

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

June 12, 1989

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

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

Attention: M. E. Sweeney

Re: North Vacuum Abo Unit Well No. 95

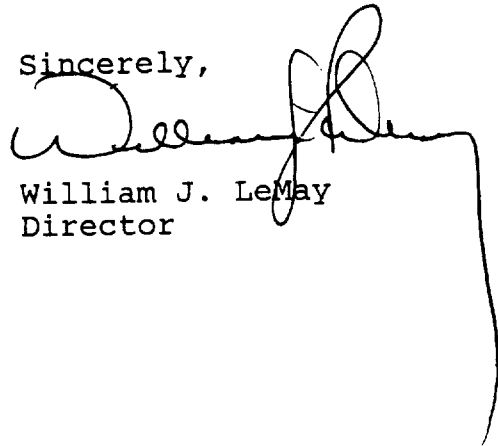
Dear Mr. Sweeney:

Reference is made to your request dated April 20, 1989, for authorization to re-utilize the North Vacuum Abo Unit Well No. 95 located 860 feet from the South line and 660 feet from the East line (Unit P) of Section 26, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, as an Abo injection well in the North Vacuum Abo Unit Pressure Maintenance Project. It is our understanding that the subject well was initially permitted as an Abo injection well by Division Order No. R-4430, dated October 27, 1972, and was subsequently converted to a Devonian salt water disposal well by Order No. SWD-282, dated March 6, 1985.

Inasmuch as the subject well meets all the qualifications for such reclassification, you are hereby authorized to utilize the North Vacuum Abo Unit Well No. 95 for injection into the Abo formation through perforations from approximately 8300 feet to 8650 feet. The packer shall be set approximately 100 feet above the uppermost perforations, and injection shall occur through 2 3/8 inch tubing. Prior to commencing injection operations, the subject well shall be pressure tested from the surface to the proposed packer setting depth to assure the integrity of said casing. The well shall be equipped with a pressure limiting device which will limit the injection pressure to no more than 1660 psi. Operation of the subject well shall be in compliance with the provisions of Division Order No. R-4430 and Rules 702-706 of the Division Rules and Regulations.

Division Order No. SWD-282 is hereby cancelled.

Sincerely,

A handwritten signature in black ink, appearing to read 'William J. LeMay'. The signature is written in a cursive style with a large, looping 'W' and a long, sweeping line extending from the end of the signature.

William J. LeMay
Director

xc: OCD-Hobbs
Case File-4831
File-SWD-282



Mobil Exploration & Producing U.S. Inc.

P.O. BOX 633
MIDLAND, TEXAS 79702
MIDLAND DIVISION

April 20, 1989

New Mexico State Land Office(2)
P.O. Box 2088
Santa Fe, New Mexico 88240

**NOTICE OF APPLICATION FOR
WATER INJECTION WELL
NORTH VACUUM ABO UNIT
WELL NO. 95
LEA COUNTY, NEW MEXICO**

Gentlemen:

Mobil Exploration & Producing U.S. Inc. (MEPUS), respectfully requests authority to inject fresh water into the Abo formation in this wellbore.

NVAU #95 is presently an inactive produced water disposal well in the Devonian formation. MEPUS plans to abandon the Devonian perforations with a bridge plug and perforate the Abo formation. The Devonian formation proved too tight to dispose of appreciable amounts of produced water. The conversion of #95 is needed to enhance oil and gas production in two offset producers, NVAU #286 and #240.

Information supporting the application is presented on Forms C-101, C-102 and C-108.

NVAU #95 was originally permitted for Abo water injection in 1972. Based upon that initial application and injection tracer surveys run in the wellbore since, MEPUS finds no evidence of any hydrological connection between the Abo injection zone and any underground source of drinking water.

RECEIVED

APR 25 1989

OIL CONSERVATION DIV.
SANTA FE

Judy Dixon is republishing
newspaper notice + sending some
well info on Ad web

5/15/89

Contacted Charlone 5-19-89

Will run new add for third time.

Application
goes in
Case File (83)

Also copy of
order to
Tim Gallegos

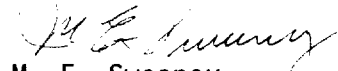
NMOCD
North Vacuum Abo Unit
Well No. 95
Lea County, New Mexico

-2-

April 20, 1989

If any further information is needed, please call, J. W. Dixon at (915) 688-2452.

Yours very truly,



M. E. Sweeney
Environmental & Regulatory Manager

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico Inc.

JWD/arr

attachments

cc: NMOCD - Hobbs (w/attach)
Offset Operators(w/attach)
County Clerk (w/attach)

Submit to Appropriate
District Office
State Lease -- 6 copies
Fee Lease -- 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☐

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☒

b. Type of Well:

OIL
WELL ☐

GAS
WELL ☐

OTHER Water Injection

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

North Vacuum Abo Unit

2. Name of Operator

Mobil Producing Tx. & N.M. Inc.

8. Well No.

95

3. Address of Operator

c/o Mobil Exploration & Producing U.S. Inc.
P.O. Box 633, Midland, Texas 79702

9. Pool name or Wildcat

Vacuum Devonian

4. Well Location

Unit Letter P : 860' Feet From The South Line and 660' Feet From The East Line

Section 26

Township 17S

Range 34E

NMPM

Lea

County

10. Proposed Depth
13,816'

11. Formation
Abo

12. Rotary or C.T.
NA

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

KB: 4016' GL: 4003'

14. Kind & Status Plug. Bond

Active Blanket

15. Drilling Contractor

Unknown

16. Approx. Date Work will start

April, 1989

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17-1/2	13-3/8	48#	358'	350 sx	Surface
12-1/4	9-5/8	40#	4400'	358 sx.	Surface
8-3/4	7	23,26,29,32	13,816'	2750 sx	Surface
8-3/4	5-1/2	17#	12,500	250 sx	8149'

PURPOSE TO CONVERT FROM DEVONIAN DISPOSAL TO ABO INJECTION

- MIRU Workover Unit. NU BOP, test. String out of perm pkr, P00H w/2-7/8" Duolined tubing.
- MIRU Wireline Company, RIH w/5-1/2" CIBP, Set @ $\pm 11,990'$ + 35' cmt. Perforate Abo: 8360-70, 78-94; 8404-08, 19-35, 66-74, 80-82, 8488-8520' 2 SPF
- Swab test perfs 8480-8520' for production test in Lower Abo.
- RD wireline company. RIH with new 2-3/8" base injection tubing + 5-1/2" Retrievable pkr. Set pkr @ $\pm 8310'$.
- MIRU Service Company. Treat Abo perfs with 7,000 gal 15% HCL.
- Install injection wellhead, put well on fresh water injection into Abo.

Average daily injection rate - (initial) 160 BWPD

Maximum daily injection rate - (initial) 160 BWPD

System is closed.

Proposed average daily injection pressure - (initial) 4140 psi

Proposed maximum daily injection pressure (initial) 4140 psi

Will inject fresh water from Ogallala zone. Already use this water for remaining injectors in flood.

Well is for Abo pressure support only and not for disposal.

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.

SIGNATURE M. E. Sweeney M. E. Sweeney

TITLE Manager Environmental & Regulatory DATE 4/21/89

TYPE OR PRINT NAME

M. E. Sweeney

Mobil Producing Texas & New Mexico Inc.
acting by and through its agent
Mobil Exploration & Producing U.S. Inc.

TELEPHONE NO. (915) 688-2452

(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

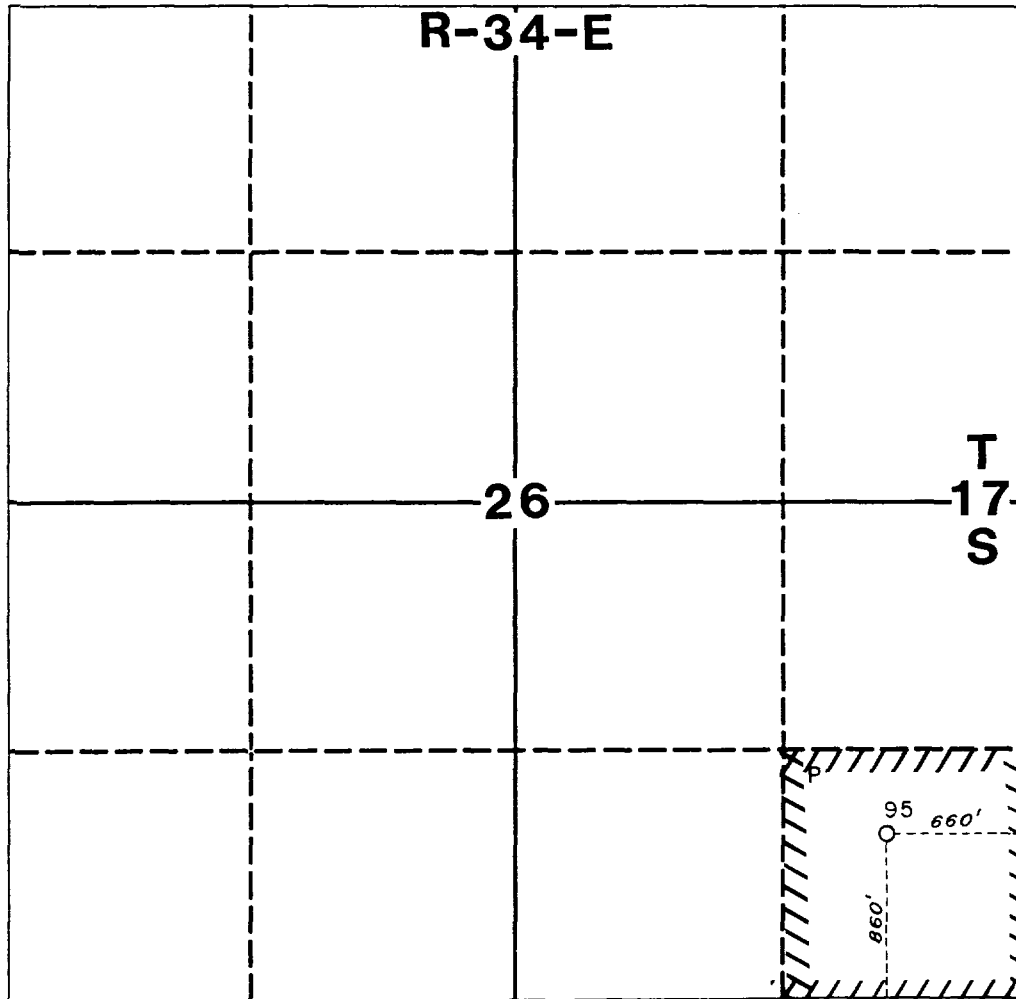
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Mobil Producing Tx. & N. M. 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: 860' feet from the FSL line and 660' feet from the FEL line					
Ground level Elev. 4003'	Producing Formation Abo		Pool Vacuum Abo North		Dedicated Acreage: of well 40 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest 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 interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature

