

Reg

Mobil Producing Texas & New Mexico Inc.

April 14, 1986

P.O. BOX 633
MIDLAND, TEXAS 79702

State of New Mexico
Energy & Minerals Department
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Richard L. Stamets
Director

BEFORE EXAMINER OF CONER
Oil Conservation Division
<u>Mobil</u> EXHIBIT No. <u>1</u>
Case No. <u>8884</u>

7.01
SALT WATER DISPOSAL APPLICATION
STATEWIDE RULE 1108
MOBIL PRODUCING TX & NM, INC.
BRIDGES STATE WELL NO. 511
474' FSL, 1904' FEL
SECTION 23, T-17-S, R-34-E
VACUUM GRAYBURG-SAN ANDRES FIELD
LEA COUNTY, NEW MEXICO

Dear Mr. Stamets:

Mobil Producing TX & NM, Inc., is applying for authority to dispose of produced water into the lower zone of the San Andres formation of the Vacuum Grayburg-San Andres Field. The Bridges State Well No. 511 is to be drilled for that purpose. The disposal water will be from producing formations of the Bridges State Lease, the North Vacuum Abo Unit and the North Vacuum Abo East Unit. Disposal water will be from Mobil operated leases only.

The subject well will be drilled to meet all State requirements necessary for a Salt Water Disposal well. No H₂S is anticipated while drilling the subject well. The well is needed to meet the increased disposal requirements due to the current and future infill drilling programs in the Vacuum Field area. Texaco operates a disposal well in Section 10, T-18-S, R-34-E and Rice Engineering operates one in the eastern portion of the field.

Attached, in support of this application, is the data required per Form C-108. The information is organized according to instructions on that form. If additional information is needed, please call L. L. Maroney at (915) 688-1773.

Yours very truly,



G. E. Tate
Env. & Reg. Manager

LLMaroney/dwc

Attachments

cc: Mr. Jerry Sexton
NMOCC
Hobbs, NM

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: Mobil Producing TX & NM, Inc.

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

Contact party: L. L. Maroney Phone: (915) 688-1773

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. Manager

Signature: [Signature] Date: 4/14/86

* 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.

SALT WATER DISPOSAL APPLICATION
STATEWIDE RULE 1108
MOBIL PRODUCING TX & NM, INC.
BRIDGES STATE WELL NO. 511
LEA COUNTY, NEW MEXICO

III. Well Data

- A. 1. Bridges State No. 511, 474' FSL, 1904' FEL,
Sec. 23, T-17-S, R-34-E.
- 2. Surface - 9-5/8" @ 1700' w/1200 sx Class C Neat to be
circ to surface. Hole size will be 12-1/4".
Injection - 7" @5650' w/2000 sx Class C Neat to be circ
to surface. Hole size will be 8-3/4". See attached
C-101.
- 3. 2-7/8", 6.5#/ft, J-55 8rd duolined tbg to be hung 100'
above perfs.
- 4. 7" Baker Model D nickle-plated pkr w/on-off tool to be
hung 100' above perfs.
- B. 1. Lower portion of San Andres, Vacuum Grayburg-San Andres
Field.
- 2. Will pick perfs between 5050-5650'. Main interval to
be perfd will be approx. 250'.
- 3. Will be drilled as disposal well.
- 4. None - well to be drilled.
- 5. Next higher formation is Queen 3775-4459'.
Next lower formation is Glorieta 5974-6038'.

VII.

- 1. Maximum injection of 11,000 BWPD, avg of 3000 BWPD.
- 2. System will be open.
- 3. Injection will be by gravity with eventual pressure not
to exceed .2#/ft of depth.
- 4. Source of injection water is from the Bridges State
Lease, the North Vacuum Abo Unit and the North Vacuum
Abo East Unit.
- 5. Chemical anlaysis attached.

CARDINAL CHEMICAL, INC.

Sixth Floor

American Bank of Commerce Building

ODESSA, TEXAS

DIVISION OFFICE Phone: EMerson 6-4451

RESEARCH LABORATORY

Phone: FEderal 2-7324

September 28, 1962

WATER ANALYSIS*Proposal Zone*

Company Mobil Oil Company
 Address P. O. Box 2406
 Hobbs, New Mexico

County

Lease State Bridge

Field

Well No. 27

Formation San Andres

Depth 5238

Attention

Date 9-27-62
SampledSample
Point

Recent Treatments

CONSTITUENTS DETECTED

(Reported as parts per Million)

Specific Gravity	1.130 @ 72° F	pH	5.6
Chloride	108,000	Calcium	3,240
Bicarbonate	532	Magnesium	1,464
Sulfate	2,400	Total Iron	Very Faint Trace
Phosphate		Sodium	64,791
Total Hardness (as Ca CO ₃)	14,200	Sulfide	Fair Trace

TOTAL DISSOLVED SOLIDS 180,427

	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	
Na 1000																		Cl 1000
Ca 100																		HCO ₃ 100
Mg 100																		SO ₄ 100

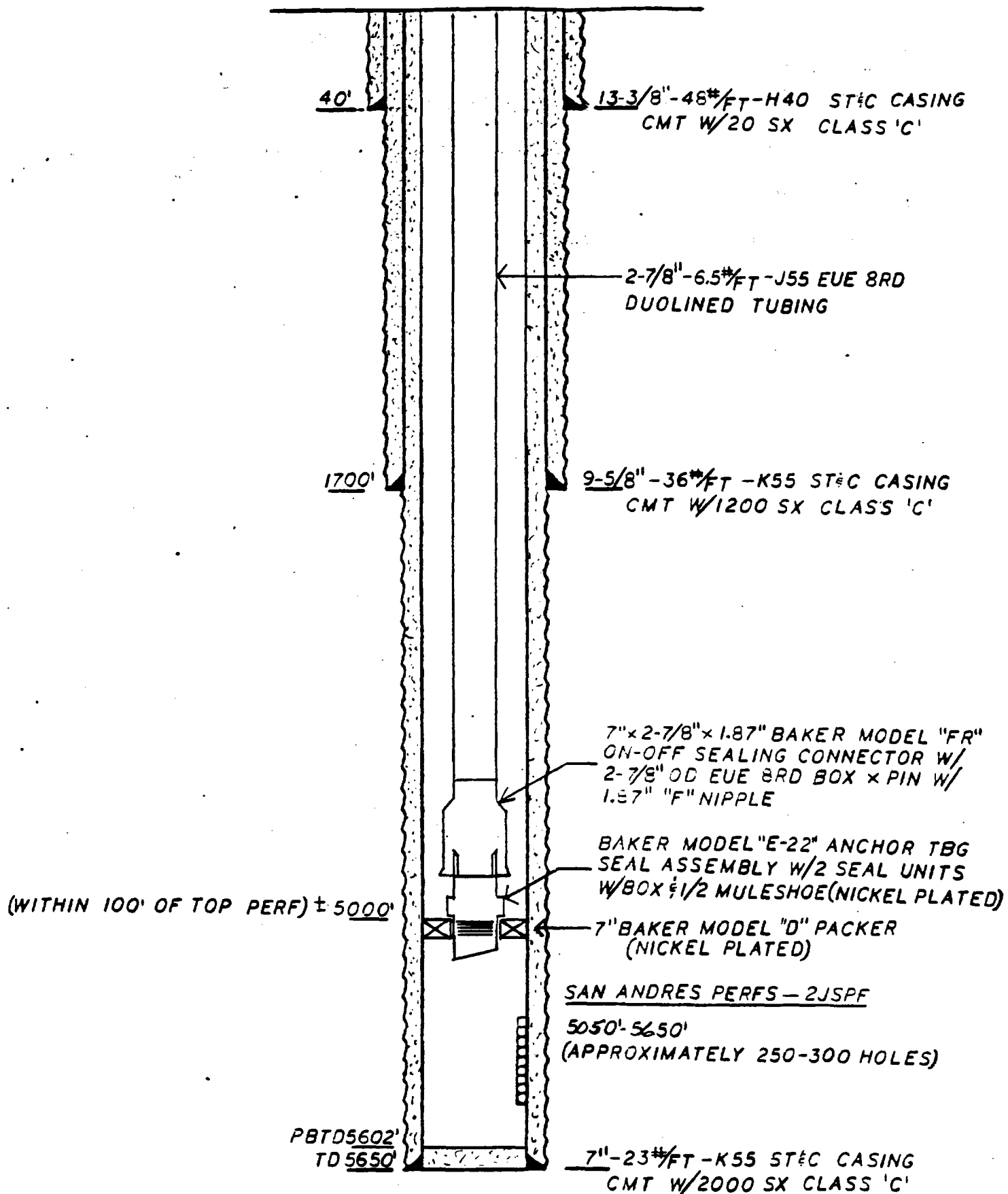
Remarks:

Orig. & 2cc: Mobil
 1cc: Hobbs Station

Analyst Jim Looney

5

BRIDGES STATE #511 (SWD)
VACUUM (SAN ANDRES) FIELD
LEA COUNTY, NEW MEXICO



OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-102
Revised 10-1-78

All distances must be from the outer boundaries of the Section.

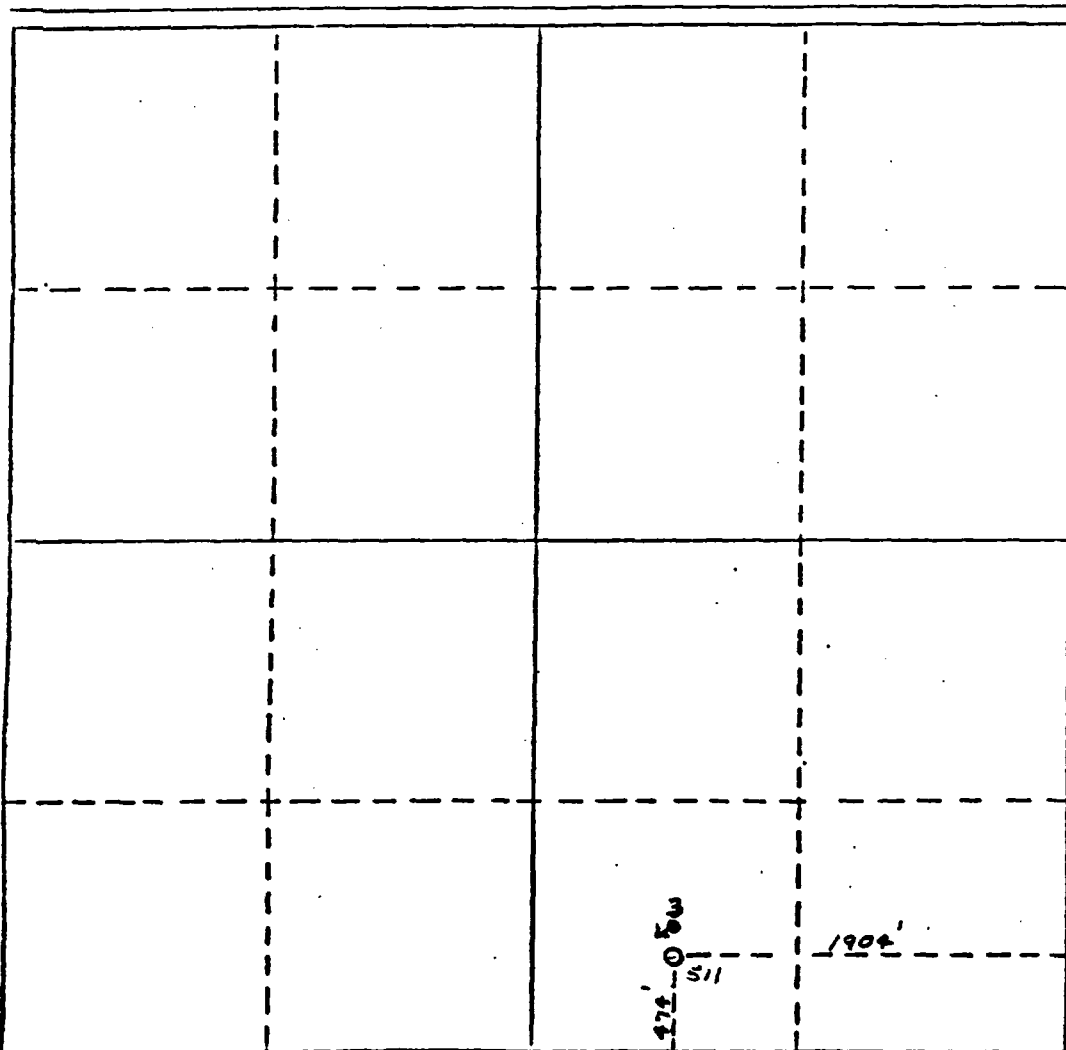
Operator Mobil Producing TX & NM, Inc.		Lease Bridges State		Well No. 511
Unit Letter 0	Section 23	Township 17-S	Range 34E	County Lea
Actual Footage Location of Well: 474 feet from the south line and 1904 feet from the east line				
Ground Level Elev. 4028'	Producing Formation Grayburg-San Andres	Pool Vacuum Grayburg-San Andres	Dedicated Acreage: NA - SWD Well Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division.



CERTIFICATION

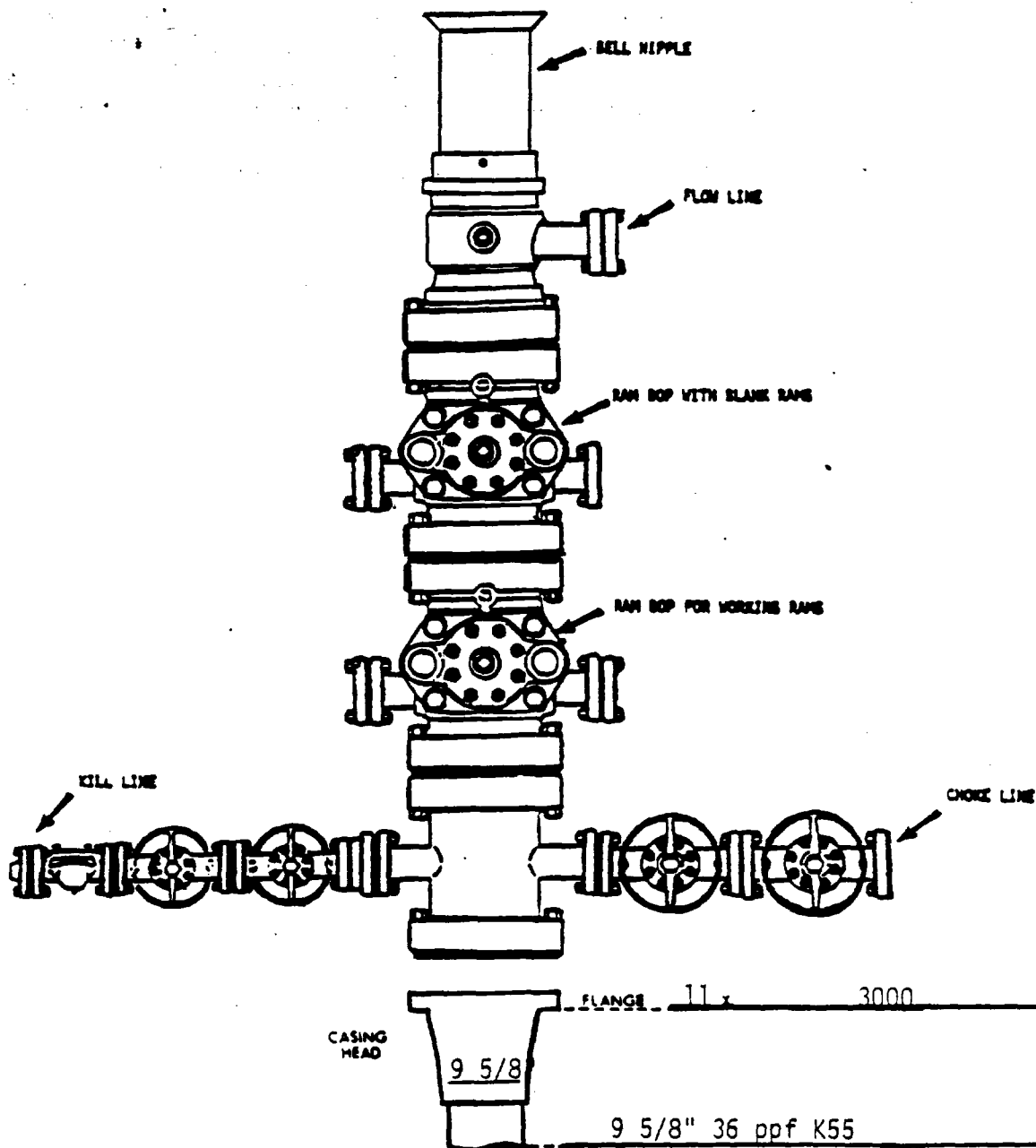
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name G. E. Tate
Position Env. & Reg. Manager
Company Mobil Producing TX & NM, Inc.
Date April 10, 1986

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Survey 25 MAR 1986
Registered Professional Engineer and/or Land Surveyor

Certificate No. 9669



*NOTE: ALL VALVES ARE METAL-TO-METAL SEAL AND FLANGED. ALL COMPONENTS MUST MEET ABOVE MINIMUM PRESSURE RATINGS. ALL COMPONENTS TO BE TESTED TO RATED PRESSURE AFTER ASSEMBLY AND BEFORE FURTHER DOWHOLE OPERATIONS MAY BE CONDUCTED.

Mobil Producing Texas & New Mexico Inc.

MOBIL NO. 511 Bridges State
(LEASE)

Lea COUNTY, Wm STATE

BLOWOUT PREVENTER ASSEMBLY

(11 IN. 3000 PSI WP)

Scale
Date
Drawn
Checked
Approved
Reviewed

VI. Tabulation of Wells in Area of Review
Mobil Operated Wells, T-17-S, R-34-E, Lea Co. NM

<u>Well No.</u>	<u>Unit Letter</u>	<u>Sect.</u>	<u>Type Well</u>	<u>Depth</u>	<u>Comp Form</u>	<u>Comp Interval/Ft</u>	<u>Date Drilled</u>	<u>Current Status</u>
3	O	23	WIW	4608	G-SA	4506-4551	01-31-38	Inj.
4	B	26	SI	6877	G-SA	4476-4575	04-13-38	TA
5	C	26	WIW	4750	G-SA	4277-47500H	04-13-38	Inj.
8	J	23	Oil	4740	G-SA	4365-45600H	06-06-38	Prod
30	G	26	WIW	6800	G-SA	4450-4836	04-25-38	Inj.
38	A	26	Oil	6795	Blincbry	6472-6518	08-09-39	Prod
41	P	23	Oil	4720	G-SA	4300-47200H	09-12-39	Prod
43	I	23	WIW	4735	G-SA	4524-4578	10-13-39	Inj.
58	M	24	Oil	6800	Glor.	6016-6064	03-29-40	Prod
105	A	26	WIW	6150	G-SA	4448-4816	04-05-65	Inj.
117	P	23	WIW	10414	Abo	8445-8497	09-21-66	Inj.
127	M	24	WIW	4850	G-SA	4484-4785	07-08-68	Inj.
137	B	26	Oil	8700	Abo	8481-8525	07-06-70	Prod
156	J	23	Oil	8750	Abo	8487-8548	04-25-71	Prod
192	H	23	Oil	4761	G-SA	4538-4578	11-28-84	Prod
199	P	23	Oil	4800	G-SA	4514-4570	05-19-85	Prod
213	N	23	WIW	8800	Abo	8509-8564	01-09-72	Inj.
234	I	23	Oil	8700	Abo	8470-8622	02-02-84	Prod
237	A	26	Oil	8700	Abo	8425-8584	11-12-83	Prod
238	M	26	P&A	5000	Abo	None	10-08-83	P&A
238A	M	26	Oil	8700	Abo	8459-8536	11-04-83	Prod
242	G	26	Oil	8700	Abo	8472-8608	06-29-84	Prod
243	C	26	Oil	8700	Abo	8494-8672	03-29-84	Prod
244	O	23	Oil	8700	Abo	8470-8608	04-24-84	Prod

Tabulation of Wells
Mobil Operated Wells
T-17-S, R-34-E

Page 2

<u>Well No.</u>	<u>Unit Letter</u>	<u>Sect.</u>	<u>Type Well</u>	<u>Depth</u>	<u>Comp Form</u>	<u>Comp Interval/Ft.</u>	<u>Date Drilled</u>	<u>Current Status</u>
245	K	23	Oil	8711	Abo	8549-8684	05-21-84	Prod
500	P	23	Oil	4800	G-SA	4533-4586	06-08-85	Prod

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

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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.

