	0 - 5630	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5488 - 5516 Bone Spring

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: MLL-DLL-GR; FDC-CNL; SWC

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
13-3/8"	68#	604'	17-1/2"	300 sx PSL, 300 sx C1C	
8-5/8"	24#	2594'	11"	3000 sx PSL, 2700 sx C1C	
5-1/2"	14, 15.5#	5625'	7-7/8"	1170 sx TLW, 250 sx C1C	

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"	5400	5400

31. PERFORATION RECORD (*Interval, size and number*)
5488 - 5516' w/ 88 shots

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5488 - 5516	2500 gals. 15% NeHCl
	20,000 gals. YFCO_2 frac fl.,
	33,000# 20-40 sand

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
8-29-84	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9-1-84	24	12/64"		109	287	0	2630

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
640						42.6

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

TEST WITNESSED BY

ACCEPTED FOR RECORD
SEP 21 1984

35. LIST OF ATTACHMENTS

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

SIGNED _____ TITLE Unit Head DATE 9-19-84

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

VII. 4. It is our intention to dispose of 3300 BWPD from the Delaware zone, which is produced from the Government D Lease. Offlease water from our Burton Flat Lease will also be disposed off in the amount of only 20 BWPD of Bone Spring water.

In an attempt to comply with your request for a water analysis of this offlease water, we sent a water sample to Core Laboratoratories, Inc. They were unable to get a very sucessful analysis due to the turbid condition of the Bone Spring water. It is however, safe to say that the Bone Springs water in uncompatible with the Delaware water because of the scaling tendency when the two are mixed. We have every intention, however, of treating this water with chemicals to prevent scaling and ask that you take into consideration the very small amount of Bone Spring water being disposed of, amounting to only 1% of total water injected.

Attached are also analyses of the Government D Lease water and our neighboring Federal E-#1 well which produces Bone Spring water. Perhaps this Bone Spring water analysis will serve to tell you what you need to know.

2001 COMMERCE DRIVE, BOX 4337, MIDLAND, TEXAS 79704 · 915/694-7761

CORE LABORATORIES, INC.
SPECIAL SERVICES

May 27, 1986

Jack Hamner
Mobil Producing Texas & New Mexico
P. O. Box 633
Midland, Texas 79702

Reference File Number: C86090

Dear Mr. Hamner,

Enclosed you will find the compatibility study on the Delaware and Bone Springs waters. Please note that only one concentration was completed. This is due to the turbidities causing the spectrophotometer to read out of range. The Bone Springs water is very turbid with a high iron content. When mixed with the Delaware, iron sulfide precipitates out. Both waters have a tendency to scale and the Delaware has corrosive characteristics which will complicate their compatibility.

The turbidity calculated values are much lower than the actual values. Time appears to worsen this situation. In conclusion, the two waters are incompatible.

We trust this information is useful and appreciate the opportunity to have been of service.

Sincerely yours,
CORE LABORATORIES, INC.

Donna Bartlett
Group Leader

DB:lt

CORE LABORATORIES, Inc.
2001 COMMERCE DRIVE
MIDLAND, TEXAS
(915) 694-7761

Company: Mobil Producing TX & NM
File No: C86090

Date Received: 5-21-86
Date Reported: 5-26-86
Report To: Jack Hamner

Compatibility

Mixtures	Turbidities					
	10 min.		1 hr.		24 hrs.	
	Actual	Calc	Actual	Calc	Actual	Calc
75 Delaware 25 Bone Springs	156.5	118.4	160.9	113.2	175.7	105.5

CORE LABORATORIES, Inc.

2001 COMMERCE DRIVE
POST OFFICE BOX 4337
MIDLAND, TEXAS 79704
(915) 694-7761

API WATER ANALYSIS REPORT FORM

Company	Sample No.	Date Sampled
Mobil Producing Texas & New Mexico	86E32	

Field	Legal Description	County or Parish	State

Lease or Unit	Well	Depth	Formation	Water, B / D
Government "D"			Delaware	

Type of Water (Produced, Supply, etc.)	Sampling Point	Sampled By
	Battery #3	

DISSOLVED SOLIDS

CATIONS	*mg/l*	*me/l*
Sodium, Na (calc.)	49,350	2,146.7
Calcium, Ca	4,430	221.1
Magnesium, Mg	1,270	104.4
Barium, Ba		

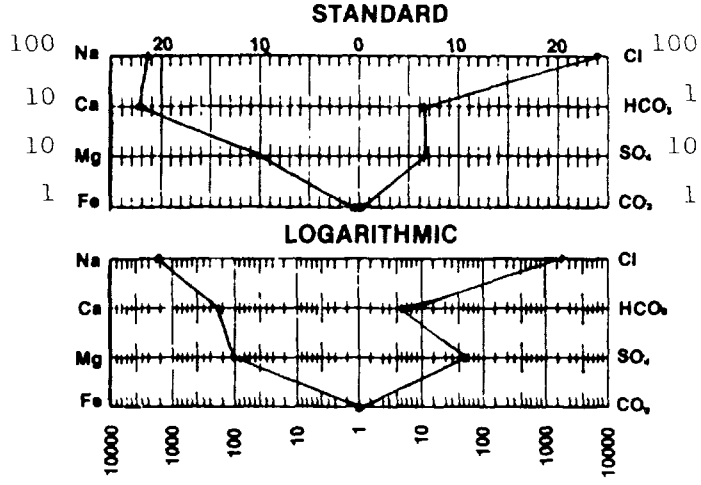
ANIONS		
Chloride, Cl	85,140	2,400.9
Sulfate, SO_4	3,130	65.2
Carbonate, CO_3	0	0.0
Bicarbonate, HCO_3	371	6.1

Total Dissolved Solids (calc.)	143,690
Iron, Fe (total)	2.3
Sulfide, as H_2S	17

OTHER PROPERTIES

pH	8.75
Specific Gravity, 60/60 F.	1.1012
Resistivity (ohm-meters) 77 °F.	0.054
Total Hardness, $CaCO_3$	17,600
Total Alkalinity, $CaCO_3$	304
Supersaturation, $CaCO_3$	

WATER PATTERNS—*me/l*



REMARKS & RECOMMENDATIONS:

File No: C86090

SCALING TENDENCY: (STIFF-DAVIS, CALCULATED)

Calcium Carbonate @ 77 °F = -6.34, indicating Corrosion

Calcium Sulfate Solubility @ 80 °F = 62.3me/1, indicating scaling

Copies — Jack Hamner

Received 5-21-86
Reported 5-26-86

CORE LABORATORIES, Inc.

2001 COMMERCE DRIVE
POST OFFICE BOX 4337
MIDLAND, TEXAS 79704
(915) 684-7781

API WATER ANALYSIS REPORT FORM

Company	Sample No.	Date Sampled
Mobil Producing Texas & New Mexico	86E33	

Field	Legal Description	County or Parish	State

Lease or Unit	Well	Depth	Formation	Water, B / D
Federal	E-1		Bone Springs	

Type of Water (Produced, Supply, etc.)	Sampling Point	Sampled By

DISSOLVED SOLIDS

CATIONS	*mg/l*	*me/l*
Sodium, Na (calc.)	33,130	1,441.2
Calcium, Ca	5,060	252.5
Magnesium, Mg	762	62.7
Barium, Ba		

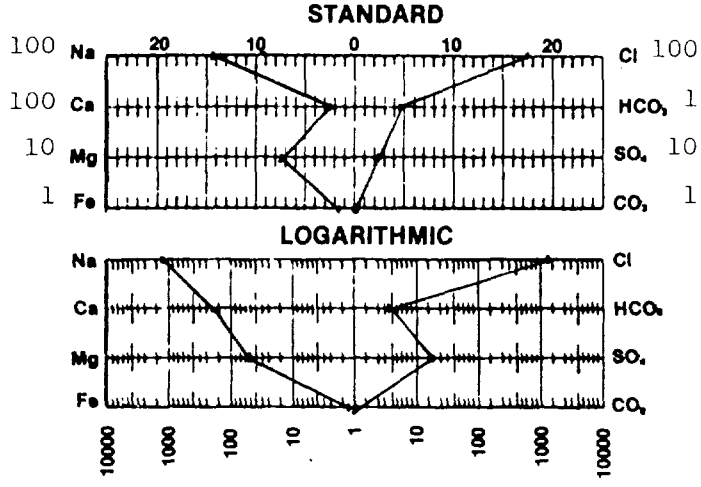
ANIONS		
Chloride, Cl	61,370	1,730.6
Sulfate, SO_4	1,010	21.0
Carbonate, CO_3	0	0.0
Bicarbonate, HCO_3	293	4.8

Total Dissolved Solids (calc.)	101,630
Iron, Fe (total)	45
Sulfide, as H_2S	0

OTHER PROPERTIES

pH	6.95
Specific Gravity, 60/60 F.	1.0673
Resistivity (ohm-meters) 77 °F.	0.074
Total Hardness, $CaCO_3$	17,040
Total Alkalinity, $CaCO_3$	240
Supersaturation, $CaCO_3$	

WATER PATTERNS—*me/l*



REMARKS & RECOMMENDATIONS:

File No: C86090

SCALING TENDENCY: (STIFF-DAVIS, CALCULATED)
Calcium Carbonate @ 77°F = .332 , indicating scaling
Calcium Sulfate Solubility @ 80 °F = 40.2 me/1, indicating non-scaling

Copies — Jack Hamner

Received 5-21-86
Reported 5-26-86

CORE LABORATORIES, Inc.