M. E. Sweeney

Printed Name

Manager Environmental & Regulatory
Position

Mobil Producing Texas & New Mexico Inc
Company

acting by and through its agent
Mobil Exploration & Producing U.S. Inc.
Date

4/21/89

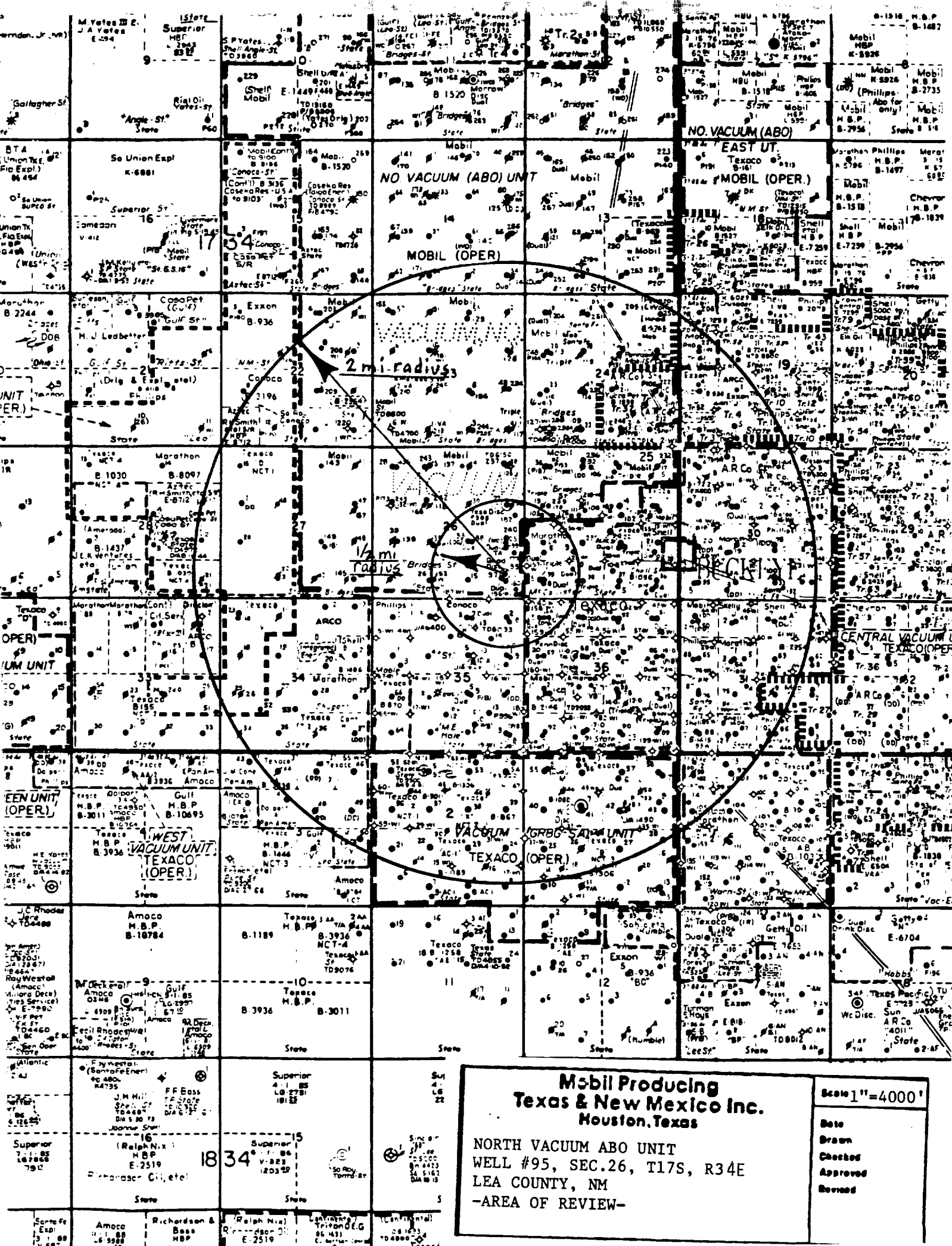
SURVEYOR CERTIFICATION

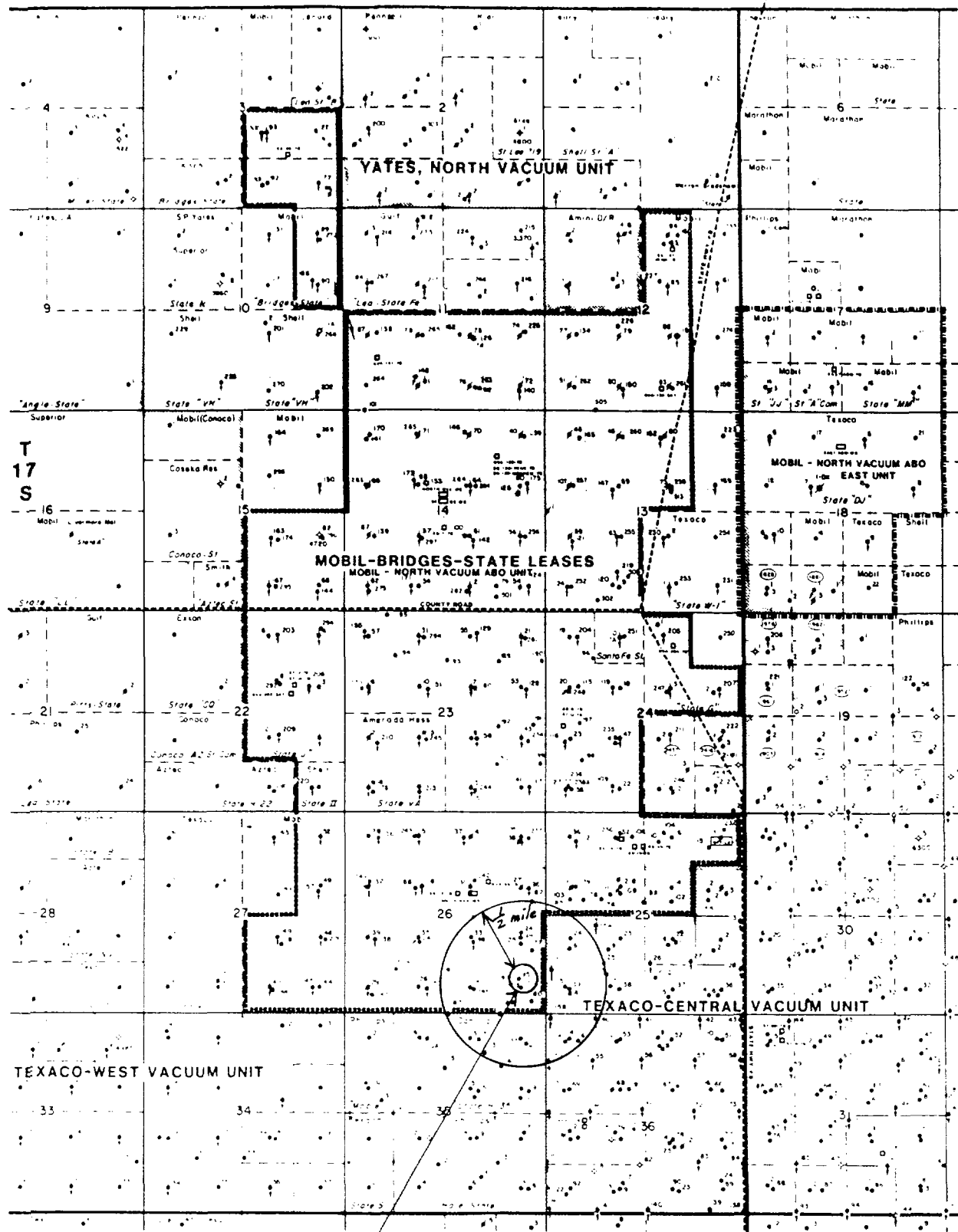
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Signature & Seal of
Professional Surveyor

Certificate No.

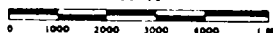




LEGEND

- PROPOSED PRODUCING WELL
- PRODUCING WELL
- INJECTION WELL
- PLUGGED AND ABANDONED WELL
- DRY HOLE
- PRODUCTION BATTERY OR SATELLITE
- WATER INJECTION STATION
- MOBIL - NORTH VACUUM ABO UNIT BOUNDARY
- MOBIL - BRIDGES-STATE LEASES
- MOBIL - NORTH VACUUM ABO UNIT BOUNDARY
- OTHER UNIT BOUNDARIES
- LEASE ROAD
- PAVED ROAD

SCALE



Mobil Producing
Texas & New Mexico Inc.
Midland Division

VACUUM POOL
BRIDGES-STATE LEASES
Lea County, New Mexico

NORTH VACUUM ABO UNIT
ROAD MAP

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.

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

Do not
Delete
Abo
(Green)

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.			

WELLS/LEASES WITHIN TWO MILES
OF
NORTH VACUUM ABO UNIT #95
THAT PENETRATE ABO ZONE OR DEEPER

Section 26

Mobil NVAU #286 Abo
Mobil NVAU #240 Abo
Mobil NVAU #98 WIW Abo

Section 25

Marathon McCallister State #5 Wolfcamp

Section 36

Texaco State BA #6 Upper Penn + Wolfcamp + Abo

Section 35

None

Mobil Exploration & Producing U. S.
North Vacuum Abo Unit #95
Sec 26 T17S R34E

- I. Abo geological data was provided upon the application for water injection into the Abo.
The permit is dated 10-27-72 and is case # 4831

II. Data on proposed operation

Average daily injection rate - 160 BWPD
Maximum daily injection rate - 400 BWPD

*Average injection pressure - 4140 psi
Maximum injection pressure - 4300 psi

Fresh water from the Ogallalla formation will be used for injection into the Abo formation.

- * This was the last surface pressure at which fresh water was injected into the Abo, taken in March 1985.

PROPOSED CONVERSION OF NVAU #95

(See attached C-108 for questions)

- VII.
1. Average daily injection rate - (initial) 160 BWP
Maximum daily injection rate - (initial) 160 BWP
 2. System is closed.
 3. Proposed average daily injection pressure -
(initial) 4140 psi

Proposed maximum daily injection pressure -
(initial) 4140 psi
 4. Will inject fresh water from Ogalalla zone.
Already use this water for remaining injectors
in flood.
 5. Well is for Abo pressure support only and not for
disposal.
- VIII. Geological information submitted upon original
permitting of NVAU waterflood in 1972.
- IX. Well will be perforated and then acidized with
7000 gal 15% DI NEFE HCL + graded rock salt for
diversion.
- X. Well logs already on file with NMOC office in Hobbs.
- XI. Done on previous fresh water injection permits.
- XII. Not disposal well.

ABANDONMENT PROCEDURE OF OTHER ZONES
NVAU #95

1. McKee Sand: Dumped 50 sks cement in 7" casing. Set cast iron bridge plug at 12,500' + 50' cement on top.
2. Devonian: Set cast iron bridge plug at 11,900' + 35' cement on top.
3. Penn: Squeezed with 70 sks cement.
4. Wolfcamp: Squeezed with 250 sks cement.
5. Abo: Squeezed with 575 sks cement.
6. Ran liner over Abo, Wolfcamp, and Penn perms to complete abandonment of these zones.

Notice of Application for Fluid Injection Well Report:

APPLICANT: Mobil Exploration & Producing U.S. Inc.
P.O. Box 633
Midland, Texas 79702
Telephone: 915-688-2452
Contact: J. W. Dixon

PURPOSE: Convert to Water Injection Well, North Vacuum Abo Unit Well #95;
Location - Section 26, Township 17S, Range 34E

OPERATIONAL CHARACTERISTICS: Formation - Abo
Vacuum Abo North Field
Proposed Injection Interval: 8300-8650'

Interested parties may file objections or request a hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87503, within 15 days of this notice.

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., acting by and through its agent
Address: P. O. Box 633 Mobil Exploration & Producing U.S. Inc.

Contact party: J. W. Dixon Phone: (915) 688-2452

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 R-4430 10/27/72.

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: M. E. Sweeney Title Manager Environmental & Regulatory

Signature: *M. E. Sweeney* Date: 4-21-87

* 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. Geological information submitted upon original permitting of

NVAU waterflood in 1972, PMX-51 - 9/20/73, PMX-138 - 11/16/85

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

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

North Vacuum Abo Unit #95
Wellbore Information

Well Name, Location

North Vacuum Abo Unit #95 (Drilled as Bridges State #95)
P-Sec 26-T17S-R34E 860' FSL & 660' FEL

Casing Strings, Cementing

- 13 3/8" 48 lb/ft H-40 casing set to 358' with 350 sks cement. 17 1/2" hole. Cement was circulated to surface.
- 9 5/8" 40 lb/ft J-55 casing set to 4400' with 3600 sks cement. 12 1/4" hole. Cement was circulated to surface.
- 7" 23,26,29,32 lb/ft N-80 casing set to 13,816' with 2750 sks cement. 8 3/4" hole. Cement was circulated to surface.
- 5 1/2" 17 lb/ft N-80 casing set from 8149 - 12,500' with 250 sks cement. Cement was circulated to top of casing at 8149'.

Injection Tubing, Packer

8310' 2 3/8" J-55 bare injection tubing set to 8310' with Baker Lok-Set retrievable injection packer, plastic coated internally. Packer to be set at ± 8310'.

Injection Formation

Abo formation Vacuum Abo North Field
Proposed Injection Interval: 8300 - 8650'

Cased hole injection

Miscellaneous Well Information

Original well completion depth: Devonian
Tested McKee 13,698-13,750'. Dumped 50 sks inside 7" casing 13488-13816'. CIBP set @ 12,500'.
Produced Devonian 12,024-12199'. Presently open for disposal.
Tested Penn 11,112-122'. Squeezed with 70 sks cement.
Produced Wolfcamp 9518-9743'. Squeezed with 250 sks cement.
Injected into Abo 8362-8451, 9070-9199'. Squeezed with 425 sks cement.
Next higher productive zone: Blinbry 6500'
Next lower productive zone: Wolfcamp 9500'

OPERATOR		LEASE			
95	660' FEL & 860' FSL	26	T17S	R34E	
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE	

Schematic

See Attached Sheet

Tabular 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 3600 sx.TOC Surface feet determined by CirculationHole size 12-1/4"Long stringSize 7 " Cemented with 2750 sx.TOC Surface feet determined by CirculationHole size 8-3/4"Total depth 13,816'Injection interval8360' feet to 8520' feet
(perforated or open-hole, indicate which)LinerSize 5-1/2" Cemented with: 250 sksTOC: Linertop @ 8149' Determined by: CirculationHole size: 6.336"Depth of Liner: 8149-12,500'Tubing size 2-3/8" J-55 lined with (bare, no lining) set in a
(material)7" Baker Lok-Set packer at ±8310' feet
(brand and model)

(or describe any other casing-tubing seal).

Other Data1. Name of the injection formation Abo2. Name of Field or Pool (if applicable) Vacuum Abo North3. Is this a new well drilled for injection? ☐ Yes ☒ No

If no, for what purpose was the well originally drilled? _____

Production from McKee, Devonian, Wolfcamp, Penn, Abo

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) _____

Yes, see attached well sketch and list of cement plugs5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Submitted with original field injection request in 1972. Geologic report lists Vacuum Yates, Queen, San Andres, Glorieta, Blinberry, Abo,Wolfcamp, Penn, Devonian and McKee Fields.