10. TYPE OF WELL

OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER W/W

b. TYPE OF COMPLETION

NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER

2. Name of Operator

MOBILE PRODUCING TX & N.M., Inc.

3. Address of Operator

Box 633 MIDLAND, TX 79702

4. Location of Well

7. Unit Agreement Name

8. Farm or Lease Name

BRIDGES STATE

9. Well No.

3
VACUUM GRAYBURG SAN ANTONIO

10. Field and Pool, or Wildcat

UNIT LETTER O LOCATED 660 FEET FROM THE S LINE AND 1980 FEET FROM

THE E LINE OF SEC. 23 TWP. 17S RGE. 34E NMPM

15. Date Spudded

6-12-37

16. Date T.D. Reached

1-31-38

17. Date Compl. (Ready to Prod.)

18. Elevations (DF, RKB, RT, GR, etc.)

4028 GL

19. Elev. Casinghead

20. Total Depth

4608

21. Plug Back T.D.

4606

22. If Multiple Compl., How Many

23. Intervals Drilled By

Rotary Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name

4506 - 4551 GRAYBURG/SAN ANTONIO

25. Was Directional Survey Made

26. Type Electric and Other Logs Run

27. Was Well Cored

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<u>20</u>	<u>30"</u>	<u>253</u>		<u>Csg. Mucell</u>	
<u>16</u>	<u>70"</u>	<u>274</u>	<u>18</u>	<u>Csg. Mucell</u>	
<u>13</u>	<u>50"</u>	<u>528</u>	<u>15</u>	<u>250 SR (C.R.)</u>	
<u>9 5/8</u>	<u>36"</u>	<u>1885</u>	<u>12</u>	<u>420 SR (700-800')</u>	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
<u>7" 28" 156</u>	<u>8" hole</u>	<u>Set A 4275</u>	<u>200 x 100-2900</u>	
<u>5" 15" 1NR</u>	<u>4099</u>	<u>4608</u>	<u>400 x C (C.R.)</u>	

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
<u>2 3/4</u>	<u>3386</u>	<u>3386</u>

31. Perforation Record (Interval, size and number)

1506-12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 41, 43, 45, 47, 49, 51 - 1 JSAP + 23 holes

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

33. PRODUCTION

Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. 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 (Carr.)	

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

Test Witnessed By

35. List of Attachments

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 _____ TITLE _____ DATE _____

12

DATE 8-20-83 WELL NO. 3W1W LEASE BRIDGE STATE NEW MEXICO FIELD VACUUM GRAYBURG-SA

LOCATION Q-23-125-34E COUNTY LEA STATE NM GL 4028'

SIGNED W L REEVES

DF _____

KB _____

ZERO _____

—253' 20"-90# CSG MUDDED
—274' 16"-70# CSG MUDDED
—528' 13"-50# CSG W/ 250 SX (MT. (CIRC.)
—1885' 9 5/8"-36# CSG W/ 420 SX TOC 800' (CALC.)

—113 JTS 2 3/4" IPC TEG
—140 BL TFW W/ 12 GPM PUMP R-2264 PKR FLUID

—2900 TOC (CALC.)

—3986' 7" BAKER ADI PKR
—4098' LINER TOP
—4275' 7"-24# CSG W/ 200 SX CMT

—G/SA PERFS: 4506, 08, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32,
34, 36, 38, 40, 41, 43, 45, 47, 49, 51 W/ 13SPF (23 HOLES)

4608' 5"-15# J-55 LNR W/ 400 SX CL C W/ 0.03% D65 +
1/8" CELLO FLAT / SX

TD 4608'
PBD 4606'

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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LAND OFFICE	
OPERATOR	

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

TYPE OF WELL

OIL WELL ☐GAS WELL ☐DRY ☐

OTHER

TA

TYPE OF COMPLETION

NEW WELL ☐WORK OVER ☐DEEPEN ☐PLUG BACK ☐DIFF. RESVR. ☐

OTHER

Name of Operator

Noble Producing TX. & N.M. Inc.

Address of Operator

P.O. Box 633, Woodland, TX 79702

Location of Well

7. Unit Agreement Name

8. Farm or Lease Name

Bridges State

9. Well No.

4

10. Field and Pool, or Wildcat

San Andres - San

12. County

Lea

T. LETTER B LOCATED 660 FEET FROM THE N LINE AND 1982 FEET FROME LINE OF SEC. 26 TWP. 17S RGE. 34E NMPM

14. Date Spudded 3-7-38 16. Date T.D. Reached 4-13-38 17. Date Compl. (Ready to Prod.) 4032 GR 18. Elevations (DI, RKB, RT, GR, etc.) 19. Elev. Casinthead

20. Total Depth 6877 21. Plug Back T.D. 5989 22. If Multiple Compl., How Many ☒ 23. Intervals Drilled By ☐ Rotary Tools ☐ Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name

4176 - 4575 SAN ANDRES

25. Was Directional Survey Made

26. Types Electric and Other Logs Run

27. Was Well Cored

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10 3/4	40#	846	13 1/4	175 3x (circ)	
7"	24#	4270	8 3/4	281 5x (2220' TRC)	

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
5"	4166	6877	370		2 3/8	41620	-

30. TUBING RECORD

31. Perforation Record (Interval, size and number)

4176, 78, 82, 85, 88, 92, 94, 99, 4507, 13, 18, 21, 23, 30, 39, 43, 46, 51, 53, 57, 72, + 4575 w/ 1JSFF & 22 holes

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

DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED

PRODUCTION

33. First Production Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. or Shut-in)

Time of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
34. Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	

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

Test Witnessed By

List of Attachments

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.

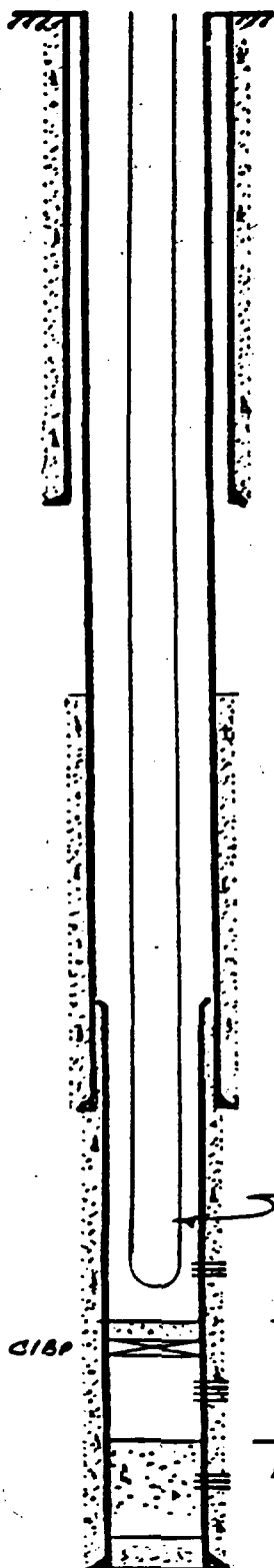
SIGNED

TITLE

DATE

14

FIELD <i>Vacuum Grba San Andres</i>	OPERATOR <i>Mobil Oil Corp</i>	DATE <i>5-19-76</i>
LEASE <i>Bridges State</i>	WELL No <i>4</i>	LOCATION <i>B-26-17S-34E</i>



10^{3/4} " casing set at 846 ' with 175 sx of NA cement
Hole size 12^{1/4} " *Enough to circ*

2,220' Calculated Cr⁺ Top

4166' Liner top

7 " casing set at 4270 ' with 281 sx of NA cement
Hole size 8^{3/4} "

2^{3/8}" tubing - 4,612'

San Andres Perfs 4476 - 4575

5989' A.B.T.D.

6,000

Glorieta Perfs 6096 - 6125

6333' A.B.T.D.

Blinberry Perfs 6449 - 6760

5 " liner set at 6577 ' with 370 sx of T/LW + 1/2 cement
Total Depth 6577 ' Hole size 5^{1/2} "

*15
16W*

Salt Water Disposal Application
Bridges State Well No. 511
Section 23, T-17-S, R-34-E
Vacuum Grayburg-San Andres Field
Lea County, New Mexico

Wells in Area of Review
Perforating & Cementing Information

Operator MOBIL PRODUCING TR & L.M., Inc

Well Name & Number BRIDGES STATE #4

BLINEARY PERFS - 6499 - 6760 - 5020 w/ cmt PLUG TO 6333 PBTD

GLORIETA PERFS - 6096 - 6125 - CIBP @ 6000 + cmt TO 5989 PBTD

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NO. OF COPIES RECEIVED	
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OPERATOR	

5a. Indicate Type of Lease

State ☒Fee ☐

5. State Oil & Gas Lease No.

7. Unit Agreement Name

8. Farm or Lease Name

Bridges State

9. Well No.

5

10. Field and Pool, or Wildcat

Gardner
Tatum Grayburg - San

12. County

Lea

1a. TYPE OF WELL

OIL WELL ☐GAS WELL ☐DRY ☐OTHER WTW

b. TYPE OF COMPLETION

NEW WELL ☐WORK OVER ☐DEEPEN ☐PLUG BACK ☐DIFF. RESVR. ☐

OTHER

2. Name of Operator

3. Address of Operator

4. Location of Well

UNIT LETTER C LOCATED 660 FEET FROM THE N LINE AND 1980 FEET FROMTHE N LINE OF SEC. 26 TWP. 17S RGE. 34E NMPM

15. Date Spudded

3-7-38

16. Date T.D. Reached

4-13-38

17. Date Compl. (Ready to Prod.)

18. Elevations (DF, RKB, RT, GR, etc.)

4039 - GL

19. Elev. Casinghead

20. Total Depth

4750

21. Plug Back T.D.

OH

22. If Multiple Compl., How Many

23. Intervals Drilled By

Rotary Tools

Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name

OHZ 4272 - 4750 SAN ANDRES

25. Was Directional Survey Made

26. Type Electric and Other Logs Run

27. Was Well Cored

28.

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10 3/4"	48	805		175x	
7"	24	4277		280x	

29.

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8	4028	4028

30.

TUBING RECORD

31. Perforation Record (Interval, size and number)

OHZ 4277 - 4750 (SAN ANDRES)

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

DEPTH INTERVAL

AMOUNT AND KIND MATERIAL USED

33.

PRODUCTION

Date First Production

Production Method (Flowing, gas lift, pumping - Size and type pump)

Well Status (Prod. 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 Fracs.	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.)

Test Witnessed By

35. List of Attachments

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 _____ TITLE _____ DATE _____

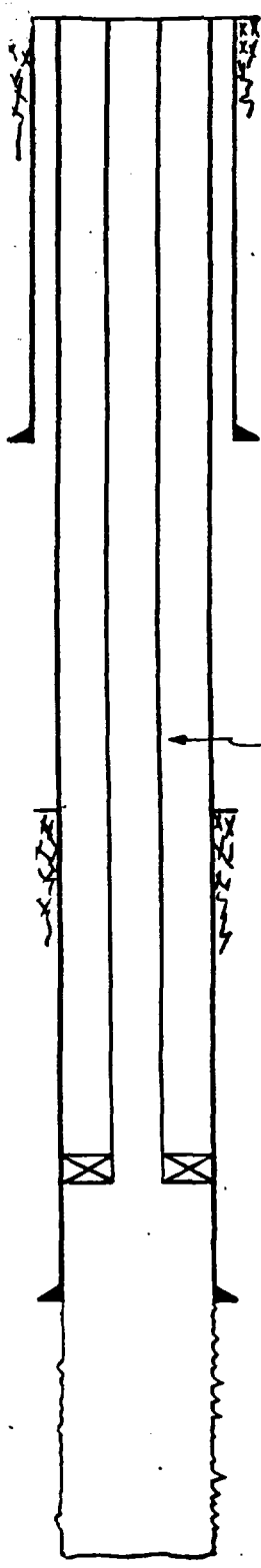
17

DATE 7-2-02 WELL NO. 32100 LEASE DISCOVER STATE FIELD DISCOVER

LOCATION C-26-175-34E COUNTY LEA STATE NM GL 4039'

SIGNED A.L.T. BURNETT

DF
KB
ZERO



— 10 3/4" 4B# C56 SET @ 805' w/ 175 SX CMT. CIRC.

— 103 JTS OF 2 3/8" CL TBG + 28 JTS OF 2 3/8" 10V CL TBG
— CALC TOC @ 2345'

— 7" BUIB ST PKR SET @ 4028' w/ 14 FTS T

— 7" 24# C56 SET @ 4277' w/ 275 SX CMT.

TD 4750'

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

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WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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5a. Indicate Type of Lease

State ☒Fee ☐

5. State Oil & Gas Lease No.

7. Unit Agreement Name

8. Form or Lease Name

Bridges State

9. Well No.

8

10. Field and Pool, or Wildcat

Granger
Kimmer Grayburg - 3a

12. County

Lea

1a. TYPE OF WELL

OIL WELL ☒GAS WELL ☐DRY ☐

OTHER

b. TYPE OF COMPLETION

NEW WELL ☐WORK OVER ☐DEEPEN ☐PLUG BACK ☐DIFF. RESV. ☐

OTHER

2. Name of Operator

Mobil Producing TX. & N.M. Inc.

3. Address of Operator

P.O. Box 633, Granger, 79701

4. Location of Well

UNIT LETTER J LOCATED 1980 FEET FROM THE S LINE AND 1980 FEET FROMTHE E LINE OF SEC. 23 TWP. 17S RGE. 34E N14PM

15. Date Spudded 4-28-38 16. Date T.D. Reached 6-6-38 17. Date Compl. (Ready to Prod.) 18. Elevations (DF, RKB, RT, GR, etc.) 4035 - GR 19. Elev. Casinghead

20. Total Depth 1740 21. Plug Back T.D. 4560 - FILL 22. If Multiple Compl., How Many 23. Intervals Drilled By 24. Producing Interval(s), of this completion - Top, Bottom, Name OH2 4365 - 4560 GRAYBURG/SAN ANDRES 25. Was Directional Survey Made

26. Type Electric and Other Logs Run

27. Was Well Cored

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10 3/4	36	805	12 1/4	220 x (Circ)	
7	24	4365	8 3/4	210 x (2700 - Toe)	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 7/8	OPMA - 4556	-

31. Perforation Record (Interval, size and number)

OH2 - 4365 - 4560

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

33. PRODUCTION

Date First Production Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. 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.)

Test Witnessed By

35. List of Attachments

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.

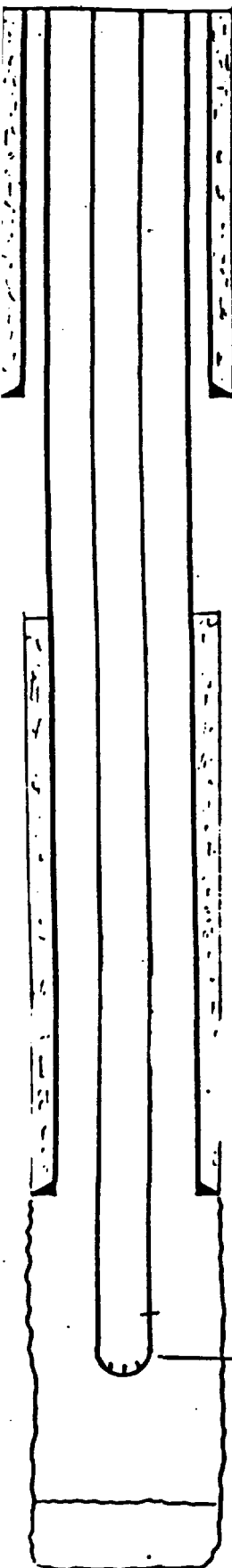
SIGNED TITLE DATE

19

E 6-6-35. WELL NO. 8 LEASE BRIDGES STATE FIELD VACUUM GRAB SA
LOCATION J-23-175-34E COUNTY LEA STATE N.M.
SIGNED M.E. VASICEK

GL 4025 *
DF
KB
ZERO

* DATA FROM #156



— 12 1/4" HOLE

— 10 3/4" CSG SET @ 305' w/ 220 sx CMT CIRC

— 2700' CMT TOP (CALCULATED)

— 8 3/4" HOLE

— 7" CSG SET @ 4365' w/ 210 sx CMT.

— 2 7/8" PRODUCTION STRING (SN ± 4521 OPMA ± 4556)

— CURRENT TD (FILL) 4560

— TD 4740'

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OPERATOR	

5a. Indicate Type of Lease
State ☒ Fee ☐

5. State Oil & Gas Lease No.

7. Unit Agreement Name

8. Farm or Lease Name

Bridges State

9. Well No.

30

10. Field and Pool, or Wildcat

Andrew Grayburg San

12. County

Lea

a. TYPE OF WELL

OIL WELL ☐

GAS WELL ☐

DRY ☐

OTHER *WIW*

b. TYPE OF COMPLETION

NEW WELL ☐

WORK OVER ☐

DEEPEN ☐

PLUG BACK ☐

DIFF. RESVR. ☐

OTHER

c. Name of Operator

Mobile Producing TX. & N.M. Inc.

d. Address of Operator

P.O. Box 633, Woodland TX 79702

e. Location of Well

UNIT LETTER *2* LOCATED *1980* FEET FROM THE *N* LINE AND *1980* FEET FROM

ME *E* LINE OF SEC. *26* TWP. *17S* RGE. *34E* NMPM

15. Date Spudded

3-30-38

16. Date T.D. Reached

4-25-38

17. Date Compl. (Ready to Prod.)

18. Elevations (DF, RKR, RT, GR, etc.)

409-GL

19. Elev. Casinghead

20. Total Depth

6800

21. Plug back T.D.

6330

22. If Multiple Compl., How Many

409-GL

23. Intervals Drilled By

Rotary Tools

Cable Tools

24. Producing Interval(s), of this completion -- Top, Bottom, Name

4450-4836 GRAYBURG/SAN ANTONIO

25. Was Directional Survey Made

26. Type Electric and Other Logs Run

27. Was Well Cored

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<i>10 3/4</i>	<i>35.75</i>	<i>828</i>	<i>12 1/4</i>	<i>327 x (LOC)</i>	
<i>7</i>	<i>24</i>	<i>4200</i>	<i>8 3/4</i>	<i>216 x 2375 (TCC)</i>	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
<i>5 1/2" 17"</i>	<i>4069</i>	<i>5061</i>	<i>275 x</i>		<i>2 3/8</i>	<i>4362</i>	<i>4362</i>
<i>5" 15.5"</i>	<i>5061</i>	<i>6800</i>					

31. Perforation Record (Interval, size and number)

*4450-70, 71-77, 80-86, 4490-4520, 4568-75,
4735-36, 40-48, 75-77, 81-88, 4813-17, 24-36
w/ 15SPF & 105 HOLES*

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

DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED

33. PRODUCTION

Date First Production Production Method (Flowing, gas lift, pumping -- Size and type pump) Well Status (Prod. 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.)