2001 COMMERCE DRIVE
POST OFFICE BOX 4337
MIDLAND, TEXAS 79704
(915) 684-7781

API WATER ANALYSIS REPORT FORM

Company		Sample No.	Date Sampled
Mobil Producing Texas and New Mexico		85L20	12-21-85
Field	**Legal Description**	**County or Parish**	**State**
		Lea	N. Mexico
Lease or Unit	**Well** / **Depth**	**Formation**	**Water, B / D**
Gov't D	3	Delaware	
Type of Water (Produced, Supply, etc.)	**Sampling Point**		**Sampled By**

DISSOLVED SOLIDS

CATIONS	*mg/l*	*me/l*
Sodium, Na (calc.)	47,420	2,062.9
Calcium, Ca	4,580	228.5
Magnesium, Mg	1,250	102.8
Barium, Ba		

ANIONS		
Chloride, Cl	82,710	2,332.4
Sulfate, SO_4	2,530	52.7
Carbonate, CO_3	0	0.0
Bicarbonate, HCO_3	556	9.1

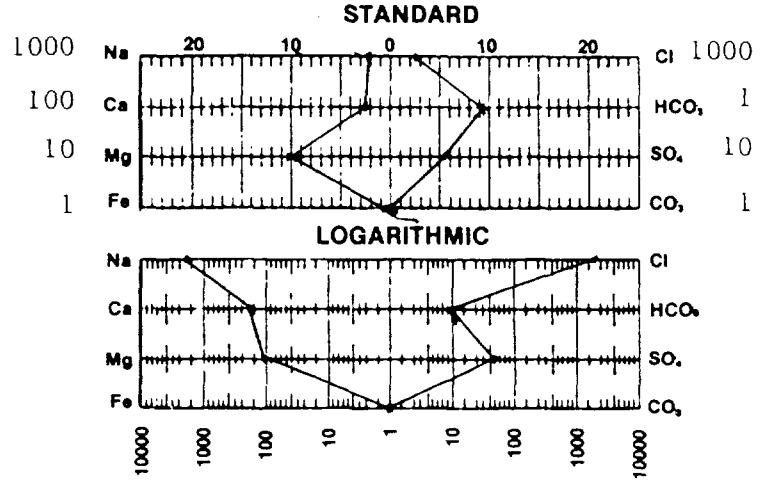
Total Dissolved Solids (calc.) 139,050

Iron, Fe (total)	23
Sulfide, as H_2S	150

OTHER PROPERTIES

pH	7.65
Specific Gravity, 60/60 F.	1.1054
Resistivity (ohm-meters) 77 °F.	0.055
Total Hardness, $CaCO_3$	17,940
Total Alkalinity, $CaCO_3$	456
Supersaturation, $CaCO_3$	

WATER PATTERNS—*me/l*



REMARKS & RECOMMENDATIONS:

SCALING TENDENCY: (STIFF-DAVIS, CALCULATED)
Calcium Carbonate @ °F = , indicating
Calcium Sulfate Solubility @ °F = me/1, indicating

Copies — Jack Hamner

Received 12-25-85
Reported 12-30-85

VIII. The injection zone is in the Guadalupian age Delaware sands. The sands are light gray, very fine grained, subangular to subround, moderate to well sorted with thin argillareous laminations. The degree of induration varies from friable sands to consolidated, calcareous-cemented sandstone. Four separate injection zones in the Delaware sands are included in the plan: 3840'-3856', 3869'-3880', 3898'-3934' and 3964'-4022'.

The Rustler formation is the primary source of drinking water for this area. The base of the fresh water is $\pm$ 400 ft. A second underground aquifer which contains low salinity water in this area, is the Capitan Reef. The base of the low salinity water in this unit is $\pm$ 2450 ft. No fresh water aquifer underlies the injection zone.

UNICHEM INTERNATIONAL

707 NORTH LEECH P.O.BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : MOBIL PRODUCING TX & NM
DATE : 04/18/86
FIELD,LEASE&WELL : AVALON BONE SPRINGS
SAMPLING POINT: SPEARS FRESH WATER WELL BURTON FLAT LEASE
DATE SAMPLED : 04/15/86

SPECIFIC GRAVITY = 1.001
TOTAL DISSOLVED SOLIDS = 3844
PH = 7.52

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	26.4	529.
MAGNESIUM	(MG)+2	14.4	175.
SODIUM	(NA),CALC.	18.7	430.
ANIONS			
BICARBONATE	(HCO3)-1	1.8	109.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	43.7	2100
CHLORIDES	(CL)-1	14	500
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		.4
BARIUM	(BA)+2	U	0
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) =.102

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	.508
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	4.56
CALCIUM SULFATE SCALING	LIKELY

RECEIVED
APR
G. E.

XII. MPTM has examined the available geological and engineering data and finds no evidence of open faults or any other hydrological connection between the Delaware zone and any underground source of drinking water.

Mobil Producing Texas & New Mexico Inc.

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

MOBIL PRODUCING TX & NM, INC.
GOVERNMENT "D" LEASE
WELL NO. 4
EDDY COUNTY, NEW MEXICO

This application was sent to the Surface Owner of the land on which these wells are located and to each lease operator within one-half mile radius of the well location.

OFFSET OPERATORS

Exxon Company, U.S.A.
Box 2180
Houston, Texas 77001

Bass Enterprises Production Co.
Box 2760
Midland, Texas 79701

SURFACE OWNER

United States Department of the Interior
Bureau of Land Management
Carlsbad Resource Area
Post Office Box 1778
Carlsbad, New Mexico 88220

A:M612970A.CAM

Mobil Producing Texas & New Mexico Inc.

P.O. BOX 633
MIDLAND, TEXAS 79702

May 12, 1986

CERTIFIED MAIL
RETURT RECEIPT REQUESTED

United States Department of the Interior
Bureau of Land Management
Carlsbad Resource Area
P.O. Box 1778
Carlsbad, New Mexico 88220

7.01
NOTICE OF APPLICATION FOR
WATER DISPOSAL WELL
MOBIL PRODUCING TX & NM, INC.
GOVERNMENT "D" LEASE
WELL NO. 4
DELAWARE, NW FENTON FIELD
EDDY COUNTY, NEW MEXICO

Gentlemen:

Mobil Producing TX & NM, Inc. (MPTM), has made application to the Oil Conservation Division of New Mexico for authority to dispose of produced water into a reservoir not productive of oil or gas in the above captioned well.

A copy of this application is furnished to you for your information.

Yours very truly,

C.A. Moore

for G. E. Tate
Env. & Reg. Manager

CAMoore/dwc

Attachments

cc: Oil Conservation Division (w/attach)

A:M612970B.CAM

PS Form 3811, July 1983 447-845

DOMESTIC RETURN RECEIPT

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☐ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
United States Dept. of Interior
Bureau of Land Management
Carlsbad Resource Area
BOX 1778
Carlsbad, N.M. 88220

4. Type of Service:
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail

Article Number
P547 380 787

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X Rhonda Melendez

6. Signature – Agent
X

7. Date of Delivery
5-14-86

8. Addressee's Address (ONLY if requested and fee paid)

Mobil Producing Texas & New Mexico Inc.

P.O. BOX 633
MIDLAND, TEXAS 79702

May 12, 1986

CERTIFIED MAIL
RETURT RECEIPT REQUESTED

Bass Enterprises Production Co.
Box 2760
Midland, Texas 79701

7.01
NOTICE OF APPLICATION FOR
WATER DISPOSAL WELL
MOBIL PRODUCING TX & NM, INC.
GOVERNMENT "D" LEASE
WELL NO. 4
DELAWARE, NW FENTON FIELD
EDDY COUNTY, NEW MEXICO

Gentlemen:

Mobil Producing TX & NM, Inc. (MPTM), has made application to the Oil Conservation Division of New Mexico for authority to dispose of produced water into a reservoir not productive of oil or gas in the above captioned wells.

A copy of this application is furnished to you for your information.