DATE 2-23-89

WELL NO. 95 SWD

LEASE North Vacuum Abo Unit

FIELD Vacuum

LOCATION P 26-17S-34E

860' FSL & 660' FEL

Lea County, New Mexico

SIGNED D. G. Elwood

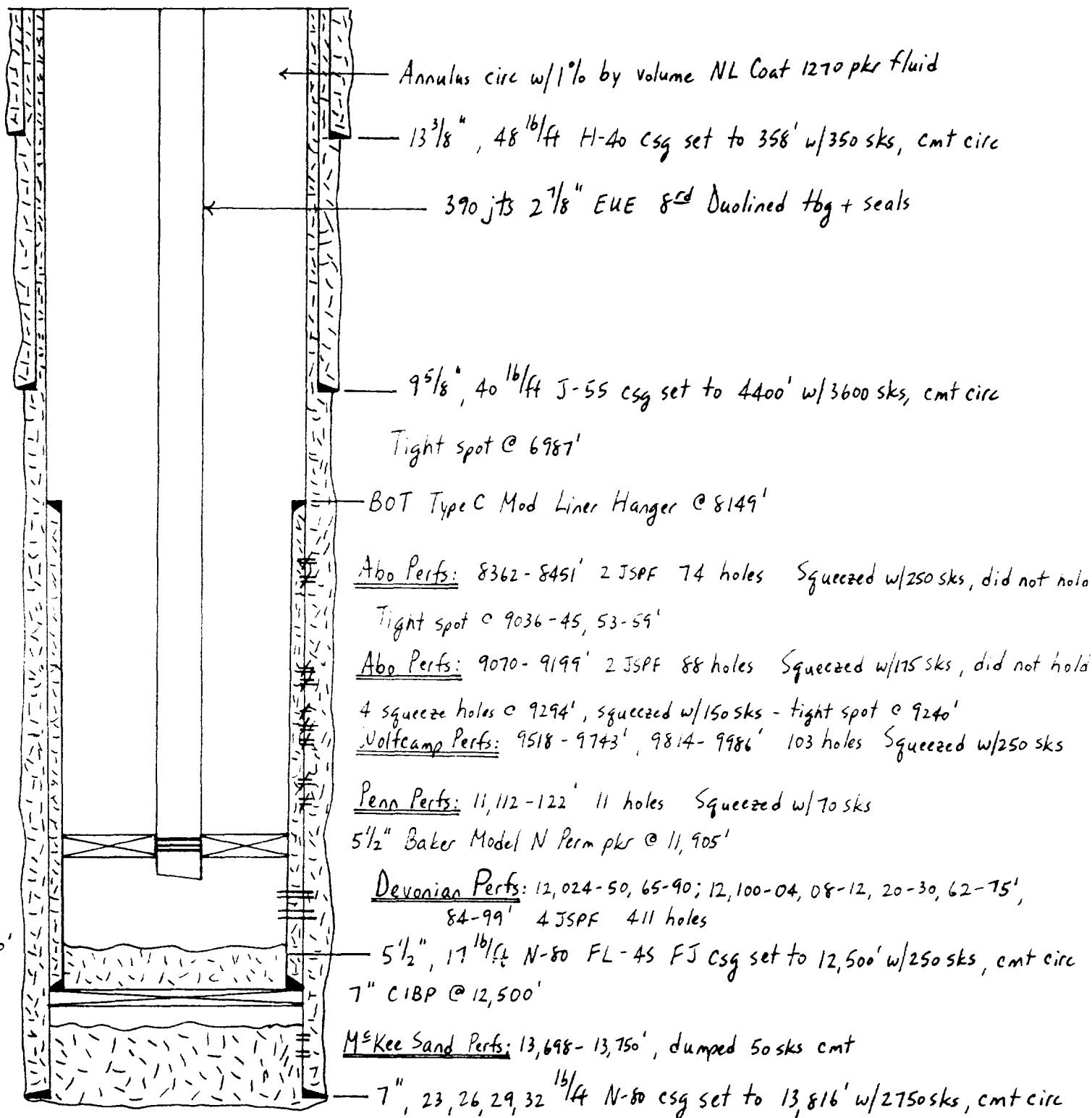
GL 4003'

DF 4013'

KB 4016'

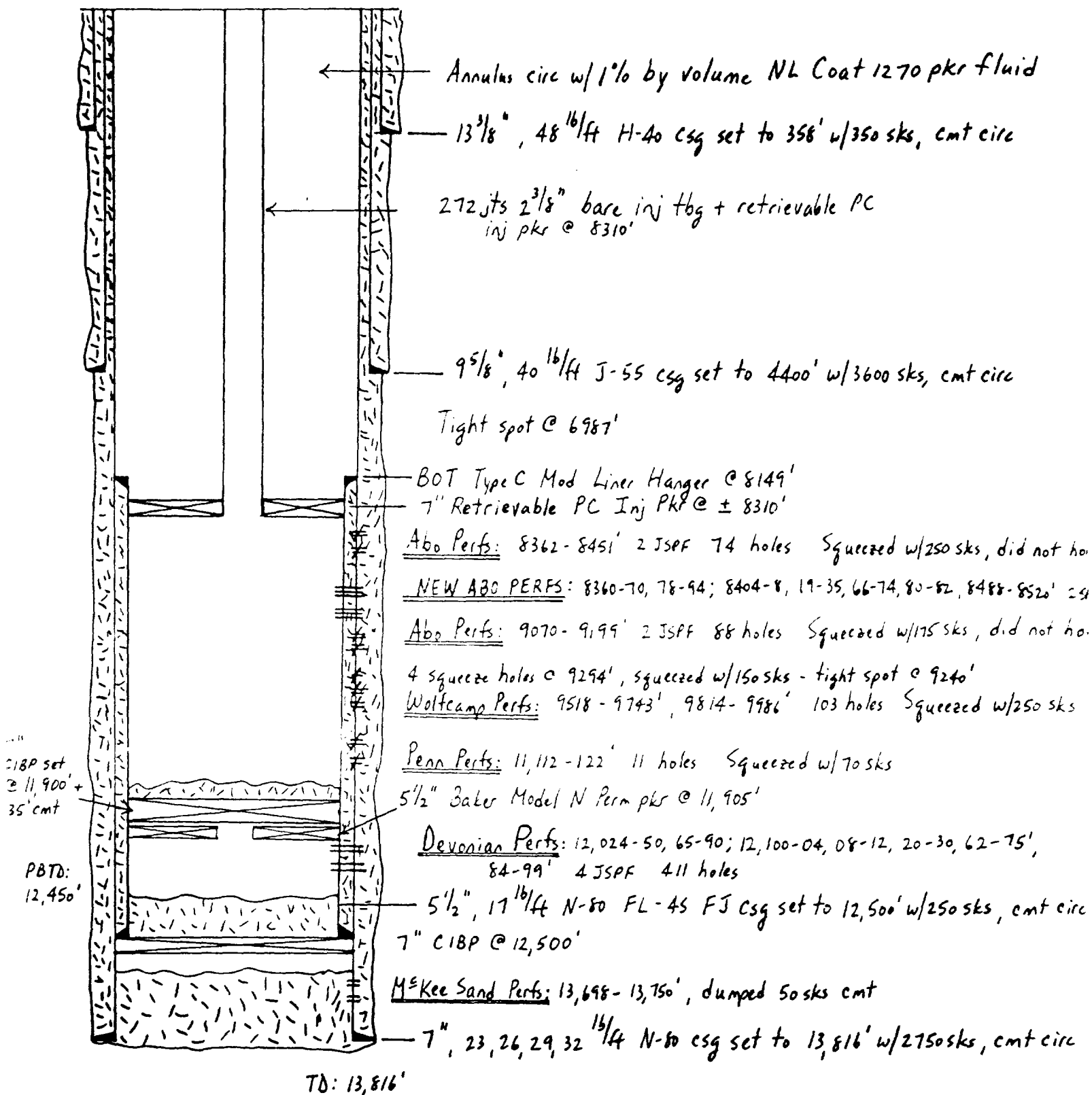
ZERO KB (13' AGL)

PRESENT WELLBORE DIAGRAM



FIELD VacuumLOCATION P 26-17S-34E860' FSL & 660' FELLea County, New MexicoSIGNED D. G. ElwoodGL 4003'DF 4013'KB 4016'ZERO KB (13' AGL)

PROPOSED WELLBORE DIAGRAM



Mobil Producing Texas & New Mexico Inc.
North Vacuum Abo Unit
Well No. 95
Sec. 26 T-17-S, R-34-E
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 2088
Santa Fe, NM 87503

Offset Operators:

Conoco, Inc.
Attn: Dave Wacker
P.O. Box 460
Hobbs, New Mexico 88240

Marathon Oil Company
Attn: Bill Holmes
P.O. Box 552
Midland, Texas 79702

Texaco, Inc.
Attn: J. E. King
P.O. Box 728
Hobbs, New Mexico 88240

Mobil Exploration & Producing U.S. Inc.

Certified - Mail
Return Receipt Requested

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

April 20, 1989

Conoco, Inc.
P.O. Box 460
Hobbs, New Mexico 88240

Attn: Dave Wacker

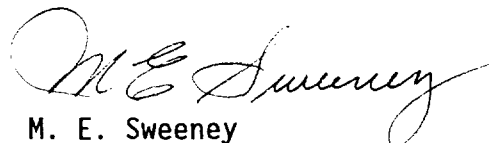
NOTICE OF APPLICATION FOR
WATER INJECTION WELL
NORTH VACUUM ABO UNIT
WELL NO. 95
LEA COUNTY, NEW MEXICO

Gentlemen:

Mobil Exploration & Producing U.S. Inc., as Agent for Mobil Producing Texas & New Mexico Inc., has made application to the Oil Conservation Commission of New Mexico for authority to inject fresh water into a reservoir productive of oil or gas in the above captioned well.

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

Yours very truly,



M. E. Sweeney
Environmental & Regulatory Manager

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico Inc.

JWD/arr

attachments

cc: Oil Conservation Commission (w/attach)

A:M907987A.JWD(1)

Mobil Exploration & Producing U.S. Inc.

Certified - Mail
Return Receipt Requested

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

April 20, 1989

Marathon Oil Company
P.O. Box 552
Midland, Texas 79702

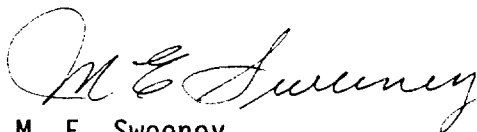
NOTICE OF APPLICATION FOR
WATER INJECTION WELL
NORTH VACUUM ABO UNIT
WELL NO. 95
LEA COUNTY, NEW MEXICO

Gentlemen:

Mobil Exploration & Producing U.S. Inc., as Agent for Mobil Producing Texas & New Mexico Inc., has made application to the Oil Conservation Commission of New Mexico for authority to inject fresh water into a reservoir productive of oil or gas in the above captioned well.

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

Yours very truly,



M. E. Sweeney
Environmental & Regulatory Manager

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico Inc.

JWD/arr

attachments

cc: Oil Conservation Commission (w/attach)

A:M907987A.JWD(1)

Mobil Exploration & Producing U.S. Inc.

Certified - Mail
Return Receipt Requested

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

April 20, 1989

Texaco, Inc.
P.O. Box 728
Hobbs, New Mexico 88240

Attn: J. E. King

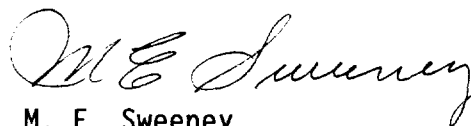
NOTICE OF APPLICATION FOR
WATER INJECTION WELL
NORTH VACUUM ABO UNIT
WELL NO. 95
LEA COUNTY, NEW MEXICO

Gentlemen:

Mobil Exploration & Producing U.S. Inc., as Agent for Mobil Producing Texas & New Mexico Inc., has made application to the Oil Conservation Commission of New Mexico for authority to inject fresh water into a reservoir productive of oil or gas in the above captioned well.

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

Yours very truly,



M. E. Sweeney
Environmental & Regulatory Manager

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico Inc.

JWD/arr

attachments

cc: Oil Conservation Commission (w/attach)

A:M907987A.JWD(1)

Mobil Exploration & Producing U.S. Inc.

P.O. BOX 633
MIDLAND, TEXAS 79702

April 20, 1989

MIDLAND DIVISION

County Clerk
Ms. Pat Snipes
P.O. Box 1507
Lovington, New Mexico 88260

NOTICE OF APPLICATION FOR

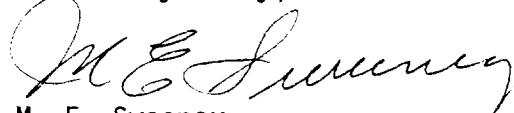
WATER INJECTION WELL
NORTH VACUUM ABO UNIT
WELL NO. 95
LEA COUNTY, NEW MEXICO

Dear Ms. Snipes:

Mobil Exploration & Producing U.S. Inc., as Agent for Mobil Producing Texas & New Mexico Inc., has made application to the Oil Conservation Commission of New Mexico, to inject fresh water into a reservoir productive of oil or gas in the above captioned well.

The Oil Conservation Division requires that the enclosed application be sent to you for public information notice in the county in which the well is located. Please post the attached application as you desire.

Yours very truly,



M. E. Sweeney
Environmental & Regulatory Manager

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico Inc.

JWD/arr

attachments

cc: Oil Conservation Commission (w/attach)

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

Joyce Clements being first duly sworn on oath deposes and says that he is Adv. Director of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled
Notice Of Application For Fluid
Injection Well Permit

and numbered in the
..... Court of Lea
County, New Mexico, was published in a regular and
entire issue of THE LOVINGTON DAILY LEADER and
not in any supplement thereof, once each week on the
same day of the week, for one (1)
consecutive weeks, beginning with the issue of
April 7, 1989
and ending with the issue of
April 7, 1989

And that the cost of publishing said notice is the
sum of \$ 11.67
which sum has been (Paid) (~~Not Paid~~) as Court Costs

Joyce Clements
Subscribed and sworn to before me this 13th
day of April, 1989

Notary Public, Lea County, New Mexico
My Commission Expires Sept. 28, 1990

LEGAL NOTICE NOTICE OF APPLICATION FOR FLUID INJECTION WELL PERMIT

Mobil Producing Texas & New Mexico Inc., acting by and through its agent Mobil Exploration & Producing U.S. Inc., P.O. Box 633, Midland, Tx 79702

has applied to the Railroad Commission of Texas for permit to inject fluid into a formation which is productive of oil or gas.