Test Witnessed By

35. List of Attachments

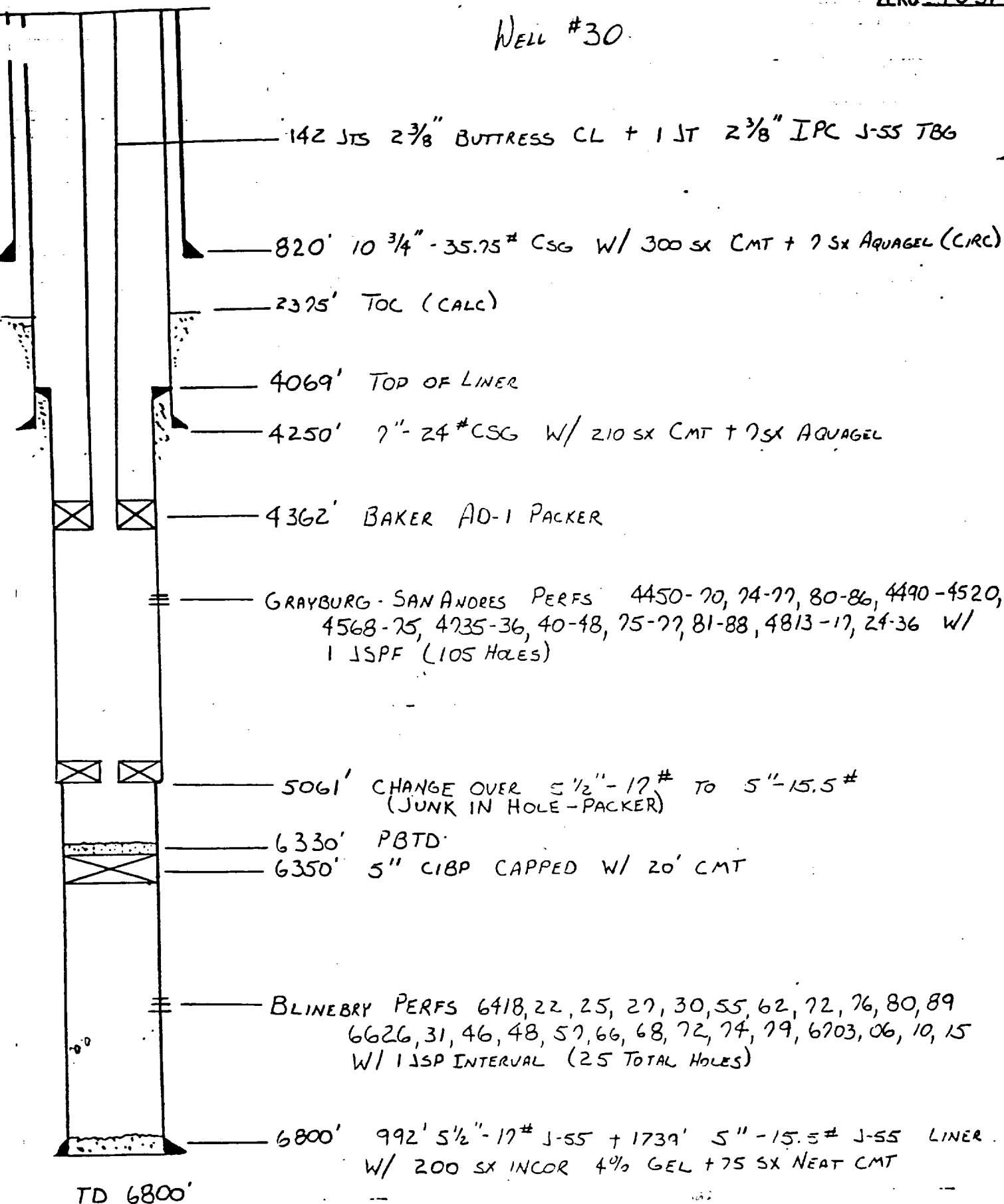
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SIGNED

TITLE

DATE

Well #30



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5a. Indicate Type of Lease
State ☒ Fee ☐

5. State Oil & Gas Lease No.

7. Unit Agreement Name

8. Farm or Lease Name

Bridges State

9. Well No.

38

10. Field and Pool, or Wildcat

Vacuum Blending

12. County

Lea

19. Elev. Casinghead

4027 GR

25. Was Directional Survey Made

6472-6518 BLUEBRY

27. Was well Cored

3. TYPE OF WELL

OIL WELL ☒GAS WELL ☐DRY ☐

OTHER

4. TYPE OF COMPLETION

NEW WELL ☐WORK OVER ☐DEEPEN ☐PLUG BACK ☐DIFF. RESVR. ☐

OTHER

6. Name of Operator

Mobil Producing TX. & N.M. Inc.

7. Address of Operator

P.O. Box 633, Midland, TX 79702

8. Location of Well

INIT LETTER A LOCATED 660 FEET FROM THE NORTH LINE AND 660 FEET FROM

11. East LINE OF SEC. 26 TWP. 17S RGT. 34E NMPM

13. Date Spudded

7-11-39

15. Date T.D. Reached

8-9-39

17. Date Compl. (Ready to Prod.)

4027 GR

10. Total Depth

6795

21. Plug Back T.D.

6620

22. If Multiple Compl., How Many

23. Intervals Drilled By

Pottery Tools

Cable Tools

14. Producing Interval(s), of this completion - Top, Bottom, Name

26. Type Electric and Other Logs Run

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10-3/4	36	825	12-1/4	240' cement to surface	
7	24	4230	8-3/4	210' cement to 2692'	
4-1/2 Liner		4025-6795	6-1/4	400' cement to 4090' pumpdown survey	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8	6516	6426

31. Perforation Record (Interval, size and number)

6472-6518' 16 holes (BLUEBRY)

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)					Well Status (Prod. 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.)

Test Witnessed By

35. List of Attachments

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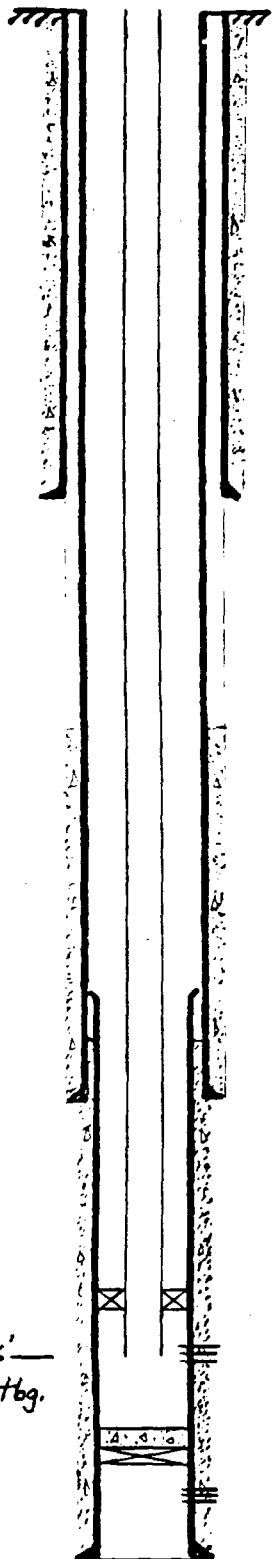
SIGNED

TITLE

DATE

23

FIELD <u>Vacuum Blinebry</u>	OPERATOR <u>Mobil Oil Corp.</u>	DATE <u>5-11-76</u>
LEASE <u>Bridges State</u>	WELL No <u>38</u>	LOCATION <u>A-26-17S-34E</u>



10³/₄" casing set at 825' with 240 sx of N.A. cement
Hole size 12¹/₄" cement circ.

2694' cement top (calc.)

4025' Liner top

4090' cement top (T.S.)

7" casing set at 4230' with 210 sx of N.A. cement
Hole size 8³/₄"

6426' Guib. packer

Yeso Perfs 6472'-6,518'

6620' PBD

6630' CIBP w/10' of cmt.

Yeso Perfs 6667'-6,713'

4¹/₂" liner set at 6,795' with 400 sx of Incor 4% gel
Incor Neat cement
Total Depth 6,795' Hole size 6¹/₄"

Salt Water Disposal Application
Bridges State Well No. 511
Section 23, T-17-S, R-34-E
Vacuum Grayburg-San Andres Field
Lea County, New Mexico

Wells in Area of Review
Perforating & Cementing Information

Operator MOBIL PRODUCING TX & N.M., INC

Well Name & Number BRIDGES STATE # 38

YESD (BLINDBRY) PERFS - 6667-6713 - CIBP @ 6630 +

CMT CAP TO 6670 PBD.

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LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease
State ☒ Fee ☐

5. State Oil & Gas Lease No.

7. Unit Agreement Name

8. Farm or Lease Name

Bridges State

9. Well No.

41

10. Field and Pool or Willcat

Grayburg-San Andres

12. County

San

1a. TYPE OF WELL

OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐

b. TYPE OF COMPLETION

NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

2. Name of Operator

Mobil Producing Co. & Son. Inc.

3. Address of Operator

P.O. Box 433, Woodland, TX 79702

4. Location of Well

UNIT LETTER *P* LOCATED *660* FEET FROM THE *S* LINE AND *660* FEET FROM

THE *E* LINE OF SEC. *23* TWP. *17S* RGE. *34E* N41PM

15. Date Spudded

8-17-39

16. Date T.D. Reached

9-12-39

17. Date Compl. (Ready to Prod.)

18. Elevations (DF, RKB, RT, GR, etc.)

4031 - GR

19. Elev. Casinghead

20. Total Depth

4720

21. Plug Back T.D.

22. If Multiple Compl., How Many

23. Intervals Drilled By

Rotary Tools

Cable Tools

24. Producing interval(s), of this completion - Top, Bottom, Name

OHZ - 4300 - 4720 GRAYBURG/SAN ANDRES

25. Was Directional Survey Made

26. Type Electric and Other Logs Run

27. Was Well Cured

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<i>10 3/4</i>	<i>36</i>	<i>830</i>	<i>12 1/4</i>	<i>250 x (CIRC)</i>	
<i>7</i>	<i>24</i>	<i>4300</i>	<i>8 3/4</i>	<i>220 x (TAC-2690)</i>	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
<i>2 7/8</i>	<i>4560</i>	<i>4151 - TAC</i>

31. Perforation Record (Interval, size and number)

OHZ - 4300 - 4720

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

33. PRODUCTION

Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. 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 Frns.	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.)						Test Witnessed By	

35. List of Attachments

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 _____ TITLE _____ DATE _____ *26*

FIELD <u>Vacuum Grayburg S.A.</u>	OPERATOR <u>Mobil Oil Corp.</u>	DATE <u>5-17-76</u>
LEASE <u>Bridges State</u>	WELL No. <u>41</u>	LOCATION <u>P-23-17S-34E</u>

10³/₄" casing set at 830' with 250 sx of N.A. cement
Hole size 12¹/₄" cement circ.

2,690' Cement top (Calc.)

4,151' Guib tbg. anchor

7" casing set at 4,700' with 220 sx of N.A. cement
Hole size 8³/₄"

4,560' 2⁷/_{8"} tbg.

Total Depth 4,720'

STATE OF NEW MEXICO
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OIL CONSERVATION DIVISION

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LAND OFFICE	
OPERATOR	

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

1a. TYPE OF WELL

OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER WIW

b. TYPE OF COMPLETION

NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER

2. Name of Operator

3. Address of Operator

4. Location of Well

7. Unit Agreement Name

8. Farm or Lease Name

Bridges State

9. Well No.

43

10. Field and Pool, or Wildcat

San Andres
Yucca GrayburgUNIT LETTER I LOCATED 1980 FEET FROM THE S LINE AND 660 FEET FROM

12. County

DeaTHE E LINE OF SEC. 23 TWP. 17S RGE. 34E NMPM

15. Date Spudded

9-17-39

16. Date T.D. Reached

10-13-39

17. Date Compl. (Ready to Prod.)

18. Elevations (DF, RKB, RT, GR, etc.)

4033 - GL

19. Elev. Casinghead

20. Total Depth

4735

21. Plug Back T.D.

4764

22. If Multiple Compl., How Many

23. Intervals Drilled By

Rotary Tools

Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name

4524 - 4578 GRAYBURG/SAN ANTONIO

25. Was Directional Survey Made

26. Type Electric and Other Logs Run

27. Was Well Cored

28.

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<u>10 3/4</u>	<u>35.75</u>	<u>824</u>	<u>12 1/4</u>	<u>250 x (CIRC)</u>	
<u>7</u>	<u>22</u>	<u>4280</u>	<u>8 3/4</u>	<u>210 x (TOC-2340)</u>	

29.

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT
<u>5-15"</u>	<u>4088</u>	<u>4735</u>	<u>400 C (CIRC)</u>

30.

TUBING RECORD

SIZE	DEPTH SET	PACKER SET
<u>2 3/8</u>	<u>4035'</u>	<u>4035'</u>

31. Perforation Record (Interval, size and number)

4524, 26, 28, 32, 34, 38, 40, 42, 44, 46, 48, 53, 55,
57, 62, 64, 66, 69, 72, 74, 76, + 78 w/ 15SPF
+ 22 holes

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

DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED

33.

PRODUCTION

Date First Production

Production Method (Flowing, gas lift, pumping - Size and type pump)

Well Status (Prod. 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.)

Test Witnessed By

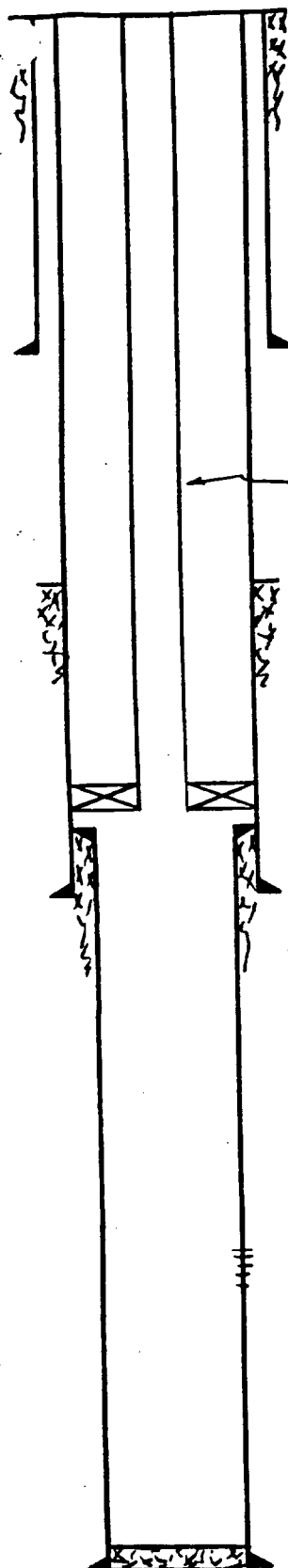
35. List of Attachments

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 _____ TITLE _____ DATE _____

28

DATE 4-8-83 WELL NO. 43 W/W LEASE BRIDGES STATE FIELD VALUUT
 LOCATION I-23-175-340 COUNTY LEA STATE NM GL 4035'
 DF _____
 KB _____
 ZERO _____
 SIGNED W.T. BURNETT



— 10 3/4" 35.75# CSG SET @ 824' w/ 250 SX CMT. CIRC.

← 130 JTS OF 2 1/8" CL TBG

— TOC @ 2340' (TEMP. SURVEY)

— 7" JOHNSTON TENSION PKR SET @ 4035' w/ 9 PTS T

— TOP OF LWR @ 4088'

— 7" 22# CSG SET @ 4280' w/ 210 SX CMT

— G/SA PERFS: 4524, 26, 28, 32, 34, 38, 40, 42, 44, 46, 48, 53, 55, 57, 62, 64, 66, 69, 72, 74, 76 & 78 w/ 1 JSPT (22 HOLES)

— 5" 15# K-55 LWR SET @ 4735' w/ 400 SX CLASS C w/ 0.03% D31 +
 1/8# CELLOFLAKES/SX.

TD 4735'
 PBD 4704'

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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SANTA FE, NEW MEXICO 87501

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OPERATOR	

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

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

6. Name of Operator	
MDA, PRODUCTION TX & NM, INC.	
7. Address of Operator	
Box 633 Midland, TX 79702	
8. Location of Well	

7. Unit Agreement Name
8. Farm or Lease Name
BRIDGES STATE
9. Well No.
58
10. Field and Pool, or Wildcat
VACUUM GLORIETA

UNIT LETTER	M	LOCATED	6600	FEET FROM THE	W	LINE AND	6600	FEET FROM
TWP. 5 LINE OF SEC. 24 TWP. 17S RGE. 34E NMPM								

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Casinghead
3-2-40	3-27-40		4025-GL	
20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools
6800	6268			Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name	25. Was Directional Survey Made
6016-6064 - GLORIETA	

26. Type Electric and Other Logs Run	27. Was Well Cored

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10 3/4	36	830	12 1/4	250x (CIRC)	
7	22	4245	8 3/4	220x (2635 TOC)	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
5"	4025	6800	225x (CIRC)		2 3/8	6246	TAC @ 6147

31. Perforation Record (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
6016, 18, 20, 22, 24, 26, 28, 34, 36, 38, 40, 42, 44, 46, 52, 54, 56, 58, 62, 64 w/ 15 SP + 20 holes				DEPTH INTERVAL			
				AMOUNT AND KIND MATERIAL USED			

33. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. 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.)	

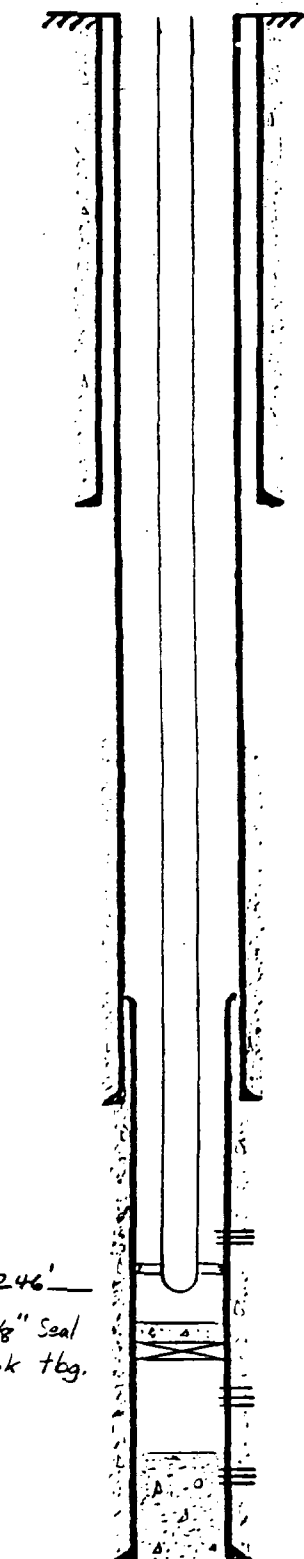
34. Disposition of Gas (Sold, used for fuel, vented, etc.)	Test Witnessed By

35. List of Attachments

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 _____ TITLE _____ DATE _____ 30

FIELD <u>Vacuum Glorieta</u>	OPERATOR <u>Mobil Oil Corp.</u>	DATE <u>5-11-76</u>
LEASE <u>Bridges State</u>	WELL No <u>58</u>	LOCATION <u>M-24-17S-34E</u>



10³/₄ " casing set at 830 ' with 250 sx of N.A. cement
Hole size 12¹/₄ " cement circ.

2635 ' Calc. cement top

4025 ' Liner top

7 " casing set at 4245 ' with 220 sx of N.A. cement
Hole size 8³/₄ "

Glorieta Perfs 6016'-6064'
6,147 ' Guiberson tbg. anchor

6,268 ' PBTD
6,337 ' CIBP w/10 sx cmt

Blinbry Perfs 6407'-6,571'

Blinbry Perfs 6667'-6,747' Squeezed w/cmt plug to 6,623'

5 " liner set at 6800 ' with 225 sx of Incor 4% gel +
Total Depth 6800 ' Hole size 6¹/₄ " Incor Neat cement
cement circ.

Salt Water Disposal Application
Bridges State Well No. 511
Section 23, T-17-S, R-34-E
Vacuum Grayburg-San Andres Field
Lea County, New Mexico

Wells in Area of Review
Perforating & Cementing Information

Operator MOBILE PRODUCING TX & N.M., INC.

Well Name & Number BRIDGES STATE #58 VACUUM GLORIETA

BLUEBRY - SQZD FOLLOWING PERFS w/ CMT PLUG - 6667-6749

SQZD 6407-6571

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Form C-105
Revised 11-1-68

NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease
State ☒ Fee ☐

5. State Oil & Gas Lease No.

7. Unit Agreement Name

8. Farm or Lease Name

Bridges State

9. Well No.

105

10. Field and Pool, or Wildcat

*San Andres
Vacuum Chambers*

12. County

Lea

1a. TYPE OF WELL

OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER *WTW*

b. TYPE OF COMPLETION

NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER

2. Name of Operator

Mobile Producing TX & N.M. Inc.

3. Address of Operator

Box 633 Midland, Tx 79702

4. Location of Well

UNIT LETTER *A* LOCATED *660* FEET FROM THE *north* LINE AND *500* FEET FROM

THE *east* LINE OF SEC. *26* TWP. *17N* RGE. *34E*

15. Date Spudded

3-18-65

16. Date T.D. Reached

4-5-65

17. Date Compl. (Ready to Prod.)

18. Elevations (DF, RKB, RT, GR, etc.)

4010 GR

19. Elev. Casinghead

20. Total Depth

6150

21. Plug Back T.D.

5958

22. If Multiple Compl., How Many

23. Intervals Drilled By

Rotary Tools

Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name

4448-4816 SAN ANTONIO

25. Was Directional Survey Made

26. Type Electric and Other Logs Run

27. Was Well Cored

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<i>8 5/8"</i>	<i>24</i>	<i>1516</i>	<i>12 3/4</i>	<i>300 x (CIRC)</i>	
<i>4 1/2"</i>	<i>9.5#</i>	<i>6150</i>	<i>7 7/8</i>	<i>1675 x (CIRC)</i>	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					<i>2 3/8</i>	<i>4294</i>	<i>4294</i>

30. TUBING RECORD

31. Perforation Record (Interval, size and number)

4448, 54, 61, 68, 72, 34, 39, 4507, 09, 15, 19, 21, 23, 4533, 36, 40, 42, 80, 83, 85, 89, 93, 4605, 18, 4722, 25, 29, 71, + 4773 w/ 13SPF + 29 holes

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. 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.)