Yours very truly,

C. A. Moore

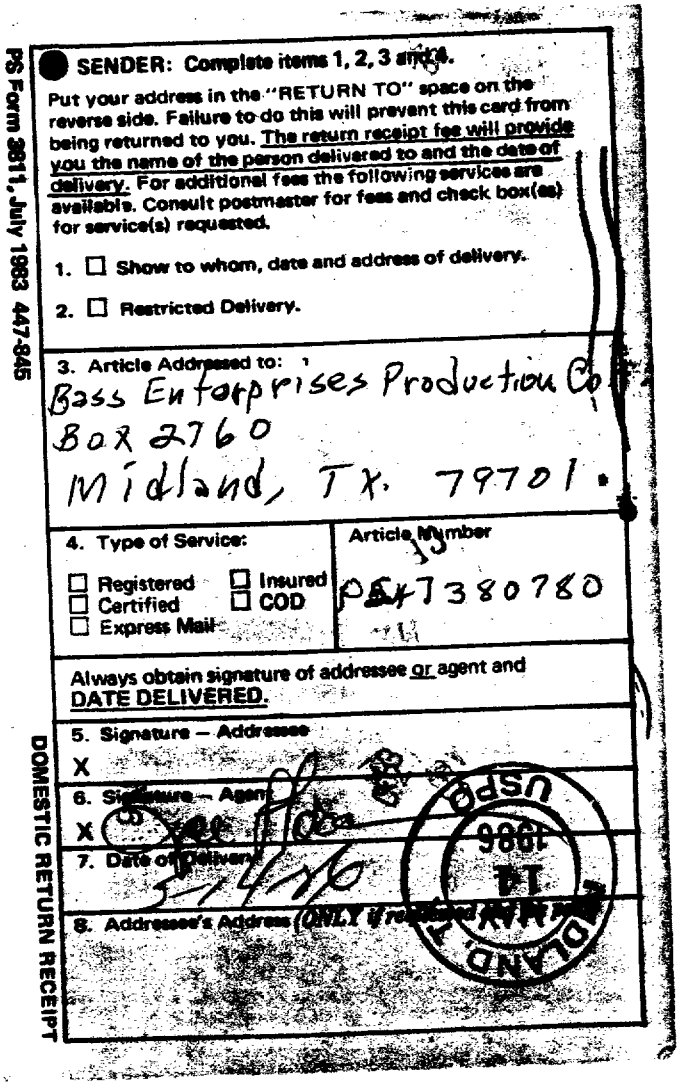
for G. E. Tate
Env. & Reg. Manager

CAMoore/dwc

Attachments

cc: Oil Conservation Division (w/attach)

A:M612970B.CAM



PS Form 3811, July 1983 447-845

DOMESTIC RETURN RECEIPT

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☐ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Bass Enterprises Production Co
Box 2760
Midland, TX. 79701

4. Type of Service:
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail

Article Number
P 547 380 780

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X

7. Date of Delivery
5-14-86

8. Addressee's Address (ONLY if requested and fee paid)

USPO 1986 MIDLAND, TX

Mobil Producing Texas & New Mexico Inc.

P O BOX 633
MIDLAND, TEXAS 79702

May 12, 1986

CERTIFIED MAIL
RETURT RECEIPT REQUESTED

Exxon company U.S.A.
Box 2180
Houston, Texas 77001

7.01
NOTICE OF APPLICATION FOR
WATER DISPOSAL WELL
MOBIL PRODUCING TX & NM, INC.
GOVERNMENT "D" LEASE
WELL NO. 4
DELAWARE, NW FENTON FIELD
EDDY COUNTY, NEW MEXICO

Gentlemen:

Mobil Producing TX & NM, Inc. (MPTM), has made application to the Oil Conservation Division of New Mexico for authority to dispose of produced water into a reservoir not productive of oil or gas in the above captioned well.

A copy of this application is furnished to you for your information.

Yours very truly,

C. A. Moore

for G. E. Tate
Env. & Reg. Manager

CAMoore/dwc

Attachments

cc: Oil Conservation Division (w/attach)

A:M612970B.CAM

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☐ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:

Exxon Company, U.S.A.
P. O. Box 2180
Houston, TX 77001

4. Type of Service:

☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail

Article Number

M2
P 547 380 779

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee

X

6. Signature – Agent

X J. Hartley

7. Date of Delivery

MAY 15 1986

8. Addressee's Address *(ONLY if requested and fee paid)*

DOMESTIC RETURN RECEIPT

Mobil Producing Texas & New Mexico Inc.

May 12, 1986

P.O. BOX 633
MIDLAND, TEXAS 79702

Carlsbad Current Argus
Post Office Box 1629
Carlsbad, New Mexico 88220

7.01
NOTICE OF APPLICATION FOR
WATER DISPOSAL WELL
MOBIL PRODUCING TX & NM, INC.
GOVERNMENT "D" LEASE
WELL NO. 4
FENTON, N. W. DELAWARE FIELD
EDDY COUNTY, NEW MEXICO

Gentlemen:

Mobil Producing TX & NM, Inc., is making application to the Oil Conservation Division of New Mexico for authority to inject produced water into a reservoir not productive of oil or gas through the subject well.

The Oil Conservation Division requires that a public notice of the attached information be published in the county in which the wells are located. Please publish the attached notice as soon as possible and return the completed affidavit and copy of the printed notice in the enclosed stamped envelope. Send the invoice to the attention of Mr. G. E. Tate.

Yours very truly,

C. A. Moore

for G. E. Tate
Env. & Reg. Manager

CAMoore/dwc

Attachments

cc: Oil Conservation Division -
District 2 (w/attach)

bcc: Regulatory Files

A:M612970F.CAM

Mobil Producing Texas & New Mexico Inc.

May 12, 1986

P.O. BOX 633
MIDLAND, TEXAS 79702

County Clerk
Ruth A. King
Post Office Box 850
Carlsbad, New Mexico 88221

7.01
NOTICE OF APPLICATION FOR
WATER DISPOSAL WELL
MOBIL PRODUCING TX & NM, INC.
GOVERNMENT "D" LEASE
WELL NO. 4
FENTON, N.W. DELAWARE FIELD
EDDY COUNTY, NEW MEXICO

Dear Ms. King:

Mobil Producing TX & NM, Inc. (MPTM), has made application to the Oil Conservation Division of New Mexico for authority to inject produced water into a reservoir not productive of oil or gas in the above captioned well.

The Oil Conservation Division requires that the enclosed application be sent to you for public information notice in the county in which the well is located. Please post the attached application as you desire. It is not necessary to record this information.

Yours very truly,

C. A. Moore

for G. E. Tate
Env. & Reg. Manager

CAMoore/dwc

Attachments

cc: Oil Conservation Division
District 2 (w/attach)

A:M612970G.CAM

APPLICATION FOR AUTHORIZATION TO INJECT

1. Mobil Producing Tx. & N. M. Inc, P.O. Box 633, Midland, Texas 79702

   Attention: Ann Moore, (915) 688-1772

   will apply for permission to inject produced water

   into the following well/wells for the purpose of: Disposal

2. Well Name and Number: Government "D" #4

   Location: 1554' FNL; 1980' FEL

   Section: 1 ,T-21-S ,R- 27-E

   County: Eddy

3. Formation Name: Delaware

   Injection Interval: 3849' to 4022'

   Maximun Injection Rate: 2000 BWPD

   Maximum Pressure: 770 PSI

4. Interested parties, who can show that they are adversely affected by this application, must file objections or requests for hearing with the Energy and Minerals Department, Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days after this publication.

Mobil Producing Texas & New Mexico Inc.

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

June 16, 1986

Oil Conservation Division (2)
Post Office Box 2088
Santa Fe, New Mexico 87501

7.01
WATER DISPOSAL WELL
MOBIL PRODUCING TX & NM, INC.
GOVERNMENT "D" LEASE
WELL NO. 4
FENTON, N.W. DELAWARE FIELD
EDDY COUNTY, NEW MEXICO

Gentlemen:

Mobil Producing TX & NM, Inc. (MPTM), respectfully requests authority to dispose of produced water into the Delaware formation in the subject well.

Conversion of this well to a water disposal well is necessary to economically dispose of lease and offlease water.

The supporting information for this application is organized in accordance with Form C-108.

If any further information is needed concerning this application, please call C.A. Moore at (915) 688-1772.

Yours very truly,

C.A. Moore

for G. E. Tate
Env. & Reg. Manager

CAMoore/dwc

Attachments

cc: Offset Operators & Surface Owner (w/attach)
New Mexico State Land Office
County Clerk, Carlsbad, New Mexico
District Director OCD - Artesia

A:M612970E.CAM

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no

II. Operator: Mobil Producing Texas & New Mexico, Inc.

Address: P. O. Box 633, Midland, TX 79702

Contact party: G. E. Tate Phone: (915) 688-1772

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: G. E. Tate Title Env. & Reg. Mgr.

Signature: C.A. Moore for G.E. Tate Date: June 16, 1986

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;

(3) the formation name and depth with expected maximum injection rates and pressures; and

(4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Mobil Producing Texas & New Mexico Inc.

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

INDEX OF ATTACHMENTS
ORGANIZED IN ACCORDANCE WITH FORM C-108
PROPOSED WATER DISPOSAL WELL NO. 4
GOVERNMENT "D" LEASE
EDDY COUNTY, NEW MEXICO

III. Well Data

A. See well sketch also

1. Government "D" No. 4, Sec. 1, T-21-S, R-27-E

2. 20" csg @ 40' cemented with redimix to surface 26" hole

   13-3/8" csg @ 665' cmt w/700sx circulated 17-1/2" hole

   8-5/8" csg @ 2437' cmt w/2200sx circulated 11" hole

   5-1/2" csg @ 5712' cmt w/835sx TOC @ 2200 (calc) 7-7/8" hole

3. 2-7/8" N-80 steel tbg pvc lined 2.14" ID set @ 3800'

4. Baker AD-1 tension pkr 5-1/2" set @ 3800'

B.

1. Delaware; Fenton NW Field

2. 3849'- 56'; 3869'- 80'; 3898'- 3934'; 3964'- 4022'; perf 4 jspf

3. Well originally drilled as a Bone Spring producer

4. See sketch

5. Next higher zone - Delaware, oil 2800'- 3200'
   Next lower zone - Bone Spring, oil 5500'- 5650'

V. Map attached

VI. C-105's and 9-330's are attached

VII.

1. Avg. rate: 1000 BWPD, max rate: 2000 BWPD

2. Closed system

A:M612970D.CAM

3. Avg. inj. pressure: 500#, max inj. press.: 770#

4. Sources include Delaware water and offlease Bone Spring water from the Burton Flat Lease. See attached letters and water analyses on compatibility.