The applicant proposes to inject fluid into the Abo, North Vacuum Abo Unit, Well Number 95. The proposed injection well is located 13 miles Southwest of Lovington, N.M. in the Vacuum North Field, in Lea County. Fluid will be injected into strata in the subsurface depth interval from 8300 to 8650 feet.

LEGAL AUTHORITY: Chapter 27 of the Texas Water Code, as amended, Title 3 of the Natural Resources Code, as amended, and the Statewide Rules of the Oil and Gas Division of the Railroad Commission of Texas.

Requests for a public hearing from persons who can show they are adversely affected, or requests for further information concerning any aspect of the application should be submitted in writing, within fifteen days of publication, to the Underground Injection Control Station, Austin, Texas 78711 (Telephone 512/463-6790).

Published in the Lovington Daily Leader April 7, 1989.

No. of Spills received _____
 DISTRIBUTION _____
 SANTA FE _____
 FILE _____
 U.S.G.S. _____
 LAND OFFICE _____
 OPERATOR _____

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

B-1520-1
 X
 North Vacuum Abo Unit

1. TYPE OF WELL _____
 2. TYPE OF COMPLETION
 NEW ☒ MOD ☐ REPAIR ☐
 3. NAME OF WELLER
 Mobil Producing TX. & N.M. Inc.
 4. ADDRESS OF WELLER
 Nine Greenway Plaza, Suite 2700, Houston, Texas 77046
 5. LOCATION OF WELL
 UNIT LETTER I LOCATED 665 FEET FROM THE East 2131

240
 Vacuum Abo, North

15. DATE OF TEST 4/07/84 4/30/84 5/22/84 4015 GR 4015 GR
 20. TOTAL LENGTH 8700 8691 0-8700
 24. PRODUCTION INTERVALS OF THIS WELL (Indicate depth in feet)
 8387-8564 Abo
 26. TYPE Electric and Other Log Tool _____
 Dual Spaced Neutron, Compensated Acoustic Velocity, Dual Guard-Foxro No

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

CASING SIZE	WEIGHT L.B. FT.	DEPTH SET	MOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	48#	427	17-1/2	400X C (circulated)	
8-5/8	32#	5000	12-1/4	3100X C (circulated)	
			7-7/8		

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
5-1/2	4190	8699	1050		2-7/8	8575	SN @ 8575

31. PERFORATION, SPECIAL MATERIAL, SIZE AND NUMBER
 Perf w/1USPF @ 8509-11, 8526-31, 8534-37, 8562-64 (16 holes)
 Perf w/1USPF @ 8387-90, 8404-09, 8414-18, 8509-8564
 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
 DEPTH INTERVAL 8509-8564
 AMOUNT AND KIND MATERIAL USED Acidized w/3500 gals. 15 DINE Fe HCl

ILLEGIBLE

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 Water 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 Inferno
Cement Top 3470' (T. Surve)

Abo, Perfs. @ 9848-9951'

Wolfcamp Perfs. 9848-9951'

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

DATE 11-28-84 WELL NO. 7 LEASE Marathon's McCallister State FIELD Valuum Wolfcamp

Valuum Upper Penn
Abo N.

LOCATION N-25-17S-34E

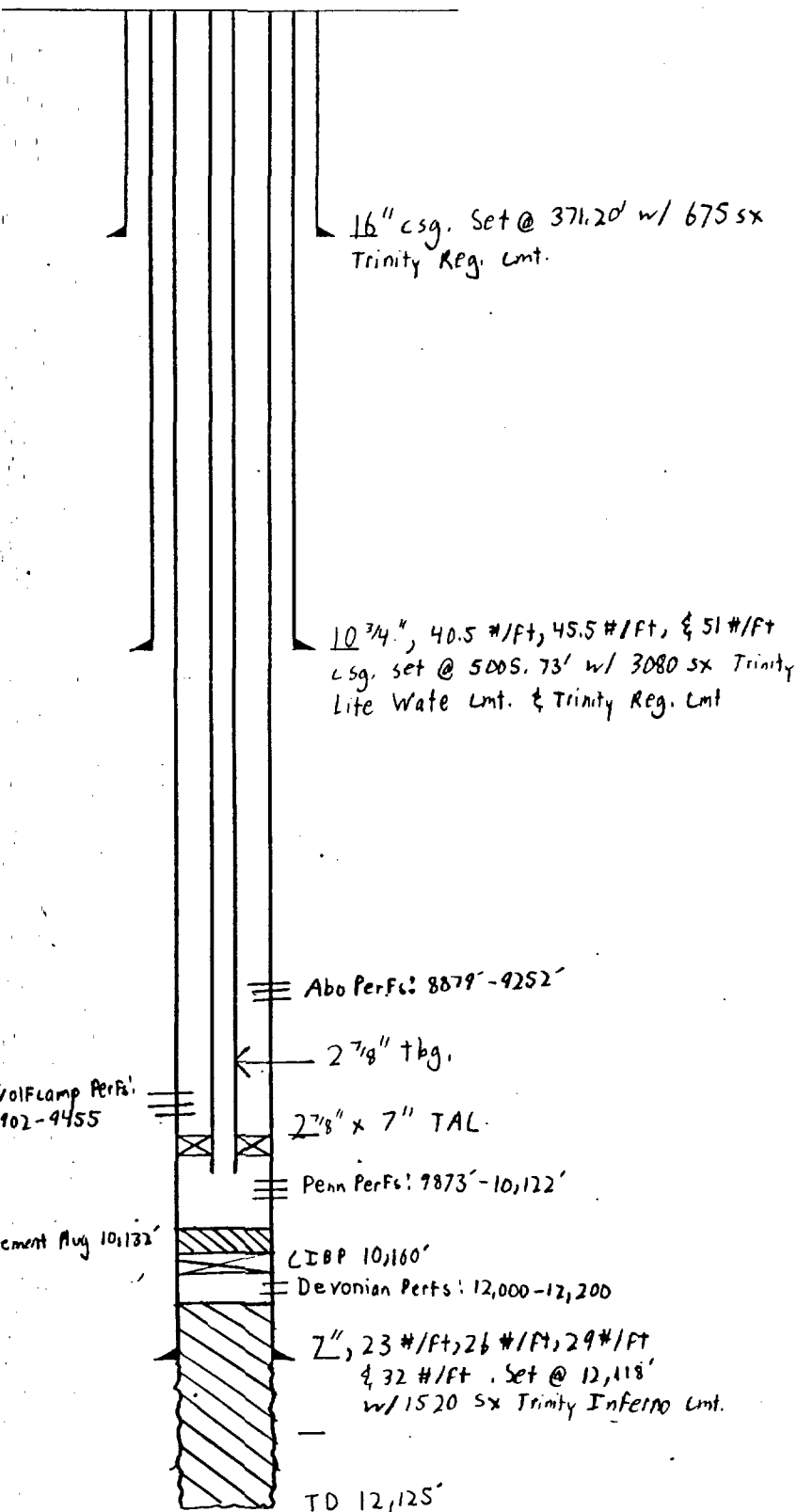
SIGNED _____

G.L. 4005'

D.F. _____

K.B. 4017'

ZERO 12' AGL



FOR

JOB OR AUTH. NO.

LOCATION B-35-175-34E

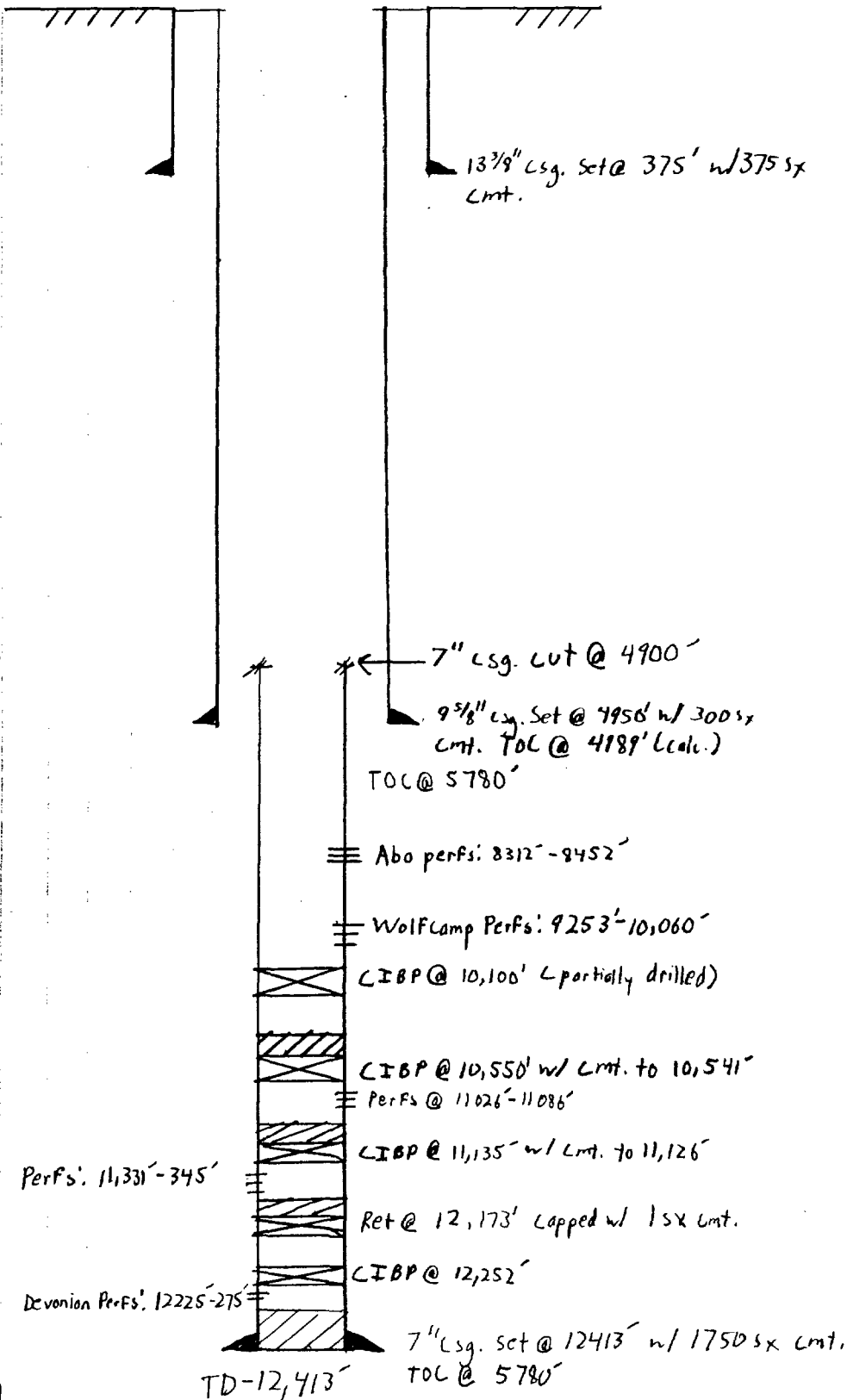
PAGE

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

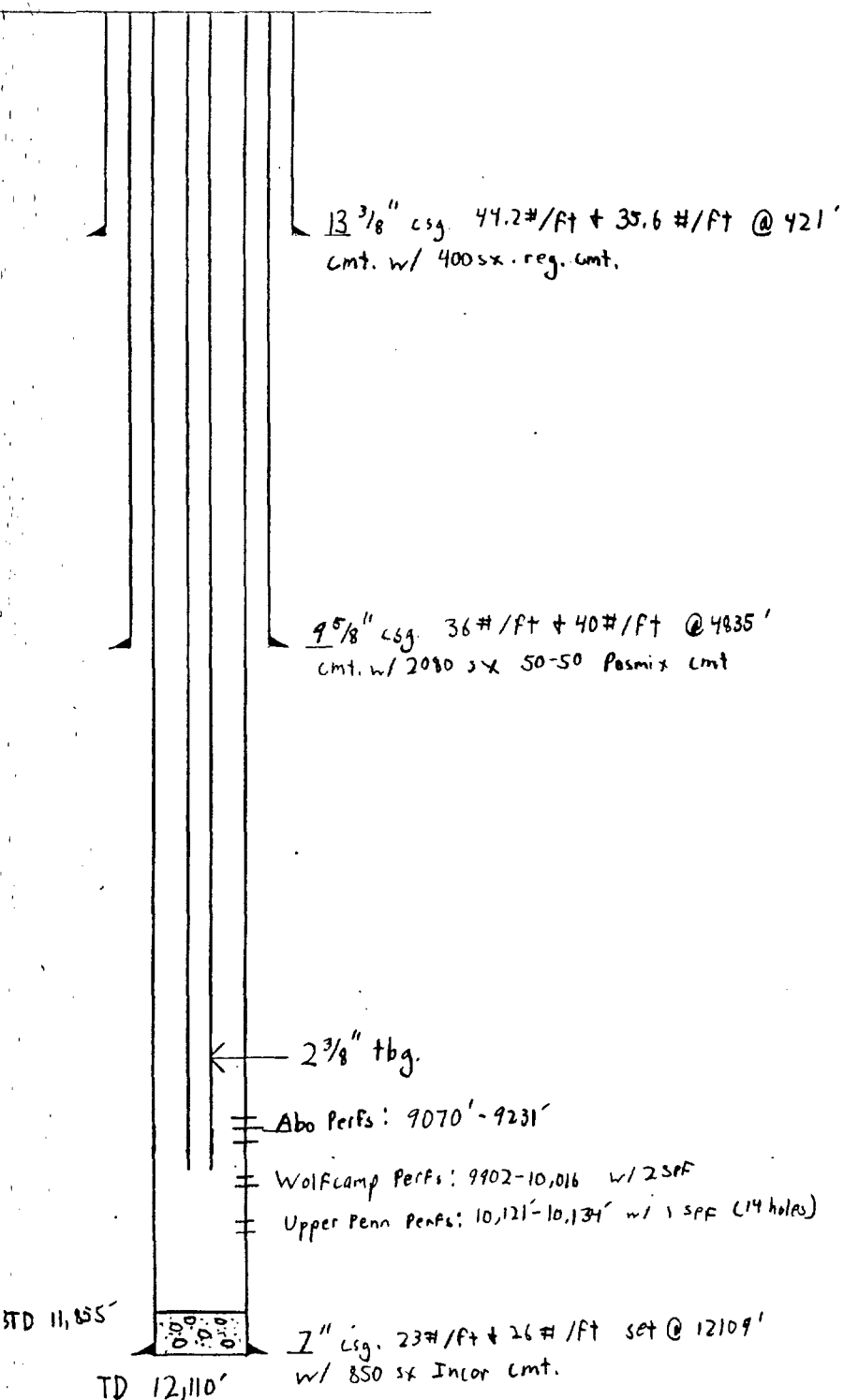
SIGNED _____

G.L. 4002'

D.F. _____

K.B. _____

ZERO _____



RECEIVED

Mobil Exploration & Producing U.S., Inc.

