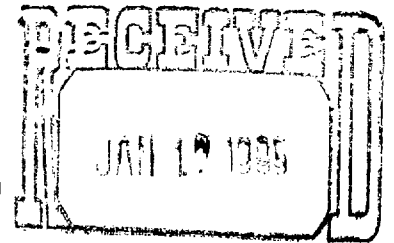


Mobil Producing Texas & New Mexico Inc.



OIL CONSERVATION DIVISION
SANTA FE

NINE GREENWAY PLAZA - SUITE 2700
HOUSTON, TEXAS 77046

January 7, 1985

Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

Attention: Richard L. Stamets

7.01
SALT WATER DISPOSAL WELL
MOBIL PRODUCING TX. & N.M. INC.
NORTH VACUUM ABO UNIT
WELL #95
LEA COUNTY, NEW MEXICO

Gentlemen:

Mobil Producing TX. & N.M. Inc. (MPTM) respectfully requests authority to dispose of production water down this wellbore into the Devonian formation. The Devonian formation is not productive of H₂S in this area.

Well #95 is presently a water injection well in the Abo formation. MPTM plans to squeeze the Abo perfs, clean out the wellbore and convert to a salt water disposal well in the Devonian formation. Conversion of this well to a SWD is needed to meet the increased disposal requirements of this unit. The increased disposal requirements are due to the current and future infill drilling program.

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

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

Yours very truly,


B. O. Holman
Regulatory Compliance Manager

AMCampbell/KKDefenbaugh/bb
Attachments

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: MOBIL PRODUCING TEXAS & NEW MEXICO INC.

Address: NINE GREENWAY PLAZA, SUITE 2700, HOUSTON, TX 77046

Contact party: A.D. Bond Phone: 713/871-5352

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: A.D. Bond Title Regulatory Technician Supv.

Signature: *A.D. Bond* Date: January 2, 1985

* 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.

III. WELL DATA

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

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

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

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

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

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

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.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL ☐ DEEPEN ☒ PLUG BACK ☐		7. Unit Agreement Name North Vacuum Abo
b. Type of Well OIL WELL ☐ GAS WELL ☐ OTHER Salt Water Disposal SINGLE ZONE ☒ MULTIPLE ZONE ☐		8. Farm or Lease Name North Vac-Abo
2. Name of Operator Mobil Producing Texas & New Mexico Inc.		9. Well No. 95
3. Address of Operator 9 Greenway Plaza, Suite 2700, Houston, TX 77046		10. Field and Pool, or Wildcat Vacuum Devonian
4. Location of Well UNIT LETTER _____ LOCATED 860 FEET FROM THE South LINE AND 660 FEET FROM THE East LINE OF SEC. 26 TWP. 17-S RGE. 34-E NMPM		12. County Lea
19. Proposed Depth 13,816'		19A. Formation Devonian
20. Rotary or C.T. Rotary		
21. Elevations (Show whether DF, KT, etc.) DF = 4013' GL = 4003'	21A. Kind & Status Plug. Bond NA	21B. Drilling Contractor NA
22. Approx. Date Work will start		

23. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP

This well was originally drilled to a total depth of 13,816'. This well is presently a water injection well in the Abo formation as North Vacuum Abo #95. Permission is requested to clean out the hole, deepen within casing and dispose of salt water in the Devonian formation.

Present completion: TD 13,816', PBTD 11,825'. Abo injection perfs 8362', 68', 78-80', 86-87', 93-96', 98', 8402', 05', 06', 18-23', 26-29', 34-36', 38-42', 46' and 51' (25/ft, 72 holes)

Proposed deepening: Squeeze present Abo perfs. Drill out cmt and continue to clean out hole to NPBTB @ 13,400'. Perforate the Devonian zone @ 12,100-04, 12,108-12, 12,120-30, 12,162-75 and 12,184-99 (4 spf, 184 holes). Stimulate with 10,000 gal 15% NeFe acid, maximum surface pressure 5000 psi. Shut-in well 1 hour, then backflow.

Blowout Preventor Program:

Casing String	Size & PSI	No. & Type
Production	7" 3000 working 1500 test	1 - Blind ram 1 - Pipe ram

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM; IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed K. H. Segura for A. D. Bond Title Regulatory Technician Supervisor Date January 2, 1985

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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.

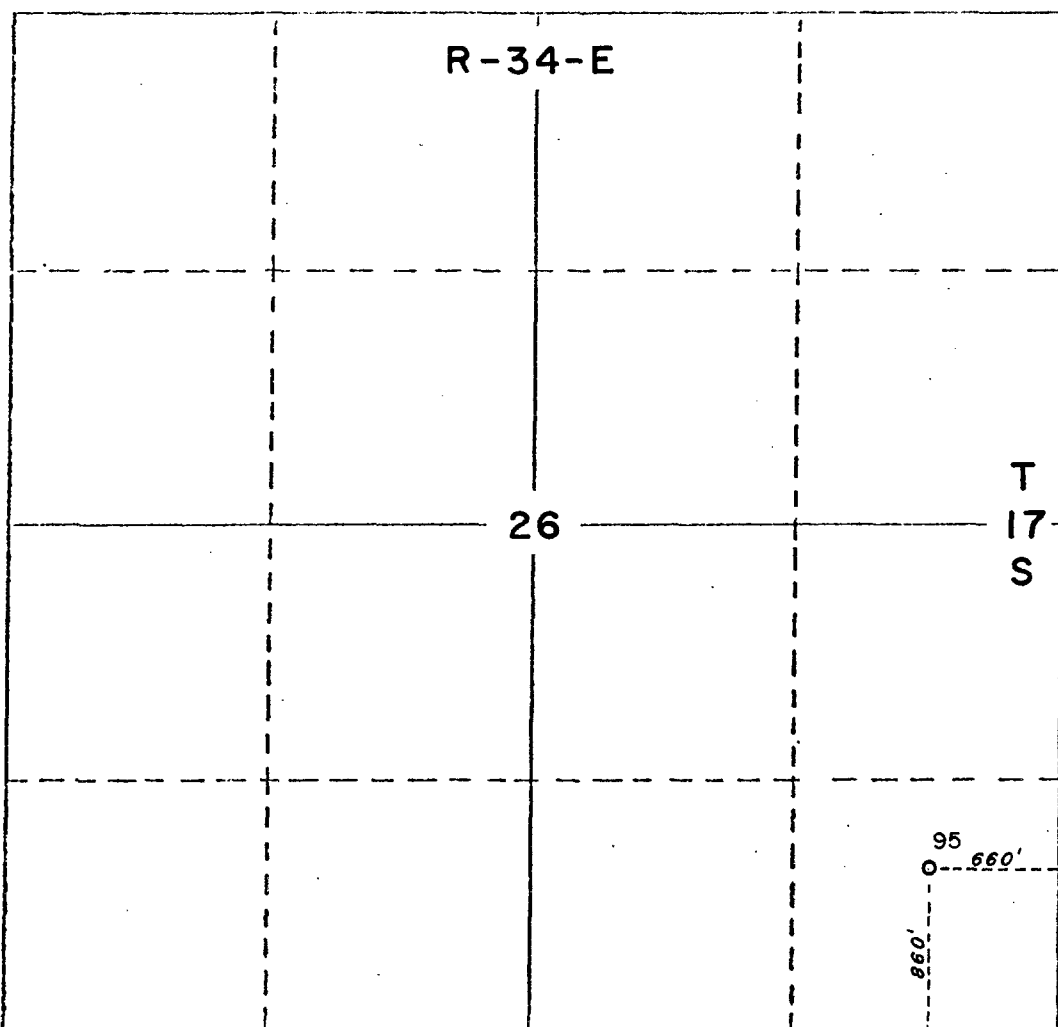
Operator MOBIL PRODUCING TEXAS & NEW MEXICO INC.		Lease North Vacuum Abo Unit		Well No. 95
Unit Letter P	Section 26	Township 17S	Range 34E	County Lea
Actual Footage Location of Well: 660 feet from the East line and 860 feet from the South line				
Ground Level Elev. 4003	Producing Formation Injection-Devonian	Pool Vacuum Devonian	Dedicated Acreage: --- 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 Unitization

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.

K. H. Deffenbaugh
Name A.D. Bond

Regulatory Technician Supv.

Position

Mobil Producing TX & NM Inc.

Company

January 2, 1985

Date

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.