5. Attached chemical analysis of disposal zone formation water

VIII. Attached geological data

IX. Proposed stimulation

1. Pump 3000 gals 10% NEFE HCL down 2-7/8" tbg.

2. Pump 500 lbs blocking agent (50% 100 mesh rock salt + 50% para formaldehyde)

3. Pump 3000 gals HCL

4. Pump 800 lbs blocking agent

5. Pump 3000 gals HCL

6. Pump 800 lbs blocking agent

7. Pump 2000 gals HCL

8. Pump 1100 gals 2% KCL wtr flush

X. Logs have been previously filed

XI. Attached chemical analysis of fresh water

XII. Attached affirmative statement

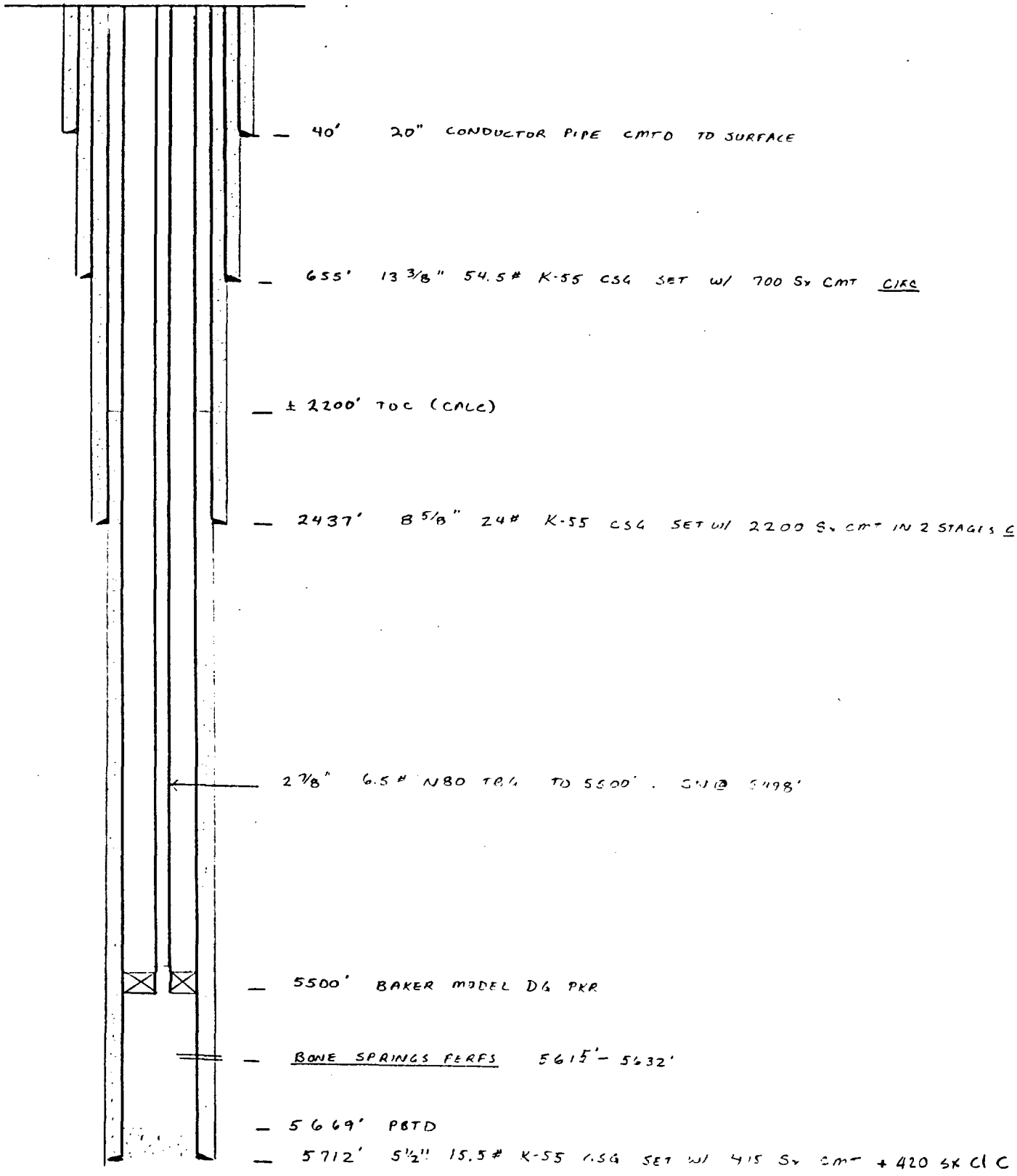
XIII. Attached proof of notice

LOCATION 1 T-21-S R-27-E
EDDY CO., N.M.

SIGNED M.E. VASICEK

G.L. 3196
D.F.
K.B. 3205
ZERO

Present



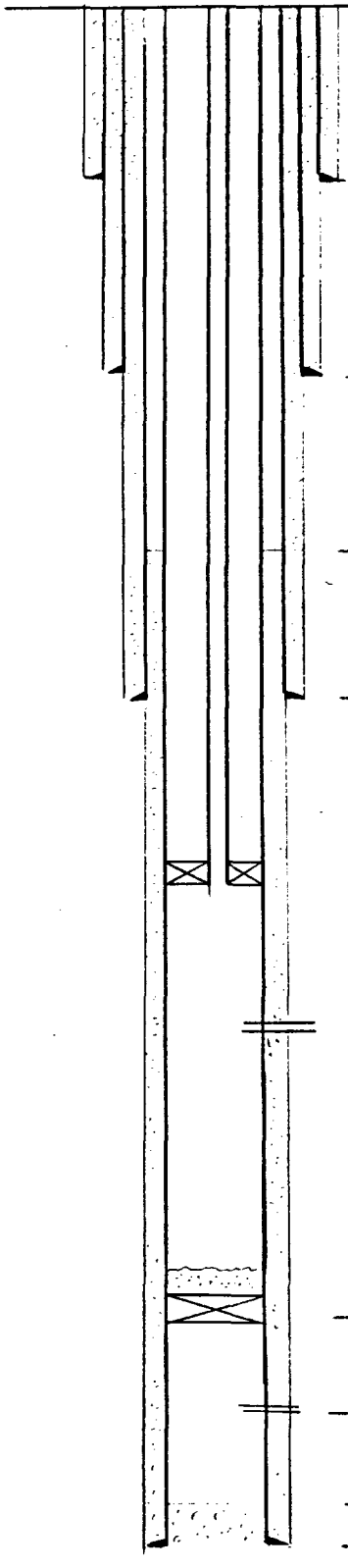
DATE 8-15-84 WELL NO. 4 LEASE GOVERNMENT D FIELD EAST AVALON

LOCATION 1 T-21-S R-27-E
EDDY CO., N.M.

SIGNED M.E. VASICEK

G.L. 3196
D.F.
K.B. 3205
ZERO

Proposed



— 40' 20" CONDUCTOR PIPE CMTD TO SURFACE

— 655' 13 3/8" 54.5# K-55 CSG SET W/ 700 Sx CMT CIRC

— ± 2200' TOC (CALC)

— 2437' 8 5/8" 24# K-55 CSG SET W/ 2200 Sx CMT IN 2 STAGES CIRC

— 3800' 5½" tension pkr & 2⅞" plastic lined pipe.

Delaware perfs: 3849'-3856', 3869'-3880', 3898'-3934', 3964'-4022'