Test Witnessed By

35. List of Attachments

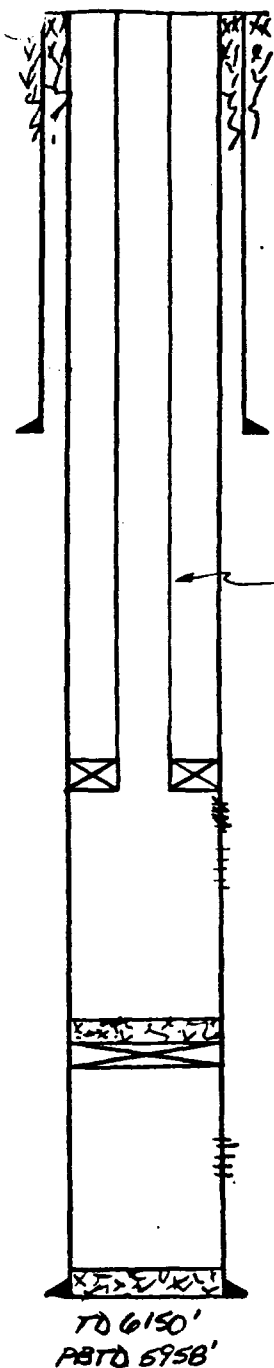
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED

TITLE

DATE

33

LOCATION A-226-175-34E COUNTY LEA STATE NMSIGNED W.T. BURNETTGL 4017'
DF _____
KB 4027'
ZERO _____

— 8 3/8", 24#, J-55 CSG SET @ 1516' w/ 850 SX INCORP 4% GEL + 50 SX NEAT w/ 1/4" FLOCELE/SX + 2% HAS. CIRC.

← 138 JTS OF 2 3/8" CL TBG

— 4 1/2" PC BAKER AD-1 TENSION T.F. SET @ 4294' w/ 10 PTS T
— 6/SA PERFS: 4361 - 4773' SET @ 200 SX CMT. RESOZ'D w/ 200 SX CMT 8/72.
— 6/SA PERFS: 4448 - 4816' CA

— 4 1/2" BAKER CIBP SET @ 6000'. CAPPED w/ 42' CMT. TOC @ 5958'

— GLOR PERFS: 6044 - 6096' CA (32 HOLES)

— 4 1/2", 9.5#, J-55 CSG SET @ 6150' w/ 1675 SX TLW + 100 SX NEAT. CIRC.

TO 6150'
PBTD 5958'

Salt Water Disposal Application
Bridges State Well No. 511
Section 23, T-17-S, R-34-E
Vacuum Grayburg-San Andres Field
Lea County, New Mexico

Wells in Area of Review
Perforating & Cementing Information

Operator MOBIL PRODUCING TX + N.M., INC.

Well Name & Number BRIDGES STATE #105 W1W1

GLORIETA PERFS - 6044 - 6096 (32 holes) w/

CIRP @ 6000 + CMT CAP TO 5958

SAN ANDRES PERFS - 4361 - 4773 SQZD w/ 200 SX CMT +

RE SQZD w/ 200 SX (8/72)

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Form C-105
Revised 11-68

NEW MEXICO OIL CONSERVATION COMMISSION 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 WIW

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

7. Unit Agreement Name

8. Farm or Lease Name Unit

9. Well No. 117

2. Name of Operator

3. Address of Operator
MOBILE PRODUCING TEXAS & NEW MEXICO, INC

4. Location of Well
P.O. Box 1633, MIDLAND, TX 79702

10. Field and Pool, or Wildcat

Tacum, North-Gib

UNIT LETTER P LOCATED 660 FEET FROM THE S LINE AND 460 FEET FROM

THE E LINE OF SEC. 23 TWP. 128 RGE. 34E N.M.P.M.

11. County

Lea

15. Date Spudded 7-30-66 16. Date T.D. Reached 9-21-66 17. Date Compl. (Ready to Prod.) 18. Elevations (DF, RKB, RT, GR, etc.) 4023 - GL 19. Elev. Casinghead

20. Total Depth 10,414 21. Plug Back T.D. 9495 22. If Multiple Compl., How Many 23. Intervals Drilled By Rotary Tools Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name 8445 - 8497 - A60 25. Was Directional Survey Made

26. Type Electric and Other Logs Run 27. Was Well Cored

CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<u>13 3/8"</u>	<u>8</u>	<u>366</u>		<u>350 SX TAPER WT. + 22 1/2' (CIRC)</u>	
<u>9 5/8"</u>	<u>40</u>	<u>5000'</u>	<u>12 1/4"</u>	<u>2100 SX TAPER 6 3/4 GEL + 100 SX 1 1/2" WT. (TOC 765)</u>	
<u>7"</u>	<u>23*</u>	<u>10414</u>	<u>8 3/4"</u>	<u>1275 SX TAPER 4 1/2 GEL + 100 SX 1 1/2" WT. (CIRC)</u>	

LINER RECORD					TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
<u>7"</u>	<u>4710</u>	<u>10414</u>	<u>1375</u>		<u>2 3/8</u>	<u>8400</u>	<u>8377</u>

31. Perforation Record (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
<u>8445, 49, 51, 55-57, 63, 79-84, 89-91, 93, 95-97 w/ 235FF + 40 HOLES</u>				DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

33. PRODUCTION
Date First Production Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. 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.) Test Witnessed By

35. List of Attachments

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 TITLE DATE

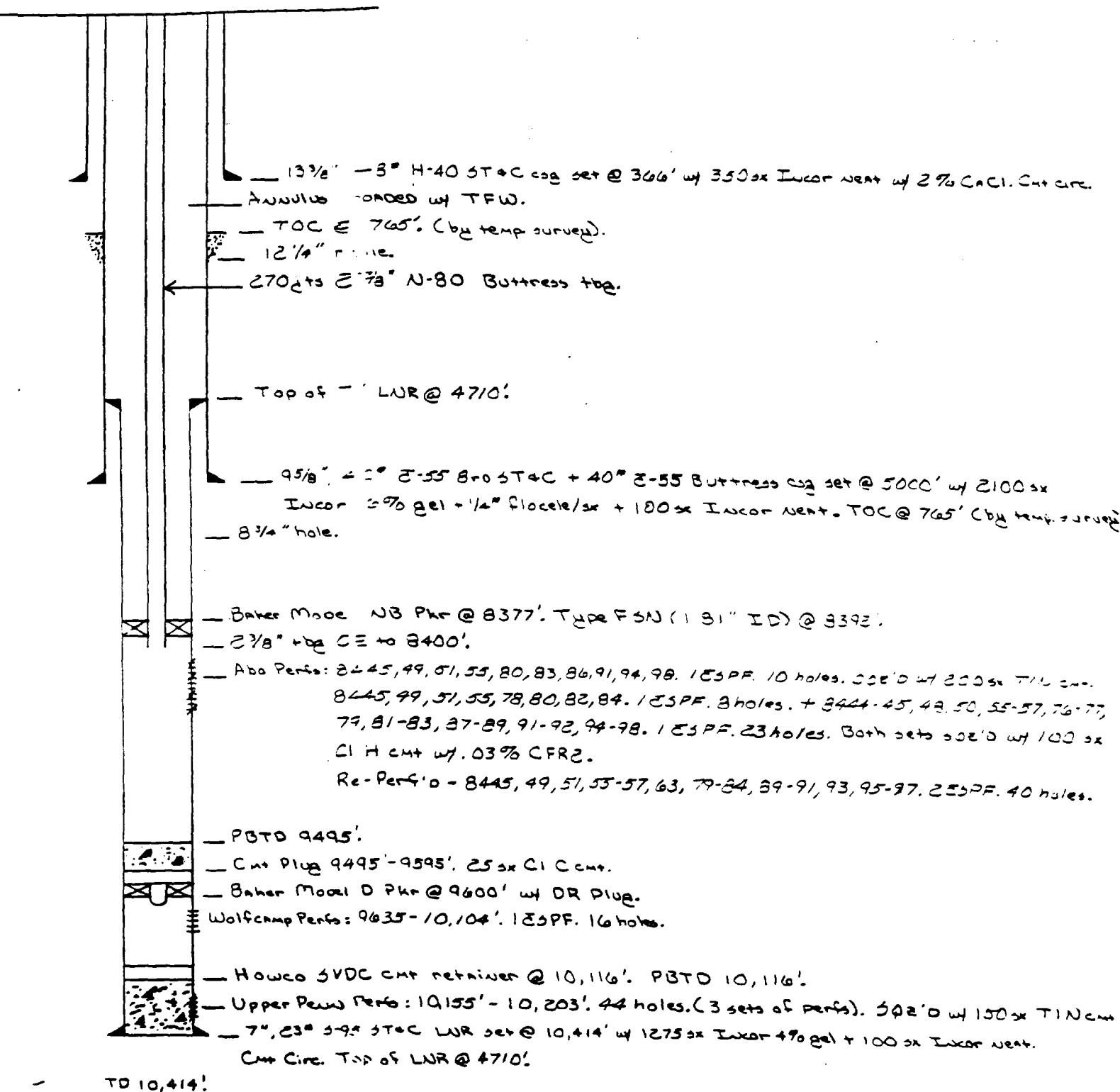
36

DATE 3-23-83 WELL NO. 117 LEASE No. Vacuum Abu Unit FIELD Vacuum Abu North

LOCATION P-23-173-34E
660' FSL and 46C FEL

SIGNED M. W. DEER

G.L. 4023'
D.F. 4035'
K.B. 4036'
ZERO 12' AGL



Salt Water Disposal Application
Bridges State Well No. 511
Section 23, T-17-S, R-34-E
Vacuum Grayburg-San Andres Field
Lea County, New Mexico

Wells in Area of Review
Perforating & Cementing Information

Operator MOBILE PRODUCING TX - N.M., INC

Well Name & Number NVAU # 117

UPPER PENAL PERFS - SQZD w/ 150 x - 10,155-10,203 (44 holes)

WOLF CAMP PERFS - BAKER MODEL D PER @ 9600' w/ DR PLUG -

9635 - 10,104 1 JSPP + 16 HOLES

Abn PERFS - 8445, 49, 51, 55, 80, 83, 86, 91, 94, 98 10 holes - sqz w/ 200 sx

8445, 49, 51, 55, 73, 75, 82, 94 - 8 holes + 8344-45,

18, 50, 55-57, 76-77, 79, 81-83, 87-89, 91-92, 94-98

(23 holes) BOTH SETS SQZD w/ 200 sx.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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5a. Indicate Type of Lease
State ☒ Fee ☐

5. State Oil & Gas Lease No.

a. TYPE OF WELL

OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER WIW

b. TYPE OF COMPLETION

NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESV. ☐ OTHER ☐

c. Name of Operator

MOBIL PRODUCING TX & N.M., Inc.

d. Address of Operator

Box 633 MIDLAND, TX 79702

e. Location of Well

WIT LETTER M LOCATED 560 FEET FROM THE N LINE AND 600 FEET FROMNE 5 LINE OF SEC. 24 TWP. 17S RGE. 34E NMPM15. Date Spudded 6-28-68 16. Date T.D. Reached 7-8-68 17. Date Compl. (Ready to Prod.) 18. Elevations (DF, RKB, RT, GR, etc.) 19. Elev. Casinghead20. Total Depth 4850 21. Plug Back T.D. 4820 22. If Multiple Compl., How Many 23. Intervals Drilled By Rotary Tools Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name

4484-4785 GRAYBURG/SAN ANTONIO

25. Was Directional Survey Made

26. Type Electric and Other Logs Run

27. Was Well Cored

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<u>8 5/8</u>	<u>24</u>	<u>1605</u>	<u>11</u>	<u>800x (C.R.C.)</u>	
<u>5 1/2</u>	<u>15.5</u>	<u>4848</u>	<u>7 7/8</u>	<u>1400x (C.R.C.)</u>	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
<u>2 3/8</u>	<u>4407</u>	<u>4407</u>

31. Perforation Record (Interval, size and number)

4484, 42, 34, 36, 38, 4500, 03, 05, 08, 12, 16, 20, 23, 29,
4532, 36, 39, 57, 59 + 4735, 39, 75, 76, 79, 80, + 4785
W/ 25SPF + 52 holes

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

33. PRODUCTION

Date First Production Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. 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.)

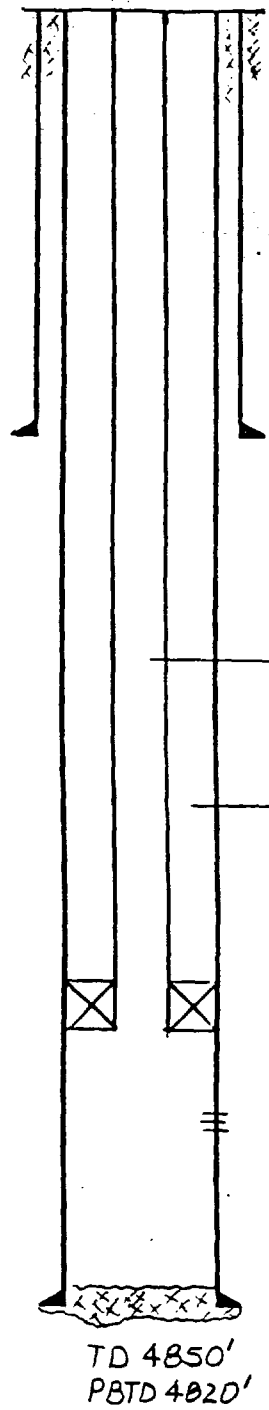
Test Witnessed By

35. List of Attachments

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 _____ TITLE _____ DATE _____

39



1605' 8 5/8" 32# CSG 700 SX INCOR 4% GEL + 100 SX
INCOR NEAT W/ 2% CaCl2 CIRC

144 JTS. 2 3/8" BRO DUOLINED TBG

75 BI FRESH WATER W/ 50 GAL CHAMPION AD-54

4407' GUIB UNI-PACKER I (SHORTY TENSION) SET W/ 11 PTS

G/SA PERFS 4484, 92, 94, 96, 98, 4500, 03, 05, 08, 12, 16, 20, 23, 29
4532, 36, 39, 57, & 59 + 4735, 38, 75, 76, 79 80 & 4785
W/ 2 SSPF (52 TOTAL HOLES)

4848' 5 1/2" 15.5# J-55 CSG W/ 1100 SX TILW + 300 SX
INCOR. NEAT CIRC.

TD 4850'
PBTD 4020'

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

7. Unit Agreement Name

8. Farm or Lease Name
<i>North Tatum Abo</i>

9. Well No.
<i>137</i>

10. Field and Pool, or Wildcat
<i>Tatum North Abo</i>

12. County
<i>Lea</i>

15. Date Spudded
<i>6-13-70</i>

16. Date T.D. Reached
<i>7-6-70</i>

17. Date Compl. (Ready to Prod.)
<i>4033 GR</i>

18. Elevations (DF, RKB, RT, GR, etc.)
<i>4033 GR</i>

19. Elev. Casinghead

20. Total Depth
<i>8700</i>

21. Plug Back T.D.
<i>8600</i>

22. (If Multiple Compl., How Many)
<i>—</i>

23. Intervals Drilled By
<i>Rotary Tools</i>

24. Producing Interval(s), of this completion - Top, Bottom, Name
<i>8481-8525 VACUUM Abo, NORTH</i>

25. Was Directional Survey Made

26. Type Electric and Other Logs Run

27. Was Well Cored

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

29. LINER RECORD

30. TUBING RECORD

31. Perforation Record (Interval, size and number)
<i>8481-83, 89, 95, 97, 8504-09, 13, 15, 19, 23, + 8525 (2JSPF - 24 HOLES)</i>

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

33. PRODUCTION

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

35. List of Attachments

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 _____ TITLE _____ DATE _____

Mobil Producing Texas & New Mexico Inc.
Proposed Water Injection Well
North Vacuum Abo Field
Lea County, New Mexico

Well Data

- III A. 1. North Vacuum Abo Unit #137
660' FNL & 2130' FEL, Unit B,
Sec. 26, 17-S, 34-E
2. 8-5/8" @ 1655' w/1100 sx circ.
5-1/2" @ 8700' w/2900 sx circ.
TOC 2620 (Bond log)
3. 2-3/8" N-80 Buttress tubing
4. Baker Model NB Packer @ 8550'
- B. 1. Abo
2. 8481'-8525 perforated
3. Originally drilled for production
4. None
5. Next higher formation, Blinbry; next
lower formation Wolfcamp
- VII 1. Maximum 600 BBL/day/well, avg. 250 BBL/day/well
2. Closed system
3. Maximum pressure 4350 psi, avg. 4150 psi
4. Ogallala water will be injected because of the
adverse affects of produced water on the tight
formation of the Abo zone.

DATE 8-2-85 WELL NO. 137 LEASE NVAK FIELD Vacuum Abu North

LOCATION B-26-17S-34E

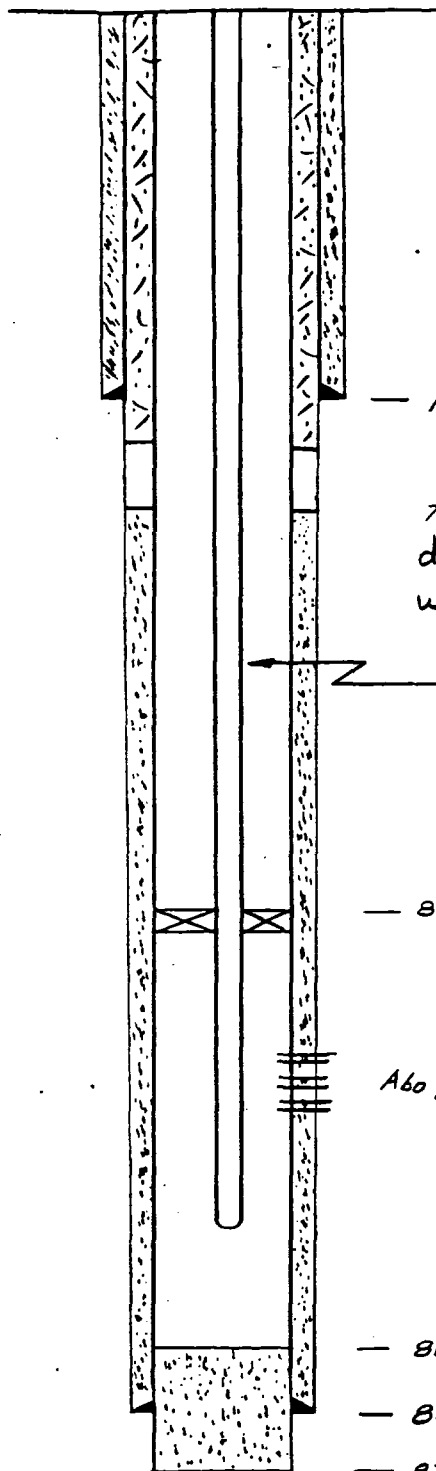
SIGNED MPMaurin

G.L. 4022

D.F. 4036

K.B. 4037

ZERO 15' AG



Current

— 1655' 8 $\frac{3}{8}$ " 23" csg set w/ Class A cmt w/ 8% gel + 200 sx
Class A neat, all cmt contained 2% CaCl. cmt circ. 12 $\frac{1}{4}$ " hole

TOC @ 2620' (Bond Log) 900 sx cmt sg'd
down annulus. By temp survey, cmt
went into formation from 1760' to 1655'.

— 64 jts 2 $\frac{7}{8}$ " + 212 jts 2 $\frac{7}{8}$ " } (7-1-82)
SN @ 8564

— 8377' Baker A-3 Loc Set Pkr (10-25-83)

Abc parts: 8481, 83, 89, 95, 97, 8504, 09, 13, 15, 19, 23, + 8525
2 JSPF, 24 holes

— 8600' PBTD

— 8690' 5 $\frac{1}{2}$ ", 17" + 15.5" Bnd csg, 271 jts set w/ 2900 sx

— 8700 TD Trinity Lite-Wate cmt, $\frac{1}{4}$ " Floccul/sx in 1 $\frac{1}{2}$ " 1000 sx
+ 200 sx Class C Neat lost returns @ start of displ,
stopped plug after 32 bbl of displ.
cemented down 8 $\frac{3}{8}$ " csg w/ 900 sx Incor Neat cmt.