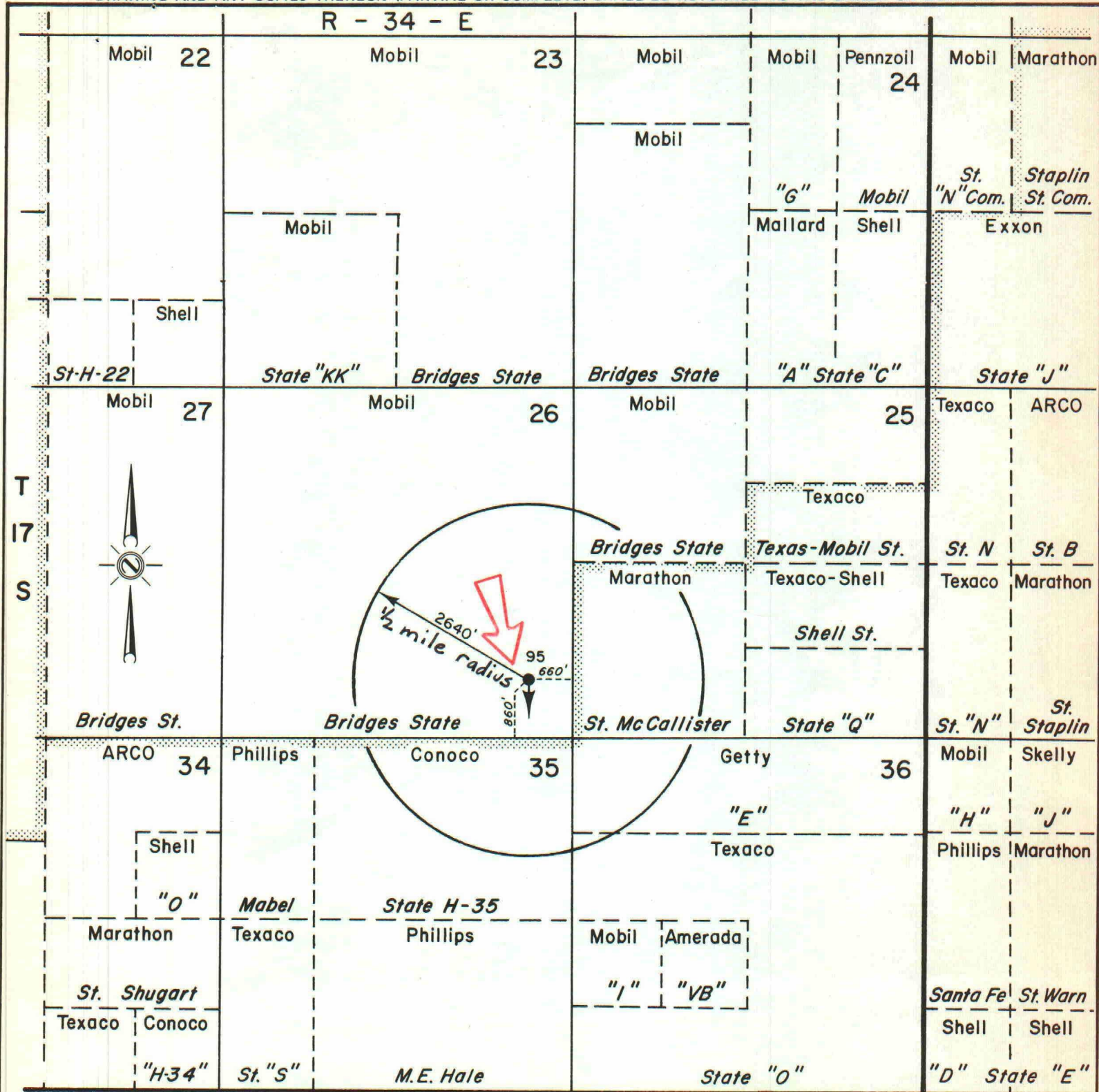
Date Surveyed

Registered Professional Engineer
and/or Land Surveyor

Certificate No.

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

THIS DRAWING AND ALL INFORMATION THEREON IS THE PROPERTY OF MOBIL PRODUCING TEXAS & NEW MEXICO INC. AND SHALL NOT BE COPIED OR USED EXCEPT FOR THE PURPOSE FOR WHICH IT IS EXPRESSLY FURNISHED. THE DRAWING AND ANY COPIES THEREON (PARTIAL OR COMPLETE) SHALL BE RETURNED TO THE OWNER ON DEMAND.



Reserve _____ Permit Depth _____

Special Instructions _____

THE STATE OF TEXAS
COUNTY OF HARRIS

I hereby certify that this plat truly represents conditions as they actually exist on this lease; that said plat which is drawn to the scale indicated hereon, is to the best of my knowledge true and correct; that it accurately shows said lease with all wells on same; that number and locations of said wells are as indicated hereon; and that this plat correctly reflects all pertinent and required data.

KK Wagoner 1/9/85

Mobil Producing Texas & New Mexico Inc.
Houston, Texas

LEASE North Vacuum ABO Unit Area

WELL NO. 95 DATE January 2, 1985

LEASE NO. _____

TOTAL ACRES IN LEASE 5995.2 ACRES COVERED BY PLAT _____

DESCRIPTION Out of Sec. 22, 23, 24, 27, 26, 25

T-17-S R-34-E

Lea County, New Mexico

DRAWN <u>R.E.W.</u>	DATE <u>11-19-84</u>	FIELD <u>North Vacuum</u>
SCALE <u>1" = 2000'</u>	FILE NO. <u>84</u>	<u>Devonian</u>

Mobil Producing Texas & New Mexico Inc.
North Vacuum Abo Unit
Well No. 95
Sec. 26 T17S R34E
860 ft. FSL & 660 ft. FEL

This application was sent by certified mail to the surface owner of the land on which the well is located and to each lease operator within one-half mile radius of the well location.

Surface Owner:

New Mexico State Land Office
P. O. Box 1148
Santa Fe, NM 87501

Offset Operators:

Conoco, Inc.
Five Greenway Plaza
Houston, TX 77001

Getty Oil Company
P.O. Box 1231
Midland, TX 79702

Marathon Oil Company
P.O. Box 2409
Hobbs, NM 88240

Texaco
P.O. Box 728
Hobbs, NM 88240

INJECTION WELL DATA SHEET

Moby Producing Texas & New Mexico, Inc. North Vacuum ABO Unit

OPERATOR

LEASE

95

600' FEL 3261 FSL

26

17S

34E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

SchematicTabular DataSurface CasingSize 13 3/8 " Cemented with 350 sx.TOC surface feet determined by circulationHole size 17 1/2 "Intermediate CasingSize 9 5/8 " Cemented with 3500 sx.TOC surface feet determined by circulationHole size 12 1/4 "Long stringSize 7 " Cemented with 2750 sx.TOC 3750' feet determined by calculationHole size 8 3/4 "Total depth 13,816Injection interval12024 feet to 12,199 feet
(perforated or open-hole, indicate which)PerforatedTubing size 4 1/2 " K-55 lined with IPC set in a
(material)7 " 241 1000 10 packer at 11,975 feet
(brand and model)

(or describe any other casing-tubing seal).

Other Data1. Name of the injection formation Devonian2. Name of Field or Pool (if applicable) North Vacuum ABO Unit3. Is this a new well drilled for injection? ☐ Yes ☒ NoIf no, for what purpose was the well originally drilled? Production fromMcKee Formation

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used)

- see attached sketch

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

DATE 10-8-84 WELL NO. 95 LEASE NVAU FIELD Vacuum Abo North

LOCATION Unit P Sec 26 T17S R34E

SIGNED R.W. Petty

G.L. 4003'

860' FSL & 660' FEL

A.M. Campbell

D.F. 4013'

Lea County, New Mexico

K.B. 4016'

ZERO 13' AGL

- 17 1/2" hole

Proposed Completion

- 13 3/8", 48" H-40 csg set @ 358' w/ 350 sk Incor neat cmt w/ 2% HAS + 1/4" floccle/sk. Cmt Circ.

- 12 1/4" hole

- 9 5/8", 40" J-55 csg set @ 4400' w/ 3500 sk Incor w/ 6% gel + 100 sk Incor neat cmt. Cmt Circ.

- 8 3/4" hole

- Tight Spot @ 6987'

* Abo perfs: 8362', 68', 78'-80', 86', 87', 93'-96', 98', 8402', 05', 06', 18'-23', 26'-29', 34'-36', 38'-42', 46', & 51'. 2 JS PF. 74 holes.
TO BE SQZ'D w/ 150 sk cmt

- Tight Spots @ 9036'-45', 53'-59' & 9240'. Milled thru 9036'-45'.

* Abo Perfs: 9070'-9199' OA. 1 JS PF (1/2"). 44 holes. Sgz'd w/ 650 sk cmt.

- Reperf Abo: 9070'-9199' OA. 1 JS PF (1/2"). 44 holes.

* 4 Sgz holes @ 9294'. Sgz'd w/ 150 sk cmt.

* Wolfcamp perfs: 9518'-9743' & 9814'-9986' OA. 1 JS PF. 103 holes.
TO BE SQZ'D w/ 350 sk cmt.

* Penn perfs: 11,112'-11,122'. 1 JS PF. 11 holes (1/2"). Sgz'd w/ 70 sk cmt.

- 7" Baker Model 'D' pkr. Set @ 11,975'.

- Devonian perfs: 12,024'-50', 70'-90', 100'-105'. 1 JS PF (1/2"). 51 holes.

- Devonian perfs 12,100'-104'; 12,102'-12'; 12,120'-30 w/ 4 spf.

- Devonian perfs 12,162'-75'; 12,184'-99 w/ 4 spf.

- RBF set @ ± 12,240'.

- McKee Sand perfs: 13,698'-13,750' OA. 1 JS PF (1/2"). Dumped 50 sk cmt.