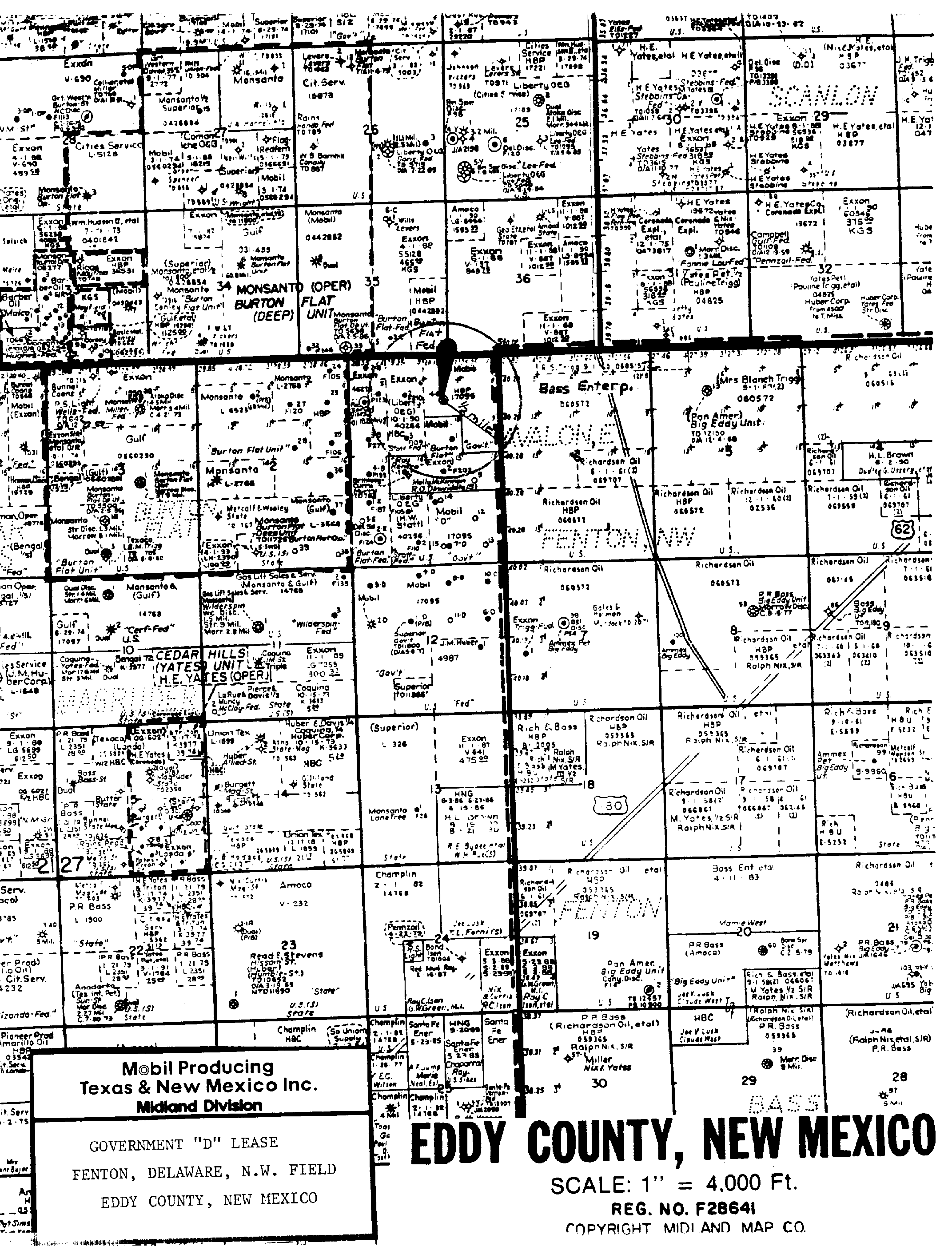
— 5590 CIBP capped w/ 35' cmt

— BONE SPRINGS PERFS 5615'-5632'

— 5669' PBTD

— 5712' 5½" 15.5# K-55 CSG SET W/ 415 Sx CMT Pacesetter Lite
420 Sx cmt class C

5712 TD


Mobil Producing
Texas & New Mexico Inc.
Midland Division
GOVERNMENT "D" LEASE
FENTON, DELAWARE, N.W. FIELD
EDDY COUNTY, NEW MEXICO
EDDY COUNTY, NEW MEXICO
SCALE: 1" = 4,000 Ft.
REG. NO. F28641
COPYRIGHT MIDLAND MAP CO.
MONSANTO (OPER)
BURTON FLAT
(DEEP) UNIT
CEDAR HILLS
(YATES) UNIT
H.E. YATES (OPER)
Bass Enterp.
FENTON NW
FENTON
SCANLON
MALONE

MOBIL PRODUCING TEXAS & NEW MEXICO, INC.
GOVERNMENT "D" LEASE
PROPOSED WATER DISPOSAL WELL
WELL NO. 4
T-21-S, R-27-E
EDDY COUNTY, NEW MEXICO

OPERATOR LEASE	WELL NO.	LOCATION	WELL TYPE	DATE DRILLED	DEPTH	COMPLETION INTERVAL
OPERATOR- MOBIL PRODUCING TX. & N.M., INC.						
Burton Flat	1	2950' FNL; 1700' FEL, Sec. 1 T-21-S, R-27-E	P	7-24-85	5722'	Bone Spring 5604-5622'
"	2	3300' FSL; 1980' FEL Sec. 1 T-21-S, R-27-E	P	11-29-84	5745'	Bone Spring 5552-5574'
OPERATOR- EXXON CORP.						
Stott Federal	2	1980' FWL; 1392' FNL Sec. 1 T-21-S, R-27-E	P	6-17-84	5670'	Bone Spring 5537-5560'
"	3	1980' FWL; 2912' FNL Sec. 1 T-21-S, R-27-E	P	7-13-84	5630'	Bone Spring 5488-5516'

Form C-105
Revised 10-1-78

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

RECEIVED BY
OIL CONSERVATION DIVISION
OCT 16 1985
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~~OPERATOR~~	✓	

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease: State ☐ Fee ☒
5. State Oil & Gas Lease No.

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER

7. Unit Agreement Name
8. Farm or Lease Name: Burton Flat
9. Well No.: 1
2. Name of Operator: The Superior Oil Company ✓ (Mobil Producing Tx. + N.M. Inc.)
10. Field and Pool, or Wildcat: Avalon-Bone Spring, East
3. Address of Operator: Nine Greenway Plaza, Suite 2700, Houston, Texas 77046
4. Location of Well: UNIT LETTER J LOCATED 2950 FEET FROM THE N LINE AND 1700 FEET FROM THE E LINE OF SEC. 1 TWP. 21S RGE. 27E NMPM
12. County: Eddy

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
7-24-85	8-7-85	9-26-85	KB 3204 GL - 3190	3190

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
5722	5680		→	X	

24. Producing Interval(s), of this completion — Top, Bottom, Name: 5604-5622 Bone Springs
25. Was Directional Survey Made: NO
26. Type Electric and Other Logs Run: CNL-LDT-GR-CAL, DLL-RXO-GR, Sonic
27. Was Well Cored: NO

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	54.5#	665	17½	650 x Clc (858 CF)	Circ
~~8 5/8~~	~~24#~~	2552	12¼	1500 x CLC (1980 CF)	Circ
~~5½~~	~~15.5#~~	5722	7 7/8	800 x lite (1448 CF)	Circ
				+ 450 x CLC (594 CF)	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 7/8	SN @ 5620	TAC @ 5557

31. Perforation Record (Interval, size and number)
perf w/4 JSPF 5604-5622 (73 holes)

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5604-5622	Spot 200 gal 15% Di NeFe HCL
	SWF w/4200 gal YF-4 + 10878 gal
	2% KCL w/YF-4 fluid w/4200 gal
	CO_2 w/24000# 20/40 Brady Sd.

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
9-26-85	1½ x 2 x 24 Pump	Producing

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio
10-1-85	24			10	125	6	12500

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
						43.5 @ 60

34. Disposition of Gas (Sold, used for fuel, vented, etc.): Sold
Test Witnessed By: T. J. Auld

35. List of Attachments: C-104, Inclination Survey, Logs

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

Nancy Young

MOBIL PRODUCING TX & N.M. INC.
AS AGENT FOR THE SUPERIOR OIL COMPANY

10-11-85

NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

Form C-105
Revised 10-1-78

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OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO

RECEIVED BY
JAN 30 1985
ARTESIA, OFFICE

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease: State [ ] Fee [X]

5b. State Oil & Gas Lease No.

7. Unit Agreement Name

8. Farm or Lease Name: Burton Flat

9. Well No.: 2

10. Field and Pool, or Wildcat: E. Avalon - Bone Spring

12. County: Eddy

1a. Type of Well: OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER

1b. Type of Completion: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] OTHER

2. Name of Operator: Mobil Producing TX. & N.M. Inc.

3. Address of Operator: Nine Greenway Plaza, Suite 2700, Houston, Texas 77046

4. Location of Well: UNIT LETTER O LOCATED 3300 FEET FROM THE South LINE AND 1980 FEET FROM THE East LINE OF SEC. 1 TWP. 21S RGE. 27E NMPM

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
11-29-84	12-27-84	1-23-85	3178' GR	

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
5745'	5700'		→	Yes	

24. Producing Interval(s), of this completion — Top, Bottom, Name: 5552'-5574' Bone Spring

25. Was Directional Survey Made: No

26. Type Electric and Other Logs Run: LDT-GR-Caliper, DLL-MSFL-GR-Caliper, Sidewall Cores

27. Was Well Cored: No

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5	630'	17-1/2"	675 sx Class C Lite	None
8-5/8"	24	2539'	11"	1700 sx Class C	None
5-1/2"	15.5	5708'	7-7/8"	525 sx Class C Lite and 500 Class C Neat	None

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-7/8"	5578'	5406'

31. Perforation Record (Interval, size and number): 5552-5574' (45 holes w/3-1/8" gun)

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4 sq holes @ 5680	Press to 2000 PSI-No break dow
5552-5574'	56 Bbls 7½% HCL w/additives.
	750 SCF/bbl nitrogen, 10,400
	gals gel, 5600 gals CO2, 24,00

33. PRODUCTION: 20-40 sd, 8000# 12-20 sd, 100# silica flour

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
1-19-85	Flowing	SI

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio
1-26-85	24	21/64"		202	380	2	1881

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
320	0					44.0°

34. Disposition of Gas (Sold, used for fuel, vented, etc.): SI - Negotiating for sales contracts.

Test Witnessed By: Jim Fletcher

35. List of Attachments: Logs and Inclination Survey

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED G. E. Tate G.E. Tate TITLE Regulatory Manager DATE 1-28-85

AMD to correct test data

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

RECEIVED
AUG 01 1984
O. C. D.
ARTESIA, OFFICE

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

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

5. LEASE DESIGNATION AND SERIAL NO.: NM-40256

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: --

7. UNIT AGREEMENT NAME: --

8. FARM OR LEASE NAME: Stott Federal

9. WELL NO.: 2

2. NAME OF OPERATOR: Exxon Corporation

3. ADDRESS OF OPERATOR: P. O. Box 1600, Midland, TX 79702

10. FIELD AND POOL, OR WILDCAT: Undesig. - Bone Spring
Extended

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1980' FWL & 1392.3' FNL of Sec. 1 (SE/NW)
At top prod. interval reported below
At total depth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 1-21S-27E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
	4-13-84	Eddy	New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
6-17-84	7-10-84	7-21-84	3197' GR	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5670'			→	0-5670'	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5537 - 5560' Bone Spring