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

7. Unit Agreement Name

8. Farm or Lease Name

9. Well No.

10. Field and Pool, or Wildcat

12. County

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Casinghead
------------------	-----------------------	----------------------------------	--	----------------------

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

24. Producing Interval(s), of this completion - Top, Bottom, Name	25. Was Directional Survey Made
---	---------------------------------

26. Type Electric and Other Logs Run	27. Was Well Cared
--------------------------------------	--------------------

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

29. LINER RECORD	30. TUBING RECORD
------------------	-------------------

31. Perforation Record (Interval, size and number)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
--	--

33. PRODUCTION

34. Disposition of Gas (Sold, used for fuel, vented, etc.)	Test Witnessed By
--	-------------------

35. List of Attachments

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	TITLE	DATE
--------	-------	------

44

Mobil Producing Texas & New Mexico Inc.
Proposed Water Injection Well
North Vacuum Abo Field
Lea County, New Mexico

Well Data

- III A. 1. North Vacuum Abo Unit #156
1893' FSL & 1800' FEL, Unit J
Sec. 23, 17-S, 34-E
2. 8-5/8" @ 1680' w/1000 sx circ.
5-1/2" @ 8750' w/3100 sx circ.
3. 2-3/8" N-80 Buttress Tubing
4. Baker Model NB Packer @ 8550'
- B. 1. Abo
2. 8487'-8548' perforated
3. Originally drilled for production
4. After circulating cement and running a Temp.
Survey, it was determined the top of cement was
2610'. In order to circulate to surface,
squeeze holes had to be perforated @ 420',
1175', 2240', & 2603'. (See attached well
sketch.)
5. Next higher formation, Blinbry, next lower
formation Wolfcamp
- VII 1. Maximum 600 BBL/day, avg 250 BBL/day
2. Closed system
3. Maximum pressure 4350 psi, avg. 4150 psi
4. Ogallala water will be injected because of the
adverse affects of produced water on the tight
formation of the Abo zone.

FIELD	Vacuum, Abo North	OPERATOR	Mobil Oil Corp	DATE	5-13-76
LEASE	North Vacuum Abo Unit	WELL NO	156	LOCATION	J. Sec 23 T17S R34E

8 5/8 " casing set at 1680 ' with 1000 sx of cl. H + gel cement
Hole size 12 1/4 " Cement Circ.

Cement Top - 2610' - Temp. Survey

2 3/8" Tubing

Guib. T.A. Catcher 8428'

Abo. Perf. - 8487' - 8548'

PBTD 8725'

5 1/2 " casing set at 8750 ' with 3100 sx of T.W. cement
Total Depth 8750 ' Hole size 7 7/8 "

5-13-76
JHS

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease
State ☒ Fee ☐

5. State Oil & Gas Lease No.

7. Unit Agreement Name

8. Farm or Lease Name

Bridges State

9. Well No.

192

10. Field and Pool, or Wildcat

Andrew Grayburg - Santa Fe

12. County

Socorro

1. TYPE OF WELL

OIL WELL ☒GAS WELL ☐DRY ☐

OTHER

b. TYPE OF COMPLETION

NEW WELL ☐WORK OVER ☐DEEPEN ☐PLUG BACK ☐DIFF. RESVR. ☐

OTHER

Name of Operator

MOBILE PRODUCING TX & N.M., INC.

Address of Operator

Box 633 MIDLAND, TX 79702

Location of Well

WIT LETTER H LOCATED 2630 FEET FROM THE N LINE AND 1310 FEET FROM

NE E LINE OF SEC. 23 TWP. 17S RGE. 34E NMPM

5. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Casinghead
-----------------	-----------------------	----------------------------------	--	----------------------

11-19-84

11-28-84

4025-62

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

4761

4682

24. Producing Interval(s), of this completion - Top, Bottom, Name

4538 - 4578 GRAYBURG / SAN ANTONIO

25. Was Directional Survey Made

26. Type Electric and Other Logs Run

27. Was Well Cored

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24	1200	12 3/4	1400 x (Circ)	
5 1/2	14	4761	7 3/8	1600 x (7 x 8" 890)	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8	4434	4434

31. Perforation Record (Interval, size and number)

4538 - 4551, 54-62, + 4566-4578
13SPF + 35 holes

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)	Well Status (Prod. 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.)

Test Witnessed By

35. List of Attachments

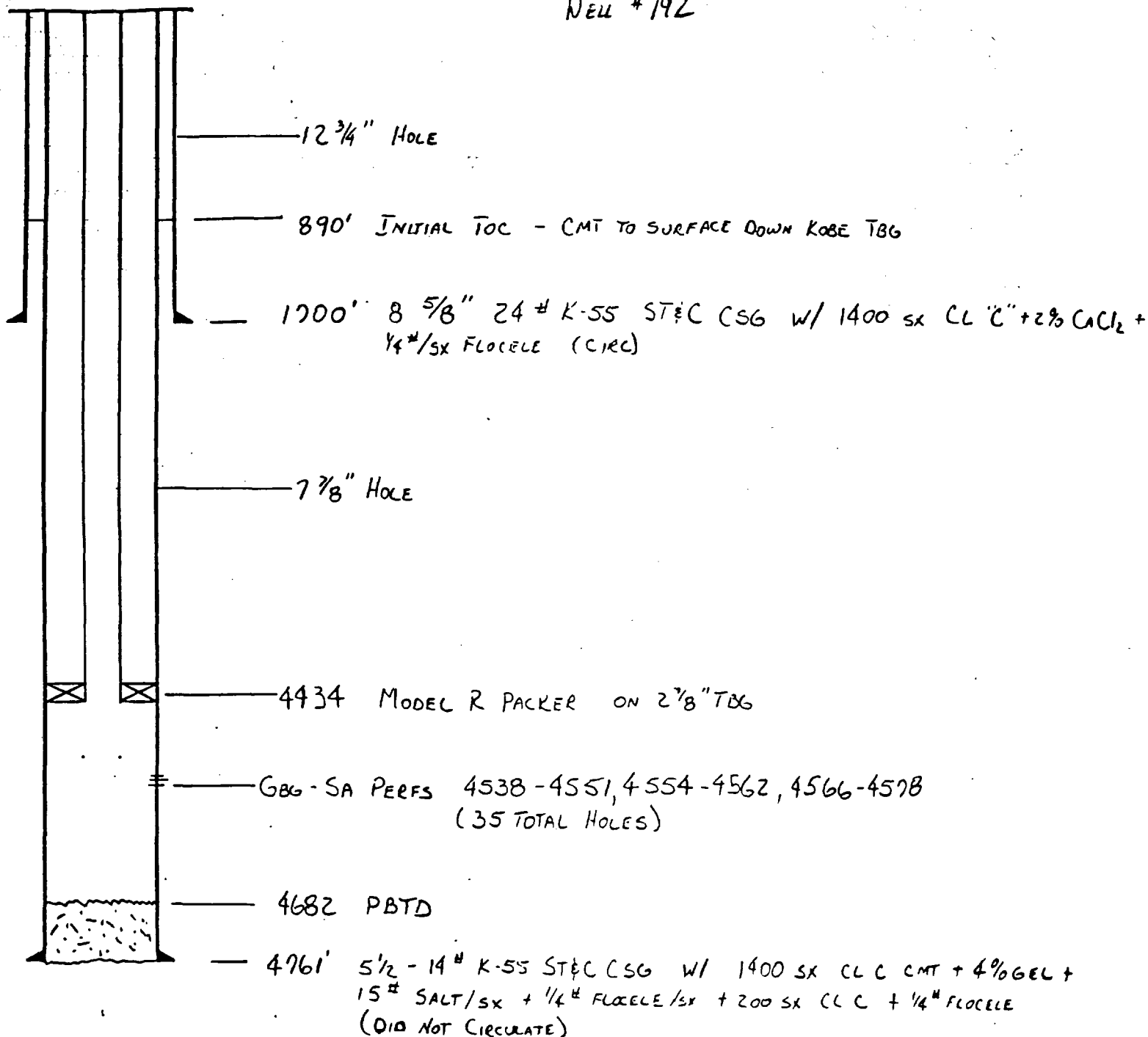
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED _____ TITLE _____ DATE _____

LOCATION H-23 T-17S R-34E COUNTY LEA STATE NEW MEXICO
2630 FNL, 1310 FEL SIGNED W L REEVES

GL 4025
DF 4037
KB 4038
ZERO 13' AG

Well #192



OIL CONSERVATION DIVISION

P. O. BOX 2088
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WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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OPERATOR	

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

7. Unit Agreement Name

8. Farm or Lease Name

9. Well No.

10. Field and Pool, or Wadch

12. County

19. Elev. Casinghead

25. Was Directional Survey Made

27. Was Well Cored

1a. TYPE OF WELL

b. TYPE OF COMPLETION

2. Name of Operator

3. Address of Operator

4. Location of Well

UNIT LETTER P LOCATED 1310 FEET FROM THE 5 LINE AND 10 FEET FROM

THE E LINE OF SEC. 23 TWP. 178 RGE. 34E NMPM

15. Date Spudded 5-12-85 16. Date T.D. Reached 5-19-85 17. Date Compl. (Ready to Prod.)

20. Total Depth 4800 21. Plug Back T.D. 4760 22. If Multiple Compl., How Many

24. Producing Interval(s), of this completion - Top, Bottom, Name

26. Type Electric and Other Logs Run

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	COND PIPE	35	20"	DRIVEN	
8 5/8	24 #	1720	12 1/4	1400 x C (circ)	
5 1/2	14 #	4860	7 7/8	1030 x C (circ)	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8	4418	4448

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4514-23, 25-30, 33-39, 46-52, 54-70 w/ 15SPF + 47 holes	

33. PRODUCTION

Date First Production Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. 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.) Test Witnessed By

35. List of Attachments

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 TITLE DATE

LOCATION: S-23
T-17S
R-34E

Well # 199

KB: 4036'

GL: 4023'

SPUD DATE: 5/12/85

13 3/8"
CMT CIRC

35'

8 5/8"
24#, K 55
1400 SX
CLASS C
CIRC.

1720'



LYNES ECP PKR
4245'

SAN ANDRES PERFS

4514' - 4570'

47 HOLES

5 1/2"
14#, K 55
1130 SX CLAGS
C W/100 SCFN2
PER EEL

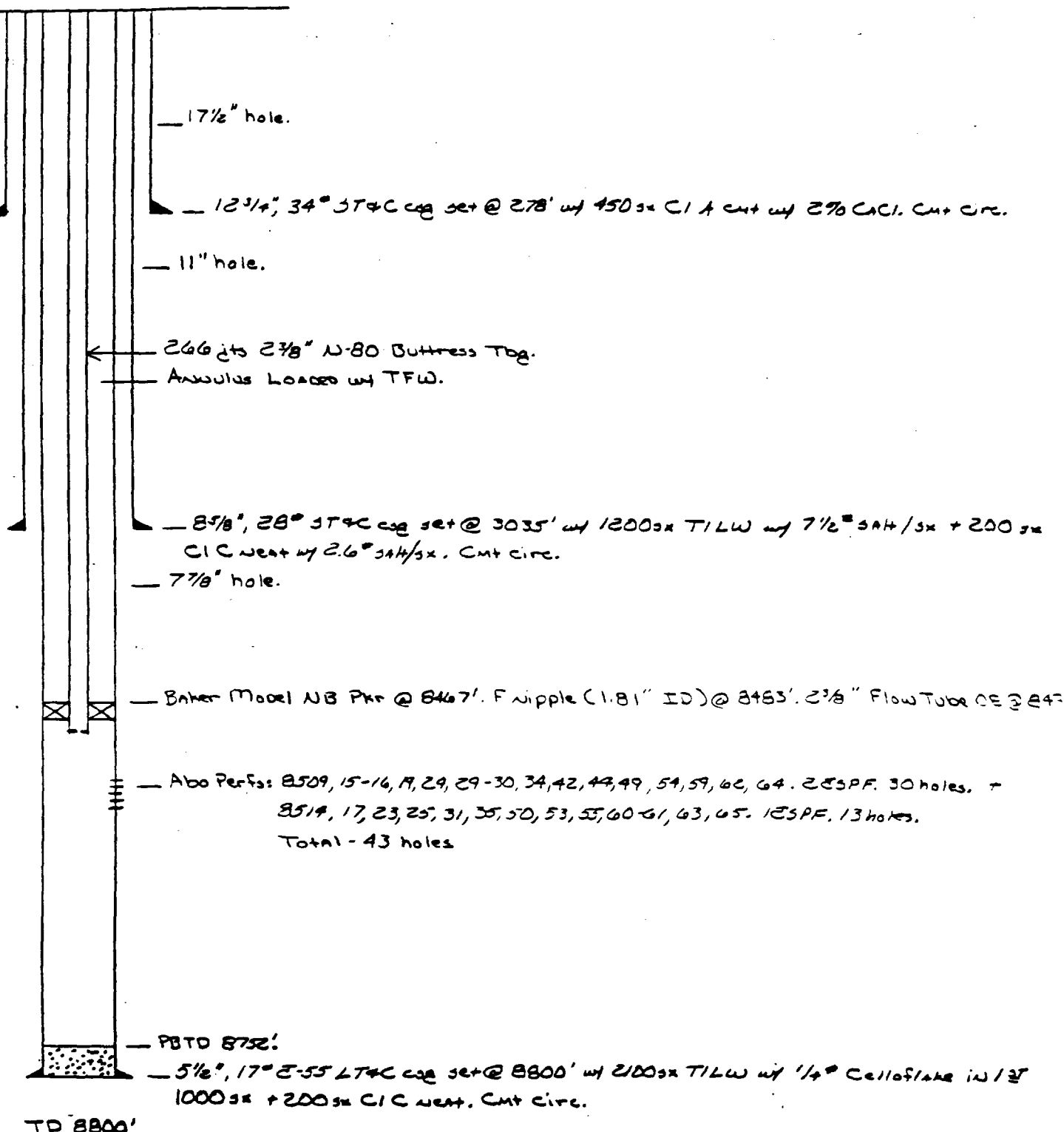
4800'

DATE 4-4-83 WELL NO. 213 LEASE No Vacuum Ad Unit FIELD Vacuum Ad Unit

LOCATION 11-23-175-34E
460' FSL AND 1980' FWL
Lea County, New Mexico

SIGNED M. W. Deeg

G.L. 4028'
D.F. 4042'
K.B. 4044'
ZERO 16' AGL



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**NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

Form C-105
Revised 11-1-83

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

Name of Operator
Mobil Producing TX. & N.M. Inc.
 Address of Operator
Nine Greenway Plaza, Suite 2700, Houston, Texas 77046
 Location of Well

5. Indicate Type of Lease
 State ☒ Fed ☐
 5. State Oil & Gas Lease No.
B-1520

7. Oil & Gas Lease Name
North Vacuum Abo Unit

8. Form or Lease Name

9. Well No.
234

10. Field and Pool, or Wildcat
Vacuum Abo, North

1. LETTER **I** LOCATED **1980** FEET FROM THE **South** LINE AND **545** FEET FROM
East LINE OF SEC. **23** TWP. **17S** RGE. **34E** NMPM

11. County
Lea

12. Date Spudded **11/17/83** 13. Date T.D. Reached **12/13/83** 14. Date Compl. (Ready to Prod.) **02/02/84** 15. Elevations (DF, RKB, RT, GR, etc.) **4024 GR** 16. Elev. Casinghead **4024 GR**

17. Total Depth **8700** 18. Plug Back T.D. **8680** 19. If Multiple Compl., How Many **23** 20. Intervals Drilled By **Rotary Tools 0-8700** 21. Cable Tools

22. Producing Interval(s), of this completion - Top, Bottom, Name
8470-8622 Abo 23. Was Directional Survey Made **No**

24. Type Electric and Other Logs Run
Dual Spaced Neutron, Compensated Acoustic Velocity, Dual Induction Guard 25. Was Well Cored **No**

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./ FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	48#	400	17-1/2	400x C	
8-5/8	32#	5000	12-1/4	5100x C	
			7-7/8		

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
5-1/2	4174	8699	1325		2-7/8	OPMA @ 8670	SN @ 8634

TUBING RECORD

Perforation Record (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
Perf w/1JSPF @ 8576-79, 8590-94, 8599-8602, 8604-06, 8608-10, 8619-22 (23 holes)				DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
Perf w/1JSPF @ 8470-72, 8479-81, 8484-88, 8496-8505, 8510-13, 8519-21, 8523-27 (33 holes)				8675-8622	Acidize w/5600 gals 15% NEA
					Fe
				8470-8527	Acidize w/6600 gals 15% NEA
					Fe

PRODUCTION

1. First Production **02/02/84** 2. Production Method (Flowing, gas lift, pumping - Size and type pump) **2-1/2 x 1-3/4 x 24 pump** 3. Well Status (Prod. or Shut-in) **Producing**

Date of Test	Hours Tested	Choke Size	Prod'n. Per Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
02/14/84	24			166	143	94	860
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
						37.6 @ 60	

4. Disposition of Gas (Sold, used for fuel, vented, etc.) **Sold** 5. Test Witnessed By **T. J. Auld**

6. List of Attachments
Form C-104, Logs, Record of Inclination

7. 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.

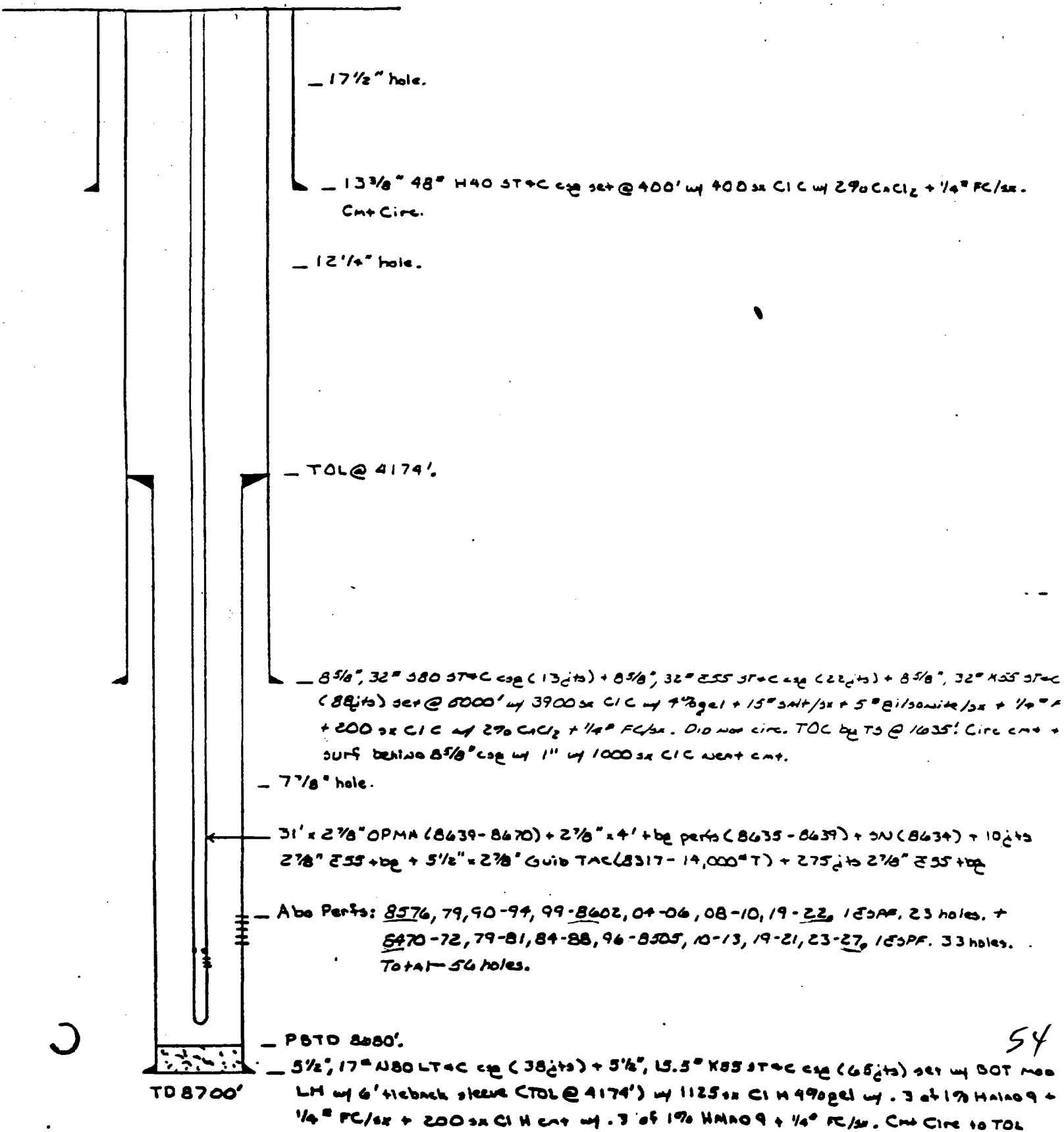
SIGNED Paula W. Collins TITLE Authorized Agent DATE 02/22/84

DATE 3-23-84 WELL 1.234 LEASE No. Vacuum Ar FIELD Vacuum Abn North

LOCATION I-23-172-34E
545' FEL + 1980' FSL
Lea County New Mexico

SIGNED MLJ Dees

G.L. 4024'
D.F. 4035'
K.B. 4036'
ZERO 12' AGL



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease State ☒ Fee ☐
5. State Oil & Gas Lease No.
7. Unit Agreement Name
8. Farm or Lease Name <i>Unit North Vacuum Abo</i>
9. Well No. <i>237</i>
10. Field and Pool, or Wildcat <i>Vacuum, North-Abo</i>
12. County <i>Lea</i>

a. TYPE OF WELL

OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐

b. TYPE OF COMPLETION

NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

c. Name of Operator

MOBILE PRODUCING TX & N.M., INC

d. Address of Operator

Box 633 MIDLAND, TX 79702

e. Location of Well

UNIT LETTER *A* LOCATED *530* FEET FROM THE *N* LINE AND *660* FEET FROMTHE *E* LINE OF SEC. *26* TWP. *17N* RGE. *34E* NMPM15. Date Spudded *10-22-83* 16. Date T.D. Reached *11-12-83* 17. Date Compl. (Ready to Prod.) 18. Elevations (DF, RKB, RT, GR, etc.) *4017 GR* 19. Elev. Casinghead20. Total Depth *8700* 21. Plug Back T.D. *8645* 22. If Multiple Compl., How Many 23. Intervals Drilled By *Rotary Tools* Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name

8425-8584 Abo

25. Was Directional Survey Made

26. Type Electric and Other Logs Run

27. Was Well Cored

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<i>13 3/8</i>	<i>54.5 + 48*</i>	<i>405</i>	<i>17 1/2</i>	<i>400x C</i>	
<i>8 5/8</i>	<i>32*</i>	<i>4918</i>	<i>12 1/4</i>	<i>3825x C</i>	
			<i>7 7/8</i>		

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
<i>5 1/2</i>	<i>4182</i>	<i>8699</i>	<i>1200x H</i>		<i>2 7/8</i>	<i>OPMA @ 9623</i>	<i>SD @ 8588</i>

31. Perforation Record (Interval, size and number)

8540-43, 49-52, 62-65, 71-73, 8576-84
1 JSPE + 24 holes
8425-30, 60-62, 8482-31
1 JSPE - 19 holes

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

DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)					Well Status (Prod. 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.)