- 7", 23, 26, 29 & 32", N-80 csg set @ 13,816' w/ 2750 sk cmt in 2 stages. DV tool @ 11,332'. Cmt'd 1st stage w/ 460 sk TILW + 75 sk TIN. Cmt circ. 2nd stage w/ 2165 sk TILW + 50 sk TIN. CMT CIRC.

4 1/2" K-55 JPC

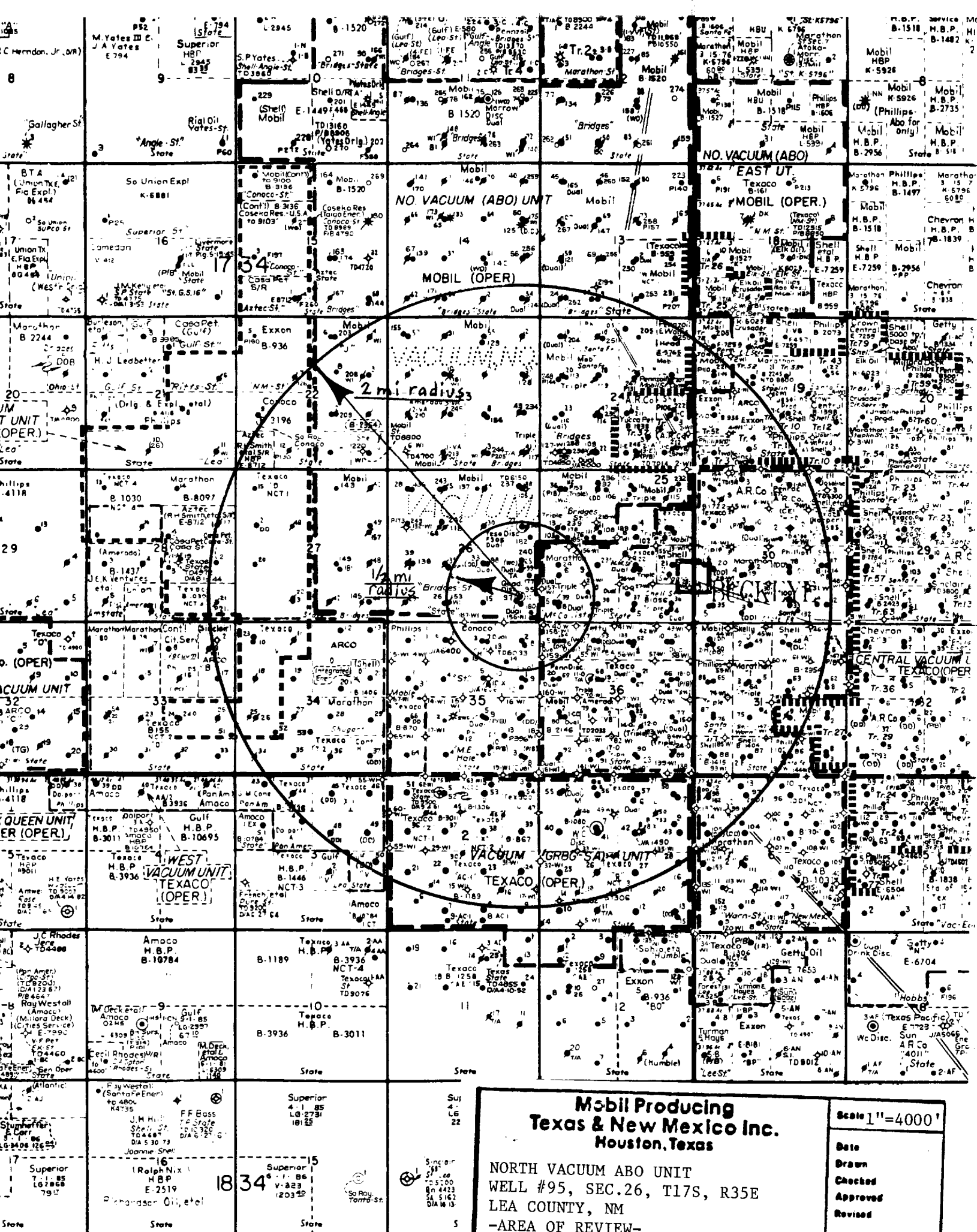
12,024'
12,199'

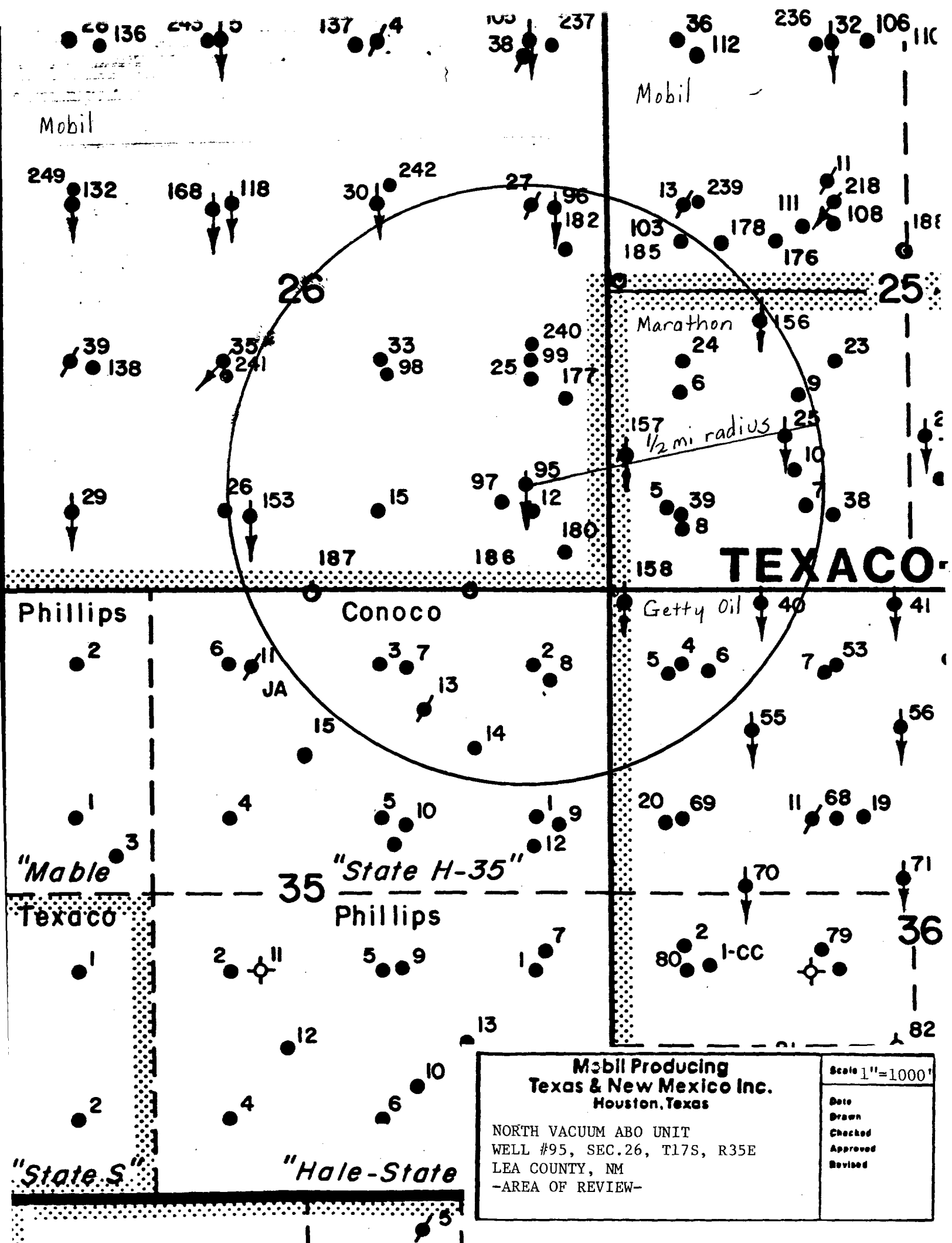
13,400'

TD 13,816'

4. North Vacuum Abo Unit Well #95

1. Abo perfs 8362', 68', 78-80', 86', 87', 93-96', 98', 8402', 8405-06', 8418-23', 8426-29', 8434-36', 8438-42', 8446 and 8451 - 2 spf, 74 holes. To be squeezed w/15- sks cement.
2. Abo perfs 9070-9199' and tight spots. To be squeezed w/250 sks cement.
3. Wolfcamp perfs 9518-9743' and 9814-9986' - 1 spf, 103 holes. To be squeezed w/350 sks cement.
4. Penn perfs 11,112-11,122' - 1 spf, 11 holes. Squeezed w/70 sks cement.
5. McKee perfs 13,698-13,750' - 1 spf, 52 holes. Isolated w/50 sks cement plug.





Mobil Producing Texas & New Mexico Inc.
North Vacuum Abo Unit
Well No. 95
Sec. 26 T17S R34E
860 ft. FSL & 660 ft. FEL

Tabulated data of all producing wells on public record within area of review.