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: FDC-CNL; DLL-MSFL; Sidewall Cores

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
13-3/8"	48#	575'	17-1/2"	600 sx C1C	
8-5/8"	24#	2495'	11"	2000 sx Pacesetter Lite; 700 sx C1C Neat	400 sx C1C
5-1/2"	14, 15.5#	5661'	7-7/8"	1215 sx C1C	

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"	5300'	5300'

31. PERFORATION RECORD (*Interval, size and number*): Perf 5537 - 5560 w/ 96 shots

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5537 - 5560	2500 gals 15% HCl 20,000 gals YFCO_2, 28,700# 20-40 mesh sand

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
7-19-84	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7-25-84	24	20/64"		210	235	4	1117

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
215						45

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

TEST WITNESSED BY:

35. LIST OF ATTACHMENTS

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

SIGNED [signature] TITLE Unit Head DATE 7-30-84

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

Form 9-330
(Rev. 5-63)

Artesia, NM 88210

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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

RECEIVED BY
SEP 24 1984
O. C. D.
ARTESIA, OFFICE

5. LEASE DESIGNATION AND SERIAL NO.: NM-40256

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: --

7. UNIT AGREEMENT NAME: --

8. FARM OR LEASE NAME: State Federal

9. WELL NO.: 3

10. FIELD AND POOL, OR WILDCAT: E. Livingston ~~Undesig~~ - Bone Spring

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 1 - 21S - 27E

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESV. [ ] Other

2. NAME OF OPERATOR: Exxon Corporation

3 ADDRESS OF OPERATOR: P. O. Box 1600, Midland, TX 79702

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1980' FWL and 2912.3' FNL of Sec. 1 (NE/SW)
At top prod. interval reported below
At total depth

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
	4-13-84	Eddy	New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
7-13-84	8-17-84	8-29-84	KB-3196; GL-3184	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5630			→	0 - 5630	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5488 - 5516 Bone Spring

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: MLL-DLL-GR; FDC-CNL; SWC

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
13-3/8"	68#	604'	17-1/2"	300 sx PSL, 300 sx C1C	
8-5/8"	24#	2594'	11"	3000 sx PSL, 2700 sx C1C	
5-1/2"	14, 15.5#	5625'	7-7/8"	1170 sx TLW, 250 sx C1C	

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"	5400	5400

31. PERFORATION RECORD (*Interval, size and number*): 5488 - 5516' w/ 88 shots

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5488 - 5516	2500 gals. 15% NeHCl
	20,000 gals. YFCO_2 frac fl.,
	33,000# 20-40 sand

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
8-29-84	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9-1-84	24	12/64"		109	287	0	2630

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
640						42.6

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

TEST WITNESSED BY

ACCEPTED FOR RECORD
SEP 21 1984

35 LIST OF ATTACHMENTS

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

SIGNED _____ TITLE Unit Head DATE 9-19-84

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

VII. 4. It is our intention to dispose of 3300 BWPD from the Delaware zone, which is produced from the Government D Lease. Offlease water from our Burton Flat Lease will also be disposed off in the amount of only 20 BWPD of Bone Spring water.

In an attempt to comply with your request for a water analysis of this offlease water, we sent a water sample to Core Laboratoratories, Inc. They were unable to get a very sucessful analysis due to the turbid condition of the Bone Spring water. It is however, safe to say that the Bone Springs water in uncompatible with the Delaware water because of the scaling tendency when the two are mixed. We have every intention, however, of treating this water with chemicals to prevent scaling and ask that you take into consideration the very small amount of Bone Spring water being disposed of, amounting to only 1% of total water injected.

Attached are also analyses of the Government D Lease water and our neighboring Federal E-#1 well which produces Bone Spring water. Perhaps this Bone Spring water analysis will serve to tell you what you need to know.

2001 COMMERCE DRIVE. BOX 4337. MIDLAND, TEXAS 79704 915 694 7761

CORE LABORATORIES, INC.
SPECIAL SERVICES

May 27, 1986

Jack Hamner
Mobil Producing Texas & New Mexico
P. O. Box 633
Midland, Texas 79702

Reference File Number: C86090

Dear Mr. Hamner,

Enclosed you will find the compatibility study on the Delaware and Bone Springs waters. Please note that only one concentration was completed. This is due to the turbidities causing the spectrophotometer to read out of range. The Bone Springs water is very turbid with a high iron content. When mixed with the Delaware, iron sulfide precipitates out. Both waters have a tendency to scale and the Delaware has corrosive characteristics which will complicate their compatibility.

The turbidity calculated values are much lower than the actual values. Time appears to worsen this situation. In conclusion, the two waters are incompatible.

We trust this information is useful and appreciate the opportunity to have been of service.

Sincerely yours,
CORE LABORATORIES, INC.

Donna Bartlett
Group Leader

DB:lt

CORE LABORATORIES, Inc.
2001 COMMERCE DRIVE
MIDLAND, TEXAS
(915) 694-7761

Company: Mobil Producing TX & NM
File No: C86090

Date Received: 5-21-86
Date Reported: 5-26-86
Report To: Jack Hamner

Compatibility

Mixtures	Turbidities					
	10 min.		1 hr.		24 hrs.	
	Actual	Calc	Actual	Calc	Actual	Calc
75 Delaware 25 Bone Springs	156.5	118.4	160.9	113.2	175.7	105.5

CORE LABORATORIES, Inc.

2001 COMMERCE DRIVE
POST OFFICE BOX 4337
MIDLAND, TEXAS 79704
(915) 684-7781

API WATER ANALYSIS REPORT FORM

Company		Sample No.	Date Sampled
Mobil Producing Texas & New Mexico		86E32	
Field	**Legal Description**	**County or Parish**	**State**
Lease or Unit	**Well**	**Depth**	**Formation**	**Water, B / D**
Government "D"			Delaware	
Type of Water (Produced, Supply, etc.)	**Sampling Point**		**Sampled By**
	Battery #3		

DISSOLVED SOLIDS

CATIONS	*mg/l*	*me/l*
Sodium, Na (calc.)	49,350	2,146.7
Calcium, Ca	4,430	221.1
Magnesium, Mg	1,270	104.4
Barium, Ba		

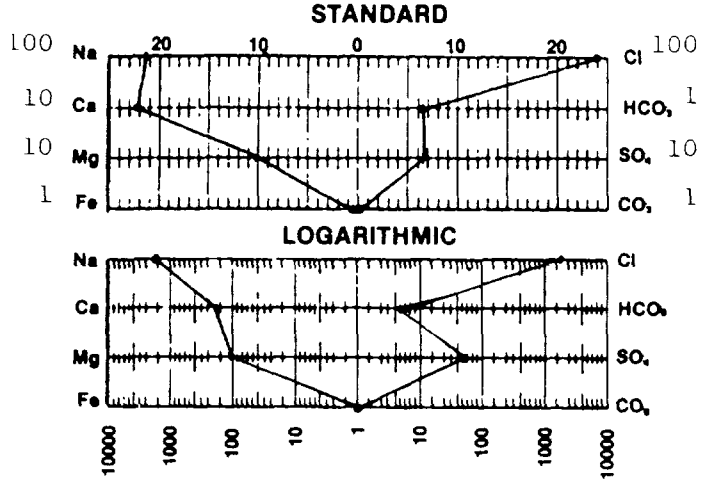
ANIONS		
Chloride, Cl	85,140	2,400.9
Sulfate, SO_4	3,130	65.2
Carbonate, CO_3	0	0.0
Bicarbonate, HCO_3	371	6.1

Total Dissolved Solids (calc.)	143,690
Iron, Fe (total)	2.3
Sulfide, as H_2S	17

OTHER PROPERTIES

pH	8.75
Specific Gravity, 60/60 F.	1.1012
Resistivity (ohm-meters) 77 °F.	0.054
Total Hardness, $CaCO_3$	17,600
Total Alkalinity, $CaCO_3$	304
Supersaturation, $CaCO_3$	

WATER PATTERNS—*me/l*



REMARKS & RECOMMENDATIONS:

File No: C86090

SCALING TENDENCY: (STIFF-DAVIS, CALCULATED)
Calcium Carbonate @ 77 °F = -6.34, indicating Corrosion
Calcium Sulfate Solubility @ 80 °F = 62.3me/1, indicating scaling

Copies — Jack Hamner

Received 5-21-86
Reported 5-26-86

CORE LABORATORIES, Inc.