Test Witnessed By

35. List of Attachments

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 _____ TITLE _____ DATE _____

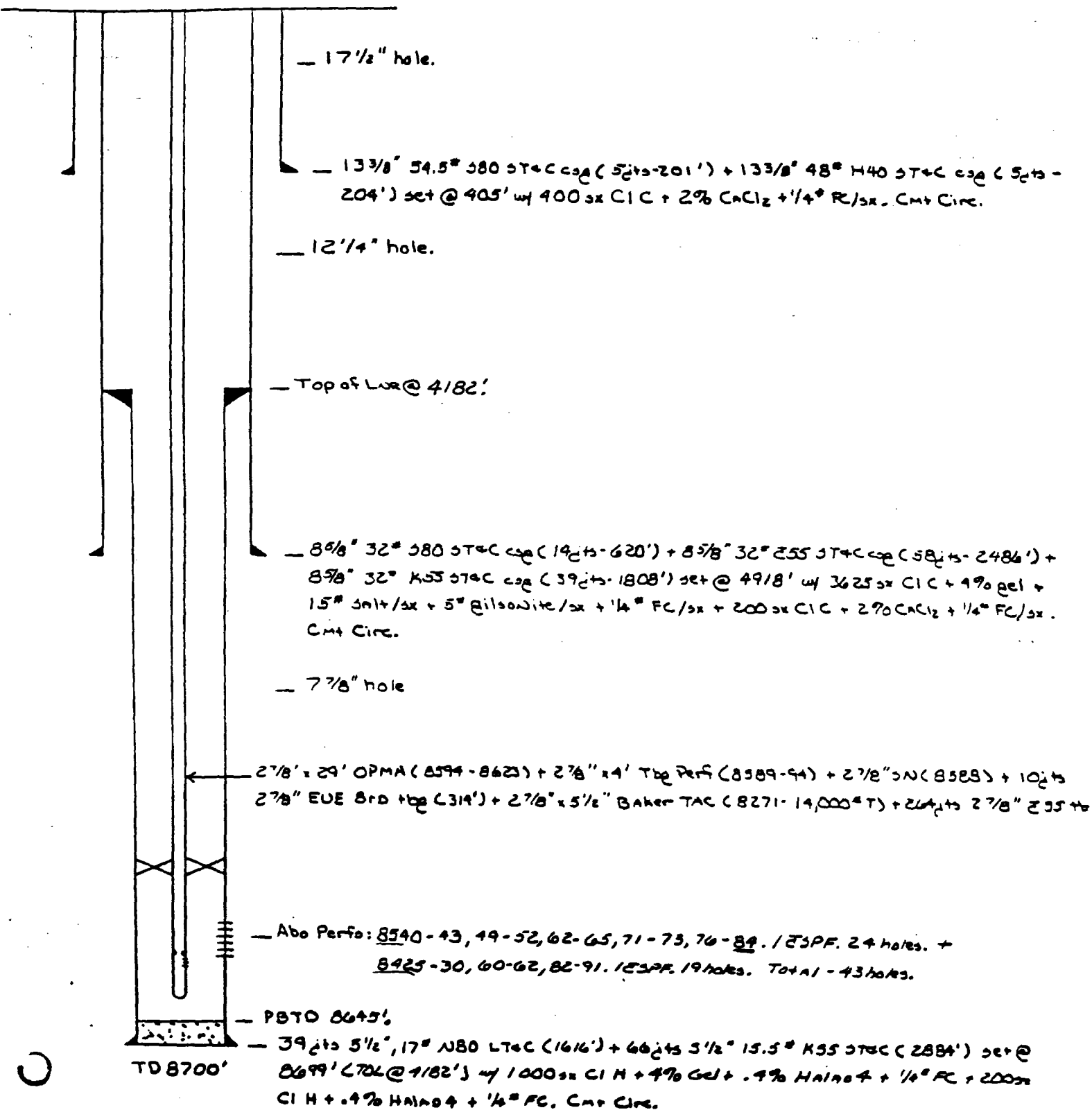
55

DATE 3-23-84 WELL J. 237 LEASE No. Vacuum L. Unit FIELD Vacuum Area North

LOCATION A-26-T175-R34E
530' FNL + 660' FEL
Lea Co., New Mexico

SIGNED M. J. DEER

G.L. 4026'
D.F. 4035'
K.B. 4036'
ZERO 10' AGL



OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

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OPERATOR	

5a. Indicate Type of Lease
State ☒ Fee ☐

5. State Oil & Gas Lease No.

1a. TYPE OF WELL

OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER PAH

b. TYPE OF COMPLETION

NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESV. ☐ OTHER

2. Name of Operator

MOBILE PRODUCING TR & L.M., INC

3. Address of Operator

Box 633 MIDLAND, TX 79702

4. Location of Well

UNIT LETTER M LOCATED 780 FEET FROM THE W LINE AND 660 FEET FROM

NE S LINE OF SEC. 24 TWP. 17S RGE. 34E NMPM

15. Date Spudded 9-19-83 16. Date T.D. Reached 10-8-83 17. Date Compl. (Ready to Prod.) 18. Elevations (DF, RKB, RT, GR, etc.) N/A 19. Elev. Casinghead

20. Total Depth 5000 21. Plug Back T.D. - 22. If Multiple Compl., How Many 23. Intervals Drilled By Rotary Tools Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name

NONE

25. Was Directional Survey Made

26. Type Electric and Other Logs Run

27. Was Well Cored

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<u>13 3/8</u>	<u>54.5 #</u>	<u>410</u>	<u>17 1/2</u>	<u>425 x C (C.R.)</u>	
<u>8 5/8</u>	<u>32 #</u>	<u>5000</u>	<u>12 1/4</u>	<u>2303 x (C.R.)</u>	

29. LINER RECORD

30. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET

31. Perforation Record (Interval, size and number)

NONE

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

33. PRODUCTION

Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. 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.)

Test Witnessed By

35. List of Attachments

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 _____ TITLE _____ DATE _____

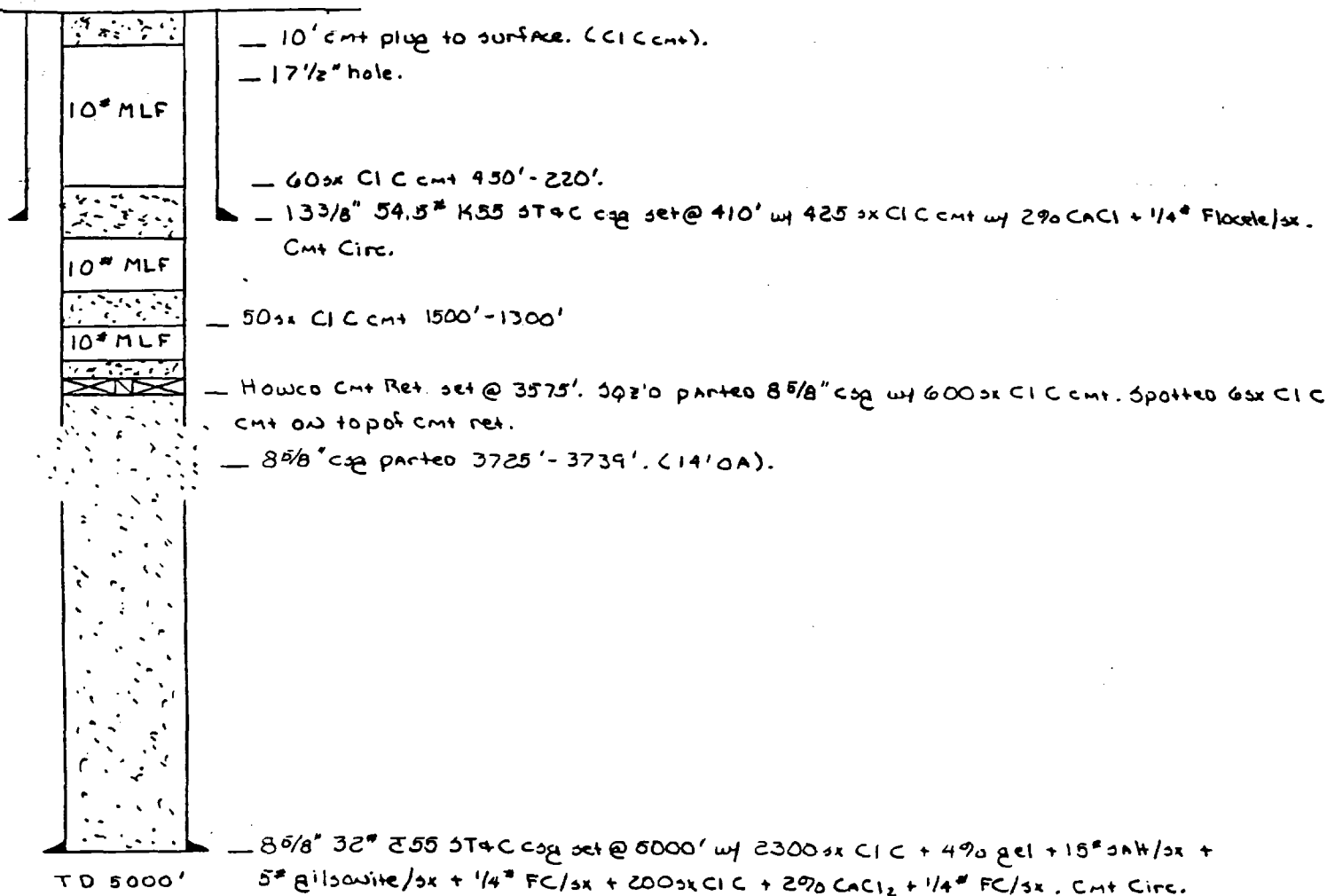
57

DATE 3-23-84 WELL NO. 238 LEASE No. Vacuum Abo Unit FIELD Vacuum Abo North

LOCATION M-24-T175-R34E
780' FWL & 660' FSL
Lea Co., New Mexico

SIGNED M. W. DEER

G.L. N/A
D.F. N/A
K.B. N/A
ZERO N/A



STATE OF NEW MEXICO
OIL AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

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LAND OFFICE	
OPERATOR	

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

1. TYPE OF WELL

OIL WELL ☒GAS WELL ☐DRY ☐

OTHER

2. TYPE OF COMPLETION

NEW WELL ☐WORK OVER ☐DEEPEN ☐PLUG BACK ☐DIFF. RESVR. ☐

OTHER

Name of Operator

MOBILE PRODUCING TX & N.M., INC.

Address of Operator

Box 633 MIDLAND, TX 79702

Location of Well

7. Unit Agreement Name

8. Farm or Lease Name

NORTH VACUUM ABO UNIT

9. Well No.

238A

10. Field and Pool, or Wildcat

VACUUM ABO NORTH

11. LETTER

M

LOCATED

643

FEET FROM THE

5

LINE AND

780

FEET FROM

12. COUNTY

13. DATE SPUDDED

10-9-83

16. DATE T.D. REACHED

11-4-83

17. DATE COMPL. (READY TO PROD.)

18. ELEVATIONS (DF, RKB, RT, GR, etc.)

4014-GR

19. ELEV. CASHINGHEAD

20. TOTAL DEPTH

8700

21. PLUG BACK T.D.

8651

22. IF MULTIPLE COMPL., HOW MANY

23. INTERVALS DRILLED BY

Rotary Tools

Cable Tools

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME

8459-8536 Abo

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED

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	48	400	17 1/2	400x C	
8 5/8	32	5000	12 1/4	3300x C	
			7 7/8		

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
5 1/2	4203	8700	1200x H		2 7/8	OPMA @ 8629	SN @ 8534

30. PERFORATION RECORD (Interval, size and number)

W/ 1554F 8530-36 :
8459-64, 67-79 (19 holes TOTAL)

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

32. PRODUCTION

Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. 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.)	

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

Test Witnessed By

34. List of Attachments

35. 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

TITLE

DATE

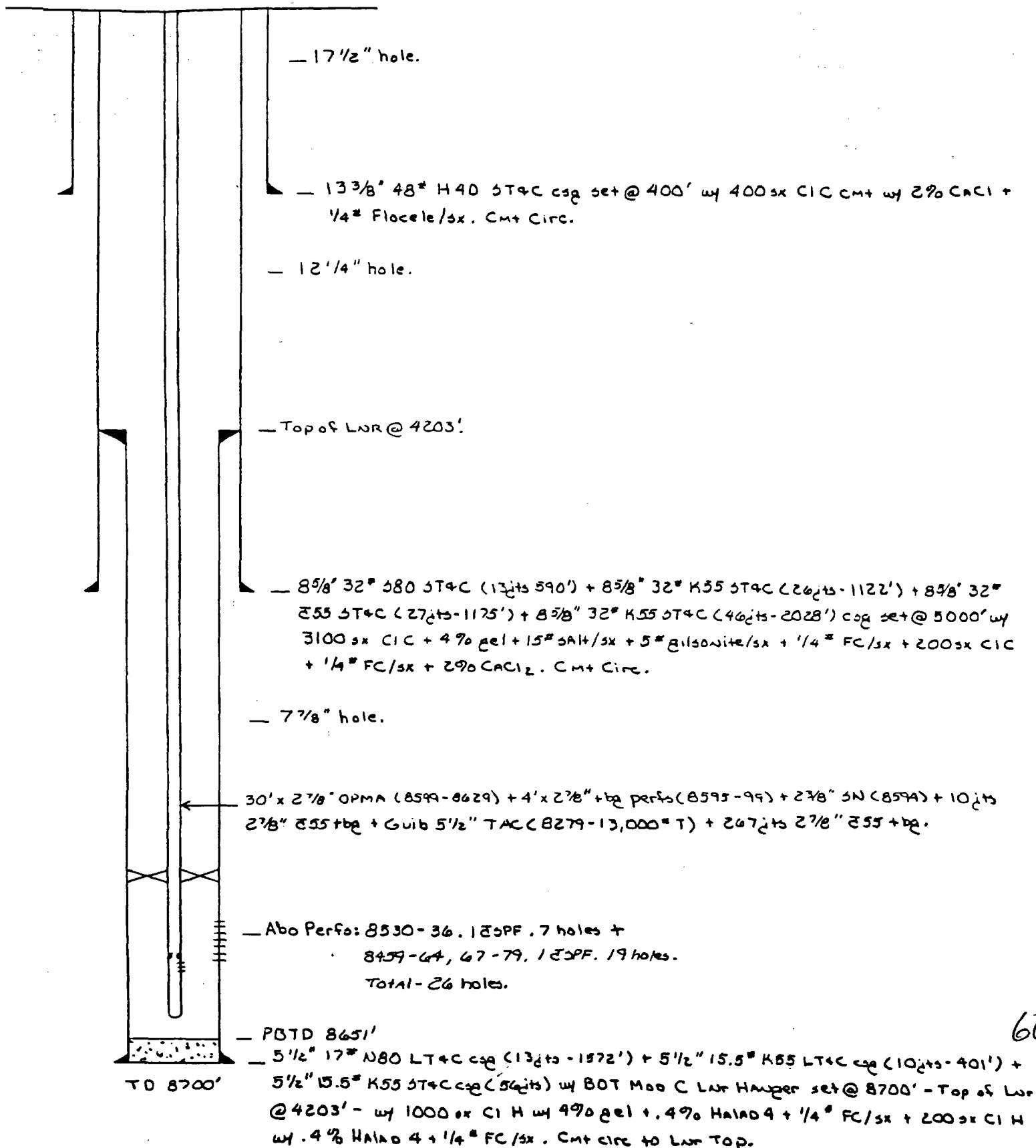
59

DATE 3-23-84 WELL NO. 238-A LEASE No. Vacuum Abo Unit FIELD Vacuum Abo North

LOCATION M-24-T173-R34E
780' FWL + 643' FOL
Lea Co., New Mexico

SIGNED MWD DEER

G.L. 4000'
D.F. 4009'
K.B. 4010'
ZERO 10' AGL



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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LAND OFFICE	
OPERATOR	

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

1. TYPE OF WELL

OIL WELL ☒GAS WELL ☐DRY ☐

OTHER

2. TYPE OF COMPLETION

NEW WELL ☐WORK OVER ☐DEEPEN ☐PLUG BACK ☐DIFF. RESVR. ☐

OTHER

3. Name of Operator

MOBILE PRODUCTION & T&E N.M., INC

4. Address of Operator

Box 633 MIDLAND, TX 79702

5. Location of Well

6. UNIT LETTER

G LOCATED 1809

FEET FROM THE

N

LINE AND

1890

FEET FROM

12. County

THE E LINE OF SEC. 26 TWP. 17S RGE. 34E NMPM

15. Date Spudded

6-6-84

16. Date T.D. Reached

6-29-84

17. Date Compl. (Ready to Prod.)

18. Elevations (DF, RKB, RT, GR, etc.)

4019 GR

19. Elev. Casinghead

20. Total Depth

8700

21. Plug Back T.D.

8655

22. If Multiple Compl., How Many

Rotary Tools

23. Intervals Drilled By

Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name

8472 - 8608 Abo

25. Was Directional Survey Made

26. Type Electric and Other Logs Run

27. Was Well Cored

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	48#	400	17 1/2	400x C (Circ)	
8 5/8	32#	5000	12 1/4	3700x C (Circ)	
			7 3/8		

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
5 1/2	4186	8699	1030	

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8	DFMA 2 8650	SD 2 8615

31. Perforation Record (Interval, size and number)

8564-67, 8600-08 - 15SPF + 13 holes

8472-75, 88-84, 8503-06, 8510-14

15SPF + 20 holes

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)	Well Status (Prod. 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.)