Producing Wells
Operator

Lease	Well No.	Location	Well Type	Date Drilled	Depth	Completion Interval
Mobil Producing Texas & New Mexico Inc.						
Bridges State	12	26-17S-34E	Oil	07/30/48	4,725'	San Andres 4125-4725'
"	15	26-17S-34E	Oil	11/30/48	4,780'	San Andres
"	25	26-17S-34E	Oil	02/22/39	4,750'	San Andres 4442-4726'
"	26	26-17S-34E	Oil	02/28/49	4,800'	San Andres 4629-4633'
"	33	26-17-34E	Oil		4,782'	San Andres 4471-4762'
"	97	26-17S-34E	Oil	01/21/63	6,750'	Glorietta 5974-5988'
"	99	26-17S-34E	Oil	07/18/63	6,750'	Glorietta
"	103	25-17S-34E	Oil			Glorietta 5982-6053'
"	177	25-17S-34E	Oil	01/24/74	4,850'	San Andres 4438-4733'
"	180	26-17S-34E	Oil	02/14/74	4,850'	San Andres 4228-4736'
"	182	26-17S-34E	Oil			San Andres
"	185	25-17S-34E	Inj.	12/04/84	4,900'	San Andres 4476-4621'
"	186	35-17S-34E	Inj.	12/17/83	4,900'	San Andres 4485-4713'
"	187	26-17S-34E	Inj.	01/04/84	4,800'	San Andres 4453-4748'
North Vacuum	96	26-17S-34E	WIW/Oil	03/03/84	12,390'	Abo 8397-8462'
Abo Unit	98	26-17S-34E	Oil		11,660'	Abo 8566-8814'
"	153	26-17S-34E	Inj.	03/29/71	8,700'	Abo 8456-8614'
"	240	26-17S-34E	Oil			Abo

Lease	Well No.	Location	Well Type	Date Drilled	Depth	Completion Interval
Conoco, Inc.						
	2	35-17S-34E	Oil	09/20/38	4,744'	4130-4696'
	3	35-17S-34E	Oil	11/05/38	4,700'	Open hole
	7	35-17S-34E	Oil	02/06/63	12,413'	Abo 8312-8452' Wolfcamp 9253-10060'
	8	35-17S-34E	Oil	03/30/63	6,750'	Glorietta 5964-6143' Blineberry 6391-6704'
	14	35-17S-34E	WIW	02/21/83	4,763'	Grayberg 4426-4498' & 4636-4726'
Getty Oil Company or Texaco						
	4					
	5	36-17S-34E	Oil	04/29/63	6,710'	Glorietta 5842-6118' Blineberry 6367-6644'
	6	36-17S-34E	Oil	05/25/63	12,110'	Upperpen 10121-10134' Wolfcamp 9902-10016' Abo 9070-9231'
	40	36-17S-34E	WIW	11/11/77	4,800'	San Andres 4400-4713'
	158	36-17S-34E	WIW	10/18/82	4,800'	4405-4726'
Marathon or Texaco						
	1					
	5	25-17S-34E	Oil	12/20/62	12,195'	Wolfcamp 9948-9951' Vacuum Abo 9072-9177'
	6	25-17S-34E	Oil	04/09/63	6,800'	Glorietta 5968-6017' Blineberry 6587-6719'

Lease	Well No.	Location	Well Type	Date Drilled	Depth	Completion Interval
Marathon or Texaco (cont'd)						
	7	25-17S-34E	Oil	04/08/63	12,125'	Abo 8879-9252' Wolfcamp 9902-9455' Yoper Pen 9873-10122'
	8	25-17S-34E	Oil	05/11/63	6,800'	5963-5991'
	9	25-17S-34E	Oil	06/06/63	6,800'	Glorietta 6003-6014'
	10	25-17S-34E	Oil	09/28/63	6,800'	Glorietta 6016-6018' 6022-6023' 6032-6033'
	24	25-17S-34E	Oil	12/26/38	4,780'	San Andres 4401-4747'
	25	25-17S-34E	WIW	03/24/78	4,800'	Grayberg San Andres 4379-4709'
	39	25-17S-34E	Oil	11/17/38	4,784'	San Andres 4376-4763'
	156	25-17S-34E	Inj.			
	157	25-17S-34E	Inj.			

ENGINEERS CALCULATION SHEET

FOR

JOB OR AUTH. NO.

LOCATION B-35-175-34E

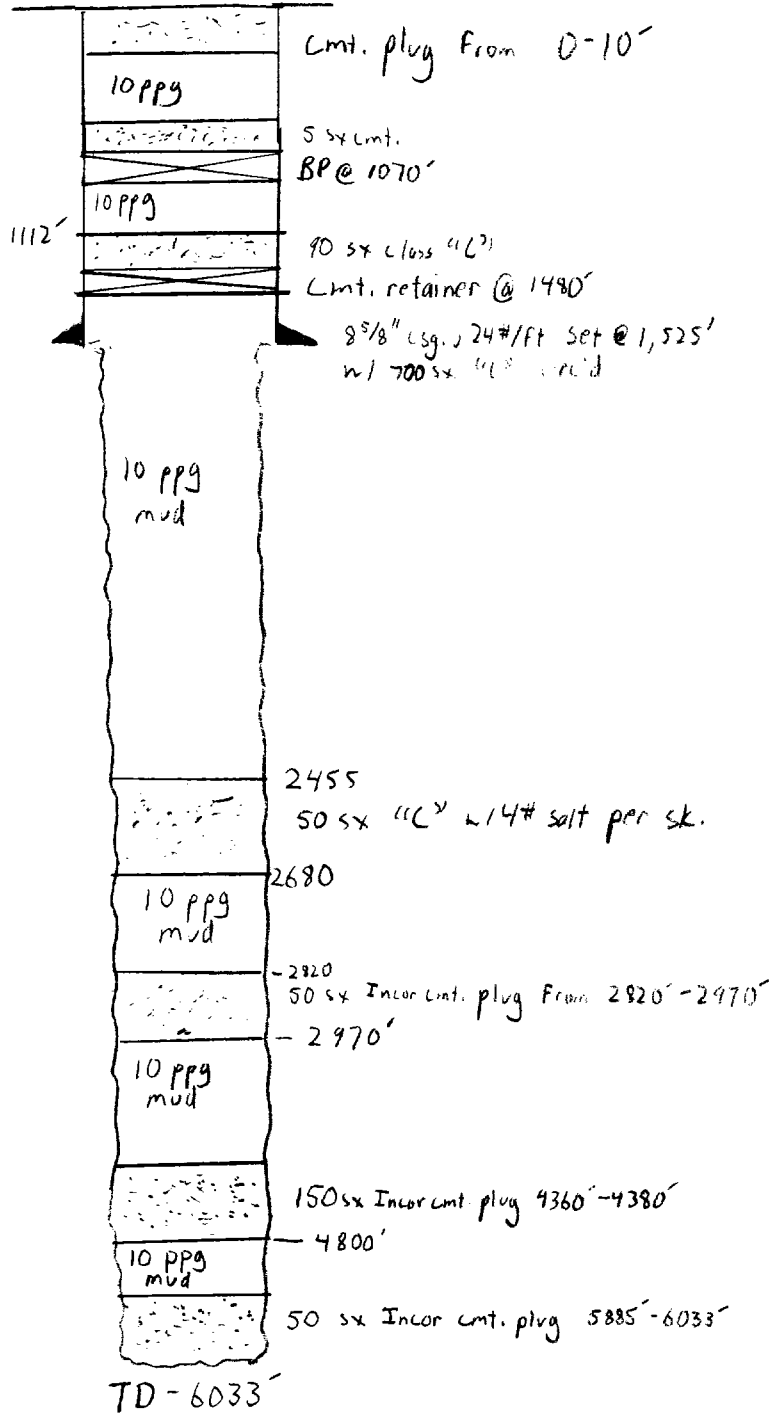
PAGE Vacuum Glorieta

SUBJECT Concho State H-35

DATE 11/28/84

Well #13

BY CA Breslau



Mobil Producing Texas & New Mexico Inc.
North Vacuum Abo Unit
Well No. 95
Sec. 26 T17S R34E

VII. DATA ON PROPOSED OPERATION

1. Avg. Daily Rate 1400 BWPD
Max. Daily Rate 2400 BWPD
3. Avg. Injection Pressure 600 PSI
Max. Injection Pressure 1200 PSI
5. A current chemical analysis of Devonian formation water is not available (there are no Devonian wells in this area). When the well is recompleted to the Devonian and backflowed, a chemical analysis will be taken and the results sent to the Oil Conservation Division.

Mobil Producing Texas & New Mexico Inc.
North Vacuum Abo Unit
Well No. 95
Sec. 26 T17S R34E

VIII. The Devonian geological data is provided below.

LITHOLOGIC DETAIL

Composition - Devonian, white to tan, medium to coarse
crystalline with vuggy to cavernous porosity

Type Structure - Faulted anticline

Average Porosity - 13%

Average of Permeability - 5 to 30%

GEOLOGICAL NAME - Devonian

THICKNESS

Average Effective Pay - 60 ft.

DEPTH

Average Depth to Top of Pay - 12,140 ft.

Overlying fresh water zone (aquifers containing concentrations
of 10,000 mg/l or less).

GEOLOGICAL NAME	DEPTH
Ogalalla	300 ft.
Santa Rosa	1400 ft.

There are no fresh waters immediately underlying the injection
zone.