2001 COMMERCE DRIVE
POST OFFICE BOX 4337
MIDLAND, TEXAS 79704
(915) 684-7781

API WATER ANALYSIS REPORT FORM

Company	Sample No.	Date Sampled
Mobil Producing Texas & New Mexico	86E33	

Field	Legal Description	County or Parish	State

Lease or Unit	Well	Depth	Formation	Water, B / D
Federal	E-1		Bone Springs	

Type of Water (Produced, Supply, etc.)	Sampling Point	Sampled By

DISSOLVED SOLIDS

CATIONS	*mg/l*	*me/l*
Sodium, Na (calc.)	33,130	1,441.2
Calcium, Ca	5,060	252.5
Magnesium, Mg	762	62.7
Barium, Ba		

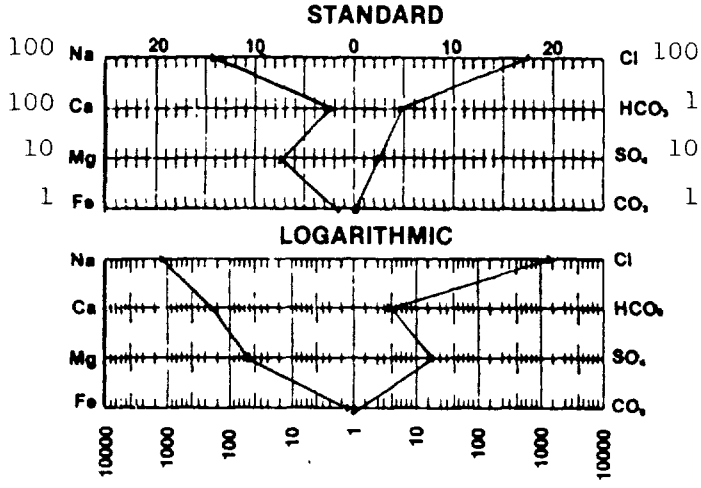
ANIONS		
Chloride, Cl	61,370	1,730.6
Sulfate, SO_4	1,010	21.0
Carbonate, CO_3	0	0.0
Bicarbonate, HCO_3	293	4.8

Total Dissolved Solids (calc.)	101,630
Iron, Fe (total)	45
Sulfide, as H_2S	0

OTHER PROPERTIES

pH	6.95
Specific Gravity, 60/60 F.	1.0673
Resistivity (ohm-meters) 77 °F.	0.074
Total Hardness, $CaCO_3$	17,040
Total Alkalinity, $CaCO_3$	240
Supersaturation, $CaCO_3$	

WATER PATTERNS—*me/l*



REMARKS & RECOMMENDATIONS:

File No: C86090

SCALING TENDENCY: (STIFF-DAVIS, CALCULATED)
Calcium Carbonate @ 77°F = .332 , indicating scaling
Calcium Sulfate Solubility @ 80 °F = 40.2 me/1, indicating non-scaling

Copies — Jack Hamner

Received 5-21-86
Reported 5-26-86

CORE LABORATORIES, Inc.

2001 COMMERCE DRIVE
POST OFFICE BOX 4337
MIDLAND, TEXAS 79704
(915) 684-7781

API WATER ANALYSIS REPORT FORM

Company		Sample No.	Date Sampled
Mobil Producing Texas and New Mexico		85L20	12-21-85
Field	**Legal Description**	**County or Parish**	**State**
		Lea	N. Mexico
Lease or Unit	**Well**	**Depth**	**Formation**	**Water, B / D**
Gov't D	3		Delaware	
Type of Water (Produced, Supply, etc.)	**Sampling Point**	**Sampled By**

DISSOLVED SOLIDS

CATIONS	*mg/l*	*me/l*
Sodium, Na (calc.)	47,420	2,062.9
Calcium, Ca	4,580	228.5
Magnesium, Mg	1,250	102.8
Barium, Ba		

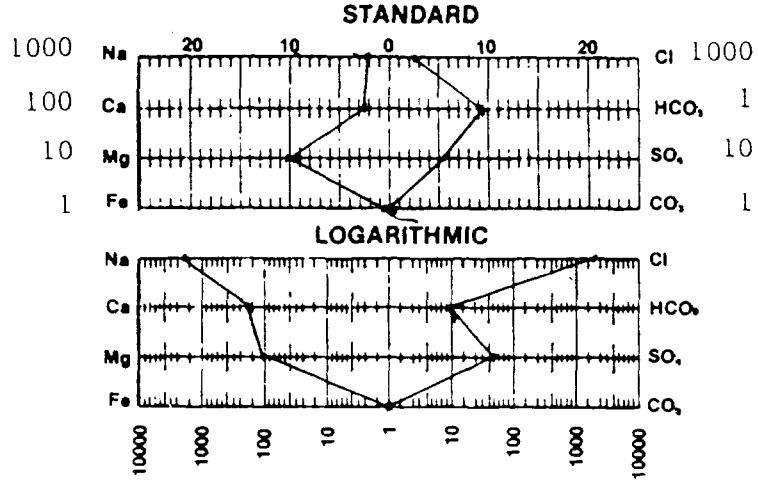
ANIONS		
Chloride, Cl	82,710	2,332.4
Sulfate, SO_4	2,530	52.7
Carbonate, CO_3	0	0.0
Bicarbonate, HCO_3	556	9.1

Total Dissolved Solids (calc.)	139,050
Iron, Fe (total)	23
Sulfide, as H_2S	150

OTHER PROPERTIES

pH	7.65
Specific Gravity, 60/60 F.	1.1054
Resistivity (ohm-meters) 77 °F.	.0.055
Total Hardness, $CaCO_3$	17,940
Total Alkalinity, $CaCO_3$	456
Supersaturation, $CaCO_3$	

WATER PATTERNS—*me/l*



REMARKS & RECOMMENDATIONS:

SCALING TENDENCY: (STIFF-DAVIS, CALCULATED)
Calcium Carbonate @ °F = , indicating
Calcium Sulfate Solubility @ °F = me/1, indicating

Copies — Jack Hamner

Received 12-25-85
Reported 12-30-85

VIII. The injection zone is in the Guadalupian age Delaware sands. The sands are light gray, very fine grained, subangular to subround, moderate to well sorted with thin argillareous laminta-tions. The degree of induration varies from friable sands to consolidated, calcareous-cemented sandstone. Four separate injection zones in the Delaware sands are included in the plan: 3840'-3856', 3869'-3880', 3898'-3934' and 3964'-4022'.

The Rustler formation is the primary source of drinking water for this area. The base of the fresh water is $\pm$ 400 ft. A second underground aquifer which contains low salinity water in this area, is the Capitan Reef. The base of the low salinity water in this unit is $\pm$ 2450 ft. No fresh water aquifer underlies the injection zone.

UNICHEM INTERNATIONAL

707 NORTH LEECH P.O.BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : MOBIL PRODUCING TX & NM
DATE : 04/18/86
FIELD,LEASE&WELL : AVALON BONE SPRINGS
SAMPLING POINT: SPEARS FRESH WATER WELL BURTON FLAT LEASE
DATE SAMPLED : 04/15/86

SPECIFIC GRAVITY = 1.001
TOTAL DISSOLVED SOLIDS = 3844
PH = 7.52

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	26.4	529.
MAGNESIUM	(MG)+2	14.4	175.
SODIUM	(NA),CALC.	18.7	430.
ANIONS			
BICARBONATE	(HCO3)-1	1.8	109.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	43.7	2100
CHLORIDES	(CL)-1	14	500
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		.4
BARIUM	(BA)+2	0	0
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) =.102

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	.508
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	4.56
CALCIUM SULFATE SCALING	LIKELY

XII. MPTM has examined the available geological and engineering data and finds no evidence of open faults or any other hydrological connection between the Delaware zone and any underground source of drinking water.

Mobil Producing Texas & New Mexico Inc.

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

MOBIL PRODUCING TX & NM, INC.
GOVERNMENT "D" LEASE
WELL NO. 4
EDDY COUNTY, NEW MEXICO

This application was sent to the Surface Owner of the land on which these wells are located and to each lease operator within one-half mile radius of the well location.

OFFSET OPERATORS

Exxon Company, U.S.A.
Box 2180
Houston, Texas 77001

Bass Enterprises Production Co.
Box 2760
Midland, Texas 79701

SURFACE OWNER

United States Department of the Interior
Bureau of Land Management
Carlsbad Resource Area
Post Office Box 1778
Carlsbad, New Mexico 88220

A:M612970A.CAM

Mobil Producing Texas & New Mexico Inc.

P O BOX 633
MIDLAND, TEXAS 79702

May 12, 1986

CERTIFIED MAIL
RETURT RECEIPT REQUESTED

United States Department of the Interior
Bureau of Land Management
Carlsbad Resource Area
P.O. Box 1778
Carlsbad, New Mexico 88220

7.01
NOTICE OF APPLICATION FOR
WATER DISPOSAL WELL
MOBIL PRODUCING TX & NM, INC.
GOVERNMENT "D" LEASE
WELL NO. 4
DELAWARE, NW FENTON FIELD
EDDY COUNTY, NEW MEXICO

Gentlemen:

Mobil Producing TX & NM, Inc. (MPTM), has made application to the Oil Conservation Division of New Mexico for authority to dispose of produced water into a reservoir not productive of oil or gas in the above captioned well.

A copy of this application is furnished to you for your information.

Yours very truly,

C.A. Moore

for G. E. Tate
Env. & Reg. Manager

CAMoore/dwc

Attachments

cc: Oil Conservation Division (w/attach)

A:M612970B.CAM

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☐ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
United States Dept. of Interior
Bureau of Land Management
Carlsbad Resource Area
BOX 1778
Carlsbad, N.M. 88220

4. Type of Service:
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail

Article Number
P547 380 787

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X Rhonda Melendez

6. Signature – Agent
X

7. Date of Delivery
5-14-86

8. Addressee's Address *(ONLY if requested and fee paid)*

DOMESTIC RETURN RECEIPT

Mobil Producing Texas & New Mexico Inc.