May 26, 1989

JUN - 1 1989

New Mexico State Land Office
P. O. Box 2088
Santa Fe, New Mexico 88240

OIL CONSERVATION DIV.
P.O. BOX 2088
SANTA FE
MIDLAND, TEXAS 79702

MIDLAND DIVISION

Attention: David Catanach

NOTICE OF APPLICATION FOR
WATER INJECTION WELL
NORTH VACUUM ABO UNIT
WELL NO. 95
LEA COUNTY, NEW MEXICO

Gentlemen:

Per your request for casing and cementing on North Vacuum Abo Unit Nos. 96, 98, and 153, please find the following information:

Well 96 - 13-3/8" set to 365' w/350 sks cmt,
cmt circulated to surface.
9-5/8" set to 4400' w/2400 sks cmt,
cmt circulated to surface.
7-5/8" set to 11,515' w/1150 sks,
cmt top at 6630 (temp survey).
Perf at 6620', circulated 860 sks cmt to surface.

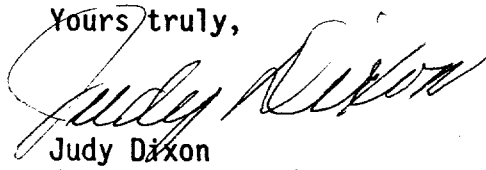
Well 98 - 13-3/8" set to 362' w/350 sks cmt,
cmt circulated to surface.
10-3/4" set to 4400' w/1732 sks,
cmt circulated to surface.
4-1/2" (string 3) set to 10,217' w/3450 sks,
cmt circulated to surface.
2-7/8" (string 2) set to 11,657' P&A'd
2-7/8" (string 1) set to 11,657' P&A'd

Well 153: 8-5/8" set to 1600' w/1000 sks,
cmt circulated to surface.
5-1/2" set to 8700' w/4100 sks cement,
Top of cement at 2600' (temp survey),
Perf at 1706', circulated 400 sks to surface.

Also, please be advised Newspaper publication will be forthcoming.

If you need any additional information, please advise.

Yours truly,



Judy Dixon
Env. & Reg. Technician

JWDixon

A:M907987A.JWD(1)

Mobil Exploration & Producing U.S. Inc.

P.O. BOX 633
MIDLAND, TEXAS 79702

April 20, 1989

MIDLAND DIVISION

New Mexico State Land Office(2)
P.O. Box 2088
Santa Fe, New Mexico 88240

RECEIVED

APR 25 1989

OIL CONSERVATION DIV.
SANTA FE

NOTICE OF APPLICATION FOR
WATER INJECTION WELL
NORTH VACUUM ABO UNIT
WELL NO. 95
LEA COUNTY, NEW MEXICO

Gentlemen:

Mobil Exploration & Producing U.S. Inc. (MEPUS), respectfully requests authority to inject fresh water into the Abo formation in this wellbore.

NVAU #95 is presently an inactive produced water disposal well in the Devonian formation. MEPUS plans to abandon the Devonian perforations with a bridge plug and perforate the Abo formation. The Devonian formation proved too tight to dispose of appreciable amounts of produced water. The conversion of #95 is needed to enhance oil and gas production in two offset producers, NVAU #286 and #240.

Information supporting the application is presented on Forms C-101, C-102 and C-108.

NVAU #95 was originally permitted for Abo water injection in 1972. Based upon that initial application and injection tracer surveys run in the wellbore since, MEPUS finds no evidence of any hydrological connection between the Abo injection zone and any underground source of drinking water.

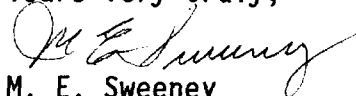
NMOCD
North Vacuum Abo Unit
Well No. 95
Lea County, New Mexico

-2-

April 20, 1989

If any further information is needed, please call, J. W. Dixon at (915) 688-2452.

Yours very truly,



M. E. Sweeney
Environmental & Regulatory Manager

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico Inc.

JWD/arr

attachments

cc: NMOCD - Hobbs (w/attach)
Offset Operators(w/attach)
County Clerk (w/attach)

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☐ RE-ENTER ☐ DEEPEN ☐ PLUG BACK ☒

b. Type of Well:

OIL WELL ☐ GAS WELL ☐ OTHER Water Injection ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. Name of Operator

Mobil Producing Tx. & N.M. Inc.

7. Lease Name or Unit Agreement Name

North Vacuum Abo Unit

3. Address of Operator

c/o Mobil Exploration & Producing U.S. Inc.
P.O. Box 633, Midland, Texas 79702

8. Well No.

95

9. Pool name or Wildcat

Vacuum Devonian

4. Well Location

Unit Letter P : 860' Feet From The South Line and 660' Feet From The East Line

Section 26 Township 17S Range 34E NMPM Lea County

10. Proposed Depth
13,816'

11. Formation
Abo

12. Rotary or C.T.
NA

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

KB: 4016' GL: 4003'

14. Kind & Status Plug. Bond

Active Blanket

15. Drilling Contractor

Unknown

16. Approx. Date Work will start

April, 1989

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17-1/2	13-3/8	48#	358'	350 sx	Surface
12-1/4	9-5/8	40#	4400'	358 sx.	Surface
8-3/4	7	23,26,29,32	13,816'	2750 sx	Surface
8-3/4	5-1/2	17#	12,500	250 sx	8149'

PURPOSE TO CONVERT FROM DEVONIAN DISPOSAL TO ABO INJECTION

1. MIRU Workover Unit. NU BOP, test. String out of perm pkr, POOH w/2-7/8" Duolined tubing.
2. MIRU Wireline Company, RIH w/5-1/2" CIBP, Set @ $\pm 11,990'$ + 35' cmt. Perforate Abo: 8360-70, 78-94; 8404-08, 19-35, 66-74, 80-82, 8488-8520' 2 SPF
- 2a. Swab test perfs 8480-8520' for production test in Lower Abo.
3. RD wireline company. RIH with new 2-3/8" base injection tubing + 5-1/2" Retrievable pkr. Set pkr @ $\pm 8310'$.
4. MIRU Service Company. Treat Abo perfs with 7,000 gal 15% HCL.
5. Install injection wellhead, put well on fresh water injection into Abo.

Average daily injection rate - (initial) 160 BWPD

Maximum daily injection rate - (initial) 160 BWPD

System is closed.

Proposed average daily injection pressure - (initial) 4140 psi

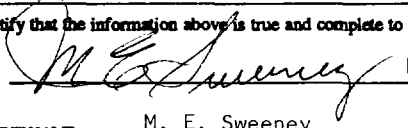
Proposed maximum daily injection pressure (initial) 4140 psi

Will inject fresh water from Ogalalla zone. Already use this water for remaining injectors in flood.

Well is for Abo pressure support only and not for disposal.

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.

SIGNATURE  M. E. Sweeney TITLE Manager Environmental & Regulatory DATE 4/21/89
M. E. Sweeney acting by and through its agent
Mobil Exploration & Producing U.S. Inc. TELEPHONE NO. (915) 688-2452

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Mobil Producing Tx. & N. M. Inc.			Lease North Vacuum Abo Unit		Well No. 95
Unit Letter P	Section 26	Township 17S	Range 34E	County Lea	NMPM
Actual Footage Location of Well: 860' feet from the FSL line and 660' feet from the FEL line					
Ground level Elev. 4003'	Producing Formation Abo		Pool Vacuum Abo North		Dedicated Acreage: of well 40 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 interest 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 interest, has been approved by the Division.

R-34-E

26

**T
17
S**

95
660'
860'

OPERATOR CERTIFICATION

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

M. E. Sweeney
Signature
M. E. Sweeney
Printed Name
Manager Environmental & Regulatory
Position
Mobil Producing Texas & New Mexico Inc.
Company
acting by and through its agent
Mobil Exploration & Producing U.S. Inc.
Date
4/21/89

SURVEYOR CERTIFICATION

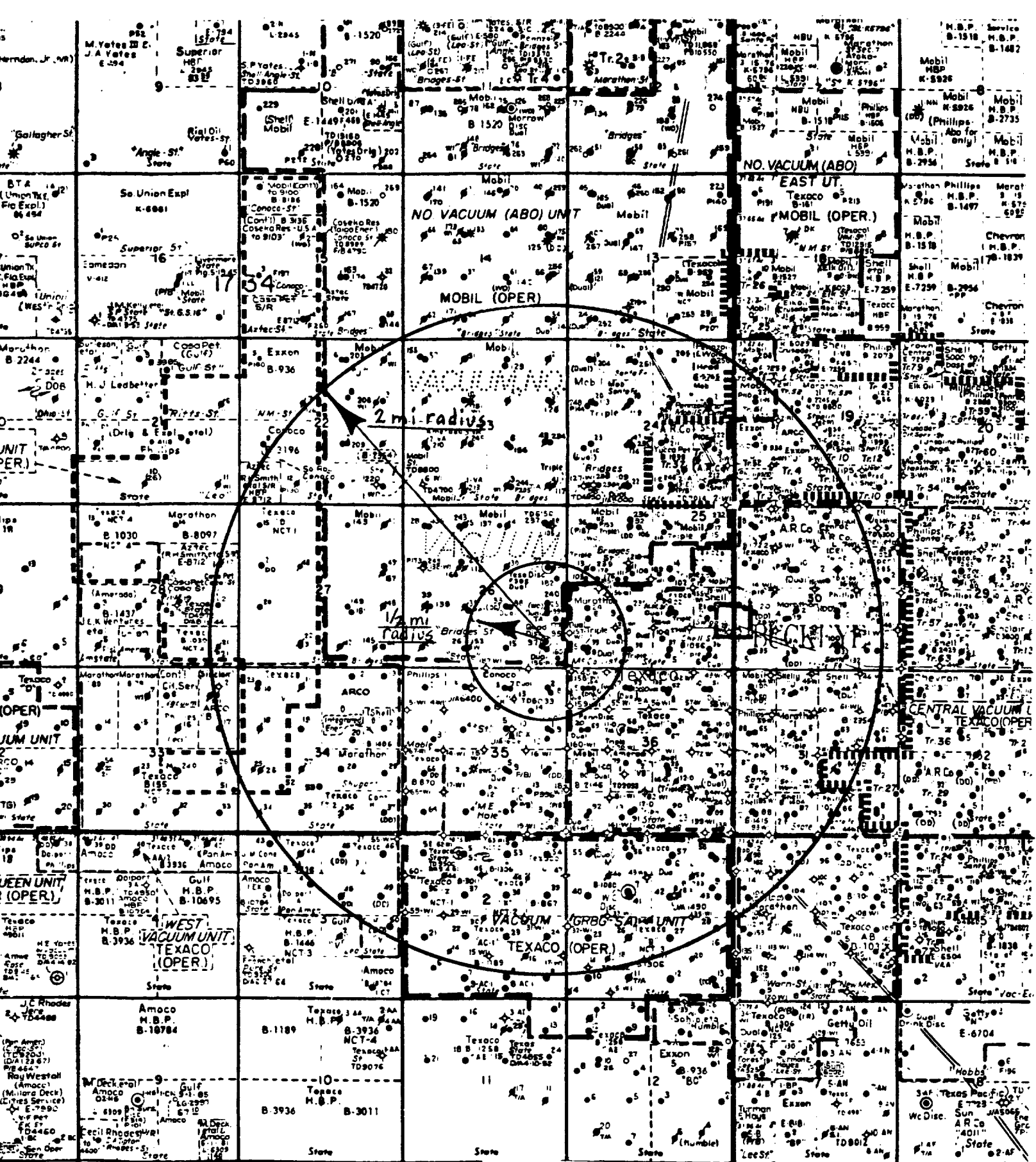
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