Mobil Producing Texas & New Mexico Inc.
North Vacuum Abo Unit
Well No. 95
Sec. 26 T17S R34E
860 ft. FSL & 660 ft. FEL

IX. STIMULATION PROGRAM

1. Pressure annulus to 1000 psig.
2. Hook up pump truck and pump 10,000 gal. 15% NE FE acid.
Maximum surface pressure 5000 psi.
3. SI well one hour. Backflow as necessary.
4. Place on injection.

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

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SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease	
State ☒	Fee ☐
5. State Oil & Gas Lease No.	
B-3196	

1a. TYPE OF WELL		OIL WELL ☐	GAS WELL ☐	DRY ☒	OTHER <u>Dry Completion</u>
b. TYPE OF COMPLETION		NEW WELL ☐	WORK OVER ☐	DEEPEN ☐	PLUG BACK ☐
				DIFF. RESVR. ☐	OTHER ☐

7. Unit Agreement Name
8. Farm or Lease Name
State H-35
9. Well No.
13
10. Field and Pool, or Wildcat
Valverme Blorietta

2. Name of Operator	
Conoco	
3. Address of Operator	
P.O. Box 460, Hobbs, New Mexico	
4. Location of Well	

12. County
Lea

UNIT LETTER <u>B</u>	LOCATED <u>990</u>	FEET FROM THE <u>North</u>	LINE AND <u>1650</u>	FEET FROM
THE <u>E-1</u> LINE OF SEC. <u>35</u>	TWP. <u>17S</u>	RGE. <u>34E</u>	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
10-21-66	11-6-66	P&A 12-31-66	4018 DF	4008

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
6033	PA'D		→	0-6033	—

24. Producing Interval(s), of this completion — Top, Bottom, Name	25. Was Directional Survey Made
Dry Completion, PA'D	Yes

27. Was Well Cored
No

26. Type Electric and Other Logs Run

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#/ft.	1,525		700 sy Class "C" w/4% gel. circulated	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
None					None		

31. Perforation Record (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
None		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 _____

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division, not later than 20 days after the completion of any newly drilled or deepened well. It shall be accompanied by one copy of all electrical and instrument logs, run in the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depth. In the case of directionally drilled wells, the vertical depth shall also be reported. For multiple completions, Zones 26 through 34 shall be reported for each zone. The form is to be filed in quadruplicate except on waste land, where six copies are required. See Rule 1105.

INDICATE FOR CATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico 3

T. Anby	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 2 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Manages	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Quartz
T. Glorieta	T. McKee	Base Greenhorn	T. Grenville
T. Pawnee	T. Ellenburger	T. Dakota	T. ...
T. Ellinburg	T. Gr. Wash.	T. Morrison	T. ...
T. Tule	T. Granite	T. Todino	T. ...
T. Deland	T. Delaware Sand	T. Entola	T. ...
T. Abo	T. Bone Springs	T. Wingate	T. ...
T. Wolfcamp	T. ...	T. Charlie	T. ...
T. Penn.	T. ...	T. Pennsian	T. ...
T. Cisco (High C)	T. ...	T. Penn. "A"	T. ...

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____ No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from to feet

No. 2, from to feet

No. 3, from to feet

No. 4, from to feet

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation

XIV. Notice of Application for Fluid Injection Well Report

APPLICANT: Mobil Producing Texas & New Mexico Inc.
Nine Greenway Plaza, Suite 2700
Houston, TX 77046
Telephone: 713/871-5352
Contact: A.D. Bond

PURPOSE: Inject fluid for disposal purposes into the Devonian
formation, North Vacuum Abo Unit Well #95;
Location - Section 26, Township - 17S, Range - 34E

OPERATIONAL CHARACTERISTICS: Formation - Devonian Injection interval
12,024-12,199. Expected maximum injection pressure
1200 psi and rate 2400 BWP.

Interested parties may file objections or request a hearing with the
Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501,
within 15 days of this notice.

700 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Rock Petty
P.O. Box 1800, Hobbs, NM

LABORATORY NO. 128410
SAMPLE RECEIVED 12-4-84
RESULTS REPORTED 12-6-84

COMPANY MPTM LEASE

FIELD OR POOL _____

SECTION 35 BLOCK _____ SURVEY 17S-34E COUNTY _____ STATE _____

SOURCE OF SAMPLE AND DATE TAKEN:

No. 1 Raw water - taken from windmill located in SE $\frac{1}{4}$ of NE $\frac{1}{4}$. 11-30-84

NO. 2

NO. 3

NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0009			
pH When Sampled				
pH When Received	7.66			
Bicarbonate as HCO ₃	237			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	200			
Calcium as Ca	62			
Magnesium as Mg	11			
Sodium and/or Potassium	21			
Sulfate as SO ₄	26			
Chloride as Cl	18			
Iron as Fe	0.25			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	374			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	25.00			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

Waylan C. Martin, M. A.

DIAGRAMMATIC WELL SKETCH
NORTH VACUUM ABO UNIT WELL No. 96
NORTH VACUUM (ABO) POOL
LEA COUNTY, NEW MEXICO

D.F. Elev. = 4031'
 G.L. Elev. = 4013'

8 3/8" - 36 #/ft. N-80

10 3/4" - 40.50 #/ft. J-55

13 3/8" - 48 #/ft. H-40 Set w/ 350
 Min. Burst Press. = 1730 5x. Circ.

9 5/8" - 36 #/ft. J-55 Set w/ 2400 5x
 Min. Burst Press. = 3520 Circ.

2 3/8" Tubing 8514' - 2

Howco DVC Ret.
 Wolfcamp tubing cut off at 8646'
 Vent string cut off at 8702'
 Abo tubing cut off at 8738'

BOT Triple String Anchor

BOT Dual Hyd. Pkr.

(Csg Collapsed 9619')

7 1/2" - 26.40 #/ft. N-80 & 29.70 #/ft.
 S-55 Set w/ 2010 5x. Circ.
 Min. Burst Press. = 6020

Mud

71'

112'

365'

4,400'

Glorieta Perfs Sazd.
 6007'-6057'-24 Holes

Abo Perfs
 8397'-8459'-62'OA - 38 Holes

8,593' P.B.T.D.
 8,651'

Abo Perfs Sazd w/ 450 5x
 8761'-8773'-14 Holes
 9205'-9253'-21

9,254'

9,567'

Wolfcamp Perfs
 9608'-9868'-23 Holes

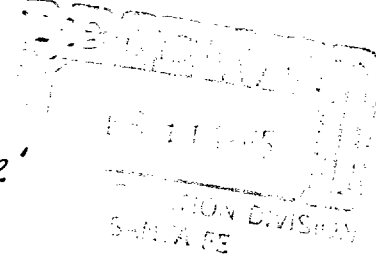
11,350'

Penn Perfs (Plugged off)
 11,372'-11,400'-15 Holes

11,450'

11,515'

12,390' T.D.



MIDLAND PRODUCING AREA--WELL WORK RECOMMENDATIONS

Proposals for Well Reconditioning
& Subsurface Maintenance, Workovers,
Expense DD's, PB's, and Conversions

Lease: NORTH VACUUM ABO UNIT Well No. 96 Type: O.W.

Field: NORTH VACUUM (ABO) County: LEA State: NEW MEXICO

Mobil's Interest: Gross 0.8691342 Net 0.7576621

Problem & Objective: CONVERT TO INJECTION WELL

WELL DATA

Completion Date: 9-25-66 Initial Potential: 282 Productive Zone: ABO

TD 12390' PBD 8503' Current Productive Interval (CH ~~12390'~~) 8397'-8459'-6260'-3844'

Current Producing Rate 53 BOPD 5 BWPD 1679/1 GOR (McF/D)

WORKOVER HISTORY

Date	Workover Description	Before			After		
		Oil BCD	Water BCD	Mcf-GOR	Oil BCD	Water BCD	Mcf-GOR
	(See Attached Sheet)						

WELL PRODUCTIVITY HISTORY & OFFSET WELL STATUS

Company, Lease & Well No.	Date	Method		Cumulative MB, MMcf	Allowable B/CD, Mcf/CD	Oil B/CD	Water B/CD	Gas Mcf/CD, GOR
		F, P, GL						
Mobil Subject Well	9-66	F	INITIAL PRODUCTION		282	7		282-1
	10-68	P	(ABO)		105	4		N/A

ECONOMIC ANALYSIS

Allowable B/CD, Mcf/CD: Before After Increase

Reserves Attributable Bbls Mcf

Estimated Cost: Net Value /Bbl Mcf

NCR AROR Profit/\$ Invested Payout (Mos. or Yrs.)

Other:

SPECIAL OR UNUSUAL REQUIREMENTS (Regulatory Permits, Precautions, Etc.)

PREPARED BY (aw) DATE APPROVED BY

APPROVED BY

Oper. Engr. Form

Jan. 1973

WORKOVER HISTORY

NORTH VACUUM ABO UNIT 96

OCTOBER 1968: Cut Abo tubing 8738, vent string 8702, Wolfcamp string 8646. Set DVC Ret at 8651. Attempt to sq wlf. perfs. w/ 350 sx. washed by ret. w/ 15 bbls. wtr. Sq perfs w/ 100 sx. pulled stinger out of ret dumped 2 sx cmt. on ret. Acidize Abo perfs 8397-8459 w/ 2000 gals 15% NEA. Tag bottom 8593 = PBD

Before w.o. P 36 BNO + 0 BW From Abo & Wlf.