P O BOX 633
MIDLAND, TEXAS 79702

May 12, 1986

CERTIFIED MAIL
RETURT RECEIPT REQUESTED

Bass Enterprises Production Co.
Box 2760
Midland, Texas 79701

7.01
NOTICE OF APPLICATION FOR
WATER DISPOSAL WELL
MOBIL PRODUCING TX & NM, INC.
GOVERNMENT "D" LEASE
WELL NO. 4
DELAWARE, NW FENTON FIELD
EDDY COUNTY, NEW MEXICO

Gentlemen:

Mobil Producing TX & NM, Inc. (MPTM), has made application to the Oil Conservation Division of New Mexico for authority to dispose of produced water into a reservoir not productive of oil or gas in the above captioned wells.

A copy of this application is furnished to you for your information.

Yours very truly,

C. A. Moore

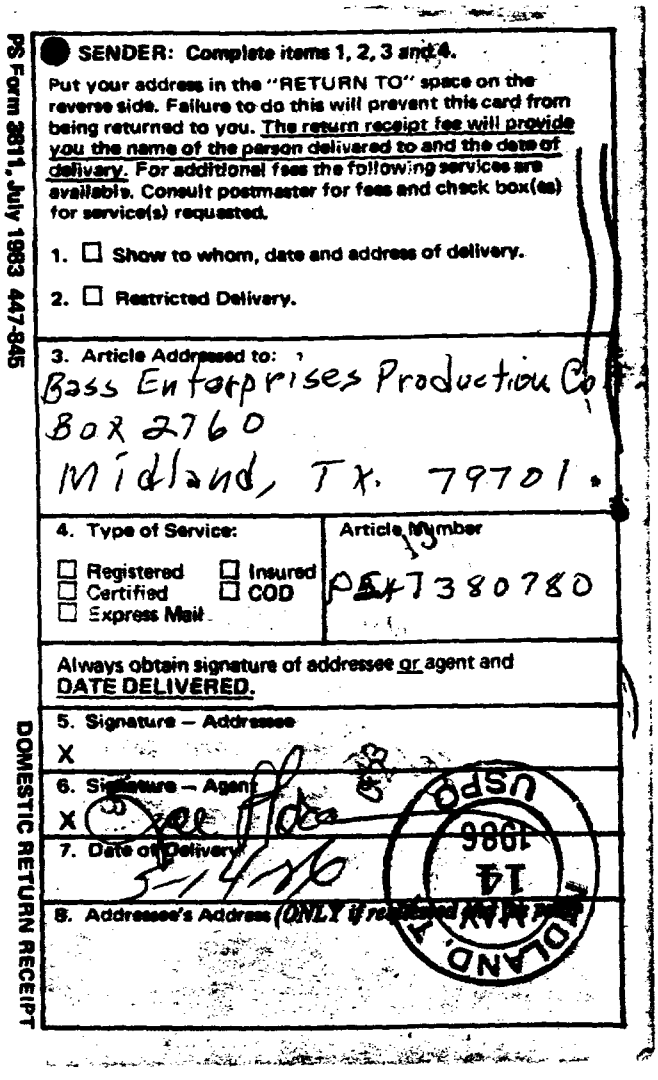
for G. E. Tate
Env. & Reg. Manager

CAMoore/dwc

Attachments

cc: Oil Conservation Division (w/attach)

A:M612970B.CAM



SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☐ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:
Bass Enterprises Production Co
Box 2760
Midland, Tx. 79701

4. Type of Service:
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail

Article Number
P 547 380 780

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X

7. Date of Delivery
5-14-86

8. Addressee's Address (ONLY if requested and fee paid)

USPO MAY 14 1986 MIDLAND, TX

PS Form 3811, July 1983 447-845

DOMESTIC RETURN RECEIPT

Mobil Producing Texas & New Mexico Inc.

P O BOX 633
MIDLAND, TEXAS 79702

May 12, 1986

CERTIFIED MAIL
RETURT RECEIPT REQUESTED

Exxon company U.S.A.
Box 2180
Houston, Texas 77001

7.01
NOTICE OF APPLICATION FOR
WATER DISPOSAL WELL
MOBIL PRODUCING TX & NM, INC.
GOVERNMENT "D" LEASE
WELL NO. 4
DELAWARE, NW FENTON FIELD
EDDY COUNTY, NEW MEXICO

Gentlemen:

Mobil Producing TX & NM, Inc. (MPTM), has made application to the Oil Conservation Division of New Mexico for authority to dispose of produced water into a reservoir not productive of oil or gas in the above captioned well.

A copy of this application is furnished to you for your information.

Yours very truly,

C. A. Moore

for G. E. Tate
Env. & Reg. Manager

CAMoore/dwc

Attachments

cc: Oil Conservation Division (w/attach)

A:M612970B.CAM

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. ☐ Show to whom, date and address of delivery.
2. ☐ Restricted Delivery.

3. Article Addressed to:

Exxon Company, U.S.A.
P.O. Box 2180
Houston, TX 77001

4. Type of Service:	Article Number
☐ Registered ☐ Insured ☐ Certified ☐ COD ☐ Express Mail	P 547 380 779

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X J. Huelsing

7. Date of Delivery
MAY 15 1986

8. Addressee's Address *(ONLY if requested and fee paid)*

DOMESTIC RETURN RECEIPT

Mobil Producing Texas & New Mexico Inc.

May 12, 1986

P.O. BOX 633
MIDLAND, TEXAS 79702

Carlsbad Current Argus
Post Office Box 1629
Carlsbad, New Mexico 88220

7.01
NOTICE OF APPLICATION FOR
WATER DISPOSAL WELL
MOBIL PRODUCING TX & NM, INC.
GOVERNMENT "D" LEASE
WELL NO. 4
FENTON, N. W. DELAWARE FIELD
EDDY COUNTY, NEW MEXICO

Gentlemen:

Mobil Producing TX & NM, Inc., is making application to the Oil Conservation Division of New Mexico for authority to inject produced water into a reservoir not productive of oil or gas through the subject well.

The Oil Conservation Division requires that a public notice of the attached information be published in the county in which the wells are located. Please publish the attached notice as soon as possible and return the completed affidavit and copy of the printed notice in the enclosed stamped envelope. Send the invoice to the attention of Mr. G. E. Tate.

Yours very truly,

C. A. Moore

for G. E. Tate
Env. & Reg. Manager

CAMoore/dwc

Attachments

cc: Oil Conservation Division -
District 2 (w/attach)

bcc: Regulatory Files

A:M612970F.CAM

APPLICATION FOR AUTHORIZATION TO INJECT

1. Mobil Producing Tx. & N. M. Inc, P.O. Box 633, Midland, Texas 79702

   Attention: Ann Moore, (915) 688-1772

   will apply for permission to inject produced water

   into the following well/wells for the purpose of: Disposal

2. Well Name and Number: Government "D" #4

   Location: 1554' FNL; 1980' FEL

   Section: 1 ,T-21-S ,R- 27-E

   County: Eddy

3. Formation Name: Delaware

   Injection Interval: 3849' to 4022'

   Maximun Injection Rate: 2000 BWPD

   Maximum Pressure: 770 PSI

4. Interested parties, who can show that they are adversely affected by this application, must file objections or requests for hearing with the Energy and Minerals Department, Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days after this publication.

Mobil Producing Texas & New Mexico Inc.

May 12, 1986

P.O. BOX 633
MIDLAND, TEXAS 79702

County Clerk
Ruth A. King
Post Office Box 850
Carlsbad, New Mexico 88221

7.01
NOTICE OF APPLICATION FOR
WATER DISPOSAL WELL
MOBIL PRODUCING TX & NM, INC.
GOVERNMENT "D" LEASE
WELL NO. 4
FENTON, N.W. DELAWARE FIELD
EDDY COUNTY, NEW MEXICO

Dear Ms. King:

Mobil Producing TX & NM, Inc. (MPTM), has made application to the Oil Conservation Division of New Mexico for authority to inject produced water into a reservoir not productive of oil or gas in the above captioned well.

The Oil Conservation Division requires that the enclosed application be sent to you for public information notice in the county in which the well is located. Please post the attached application as you desire. It is not necessary to record this information.

Yours very truly,

C.A. Moore

for G. E. Tate
Env. & Reg. Manager

CAMoore/dwc

Attachments

cc: Oil Conservation Division
District 2 (w/attach)

A:M612970G.CAM

CAMPBELL & BLACK, P.A.
LAWYERS

JACK M. CAMPBELL
BRUCE D. BLACK
MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
J. SCOTT HALL
PETER N. IVES
JOHN H. BEMIS

GUADALUPE PLACE
SUITE 1 - 110 NORTH GUADALUPE
POST OFFICE BOX 2208
SANTA FE, NEW MEXICO 87504-2208
TELEPHONE: (505) 988-4421
TELECOPIER: (505) 983-6043

July 25, 1986

Case 8973

Ms. Florene Davidson
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

Re: Application of Mobil Producing Texas and New Mexico, Inc. for Authority to Dispose of Produced Water in Its Government "D" Lease Well No. 4 in the Delaware Pool Northwest Fenton Field, Eddy County, New Mexico.

Dear Florene:

This letter is confirm that in discussions with Dick Stamets and David Catanach on July 22, 1986, it was agreed that the above-referenced application should be amended by increasing the disposal volume from 2,000 barrels per day to 3,300 barrels per day.

Mobil Producing Texas and New Mexico, Inc. requests that this letter be included in the case file.

Very truly yours,

William F. Carr

WFC/cv

cc: Mr. Gordon Tate