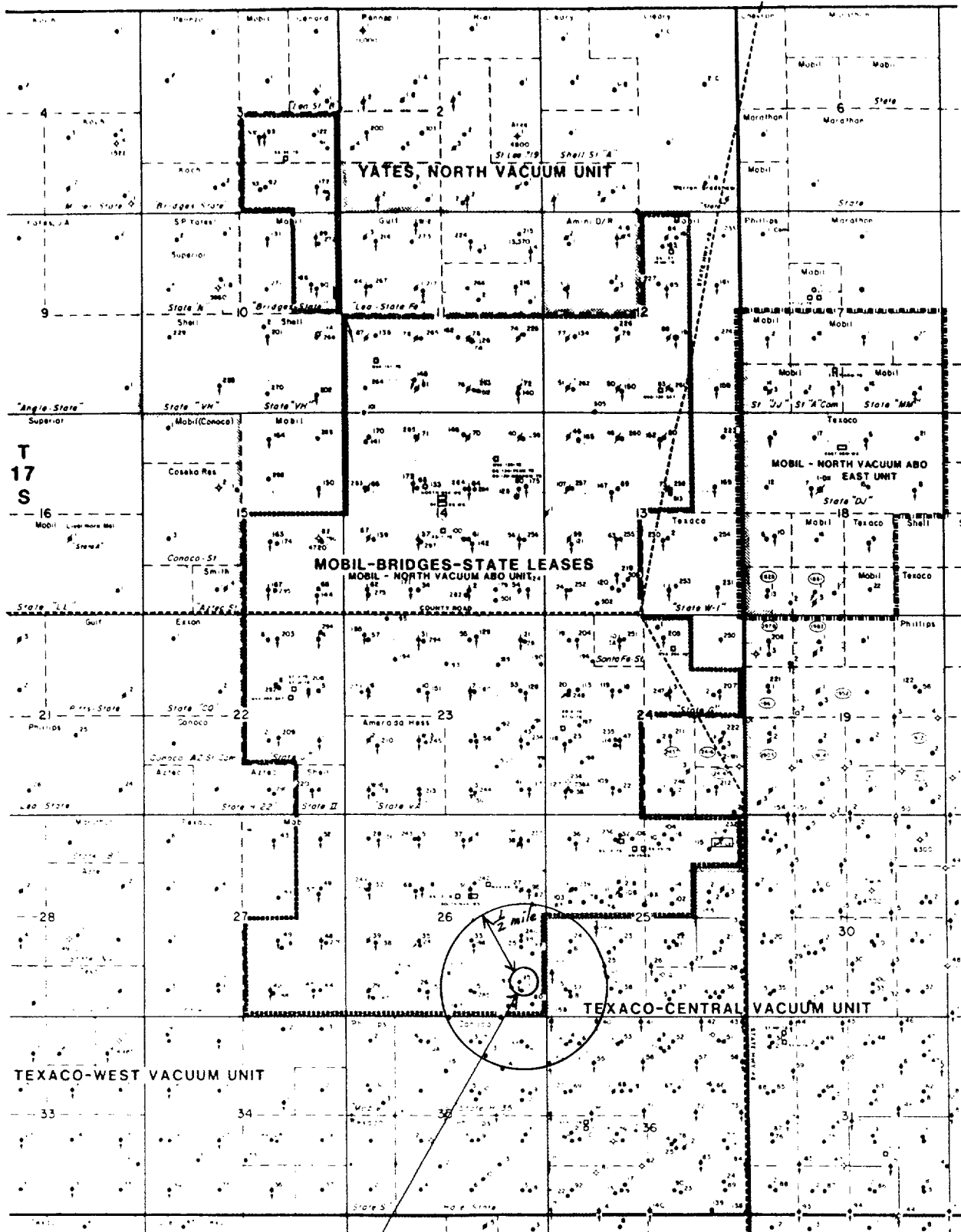
Date Surveyed

Signature & Seal of
Professional Surveyor

Certificate No.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

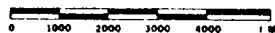




LEGEND

- PROPOSED PRODUCING WELL
- PRODUCING WELL
- INJECTION WELL
- PLUGGED AND ABANDONED WELL
- DRY HOLE
- PRODUCTION BATTERY OR SATELLITE
- WATER INJECTION STATION
- MOBIL - NORTH VACUUM ABO UNIT BOUNDARY
- MOBIL - BRIDGES STATE LEASES
- MOBIL - NORTH VACUUM ABO EAST UNIT BOUNDARY
- OTHER UNIT BOUNDARIES
- LEASE ROAD
- PAVED ROAD

SCALE



North Vacuum Abo Unit #95 SWDW
To Be Converted To NVAU #95 W1W

Mobil Producing
Texas & New Mexico Inc.
Midland Division

VACUUM POOL
BRIDGES-STATE LEASES
Leas County, New Mexico

NORTH VACUUM ABO UNIT
ROAD MAP

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.

Lease	Well No.	Location	Well Type	Date Drilled	Depth	Completion Interval
Mobil Producing Texas & New Mexico Inc.						
Bridges State	12	26-17S-34E	O11	07/30/48	4,725'	San Andres 4125-4725'
"	15	26-17S-34E	O11	11/30/48	4,780'	San Andres
"	25	26-17S-34E	O11	02/22/39	4,750'	San Andres 4442-4726'
"	26	26-17S-34E	O11	02/28/49	4,800'	San Andres 4629-4633'
"	33	26-17-34E	O11		4,782'	San Andres 4471-4762'
"	97	26-17S-34E	O11	01/21/63	6,750'	Glorietta 5974-5988'
"	99	26-17S-34E	O11	07/18/63	6,750'	Glorietta
"	103	25-17S-34E	O11			Glorietta 5982-6053'
"	177	25-17S-34E	O11	01/24/74	4,850'	San Andres 4438-4733'
"	180	26-17S-34E	O11	02/14/74	4,850'	San Andres 4228-4736'
"	182	26-17S-34E	O11			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/O11	03/03/84	12,390'	Abo 8397-8462'
Abo Unit	98	26-17S-34E	O11		11,660'	Abo 8566-8814'
"	153	26-17S-34E	Inj.	03/29/71	8,700'	Abo 8456-8614'
"	240	26-17S-34E	O11			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.			

WELLS/LEASES WITHIN TWO MILES
OF
NORTH VACUUM ABO UNIT #95
THAT PENETRATE ABO ZONE OR DEEPER

Section 26

Mobil NVAU #286 Abo
Mobil NVAU #240 Abo
Mobil NVAU #98 WIW Abo

Section 25

Marathon McCallister State #5 Wolfcamp

Section 36

Texaco State BA #6 Upper Penn + Wolfcamp + Abo

Section 35

None

Mobil Exploration & Producing U. S.
North Vacuum Abo Unit #95
Sec 26 T17S R34E

I. Abo geological data was provided upon the application
for water injection into the Abo.
The permit is dated 10-27-72 and is case # 4831

II. Data on proposed operation

Average daily injection rate - 160 BWPD
Maximum daily injection rate - 400 BWPD

*Average injection pressure - 4140 psi
Maximum injection pressure - 4300 psi

Fresh water from the Ogallalla formation will be used
for injection into the Abo formation.

* This was the last surface pressure at which fresh water
was injected into the Abo, taken in March 1985.

PROPOSED CONVERSION OF NVAU #95

(See attached C-108 for questions)

- VII.
1. Average daily injection rate - (initial) 160 BWPD
Maximum daily injection rate - (initial) 160 BWPD
 2. System is closed.
 3. Proposed average daily injection pressure -
(initial) 4140 psi

Proposed maximum daily injection pressure -
(initial) 4140 psi
 4. Will inject fresh water from Ogalalla zone.
Already use this water for remaining injectors
in flood.
 5. Well is for Abo pressure support only and not for
disposal.
- VIII. Geological information submitted upon original
permitting of NVAU waterflood in 1972.
- IX. Well will be perforated and then acidized with
7000 gal 15% DI NEFE HCL + graded rock salt for
diversion.
- X. Well logs already on file with NMOCD office in Hobbs.
- XI. Done on previous fresh water injection permits.
- XII. Not disposal well.

ABANDONMENT PROCEDURE OF OTHER ZONES
NVAU #95

1. McKee Sand: Dumped 50 sks cement in 7" casing. Set cast iron bridge plug at 12,500' + 50' cement on top.
2. Devonian: Set cast iron bridge plug at 11,900' + 35' cement on top.
3. Penn: Squeezed with 70 sks cement.
4. Wolfcamp: Squeezed with 250 sks cement.
5. Abo: Squeezed with 575 sks cement.
6. Ran liner over Abo, Wolfcamp, and Penn perms to complete abandonment of these zones.

Notice of Application for Fluid Injection Well Report:

APPLICANT: Mobil Exploration & Producing U.S. Inc.
P.O. Box 633
Midland, Texas 79702
Telephone: 915-688-2452
Contact: J. W. Dixon

PURPOSE: Convert to Water Injection Well, North Vacuum Abo Unit Well #95;
Location - Section 26, Township 17S, Range 34E

OPERATIONAL CHARACTERISTICS: Formation - Abo
Vacuum Abo North Field
Proposed Injection Interval: 8300-8650'

Interested parties may file objections or request a hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87503, within 15 days of this notice.

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., acting by and through its agent
Address: P. O. Box 633 Mobil Exploration & Producing U.S. Inc.
Contact party: J. W. Dixon Phone: (915) 688-2452
- 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 R-4430 10/27/72.
- 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: M. E. Sweeney Title Manager Environmental & Regulatory
Signature: *M. E. Sweeney* Date: 4-21-87
- * 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. Geological information submitted upon original permitting of
NVAU waterflood in 1972, PMX-51 - 9/20/73, PMX-138 - 11/16/85
- DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

North Vacuum Abo Unit #95
Wellbore Information

Well Name, Location

North Vacuum Abo Unit #95 (Drilled as Bridges State #95)
P-Sec 26-T17S-R34E 860' FSL & 660' FEL

Casing Strings, Cementing

- 13 3/8" 48 lb/ft H-40 casing set to 358' with 350 sks cement. 17 1/2" hole. Cement was circulated to surface.
- 9 5/8" 40 lb/ft J-55 casing set to 4400' with 3600 sks cement. 12 1/4" hole. Cement was circulated to surface.
- 7" 23,26,29,32 lb/ft N-80 casing set to 13,816' with 2750 sks cement. 8 3/4" hole. Cement was circulated to surface.
- 5 1/2" 17 lb/ft N-80 casing set from 8149 - 12,500' with 250 sks cement. Cement was circulated to top of casing at 8149'.

Injection Tubing, Packer

8310' 2 3/8" J-55 bare injection tubing set to 8310' with Baker Lok-Set retrievable injection packer, plastic coated internally. Packer to be set at ± 8310'.

Injection Formation

Abo formation Vacuum Abo North Field
Proposed Injection Interval: 8300 - 8650'

Cased hole injection

Miscellaneous Well Information

Original well completion depth: Devonian
Tested McKee 13,698-13,750'. Dumped 50 sks inside 7" casing 13488-13816'. CIBP set @ 12,500'.
Produced Devonian 12,024-12199'. Presently open for disposal.
Tested Penn 11,112-122'. Squeezed with 70 sks cement.
Produced Wolfcamp 9518-9743'. Squeezed with 250 sks cement.
Injected into Abo 8362-8451, 9070-9199'. Squeezed with 425 sks cement.
Next higher productive zone: Blinbry 6500'
Next lower productive zone: Wolfcamp 9500'

INJECTION WELL DATA SHEET

Mobil Producing Texas & New Mexico Inc.

North Vacuum Abo Unit

OPERATOR		LEASE		
95	660' FEL & 860' FSL	26	T17S	R34E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic

See Attached Sheet

Tabular DataSurface Casing

Size 13-3/8 " Cemented with 350 sx.
 TOC Surface feet determined by Circulation
 Hole size 17-1/2"

Intermediate Casing

Size 9-5/8 " Cemented with 3600 sx.
 TOC Surface feet determined by Circulation
 Hole size 12-1/4"

Long string

Size 7 " Cemented with 2750 sx.
 TOC Surface feet determined by Circulation
 Hole size 8-3/4"

Total depth 13,816'

Injection interval

8360' feet to 8520' feet
 (perforated or open-hole, indicate which)

Liner

Size 5-1/2 " Cemented with: 250 sks
 TOC: Linertop @ 8149' Determined by: Circulation
 Hole size: 6.336"
 Depth of Liner: 8149-12,500'

Tubing size 2-3/8" J-55 lined with (bare, no lining) set in a
 (material)
7" Baker Lok-Set packer at +8310' feet
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