After w.o. P 105 BNO + 4 BLW

1EW

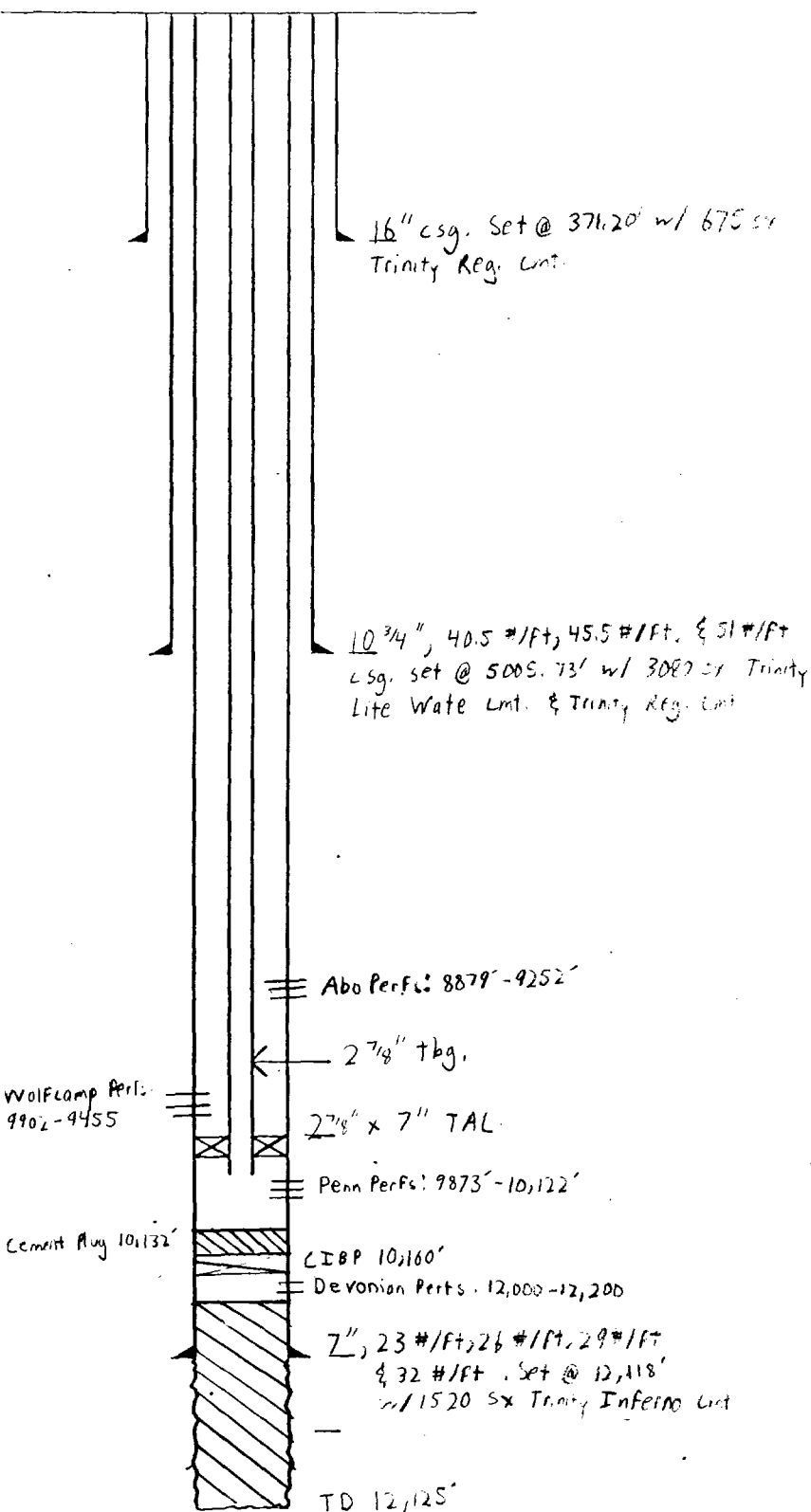
4-18-73

DATE 11-28-84WELL NO. 7LEASE Marathon's McCallister State FIELDValuum Wolfcamp
Valuum Upper Penn
Abo N.LOCATION N-25-17S-34E

SIGNED _____

G.L. 4005'

D.F. _____

K.B. 4017'ZERO 12' AGL

FOR

JOB OR AUTH. NO.

LOCATION B-35-175-34E

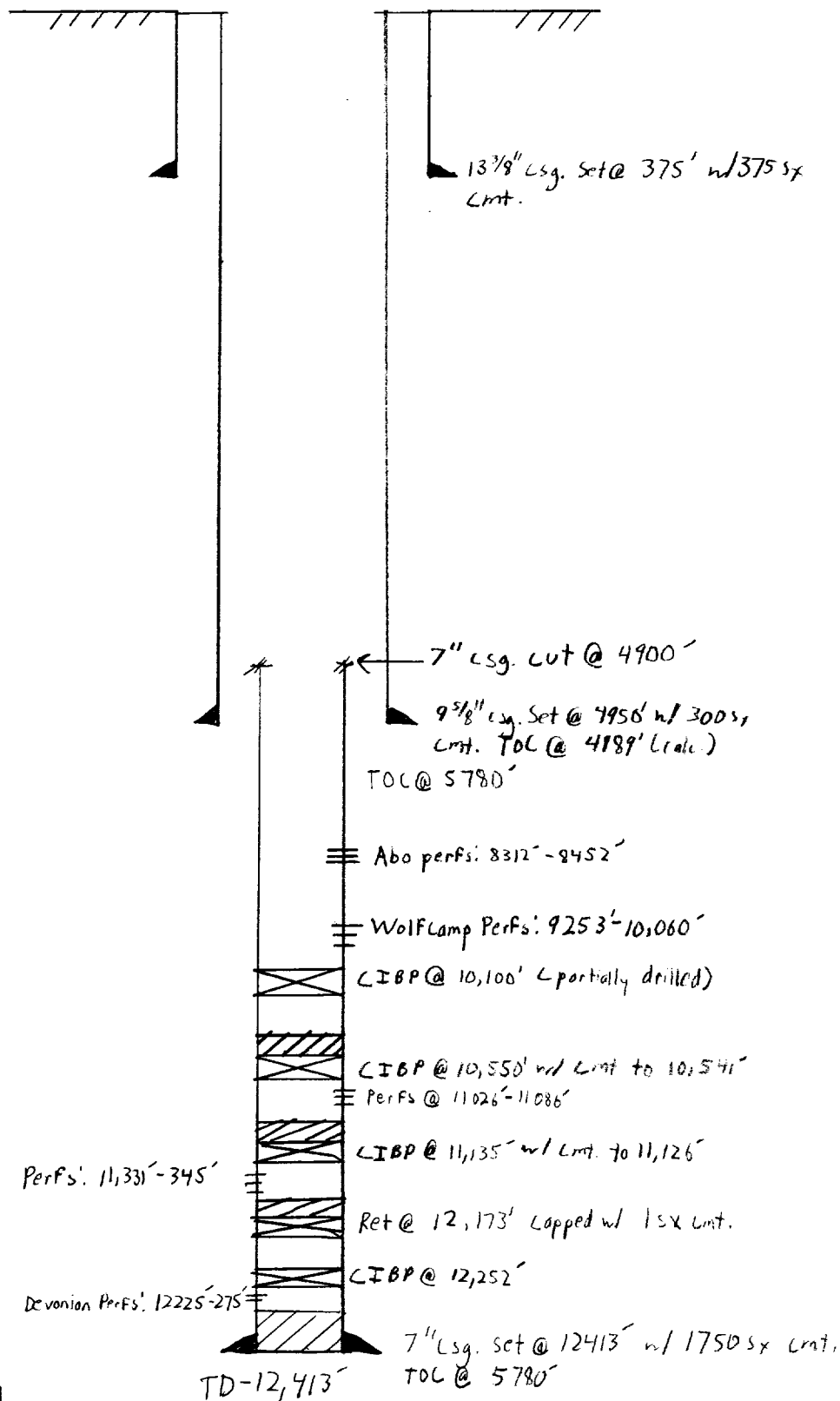
PAGE

SUBJECT Conoco State H-35

DATE 11-28-84

Well # 7

BY Valuum Abo-Wolfcamp



DATE 11/27/84 WELL NO. 6 LEASE State BA FIELD Wolfcamp, Abo, Upper Penn

LOCATION D-36-17S-34E

SIGNED

G.L. 4002'

D.F.

K.B.

ZERO

13 3/8" csg 44.2#/ft + 35.0#/ft @ 421'
Cmt. w/ 400sx reg. Cmt.

9 5/8" csg 36#/ft + 40#/ft @ 4835'
Cmt. w/ 2080 sx 50-50 Perm. Cmt

← 2 3/8" tbg.