Test Witnessed By

35. List of Attachments

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 _____ TITLE _____ DATE _____

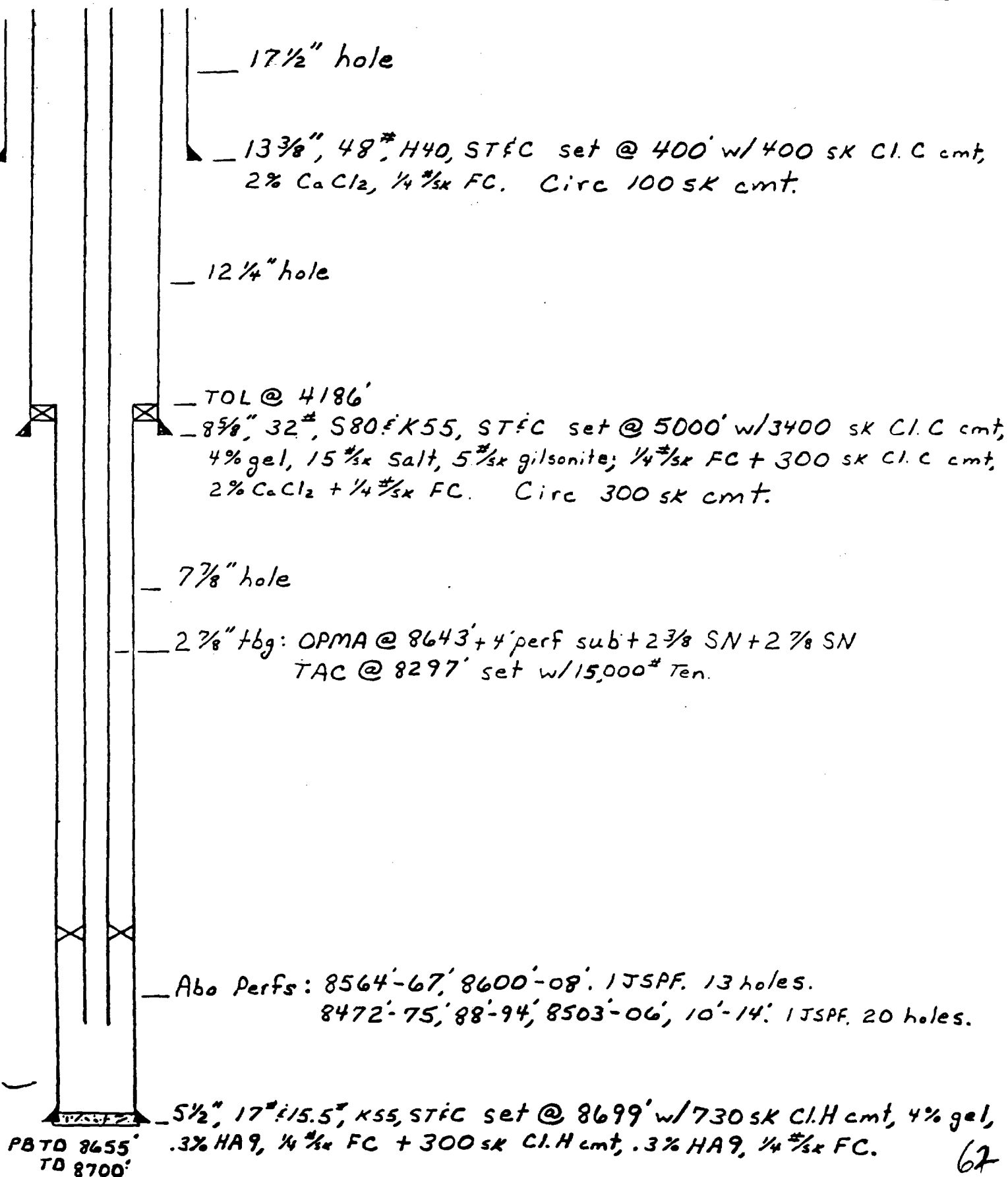
61

DATE 11-27-84 WELL NO. 242 LEASE North uum FIELD Vacuum Abo
Abo Ur. North

LOCATION 1809' FNL & 1890' FEL
Sec. 26, T17S, R34E
Lea County, New Mexico

SIGNED RW Petty

G.L. 4019'
D.F. NA
K.B. NA
ZERO 16' AGL



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AND OFFICE	
OPERATOR	

Form C-104
Revised 11-83

NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG

API #30-025-28586

1. Indicate Type of Lease	
State ☒	Free ☐
2. Lease No. or Lease No.	
B-1520-1	

3. TYPE OF WELL			
OIL WELL ☒	GAS WELL ☐	DRY ☐	OTHER ☐
4. TYPE OF COMPLETION			
NEW WELL ☒	WORK OVER ☐	REOPEN ☐	OTHER ☐

5. Well Name
North Vacuum Abo Unit

6. Name of Operator	
Mobil Producing TX. & N.M. Inc.	
7. Address of Operator	
Nine Greenway Plaza, Suite 2700, Houston, Texas 77046	
8. Location of Well	

9. Well No.
7243

11. LETTER	C	12. LOCATED	657	13. FEET FROM THE	North	14. LINE AND	1839	15. FEET FROM	
16. West									
17. LINE OF SEC. 26									
18. TWP. 17S									
19. RGE. 34E									

10. Field and Pool, or Wildcat
Vacuum Abo, North
20. Locality
Lea

1. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKR, KT, GR, etc.)	19. Elev. Casinghead
3/10/84	3/29/84	5/05/84	4031 GR	4031 GR
2. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	24. Rotary Tools
8700	8695			0-8700

25. Was Directional Survey Made
No

26. Producing Interval(s), of this completion - Top, Bottom, Name	
8494-8672 Abo	

27. Was Well Cored
No

28. Type Electric and Other Logs Run	
Dual Spaced Neutron, Compensated Acoustic Velocity, Dual Induction Guard	

29. Was Well Cored
No

30. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB. FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	48#	400	17-1/2	400x C	
8-5/8	32#	5000	12-1/4	2600x C	
			7-7/8		

31. LINER RECORD					32. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
5-1/2	4153	8699	925		2-7/8	OPMA @ 8692	SN @8674

33. Perforation Record (Interval, size and number)		34. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
Perf w/1JSPF @ 8622-25, 8646-50, 8668-72, (14 holes)		DEPTH INTERVAL	
Perf w/1JSPF @ 8494-8508, 8524-28, 8531-37, 8550-52, 8554-57, 8559-66, 8574-76, (45 holes)		AMOUNT AND KIND MATERIAL USED	
		8622-8672 Acidized w/3500 gals 15% DINE Fe HCl	
		8494-8576 Acidized w/9000 gals 15% NEA Fe	

35. PRODUCTION							
36. Date First Production		37. Production Method (Flowing, gas lift, pumping - Size and type pump)				38. Well Status (Prod. or Shut-in)	
5/05/84		2 x 1-1/2 x 24 pump				producing	
39. Date of Test	40. Hours Tested	41. Choke Size	42. Prod'n. For Test Period	43. Oil - Bbl.	44. Gas - MCF	45. Water - Bbl.	46. Gas - Oil Ratio
5/11/84	24			195	225	66	1150
47. Flow Tubing Press.	48. Casing Pressure	49. Calculated 24-Hour Rate	50. Oil - Bbl.	51. Gas - MCF	52. Water - Bbl.	53. Oil Gravity - API (Corr.)	
						37.5 @ 60	

54. Disposition of Gas (Sold, used for fuel, vented, etc.)	55. Test Witnessed By
Sold	T. J. Auld

56. List of Attachments
Form C-104, Logs, Record of Inclination

57. 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	Paula A. Collins	TITLE	Authorized Agent	DATE	5/16/84
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63

DATE 11-27-84 WELL NO. 243 LEASE North Vacuum FIELD Vacuum Abo
Abo Unit North

LOCATION 1839' FWL & 657' FNL SIGNED R. W. Petty
Sec. 26, T17S, R34E
Lea County, New Mexico

G.L. 4000' EST
D.F. 4016' EST
K.B. 4017' EST
ZERO 17' AGL

— 17½" hole

— 13⅜", 48[#], H40, STFC set @ 400' w/400 sk C.I.C cmt,
2% CaCl₂, ¼[#]/sk FC. Circ 100 sk cmt.

— 12¼" hole

— TOL @ 4153'

— 8⅝", 32[#], S80[#] K55, STFC set @ 5000' w/2300 sk C.I.C cmt,
4% gel, 15[#]/sk Salt, 5[#]/sk gilsonite; ¼[#]/sk FC + 300 sk C.I.C cmt,
2% CaCl₂ + ¼[#]/sk FC. Circ 375 sk cmt.

— 7⅞" hole

— 2⅞" tbg: OPMA @ 8692' + 4' perf sub + 2⅞ SN + 2⅞ SN
TAC @ 8367' set w/12,000[#] Ten.

— Abo Perfs: 8622'-25', 46'-50', 68'-72'. 1 JS PF. 14 holes
8494'-8508', 8524'-28', 31'-37', 50'-52', 54'-57', 59'-66'
8574'-76'. 1 JS PF. 45 holes.

— 5½", 17[#] & 15.5[#], K55, STFC set @ 8699' w/625 sk C.I.H cmt, 4% gel,
.3% HA9, ¼[#]/sk FC + 300 sk C.I.H cmt, .3% HA9, ¼[#]/sk FC.

PBTD 8695'
TD 8700'

64

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NO. OF COPIES RECEIVED	
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OPERATOR	

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

7. Unit Agreement Name

8. Farm or Lease Name

9. Well No.

10. Field and Pool, or Wildcat

11. County

12. County

13. Date Spudded

14. Date T.D. Reached

15. Date Compl. (Ready to Prod.)

16. Elevations (DF, RKB, RT, GR, etc.)
--

17. Elev. Casinghead

18. Total Depth

19. Plug Back T.D.

20. If Multiple Compl., How Many

21. Intervals Drilled By

22. Rotary Tools

23. Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name

25. Was Directional Survey Made

26. Type Electric and Other Logs Run

27. Was Well Cored

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

29. LINER RECORD

30. TUBING RECORD

31. Perforation Record (Interval, size and number)
--

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

33. PRODUCTION

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

35. List of Attachments

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 _____

TITLE _____

DATE _____

65

DATE 11-27-84 v NO. 244 LEASE North uum FIELD Vacuum Abo
Abo Ur. North
LOCATION 1859' FEL 589' FSL SIGNED R. W. Petty G.L. 4000' EST
Sec. 23, T17S, R34E D.F. 4016' EST
Lea County, New Mexico K.B. 4017' EST
ZERO 17' AGL

— 17½" hole

— 13⅜", 48", H40, STFC set @ 422' w/ 400 SK Cl. C cmt,
2% CaCl₂, ¼" FC. Circ 59 SK cmt.

— 12¼" hole

— TOL @ 4175'

— 8⅝", 32", S80' K55, STFC set @ 5000' w/ 2200 SK Cl. C cmt,
4% gel, 15" Salt, 5" gilsonite; ¼" FC + 300 SK Cl. C cmt,
2% CaCl₂ + ¼" FC. Circ 5 SK cmt.

— 7⅞" hole

— 2⅞" tbg: OPMA @ 8650' + 4' perf sub + 2⅞" SN + 2⅞" SN @ 8615',
TAC @ 8296' set w/ 15,000" Ten.

— Abo Perfs: 8544'-47', 56'-61', 82'-85', 8606'-08'. 1 JS PF. 17 holes.
8470'-84', 90'-92', 8508'-12', 14'-17', 23'-31'. 1 JS PF. 34 hole

— 5½", 17" K55, STFC set @ 8699' w/ 700 SK Cl. H cmt, 4% gel,
PB TD 8650' .3% HA9, ¼" FC + 300 SK Cl. H cmt, .3% HA9, ¼" FC.
TD 8700'

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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Form C-105
Revised 11-1-83

5a. Indicate Type of Lease State ☒ Free ☐
5. State or U.S. Lease No. B-1040
7. Well Agreement Name North Vacuum Abo Unit
8. Name of Lease Name
9. Well No. 245
10. Field and Pool, or Wildcat Vacuum Abo, North
11. County Lea

3. TYPE OF WELL	OIL WELL ☒	GAS WELL ☐	DRY ☐	OTHER
6. TYPE OF COMPLETION	NEW WELL ☒	WORK OVER ☐	DEEPEN ☐	PLUG BACK ☐
			DIFF. RESVR. ☐	OTHER

Name of Operator Mobil Producing TX. & N.M. Inc.
Address of Operator Nine Greenway Plaza, Suite 2700, Houston, Texas 77046
Location of Well

WIT LETTER K	LOCATED 1932	FEET FROM THE South	LINE AND 2155	FEET FROM
ME West	LINE OF SEC. 23	TWP. 17S	RGE. 34E	NMPM

5. Date Spudded 04/30/84	16. Date T.D. Reached 05/21/84	17. Date Compl. (Ready to Prod.) 06/06/84	18. Elevations (DF, RKB, RT, GR, etc.) 4027 GR	19. Elev. Casinghead 4027 GR
0. Total Depth 8711	21. Plug Back T.D. 8705	22. If Multiple Compl., How Many	23. Intervals Drilled By 0-8711	24. Cable Tools
4. Producing Interval(s), of this completion - Top, Bottom, Name 8549-8684 Abo				25. Was Directional Survey Made No

26. Type Electric and Other Logs Run Dual Spaced Neutron, Dual Induction Guard, Compensated Acoustic Velocity	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	48#	402	17-1/2	400x C (528 cu.ft.)	
8-5/8	32#	5000	12-1/4	3000x C (5472 cu.ft.)	
			1-7/8		

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
5-1/2	4185	8710	1050		2-7/8	OPMA @ 8686	SN @ 8686

31. Perforation Record (Interval, size and number) Perf w/1JSPF @ 8549-51, 8576-78, 8581-84, 8595-98, 8627-29, 8655-57, 8681-84 (24 holes)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	8549-8684	Acidized w/6600 gals 15% DINE Fe HCl

33. PRODUCTION							
Date First Production 06/07/84	Production Method (Flowing, gas lift, pumping - Size and type pump) 2 x 1-1/4 x 24 pump					Well Status (Prod. or Shut-in) Producing	
Date of Test 06/13/84	Hours Tested 24	Choke Size	Prod'n. For Test Period	Oil - Bbl. 58	Gas - MCF 57	Water - Bbl. 4	Gas-Oil Ratio 985
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.) 37.6 @ 60	

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

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

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 Paula W. Collins	TITLE Authorized Agent	DATE 06/15/84
-------------------------	------------------------	---------------

67

DATE 11-27-84 WE NO. 245 LEASE North V uum FIELD Vacuum Abo
Abo Un. North
LOCATION 2174'FWL & 1930'FSL SIGNED R.W. Petty G.L. 4027'
Sec. 23, T17S, R34E D.F. NA
Lea County, New Mexico K.B. 4042'
ZERO 15'AGL

— 17½" hole

— 13⅜", 48", H40, ST&C set @ 402' w/400 sk Cl. C cmt,
2% CaCl₂, ¼" FC. Circ 30 sk cmt.

— 12¼" hole

— TOL @ 4185'

— 8⅝", 32", S80' K55, ST&C set @ 5000' w/2100 sk Cl. C cmt,
4% gel, 15" salt, 5" gilsonite; ¼" FC + 300 sk Cl. C cmt,
2% CaCl₂ + ¼" FC. Did not circ. TOC @ 965' temp surv. Cmt 96
to surface w/1" w/600 sk Cl. C neat cmt.

— 7⅞" hole

— 2⅞" +bg: OPMA @ 8703' + 4' perf sub + 2⅞" SN + 2⅞" SN @ 8686'
TAC @ 8475' set w/14,000" Ten.

— Abo Perfs: 8549'-51', 76'-78', 81'-84', 95'-98', 8627'-29', 55'-57'
8681-84. 1 JSPF. 24 holes.

— 5½", 17" & 15.5", K55, ST&C set @ 8710' w/750 sk Cl. H cmt, 4% gel,
PBTD 8705' .3% HA9, ¼" FC + 300 sk Cl. H cmt, .3% HA9, ¼" FC.
TD 8711'

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2688

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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LAND OFFICE	
OPERATOR	

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

a. TYPE OF WELL

OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐

b. TYPE OF COMPLETION

NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

c. Name of Operator

MOBIL PRODUCING TR & M.M., Inc

d. Address of Operator

Box 633 MIDLAND, TX 79702

e. Location of Well

NIT LETTER P LOCATED 1300 FEET FROM THE S LINE AND 1300 FEET FROMRANGE E LINE OF SEC. 23 TWP. 17S RGE. 34E NMPM5. Date Spudded 5-31-85 16. Date T.D. Reached 6-8-85 17. Date Compl. (Ready to Prod.) 4056-GL 18. Elevations (DF, RKB, RT, GR, etc.) 4056-GL 19. Elev. Casinghead0. Total Depth 4800 21. Plug Back T.D. 4754 22. If Multiple Compl., How Many 4056-GL 23. Intervals Drilled By Rotary Tools Cable Tools

4. Producing Interval(s), of this completion - Top, Bottom, Name

4533-4586 SAN ANTONIO

25. Was Directional Survey Made

26. Type Electric and Other Logs Run

27. Was Well Cored

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<u>13 3/8</u>	<u>COND. PIPE</u>	<u>35</u>	<u>13 3/8</u>	<u>DRIVEN</u>	
<u>8 5/8</u>	<u>24</u>	<u>1700</u>	<u>12 1/4</u>	<u>1250 x C (CIRC)</u>	
<u>5 1/2</u>	<u>14</u>	<u>4800</u>	<u>7 7/8</u>	<u>1430 x C (CIRC)</u>	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					<u>27/8</u>		<u>4340</u>

31. Perforation Record (Interval, size and number)

4533-54, 60-70, 83-86 w/ 153PF + 37 holes

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

33. PRODUCTION

Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. 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.)

Test Witnessed By

35. List of Attachments

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 _____ TITLE _____ DATE _____

69

LOCATION: S-23
T-17S
R-34E

KB: 4063

GL: 4050

SPUD DATE: 5/31/85

13 3/8"
CMT CIRC

35'

8 5/8"
24#, K 55
1250 SX
CLASS C
CIRC.

1700'

LYNES ECP
4340'

SAN ANDRES PERFS
4533' - 4586'
37 HOLES

5 1/2"
14#, K 55
1430' SX
CLASS C
+ N₂

100SX THIXOTROPIC
DOWN ANNULUS

4800'

VI. Tabulation of All Wells Drilled Within Area of Review

Wells Drilled by Amerada Hess, recently purchased by Mobil
Producing TX & NM, Inc.

Wells in SW/4 of Section 23, T-17-S, R-34-E, Lea County, NM

<u>Well No.</u>	<u>Unit Letter</u>	<u>Type Well</u>	<u>Date Drilled</u>	<u>Depth Drilled</u>	<u>Completion Formation</u>	<u>Completion Interval</u>	<u>Current Status</u>
1	N	P&A	04-06-38	4740'	San Andres	4317-4740 OH	P&A
3W	K	P&A	08-06-38	4662'	San Andres	4311-4662 OH	P&A

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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LAND OFFICE	
OPERATOR	

1. TYPE OF WELL

OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER P & A m 5-14-81

2. TYPE OF COMPLETION

NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

3. Name of Operator

Amerada Hess

4. Address of Operator

P.O. box 840, Seminole, TX 79360

5. Location of Well

UNIT LETTER N LOCATED 600 FEET FROM THE south LINE AND 1980 FEET FROM

THE west LINE OF SEC. 23 TWP. 17-8 RGE. 34-E NMPM

6. Date Spudded

2-22-38

16. Date T.D. Reached

4-6-38

17. Date Compl. (Ready to Prod.)

18. Elevations (DF, RKE, RT, GR, etc.)

19. Elev. Casinghead

20. Total Depth

4740

21. Plug Back T.D.

22. If Multiple Compl., How Many

23. Intervals Drilled By
Rotary

Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name

P & A

26. Type Electric and Other Logs Run

27. Was Well Cored

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<u>7-5/8"</u>		<u>800'</u>	<u>9-7/8"</u>	<u>300 cu. cts. to surface</u>	
<u>5-1/2"</u>		<u>4317'</u>	<u>6-3/4"</u>	<u>200 cu. cts. to 2592'</u>	
<u>Open hole</u>			<u>4-3/4"</u>	<u>-</u>	

29. LINER RECORD

30. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET

31. Perforation Record (Interval, size and number)

Open hole 4317-4740 Orig. Completion
See attachment for additional log
& entry procedures.