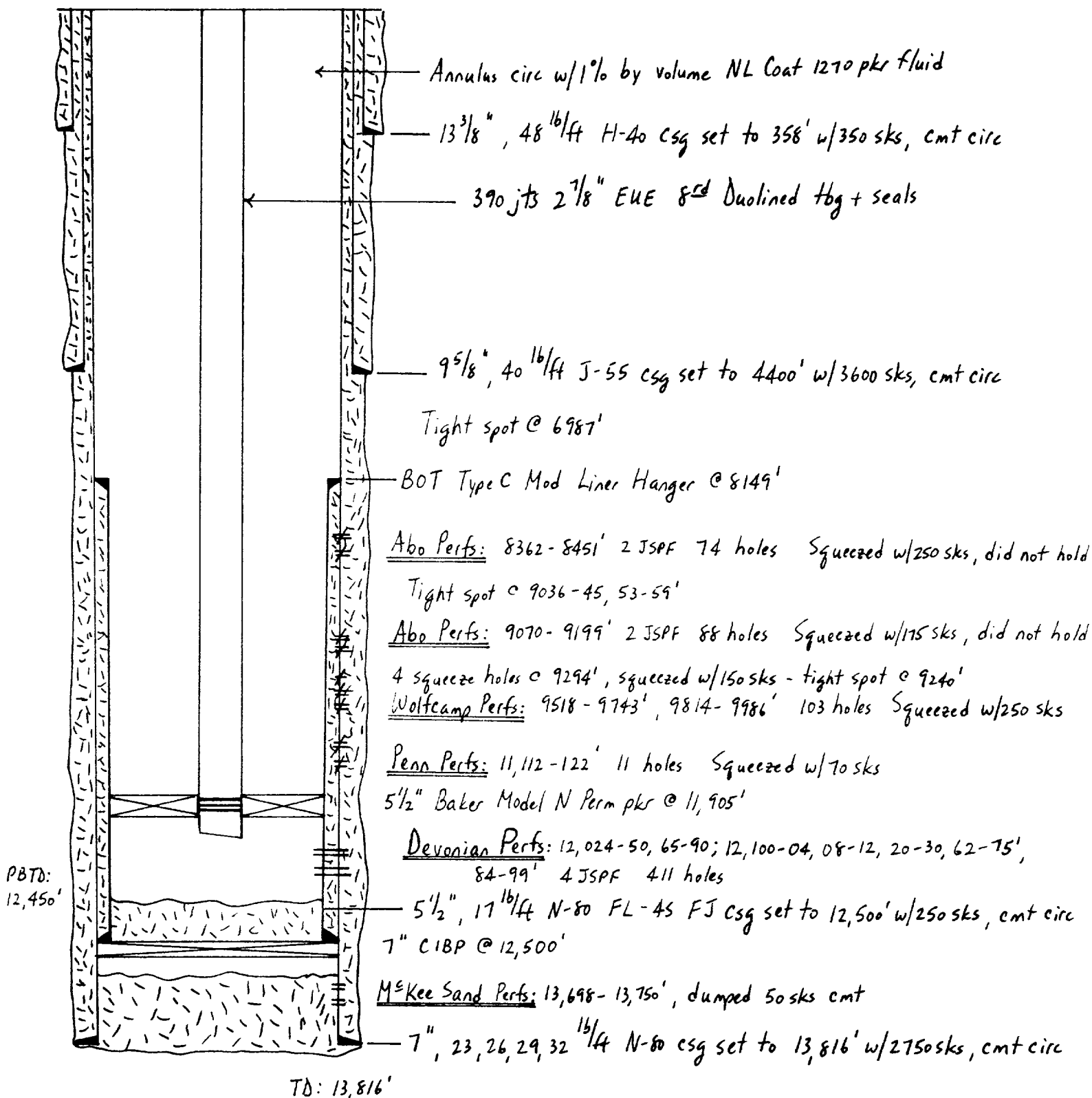
- Name of the injection formation Abo
- Name of Field or Pool (if applicable) Vacuum Abo North
- Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Production from McKee, Devonian, Wolfcamp, Penn, Abo
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) Yes, see attached well sketch and list of cement plugs
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Submitted with original field injection request in 1972. Geologic report lists Vacuum Yates, Queen, San Andres, Glorieta, Blinbry, Abo, Wolfcamp, Penn, Devonian and McKee Fields.

DATE 2-23-89 WELL NO. 95 SWD LEASE North Vacuum Abo Unit
 FIELD Vacuum LOCATION P 26-17S-34E 860' FSL & 660' FEL
 Lea County, New Mexico

SIGNED D. G. Elwood

GL 4003'
 DF 4013'
 KB 4016'
 ZERO KB (13' AGL)

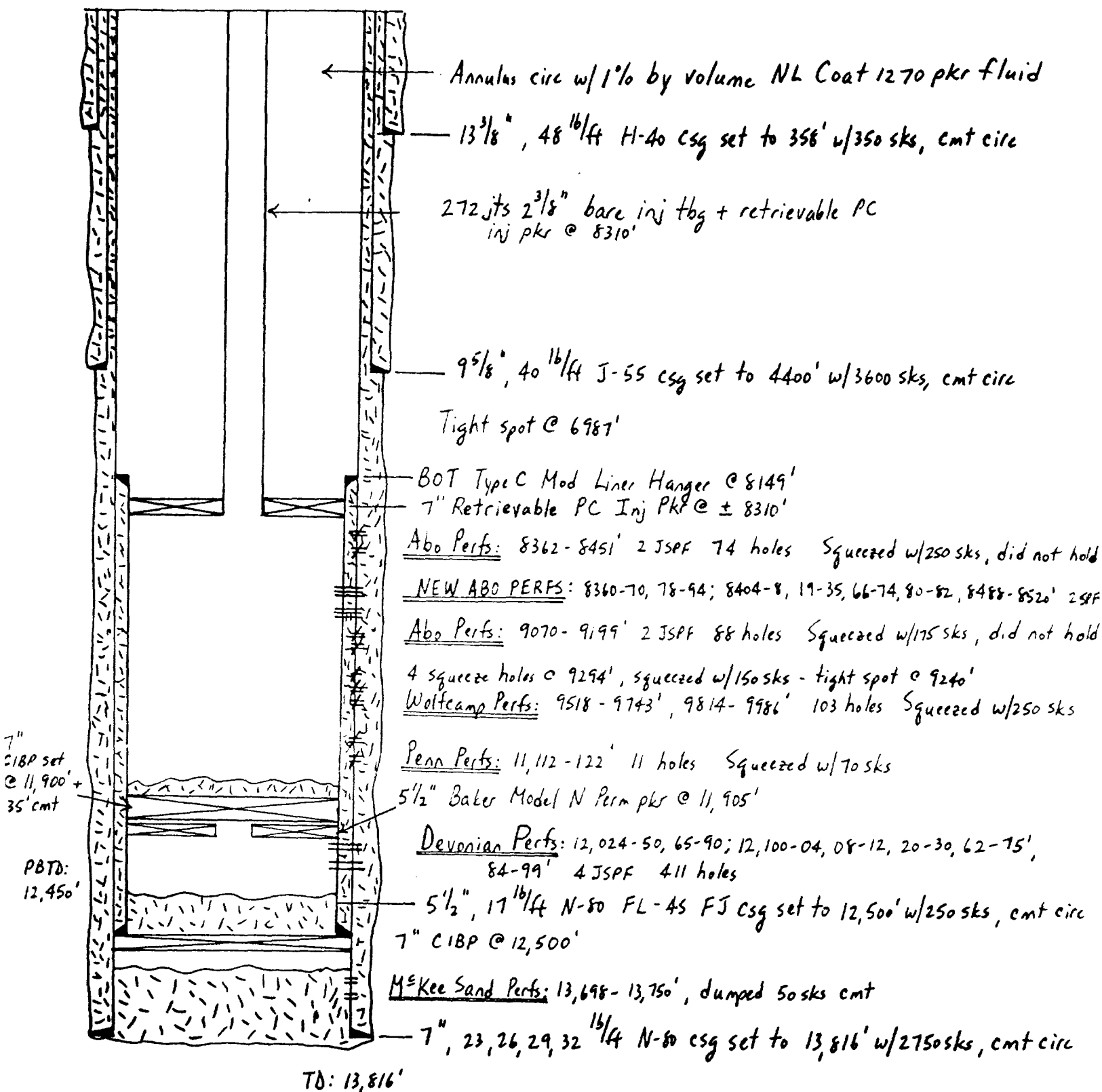
PRESENT WELLBORE DIAGRAM



FIELD VacuumLOCATION P 26-175-34E860' FSL & 660' FELLea County, New MexicoSIGNED D. G. Elwood

GL 4003'
 DF 4013'
 KB 4016'
 ZERO KB (13' AGL)

PROPOSED WELLBORE DIAGRAM



**Mobil Producing Texas & New Mexico Inc.
North Vacuum Abo Unit
Well No. 95
Sec. 26 T-17-S, R-34-E
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 2088
Santa Fe, NM 87503

Offset Operators:

Conoco, Inc.
Attn: Dave Wacker
P.O. Box 460
Hobbs, New Mexico 88240

Marathon Oil Company
Attn: Bill Holmes
P.O. Box 552
Midland, Texas 79702

Texaco, Inc.
Attn: J. E. King
P.O. Box 728
Hobbs, New Mexico 88240

Mobil Exploration & Producing U.S. Inc.

Certified - Mail
Return Receipt Requested

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

April 20, 1989

Conoco, Inc.
P.O. Box 460
Hobbs, New Mexico 88240

Attn: Dave Wacker

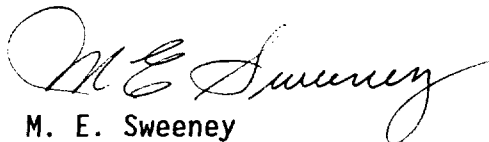
NOTICE OF APPLICATION FOR
WATER INJECTION WELL
NORTH VACUUM ABO UNIT
WELL NO. 95
LEA COUNTY, NEW MEXICO

Gentlemen:

Mobil Exploration & Producing U.S. Inc., as Agent for Mobil Producing Texas & New Mexico Inc., has made application to the Oil Conservation Commission of New Mexico for authority to inject fresh water into a reservoir productive of oil or gas in the above captioned well.

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

Yours very truly,



M. E. Sweeney
Environmental & Regulatory Manager

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico Inc.

JWD/arr

attachments

cc: Oil Conservation Commission (w/attach)

A:M907987A.JWD(1)

Mobil Exploration & Producing U.S. Inc.

Certified - Mail
Return Receipt Requested

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

April 20, 1989

Marathon Oil Company
P.O. Box 552
Midland, Texas 79702

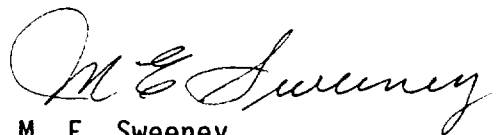
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WATER INJECTION WELL
NORTH VACUUM ABO UNIT
WELL NO. 95
LEA COUNTY, NEW MEXICO

Gentlemen:

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Yours very truly,



M. E. Sweeney
Environmental & Regulatory Manager

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico Inc.

JWD/arr

attachments

cc: Oil Conservation Commission (w/attach)

A:M907987A.JWD(1)

Mobil Exploration & Producing U.S. Inc.

Certified - Mail
Return Receipt Requested

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

April 20, 1989

Texaco, Inc.
P.O. Box 728
Hobbs, New Mexico 88240

Attn: J. E. King

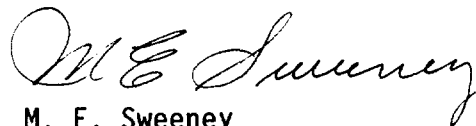
NOTICE OF APPLICATION FOR
WATER INJECTION WELL
NORTH VACUUM ABO UNIT
WELL NO. 95
LEA COUNTY, NEW MEXICO

Gentlemen:

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Yours very truly,



M. E. Sweeney
Environmental & Regulatory Manager

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico Inc.

JWD/arr

attachments

cc: Oil Conservation Commission (w/attach)

A:M907987A.JWD(1)

Mobil Exploration & Producing U.S. Inc.

P.O. BOX 633
MIDLAND, TEXAS 79702

April 20, 1989

MIDLAND DIVISION

County Clerk
Ms. Pat Snipes
P.O. Box 1507
Lovington, New Mexico 88260

**NOTICE OF APPLICATION FOR
WATER INJECTION WELL
NORTH VACUUM ABO UNIT
WELL NO. 95
LEA COUNTY, NEW MEXICO**

Dear Ms. Snipes:

Mobil Exploration & Producing U.S. Inc., as Agent for Mobil Producing Texas & New Mexico Inc., has made application to the Oil Conservation Commission of New Mexico, to inject fresh water into a reservoir productive of oil or gas in the above captioned well.

The Oil Conservation Division requires that the enclosed application be sent to you for public information notice in the county in which the well is located. Please post the attached application as you desire.

Yours very truly,



M. E. Sweeney
Environmental & Regulatory Manager

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico Inc.

JWD/arr

attachments

cc: Oil Conservation Commission (w/attach)

A:M907987A.JWD(1)

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

Joyce Clements being first duly sworn on oath deposes and says that he is Adv. Director of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled
Notice Of Application For Fluid
Injection Well Permit

and numbered in the
..... Court of Lea
County, New Mexico, was published in a regular and
entire issue of THE LOVINGTON DAILY LEADER and
not in any supplement thereof, once each week on the
same day of the week, for one (1)
consecutive weeks, beginning with the issue of
April 7, 1989
and ending with the issue of
April 7, 1989

And that the cost of publishing said notice is the
sum of \$ 11.67
which sum has been (Paid) (Accepted) as Court Costs

Subscribed and sworn to before me this 13th
day of April, 1989

Notary Public, Lea County, New Mexico
My Commission Expires Sept. 28, 1990

LEGAL NOTICE NOTICE OF APPLICATION FOR FLUID INJECTION WELL PERMIT

Mobil Producing Texas & New Mexico Inc., acting by and through its agent Mobil Exploration & Producing U.S. Inc., P.O. Box 633, Midland, Tx 79702

has applied to the Railroad Commission of Texas for permit to inject fluid into a formation which is productive of oil or gas.

The applicant proposes to inject fluid into the Abo, North Vacuum Abo Unit, Well Number 95. The proposed injection well is located 13 miles Southwest of Lovington, N.M. in the Vacuum North Field, in Lea County. Fluid will be injected into strata in the subsurface depth interval from 8300 to 8650 feet.

LEGAL AUTHORITY: Chapter 27 of the Texas Water Code, as amended, Title 3 of the Natural Resources Code, as amended, and the Statewide Rules of the Oil and Gas Division of the Railroad Commission of Texas.

Requests for a public hearing from persons who can show they are adversely affected, or requests for further information concerning any aspect of the application should be submitted in writing, within fifteen days of publication, to the Underground Injection Control Station, Austin, Texas 78711 (Telephone 512/463-6790).