± Abo Perfs: 9070'-9231'

± Wolfcamp Perfs: 9902-10,016 w/ 25PF

± Upper Penn Perfs: 10,121'-10,134' w/ 15PF (14 holes)

PBTD 11,855'

TD 12,110'

7" csg. 23#/ft + 26#/ft set @ 12109'
w/ 850 sx Incol Cmt.

FIELD	OPERATOR		DATE
VACUUM (Dual)*	MARATHON OIL COMPANY		6/30/76
LEASE	WELL NO	LOCATION	
McCALLISTER STATE	5	Sec. 25-T17S-R34E	

2-7/8" Tbg. Set @ 2143'
2-3/8" Tbg. Set From 2143-10,071'

* Abo and Wolfcamp

16" casing set at 380' with 675 sx of Trinity Reg. cement
Hole size 24" Cement Top Circ'd (Observed)

10-3/4" casing set at 5000' with 3758 sx of Lite Wate cement
Hole size 13-3/4" Followed w/330 sx Regular cement.
Cement Top Circ'd (Observed)

Baker "J" Cement Stage Tool Set @ 7490' 3rd Stage Cemented w/465 sx Infern
Cement Top 3470' (T. Surv)

Abo, Perfs. @ 9848-9951'

Wolfcamp Perfs. 9848-9951'

Baker "JB" Cement Stage Tool Set @ 10,189' 2nd Stage Cmt'd w/540 sx Infern
Cement Top Circ'd (Observ

7" Baker C.I. Bridge Plug Set @ 10,503'

Devonian Perfs. @ 12,004-12,034'

7" casing set at 12,193' with * sx of * cement
Total Depth 12,195' Hole size 8-3/4"

* 1st Stage cmt'd w/330 sx Infern
Cement Top Circ'd (Calc

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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U.S.G.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease
State ☒ Fee ☐
5. State Oil & Gas Lease No.
268

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

7. Unit Agreement Name
8. Farm or Lease Name
McCallister State

2. Name of Operator	Marathon Oil Company
3. Address of Operator	P.O. Box 2409 Hobbs, NM 88240
4. Location of Well	

9. Well No.
7
10. Field and Pool, or Wildcat
Abo N., Valerian Wolfcamp
Valerian Upper Penn

UNIT LETTER	N	LOCATED	660	FEET FROM THE	South	LINE AND	1780	FEET FROM
THE	West	LINE OF SEC.	25	TWP.	17S	RGE.	34E	NMPM

12. County
Lea

15. Date Spudded	4-8-63	16. Date T.D. Reached	6-24-63	17. Date Compl. (Ready to Prod.)	7-26-63	18. Elevations (DF, RKB, RT, GR, etc.)	GL 4005', KB 4011'
20. Total Depth	12125	21. Plug Back T.D.	10,132	22. If Multiple Compl., How Many		23. Intervals Drilled By	Rotary Tools

13. Elev. Casinghead
25. Was Directional Survey Made
Yes

24. Producing Interval(s), of this completion - Top, Bottom, Name	8879-9252, Abo	9873-10,122, Upper Penn
	9902-9455, Wolfcamp	
26. Type Electric and Other Logs Run	CBL, Cement Evaluation Log	

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
16"		371,20'	22	675 sx Trinity Reg.	
12 3/4"	40.5#, 45.5#, 51#	5005.73'	13 3/4	3080.2x Trinity, Life-Wate & Trinity Reg.	
7"	23,26,29, 32	12,118	8 3/4	1520 sx Trinity, Inferno	

29. LINER RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
None				

30. TUBING RECORD		
SIZE	DEPTH SET	PACKER SET
2 7/8	9153	

31. Perforation Record (Interval, size and number)	
12,000-12,200, Plugged off	
9873-10,122	
9902-9455	
8879-9252	

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED

33. PRODUCTION							
Date of 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
--------	-------	------

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

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.	
B-2766	

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

7. Unit Agreement Name
8. Farm or Lease Name
McCallister state
9. Well No.
5

2. Name of Operator	
Marathon Oil Company	
3. Address of Operator	
P.O. Box 2409 Hobbs, New Mexico 88240	
4. Location of Well	

10. Field and Pool, or Wildcat
Valuum

UNIT LETTER	LOCATED	FEET FROM THE	LINE AND	FEET FROM
M	660	South	560	
THE West LINE OF SEC. 25 TWP. 17S RGE. 34E NMPM				

12. County
Lea

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)
12-20-62	3-25-63	4-30-63	GL 4007', KDB 4019'
20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By
12195	12156		0-12195

19. Elev. Casinghead
24. Producing Interval(s), of this completion - Top, Bottom, Name
4948-9951, Wolfcamp
9072-9177, N. Valuum Abo
25. Was Directional Survey Made
Yes

26. Type Electric and Other Logs Run
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
16"	65 #	380'	24"	675 sy Trinity Reg. Cmt. Circ'd	-
10 3/4"	40.5, 45.5, and 51	5000'	13 3/4"	3758 sy Lite Water Circ'd	-
7"	32, 29, 26, & 23 #	12193	8 3/4"	3 stages w/ Trinity Inferno TOL ≈ 3470'	-

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
None					2 7/8"	2193'	
					2 3/8"	2143'-10,071'	

31. Perforation Record (Interval, size and number)	
12,004'-12,018" and 12,024'-12,034" (Plugged back)	
9948-99, 9857-58, 9866-67, 9880-81, 9895-96, 9902-03, 9915-19, 9935-36, 9950-51.	
9072-73, 9079-80, 9082-83, 9097-98, 9104-05, 9110-11, 9125-25, 9133-34, 9152-53, 9157-58, 9163-64, 9176-77.	
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

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radioactivity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. This form is to be filed in quadruplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. 'B'
T. Salt	T. Strawn	T. Kirtland Fruitland	T. Penn. 'C'
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. 'D'
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Medicine
T. Queen	T. Silurian	T. Point Lookout	T. Elbert
T. Crayling	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Gate
T. Glorietta	T. McKee	Base Greenhorn	T. Granite
T. Paddeek	T. Ellenburger	T. Dakota	T.
T. Blinbry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Granite	T. Todilte	T.
T. Drinkard	T. Delaware Sand	T. Entrada	T.
T. Abo	T. Bone Springs	T. Wingate	T.
T. Wolicamp	T.	T. Chinle	T.
T. Penn.	T.	T. Pennian	T.
T. Cisco (Bough C)	T.	T. Penn. "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____ No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

but the data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
No. 2, from.....to.....feet.....
No. 3, from.....to.....feet.....
No. 4, from.....to.....feet.....

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation

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.	
B-1315	

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		3. Address of Operator		7. Unit Agreement Name		8. Farm or Lease Name	
Getty Oil Company		P.O. Box 730, Hobbs, New Mexico 88240				State BA	

4. Location of Well		10. Field and Pool, or Wellhead	
		Wolfcamp, Abo, Upper Penn.	

UNIT LETTER <u>D</u>		LOCATED <u>667</u>		FEET FROM THE <u>NORTH</u>		LINE AND <u>E-0</u>		FEET FROM	
THE <u>WEST</u> LINE OF SEC. <u>24</u>		TWP. <u>17S</u>		RGE. <u>3E</u>		NMPM		12. County	
								Lea	

15. Date Spudded		16. Date T.D. Reached		17. Date Compl. (Ready to Prod.)		18. Elevations (DF, RKB, RT, GR, etc.)		19. Elev. Casinghead	
5-25-63		8-19-63		9-30-63		4002' GL			

20. Total Depth		21. Plug Back T.D.		22. If Multiple Compl., How Many		23. Intervals Drilled By		Rotary Tools		Cable Tools	
12,110'		11,855'				0-12110				-0-	

24. Producing Interval(s), of this completion - Top, Bottom, Name		25. Was Directional Survey Made	
10,121-10,134', Upper Penn.		Yes	
9902-10,016, Wolfcamp			
9070-9231', Abo			

26. Type Electric and Other Logs Run		27. Was Well Cased	
		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"	44.2 ± 35.6	421'	17 1/2"	400 SX ccy. Cont.	
9 5/8"	36 ± 40	4835'	12 1/4"	2080 SX 50-50 Posm.	
7"	23 ± 26	12109'	8 1/4"	850 SX Incon	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
None					2 3/8		

31. Perforation Record (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
10,121-10,134' @ 1 SPF. 2 1/4 holes		DEPTH INTERVAL	
9902-10', 9956-10016 w/ 2 SPF		AMOUNT AND KIND MATERIAL USED	
9070-9114', 9120-30', 9137-40', 9166-88',			
9186-9213, 9218-22', 9225-31'			

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.	Coating 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 _____

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

7. Unit Agreement Name
8. Farm or Lease Name
9. Well No.

2. Name of Operator
3. Address of Operator

10. Field and Pool, or Wildcat

4. Location of Well
UNIT LETTER <u>B</u> LOCATED <u>660</u> FEET FROM THE <u>NORTH</u> LINE AND <u>1780</u> FEET FROM

12. County

THE <u>East</u> LINE OF SEC. <u>35</u> TWP. <u>17-S</u> RGE. <u>34-E</u> NMPM

19. Elev. Casinghead

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)
<u>2-6-63</u>	<u>5-3-63</u>		<u>4056' DF</u>