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

33. PRODUCTION

Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)					Well Status (Prod. 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 Pressure	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.)

Test Witnessed By

35. List of Attachments

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 _____ TITLE _____ DATE 72

Salt Water Disposal Application
Bridges State Well No. 511
Section 23, T-17-S, R-34-E
Vacuum Grayburg-San Andres Field
Lea County, New Mexico

Wells in Area of Review
Perforating & Cementing Information

Operator Comerada Hess Corporation

Well Name & Number State T "A" # 1

Operation: Repair casing leak.

Perfd. casy 2878-2880', pfd. 180 sh thru perfs.

Perfd. casy @ 1860 pfd 550 sh thru perfs, TOC @ 1620

Perfd. casy @ 995, pfd 200 sh thru perfs.

Shld out cmt, casy leak between 2639-2644'.

Perfd. casy @ 2643-2645, pfd 300 sh thru perfs.

Shld out cmt, casy leak between 2637-2655, pfd 400 sh.

Perfd. casy @ 2600, pfd 385 sh thru perfs.

Perfd. casy @ 82.4, circ. annular space between 7-5/8 x 5 1/2" w/1115 sh cmt.

DATE 4-11-86WELL NO. 1

LEASE

AMERADA HESS

STATE V "A"

FIELD

VACUUM

CRAB - 5/A

LOCATION N-23-175-34ESIGNED L. D. GILPING.L. N/AD.F. K.B. ZERO

660 FSL + 1980 FWL

106'-0" CMT PLUG

7 5/8" CSG @ 800' w/ 300x CMT (CIRC)
PERF 824' + PMP 115 SX (CIRC IN 7 5/8" & 5" ANNULUS)
PERF 995 + PMP 200 SX

1860 - PERF + PMP 550 SX

1. Turn ... w/ 18" ...
2592' - ORIGINAL TOC (TALC)

PERF CSG @ 2600 + PMP 385 SX

PERF 2643 - 45 + PUMPED 300 SX

CSG LEAK 2637 - 2655. PMP 400 SX THROUGH LEAK

PERF 2873 - 80 - SQZ w/ 180 SX CMT

5 1/2" CSG @ 4317' w/ 200x CMT

SAN ANTONIO OHZ - 4317' - 4740

TD - 4740'

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

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

1a. TYPE OF WELL		7. Unit Agreement Name	
OIL WELL ☐	GAS WELL ☐	8. Farm or Lease Name	
DRY ☐	OTHER ☒ P & A Dec '79	State 7 "A"	
b. TYPE OF COMPLETION		9. Well No.	
NEW WELL ☐	WORK OVER ☐	374	
DEEPEN ☐	PLUG BACK ☐	10. Field and Pool, or Wildcat	
DIFF. RESVR. ☐	OTHER ☐	Barrum (Y-SA)	
2. Name of Operator		12. County	
Omerada Hess		Lea	
3. Address of Operator		19. Elev. Casinghead	
P.O. Box 840, Seminole, TX 79360			
4. Location of Well		25. Was Directional Survey Made	
UNIT LETTER <u>K</u> LOCATED <u>1980</u> FEET FROM THE <u>south</u> LINE AND <u>1980</u> FEET FROM		27. Was Well Cored	
THE <u>west</u> LINE OF SEC. <u>23</u> TWP. <u>17-S</u> RGE. <u>34-E</u> NMPM			
15. Dr. Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)
6-27-38	8-6-38		
20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By
4662			
24. Producing Interval(s), of this completion - Top, Bottom, Name			25. Was Directional Survey Made
P & A			
26. Type Electric and Other Logs Run			27. Was Well Cored

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
12-1/2"		277'	17-1/2"	200 at 7' Surface	
9-5/8"		1641'	12"	250 at 1044' Calculated	
7"		4311'	8-3/4"	200 at 3142' Calculated	

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET

31. Perforation Record (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
Open Hole 4311-4662'			
See attachment			

33. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
Time of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Frase.	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.)						Test Witnessed By	

35. List of Attachments.

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 _____ TITLE _____ DATE _____

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Salt Water Disposal Application
Bridges State Well No. 511
Section 23, T-17-S, R-34-E
Vacuum Grayburg-San Andres Field
Lea County, New Mexico

Wells in Area of Review
Perforating & Cementing Information

Operator Comerada Hess Corporation

Well Name & Number State 7 "A" # 37

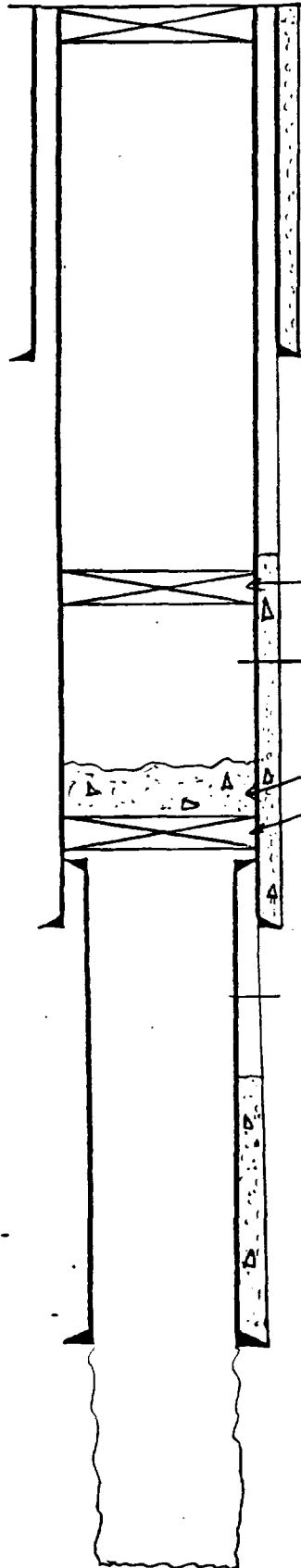
P & A Procedures:

Set retainer @ 2300', pcd 700' below retainer,
pcd 20' in top @ 2200-2300'.

Perf @ 1660-1662', set retainer @ 1548', pcd 360
ss thru perfor. TOC @ 1241', pcd 20' in top
of retainer @ 1448-1548'.

Perf log @ 1193', set retainer @ 1062',
wire cmt behind 7" w/250 ss cmt.

DATE 4-11-86 WELL NO. 3 LEASE STATE V "A" FIELD VACUUM Gbg - 5/A
 LOCATION K-23-175-34E COUNTY LEA STATE N.M. GL N/A
 1980 FSL + 1980' FWL
 SIGNED L. D. Gilpin
 DF _____
 KB _____
 ZERO _____



— 277' - 12 1/2" CSG . SET w/ 200 SX (CIRC)
 17 1/2" HOLE

TDC - 1041 (CALC)

RETAINER @ 1062

PERF @ 1193 + CMT'D TO SURFACE w/ 250 x.

SPOTTED 100' PLUG OF CMT ABOVE RETAINER (1448 - 1548)
 RETAINER @ 1548'

— 9 5/8" CSG @ 1641 w/ 250 SX.
 12" HOLE

PERF 1660-1662 . PUMPED 360 x TDC - 1241'

TDC - 3124 (CALC)

7" CSG @ 4311 w/ 200 SX
 8 5/8" HOLE

SAN ANDRES OHZ - 4311 - 4662

TD - 4662

VIII. Geological Data

1. Lithology Detail: Composition is limy dolomite, gray to light gray in color, very fine crystalline porosity and occasional vuggy porosity.

Type of structure is anticline.

Average porosity is 12%.

Average permeability is 25 Md.

2. Geological name is San Andres.
3. Thickness is average effective porosity of 250 feet.
4. Depth average to top of pay is 5050 feet.
5. Overlying fresh water zones names and depth:

Ogalalla @ 300 feet.

Santa Rosa @ 1400 feet.

There are no fresh water zones underlying the injection zone.

IX. Stimulation Program:

See attachment for stimulation program.

X. Proposed Logging Detail:

GR-DLL - Microlog from TD to 1700' (top of surface csg).

GR-CNL - FDC - Caliper from TD to 1700'.

CNL from TD to surface.

GR - Sonic - Caliper from TD to 700'.

BRIDGES STATE #511 (SWD)
VACUUM (SAN ANDRES) FIELD
LEA COUNTY, NEW MEXICO
COMPLETION PROCEDURE

Cost This Proc. = \$58M
W.I. = 100%

GENERAL

TD-5650' FS @ 5650' FC @ 5602'

<u>String</u>	<u>Wt & Grade</u>	<u>Depth</u>
Surface	13-3/8" - 48# H-40 ST&C	40'
Intermediate	9-5/8" - 36# K-55 ST&C	1700'
Production	7" - 23# K-55 ST&C	5650'

Clean out to + 5602'. Perforate and acidize the San Andres zone. Turn well to production and put on disposal.

PROCEDURE

- 1) MIRU PU. Install BOP. RIH w/6-1/4" tooth type bit, 7" casing scraper, and 3-1/2" drill collars on 2-7/8" N-80 tubing. Clean out cement to FC @ 5602' PBD. Circ. hole w/2% KCl. Pressure test 7" casing to 1500 psi.
- 2) RU wireline company. Run PDC log across interval. Perforate the 7" casing in the San Andres formation using a 4" casing gun and 22 gram premium charges, 180° phased, decentralized, as follows:

<u>Depth</u>	<u>Shots/Foot</u>	<u># of Holes</u>
5100'-5650'	2	250-300

- 3) RIH w/a 7" pkr on tbg. Spot 500 gals of 15% DINE Fe HCL acid from 5602' to 5300'. Pull pkr to 5000'. Reverse excess acid. Set pkr. Load and pressure up annulus to 1000 psi. Breakdown San Andres perfs 5100'-5650' OA (250-300 holes). Acidize with an additional 9500 gals of 15% NE Fe HCL acid down tbg at 5 BPM in 3 stages. Anticipated WHTP 4000 psi. Additives per 1000 gals acid (2 gals surfactant, 3 gals corrosion inhibitor), and brine (50# gelling agent). Pump as follows:
 - a. Pump 3000 gals 15% NE Fe HCL.
 - b. Pump 1000 gals gelled brine w/1000# graded rock salt.
 - c. Pump 3000 gals 15% NE Fe HCL.
 - d. Pump 1000 gals gelled brine w/1000# graded rock salt.
 - e. Pump 3500 gals 15% NE Fe HCL.
 - f. Flush w/2000 gals of 2% KCL.
- 4) Flow back well immediately. POH w/workstring and pkr.
- 5) RIH w/a 7" Baker model "D" packer on wireline and set at 5000' (within 100' of top perf). Please notify NMOCD 48 hours prior to setting packer.

- 6) RIH w/a Baker model "E-22" anchor seal assembly and a Baker model "FR" On-Off Sealing Connector with a 1.87" "F" profile nipple on 2-7/8" J-55 tubing. Test tubing in the hole to 5000 psi. Circulate the hole w/2% KCL with 3 drums of Champion "Cortron R2207" packer fluid mixed in fluid.
- 7) Anchor tubing into model "D" pkr w/5000#. Pressure up to 500# on annulus and monitor tubing pressure to test pkr seals. Nipple down BOP and install wellhead. Test wellhead to 5000#.
- 8) Turn to production and put on disposal.

C. G. Stoute *CGS* 4/7/86

cc: J. A. Johnson
G. H. Huff (2)
A. J. Alcott, L. D. Hobbs, J. M. Mitchell, C. G. Stoute

J. A. Johnson 4/8/86

J. A. Johnson, Completions Engineering Supervisor

G. H. Huff, Drilling Superintendent

A. J. Alcott, Area Operations Manager

5907



BOX 4513
ODESSA, TEXAS 79760

WATER ANALYSIS REPORT

TECH SERVICE LABORATORY: Odessa, Texas Phone (915) 337-0055 & 563-0863
RESEARCH LABORATORY: Houston, Texas Phone (713) 431-2561
PLANT: Odessa, Texas Phone (915) 337-0055

REPORT FOR Luke Gilpin DATE SAMPLED 4/7/86
CC Skidmore DATE REPORTED 4/8/86
CC _____ FIELD, LEASE, OR WELL as listed
CC _____ COUNTY _____ STATE N.M.
COMPANY Mobil Prod. Tx. & N.M., Inc. INFORMATION _____
ADDRESS _____ DEPTH _____
SERVICE ENGINEER Cecil Brumley SUBMITTED BY Luke

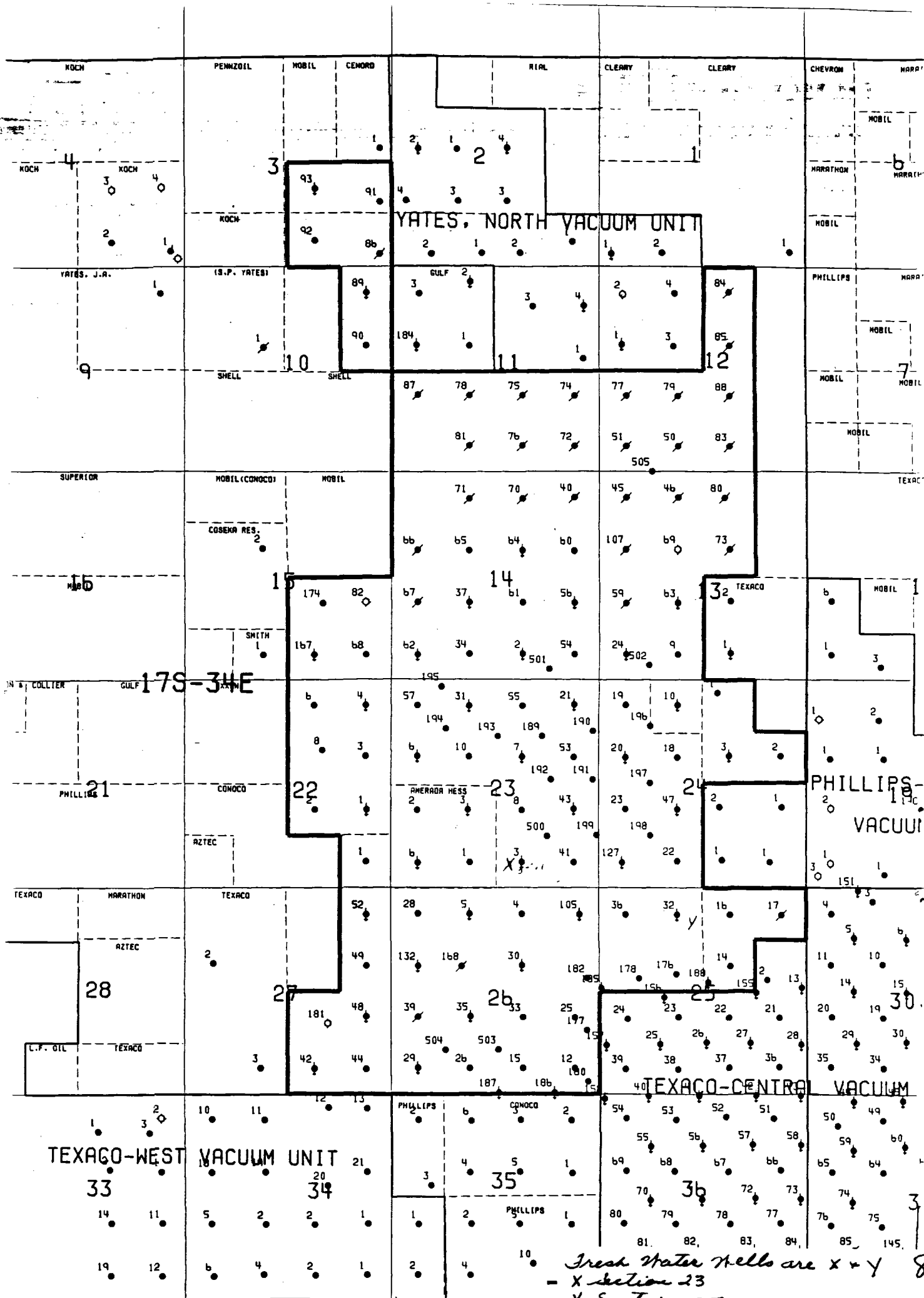
CHEMICAL ANALYSIS (AS PARTS PER MILLION)

Chemical Component	Field, Lease, or Well					
	Section 23 Shell	Section 25 Shell				
Chloride (Cl)	200	200	} See attached plot			
Iron (Fe)	0.2	0.1				
Total Hardness (CaCO ₃)	140	250				
Calcium (Ca)	52	80				
Magnesium (Mg)	2.4	12.2				
Bicarbonate (HCO ₃)	12.2	19.5				
Carbonate (CO ₃)	0	0				
Sulfate (SO ₄)	35.0	52.5				
Hydrogen Sulfide (H ₂ S)	0	0				
Specific Gravity	1.000	1.000				
Density, lb./gal. TDS	340	410				
pH - Beckman (X) Strip ()	6.6	6.8				
Sodium	85	46				
Scaling Index						
CaCO ₃ @ 85F	-2.95	-1.39				
CaCO ₃ @ 160F	-2.23	-0.65				
CaSO ₄	negative	negative				

OTHER DESCRIPTION, REMARKS AND RECOMMENDATIONS

REPORTED BY Randolph Scott TITLE Chemist

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SALT WATER DISPOSAL APPLICATION
STATEWIDE RULE 1108
MOBIL PRODUCING TX & NM, INC.
BRIDGES STATE WELL NO. 511
LEA COUNTY, NEW MEXICO

XII. Affirmative Statement:

Mobil engineers and geologists have examined the available geological and engineering data and find no evidence of open faults or other hydrological connections between the disposal zone and any underground source of drinking water.

SALT WATER DISPOSAL APPLICATION
STATEWIDE RULE 1108
MOBIL PRODUCING TX & NM, INC.
BRIDGES STATE WELL NO. 511
LEA COUNTY, NEW MEXICO

XIV. Proof of Notice:

1. Surface Owner is State of New Mexico. Letter of notification sent by certified mail, copy attached.
2. Mobil Producing TX & NM, Inc., Applicant, is the lease holder of all leases within one-half mile of the proposed injection well.

SALT WATER DISPOSAL APPLICATION
STATEWIDE RULE 1108
MOBIL PRODUCING TX & NM, INC.
BRIDGES STATE WELL NO. 511
VACUUM GRAYBURG-SAN ANDRES FIELD
LEA COUNTY, NEW MEXICO

XIV. SURFACE OWNER LIST

New Mexico State Land Office
Post Office Box 1148
Santa Fe, New Mexico

The above surface owner was furnished a copy of Mobil's application for salt water disposal into the subject well. Notice was sent by certified mail. Proof of certification is attached.

OFFSET OPERATOR LIST

Mobil Producing TX & NM, Inc., is the only leasehold operator within one-half mile of the subject well, having recently purchased the SW/4 of Section 23, T-17-S, R-34-E from Amerada Hess Corporation.

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

★ U.S.G.P.O. 1983-403-517	Sent to	New Mexico state Land Office
	Street and No.	P.O. Box 1148
	P.O., State, and ZIP Code	Santa Fe, N.M. 87501
	Postage	\$.73
	Certified Fee	.75
	Special Delivery Fee	
	Restricted Delivery Fee	
	Return Receipt Showing to whom and Date Delivered	.70
	Return receipt showing to whom, Date, and Address of Delivery	
	TOTAL Postage and Fees	\$ 2.18
PS Form 3800, Feb. 1982	Postmark or Date	

Mobil Producing Texas & New Mexico Inc.

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

New Mexico State Land Office
Post Office Box 1148
Santa Fe, New Mexico 87501

CERTIFIED MAIL

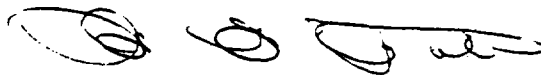
7.01
SALT WATER DISPOSAL APPLICATION
STATEWIDE RULE 1108
MOBIL PRODUCING TX & NM, INC.
BRIDGES STATE WELL NO. 511
474' FSL, 1904' FEL
SECTION 23, T-17-S, R-34-E
LEA COUNTY, NEW MEXICO

Gentlemen:

Mobil Producing TX & NM, Inc., is applying to the New Mexico Oil Conservation Commission for authority to dispose of produced water into a reservoir productive of oil and/or gas. The subject well will be drilled for that purpose.

Statewide Rule 1108 states that the surface owner of the tract where the well is to be located must be notified of the application to inject. Attached, for your information, is a copy of the subject application.

Yours very truly,



G. E. Tate
Env. & Reg. Manager

LLMaroney/dwc

Attachment

cc: NMOCC (w/attach)