25. Was Directional Survey Made

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
<u>12,413</u>	<u>10,100</u>	<u>Commingled</u>	<u>0-12,413</u>		

27. Was Well Cored

24. Producing Interval(s), of this completion - Top, Bottom, Name
<u>9312 - 8952, Abo</u>
<u>9253-10060, Wolfcamp</u>

25. Was Directional Survey Made
<u>Yes</u>

26. Type Electric and Other Logs Run
<u>Gamma Ray</u>

27. Was Well Cored

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

27. Was Well Cored

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<u>13 3/8"</u>	<u>48 #</u>	<u>353'</u>	<u>17 1/2"</u>	<u>375 sx neat cement</u>	<u>-</u>
<u>9 5/8"</u>	<u>36 #</u>	<u>4950</u>	<u>12 1/2"</u>	<u>250sx Interior w/4 bags + 30sx Interior neat</u>	<u>-</u>
<u>7"</u>	<u>Vacuum</u>	<u>12,464</u>	<u>8 3/4"</u>	<u>1750 sx</u>	<u>4886'</u>

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<u>13 3/8"</u>	<u>48 #</u>	<u>353'</u>	<u>17 1/2"</u>	<u>375 sx neat cement</u>	<u>-</u>
<u>9 5/8"</u>	<u>36 #</u>	<u>4950</u>	<u>12 1/2"</u>	<u>250sx Interior w/4 bags + 30sx Interior neat</u>	<u>-</u>
<u>7"</u>	<u>Vacuum</u>	<u>12,464</u>	<u>8 3/4"</u>	<u>1750 sx</u>	<u>4886'</u>

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
<u>None</u>					<u>2 3/8</u>		

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
<u>None</u>					<u>2 3/8</u>		

31. Perforation Record (Interval, size and number)	
<u>1200-1202, 42d</u>	<u>11,026-11,345, TA'D</u>
<u>5966-6010, 15PF, 34d</u>	<u>12,255-275, TA'D</u>
<u>8312 - 8952, 15PF</u>	
<u>9253-10,060 O.A. 15PF</u>	

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

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.

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

SIGNED	TITLE	DATE
--------	-------	------

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly drilled or deepened well. It shall be accompanied by one copy of all electrical and radioactively log runs on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depth shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in outcrop state except on state land, where six copies are required. See Rule 1465.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

South-eastern New Mexico

Northwestern New Mexico

T. Andy	T. Canyon	T. Ojo Alamo	T. Penn. "3"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "2"
D. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "1"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Henefer	T. Madison
T. Queen	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracker
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Quartz
T. Grotto	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Illinoian	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Granite	T. Todilte	T.
T. Drinkard	T. Gelaware Sand	T. Intrada	T.
T. Abo	T. Bone Springs	T. Wingate	T.
T. Wolfcamp	T.	T. Chinle	T.
T. Penn.	T.	T. Permian	T.
T. Cisco (Lough C)	T.	T. Penn. "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....	No. 4, from.....to.....
No. 2, from.....to.....	No. 5, from.....to.....
No. 3, from.....to.....	No. 6, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

No. 4, from.....to.....feet.....

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation

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.	
B-1520	

1a. TYPE OF WELL		OIL WELL ☐		GAS WELL ☐		DRY ☐		OTHER <u>Water Injection</u>	
b. TYPE OF COMPLETION		NEW WELL ☐		WORK OVER ☐		DEEPEN ☐		PLUG BACK ☐	
				DIFF. RESVR. ☐		OTHER			

2. Name of Operator		7. Unit Agreement Name	
Mobil Producing TX & NM Inc.			
3. Address of Operator		8. Farm or Lease Name	
9. Greenway Plaza Suite 2700, Houston TX 77046		North Vacuum Abo Unit	

4. Location of Well		9. Well No.	
		96	
		10. Field and Pool, or Wildcat	
		North Vacuum Abo Unit	

UNIT LETTER <u>H</u>		LOCATED <u>510</u>		FEET FROM THE <u>E</u>		LINE AND <u>1980</u>		FEET FROM	
THE <u>N</u>		LINE OF SEC. <u>26</u>		TWP. <u>17S</u>		RGE. <u>34E</u>		NMPM	

15. Date Spudded		16. Date T.D. Reached		17. Date Compl. (Ready to Prod.)		18. Elevations (DF, RKB, RT, CR, etc.)		19. Elev. Casinghead	
12-3-62		3-3-62		3-12-63		4005' 6L			
20. Total Depth		21. Plug Back T.D.		22. If Multiple Compl., How Many		23. Intervals Drilled By		Rotary Tools	
12,390		8,593'				0-12,390		Cable Tools	

24. Producing Interval(s), of this completion - Top, Bottom, Name		25. Was Directional Survey Made	
Injection into Abo 8397'-8459'		No	

26. Type of Electric and Other Logs Run		27. Was Well Cored	
Welex Guard Log, GR-01A, Fender, ES, Induction, Contact		Yes	

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#	365'	17 1/2"	350sx Incon	-
10 3/4"	40.5#	112'	17 1/2"	-	-
9 5/8"	36#	4288'	12 1/4"	2400 sx Incon	-
8 5/8"	36#	71'	8 3/4"	1150 sx Trinity Lite Water	-

29. (See Reverse Side) * LINER RECORD				30. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SIZE	DEPTH SET	PACKER SET	
None				2 3/8"	8353'	8328'	

31. Perforation Record (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
6007'-6057' (sqzd) - 24 holes		DEPTH INTERVAL	
8397'-8459' 38 holes		AMOUNT AND KIND MATERIAL USED	
8761'-8773' (sqzd) - 14 holes			
9205'-9258' (sqzd) - 21 holes			
9608'-9868' (sqzd) - 23 holes			

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

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.

size
7⁵/₈

wt. / Ft.
29.7# + 26.40#

depth
11,444'

comp.
1150 sx Lmt.

core pulled
—

note size
8³/₄

PS Form 3811, July 1983

SENDER: Complete items 1, 2, 3 and 4.
Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

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

3. Article Addressed to:

Conoco, Inc
P.O. Box 2197
77252

4. Type of Service:

- ☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail

Article Number

678-723

Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature - Addressee *P. H. H. H.*

6. Signature - Agent

7. Date of Delivery
JAN 29 1985

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

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983

SENDER: Complete items 1, 2, 3 and 4.
Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

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

3. Article Addressed to:

New Mexico State Land Office
P.O. Box 1148
Santa Fe, NM 87501

4. Type of Service:

- ☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail

Article Number

678-721

Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature - Addressee

6. Signature - Agent

7. Date of Delivery

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

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983

SENDER: Complete items 1, 2, 3 and 4.
Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

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

3. Article Addressed to:

Marathon Oil Company
P.O. Box 2409
Hobbs NM 88240-2409

4. Type of Service:

- ☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail

Article Number

678-725

Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature - Addressee

6. Signature - Agent

7. Date of Delivery

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

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983

SENDER: Complete items 1, 2, 3 and 4.
Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

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

3. Article Addressed to:

Getty Oil Company
P.O. Box 1231
Midland, TX 79702-1231

4. Type of Service:

- ☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail

Article Number

678-726

Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature - Addressee

6. Signature - Agent

7. Date of Delivery

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

DOMESTIC RETURN RECEIPT

UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS

SENDER INSTRUCTIONS
Print your name, address, and ZIP Code in the space below.
• Complete items 1, 2, 3, and 4 on the reverse.
• Attach to front of article if space permits, otherwise affix to back of article.
• Endorse article "Return Receipt Requested" adjacent to number.

RETURN
TO

~~MOBIL PRODUCING TX & NM INC.~~
~~9 GREENWAY PLAZA SUITE 2700~~
~~HOUSTON, TEXAS 77046~~
(City, State, and ZIP Code)



PENALTY FOR PRIVATE
USE, \$300

UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS

SENDER INSTRUCTIONS
Print your name, address, and ZIP Code in the space below.
• Complete items 1, 2, 3, and 4 on the reverse.
• Attach to front of article if space permits, otherwise affix to back of article.
• Endorse article "Return Receipt Requested" adjacent to number.

RETURN
TO

~~MOBIL PRODUCING TX & NM INC.~~
~~9 GREENWAY PLAZA SUITE 2700~~
~~HOUSTON, TEXAS 77046~~
(City, State, and ZIP Code)



PENALTY FOR PRIVATE
USE, \$300

UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS

SENDER INSTRUCTIONS
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RETURN
TO

~~MOBIL PRODUCING TX & NM INC.~~
~~9 GREENWAY PLAZA SUITE 2700~~
~~HOUSTON, TEXAS 77046~~



PENALTY FOR PRIVATE
USE, \$300

UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS

SENDER INSTRUCTIONS
Print your name, address, and ZIP Code in the space below.
• Complete items 1, 2, 3, and 4 on the reverse.
• Attach to front of article if space permits, otherwise affix to back of article.
• Endorse article "Return Receipt Requested" adjacent to number.

RETURN
TO

~~MOBIL PRODUCING TX & NM INC.~~
~~9 GREENWAY PLAZA SUITE 2700~~
~~HOUSTON, TEXAS 77046~~



PENALTY FOR PRIVATE
USE, \$300