Published in the Lovington Daily Leader April 7, 1989.

Mobil Exploration & Producing U.S. Inc.

P.O. BOX 633
MIDLAND, TEXAS 79702

April 7, 1989

MIDLAND DIVISION

Lovington Daily Leader
14 West Avenue B
Lovington, NM 88260

NOTICE OF APPLICATION FOR
WATER INJECTION WELL
NORTH VACUUM ABO UNIT
WELL NO. 95
NORTH VACUUM ABO UNIT FIELD
LEA COUNTY, NEW MEXICO

APR - 7 1989

Gentlemen:

Mobil Exploration & Producing U.S. Inc., as Agent for Mobil Producing Texas & New Mexico Inc., has made application to the Oil Conservation Commission of New Mexico for authority to dispose of production water into a reservoir productive of oil or gas through the subject well.

The Oil Conservation Commission requires that a public notice of the attached information be published in the county in which the well is located. Please publish the attached notice as soon as possible and return the completed affidavit and a copy of the printed notice in the enclosed, stamped envelope. Send the invoice to the attention of M.E. Sweeney.

Yours very truly,



M. E. Sweeney
Environmental & Regulatory Manager

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico Inc.

JWD/arr

attachments

cc: Oil Conservation Commission (w/attach)

A:M907987A.JWD(1)

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

JAMES E. (JIM) NUGENT, Chairman
MACK WALLACE, Commissioner
BUDDY TEMPLE, Commissioner



BOB R. HARRIS, P.E.
Director
JERRY W. MULLICAN
Director of Underground
Injection Control

1124 S. IH 35

CAPITOL STATION — P. O. DRAWER 12967

AUSTIN, TEXAS 78711

NOTICE OF APPLICATION FOR FLUID INJECTION WELL PERMIT

Mobil Producing Texas & New Mexico Inc., acting by and through its agent
Mobil Exploration & Producing U.S. Inc., P.O. Box 633, Midland, TX 79702

(Company Name And Address)

has applied to the Railroad Commission of Texas for a permit to inject fluid into a formation which is productive of oil or gas.

The applicant proposes to inject fluid into the Abo (Formation)

North Vacuum Abo Unit, Well Number 95. The proposed injection (Lease)

well is located 13 miles southwest of Lovington, N.M. in the Vacuum North (Direction / Miles To Nearest Town)

Field, in Lea County. Fluid will be injected into strata

in the subsurface depth interval from 8300 to 8650 feet.

LEGAL AUTHORITY: Chapter 27 of the Texas Water Code, as amended, Title 3 of the Natural Resources Code, as amended, and the Statewide Rules of the Oil and Gas Division of the Railroad Commission of Texas.

Requests for a public hearing from persons who can show they are adversely affected, or requests for further information concerning any aspect of the application should be submitted in writing, within fifteen days of publication, to the Underground Injection Control Section, Oil and Gas Division, Railroad Commission of Texas, Drawer 12967, Capitol Station, Austin, Texas 78711 (Telephone 512/463-6790).

DATE _____

Before me, the undersigned authority, on this day personally appeared

_____, the _____ of
(NAME) (TITLE)

the _____, a newspaper having general
(NAME OF NEWSPAPER)

circulation in _____ County, ~~Texas~~ New Mexico, who being by me duly

sworn says that the foregoing attached notice was published in this

newspaper on the following date(s), to wit: _____.

(SIGNATURE)

Subscribed and sworn to before me this the _____ day of _____,
19____, to certify which witness my hand and seal of office.

NOTARY PUBLIC IN AND FOR

County, ~~Texas~~ New Mexico

Mobil Exploration & Producing U.S. Inc.

P.O. BOX 633
MIDLAND, TEXAS 79702

May 15, 1989

MIDLAND DIVISION

Lovington Daily Leader
14 West Avenue B
Lovington, NM 88260

RECEIVED

MAY 18 1989

OIL CONSERVATION DIV.
SANTA FE

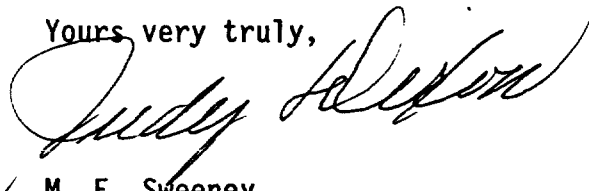
NOTICE OF APPLICATION FOR
WATER INJECTION WELL
NORTH VACUUM ABO UNIT
WELL NO. 95
NORTH VACUUM ABO UNIT FIELD
LEA COUNTY, NEW MEXICO

Gentlemen:

Mobil Exploration & Producing U.S. Inc., as Agent for Mobil Producing Texas & New Mexico Inc., has made application to the Oil Conservation Commission of New Mexico for authority to ~~dispose of production water~~ *inject fresh* into a reservoir productive of oil or gas through the subject well.

The Oil Conservation Commission requires that a public notice of the attached information be published in the county in which the well is located. Please publish the attached notice as soon as possible and return the completed affidavit and a copy of the printed notice in the enclosed, stamped envelope. Send the invoice to the attention of M.E. Sweeney.

Yours very truly,

for 

M. E. Sweeney
Environmental & Regulatory Manager

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico Inc.

JWD/arr

attachments

cc: Oil Conservation Commission (w/attach)

A:M907987A.JWD(1)

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

Joyce Clements being first duly sworn on oath deposes and says that he is Adv. Director of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled
Notice Of Application For Fluid
Injection Well Permit

and numbered _____ in the
_____ Court of Lea
County, New Mexico, was published in a regular and
entire issue of THE LOVINGTON DAILY LEADER and
not in any supplement thereof, once each week on the
same day of the week, for one (1)

consecutive weeks, beginning with the issue of _____
April 7, 1989

and ending with the issue of _____
April 7, 1989

And that the cost of publishing said notice is the
sum of \$ 11.67
which sum has been (Paid) (663088) as Court Costs

Joyce Clements
Subscribed and sworn to before me this 13th
day of April, 1989

Notary Public, Lea County, New Mexico
My Commission Expires Sept. 28, 1990

Joyce: The NMOCD asks that we republish same to reflect NMOCD rather than State of Texas.

LEGAL NOTICE NOTICE OF APPLICATION FOR FLUID INJECTION WELL PERMIT

Mobil Producing Texas & New Mexico Inc., acting by and through its agent Mobil Exploration & Producing U.S. Inc., P.O. Box 633, Midland, Tx 79702

has applied to the Railroad Commission of Texas for permit to inject fluid into a formation which is productive of oil or gas.

The applicant proposes to inject fluid into the Abo, North Vacuum Abo Unit, Well Number 95. The proposed injection well is located 13 miles Southwest of Lovington, N.M. in the Vacuum North Field, in Lea County. Fluid will be injected into strata in the subsurface depth interval from 8300 to 8650 feet.

LEGAL AUTHORITY: Chapter 27 of the Texas Water Code, as amended, Title 3 of the Natural Resources Code, as amended, and the Statewide Rules of the Oil and Gas Division of the Railroad Commission of Texas, New Mexico

Requests for a public hearing from persons who can show they are adversely affected, or requests for further information concerning any aspect of the application should be submitted in writing, within fifteen days of publication, to the Underground Injection Control Station, Austin, Texas 78711 (Telephone 512/463-6790).

Published in the Lovington Daily Leader April 7, 1989.

Energy & Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

Mobil Exploration & Producing U.S. Inc.

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

May 25, 1989

Lovington Daily Leader
14 West Avenue B
Lovington, NM 88260

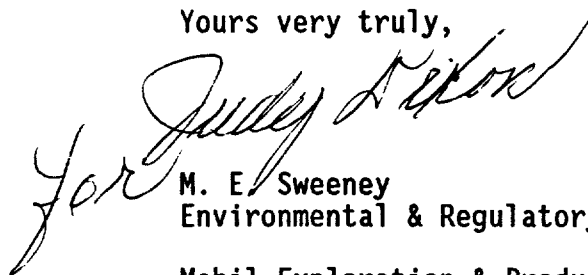
NOTICE OF APPLICATION FOR
WATER INJECTION WELL
NORTH VACUUM ABO UNIT
WELL NO. 95
NORTH VACUUM ABO UNIT FIELD
LEA COUNTY, NEW MEXICO

Gentlemen:

Mobil Exploration & Producing U.S. Inc., as Agent for Mobil Producing Texas & New Mexico Inc., has made application to the Oil Conservation Commission of New Mexico for authority to inject fresh water into a reservoir productive of oil or gas through the subject well.

The Oil Conservation Commission requires that a public notice of the attached information be published in the county in which the well is located. Please publish the attached notice as soon as possible and return the completed affidavit and a copy of the printed notice in the enclosed, stamped envelope. Send the invoice to the attention of M.E. Sweeney.

Yours very truly,



M. E. Sweeney
Environmental & Regulatory Manager

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico Inc.

JWD/arr

attachments

cc: Oil Conservation Commission (w/attach)

RECEIVED

MAY 30 1989

OIL CONSERVATION DIV.
SANTA FE

A:M907987A.JWD(1)

APPLICATION FOR AUTHORIZATION TO INJECT

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

Attention: Judy Dixon, 915/688#2452

will apply for permission to inject Fresh Water

into the following well/wells for the purpose of: Secondary
Recovery

2. Well Name and Number: North Vacuum Abo Unit Well No. 95

* Location: 860' FSL; 660' FEL

* Section: 26, T 17S, R 34E

* County: Lea

3. Formation Name: North Vacuum Abo

Injection Interval: 8300 to 8650

Maximum Injection Rate: 600 BBL/day/well

Maximum Pressure: 4140 psi

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

DATE _____

Before me, the undersigned authority, on this day personally appeared

_____, the _____ of
(NAME) (TITLE)

the _____, a newspaper having general
(NAME OF NEWSPAPER)

circulation in _____ County, New Mexico, who being by me duly

sworn says that the foregoing attached notice was published in this

newspaper on the following date(s), to wit: _____.

(SIGNATURE)

Subscribed and sworn to before me this the ____ day of _____,

19____, to certify which witness my hand and seal of office.

NOTARY PUBLIC IN AND FOR

County, New Mexico



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

4-25-89

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

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

RE: Proposed:

MC _____
DHC _____
NSL _____
NSP _____
SWD _____
WFX ☒ _____
PMX _____

RECEIVED

APR 27 1989

OIL CONSERVATION DIV.
SANTA FE

Gentlemen:

I have examined the application for the:

Mobil Producing TX & NM Inc. No Vacuum Alorut # 95-P 26-17-34
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

November 8, 1989

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

Mobil Exploration & Producing U.S., Inc.
P.O. Box 633
Midland, TX 79702

Attention: M.E. Sweeney

RE: Injection Pressure Increase
N. Vacuum Abo Unit
Lea County, New Mexico

Dear Mr. Sweeney:

Reference is made to your request dated September 25, 1989, to increase the surface injection pressure on the North Vacuum Abo Unit Well No. 95. This request is based on a step rate test conducted on the well on September 6, 1989. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on the well is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following well.

WELL AND LOCATION

MAXIMUM INJECTION
SURFACE PRESSURE

NVAU Well No. 95
Unit P, Section 26, T-17 South,
R-34 East, NMPM, Lea County, New
Mexico.

3540 PSIG

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,

William J. LeMay
Director

cc: OCD - Hobbs
T. Gallegos
D. Catanach
File: Case 4831

COMPANY: Mobil Exploration & Production U.S. Inc.
ADDRESS: P.O. Box 633
CITY, STATE, ZIP: Midland, Texas 79702
ATTENTION: M. E. Sweeney

Re: Injection Pressure Increase
N. Vacuum Hb Unit
Well No. 95
Lea County, New Mexico

Dear Sir:

Reference is made to your request dated September 25, 1989, to increase the surface injection pressure on the North Vacuum Hb Unit Well No. 95. This request is based on a step rate test conducted on the well on September 6, 1989. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on the well is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following well:

<u>Well & Location</u>	<u>Maximum Injection Surface Pressure</u>
<u>NUALL Well No 95</u>	<u>3540 PSIG</u>
<u>Unit (P), Section 2, T-1Boll, R-34Erd, NMM</u>	
<u>Lea County, New Mexico</u>	

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

xc: OCD-Abbas T. Gallegos
File-Cia 4831 D. Catanach

Sincerely,
William J. LeMay

Mobil Exploration & Producing U.S. Inc.

September 25, 1989

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

State of New Mexico
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. W. J. LeMay

**INJECTION PRESSURE INCREASE REQUEST
NORTH VACUUM ABO UNIT
WELL NO. 95
NORTH VACUUM ABO FIELD
LEA COUNTY, NEW MEXICO**

Gentlemen:

Under the provisions of Order No. R-4430 (Case #4831) dated October 27, 1972; permission was granted to inject water into the Abo formation for the subject well. The order limited the pressure on the injection well to no more than 0.2 psi. per foot to the uppermost injection interval. A step-rate test for this well has been completed which shows that higher pressure will not result in migration of the injected fluid from the Abo formation. Permission is requested to increase the injection pressure as follows:

	<u>INJECTION INTERVALS</u>	<u>PRESENT SURFACE INJECTION PRESSURE LIMIT</u>	<u>REQUESTED SURFACE INJECTION PRESSURE LIMIT</u>
WELL NO. 95 UNIT P, SEC. 26 T-17-S, R-34-E Order No. R-4430	8360-8520'	1660 psig	3540 psig

Enclosed are copies of the Step-rate test.

Yours very truly,


M. E. Sweeney
Environmental & Regulatory Manager

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico, Inc.

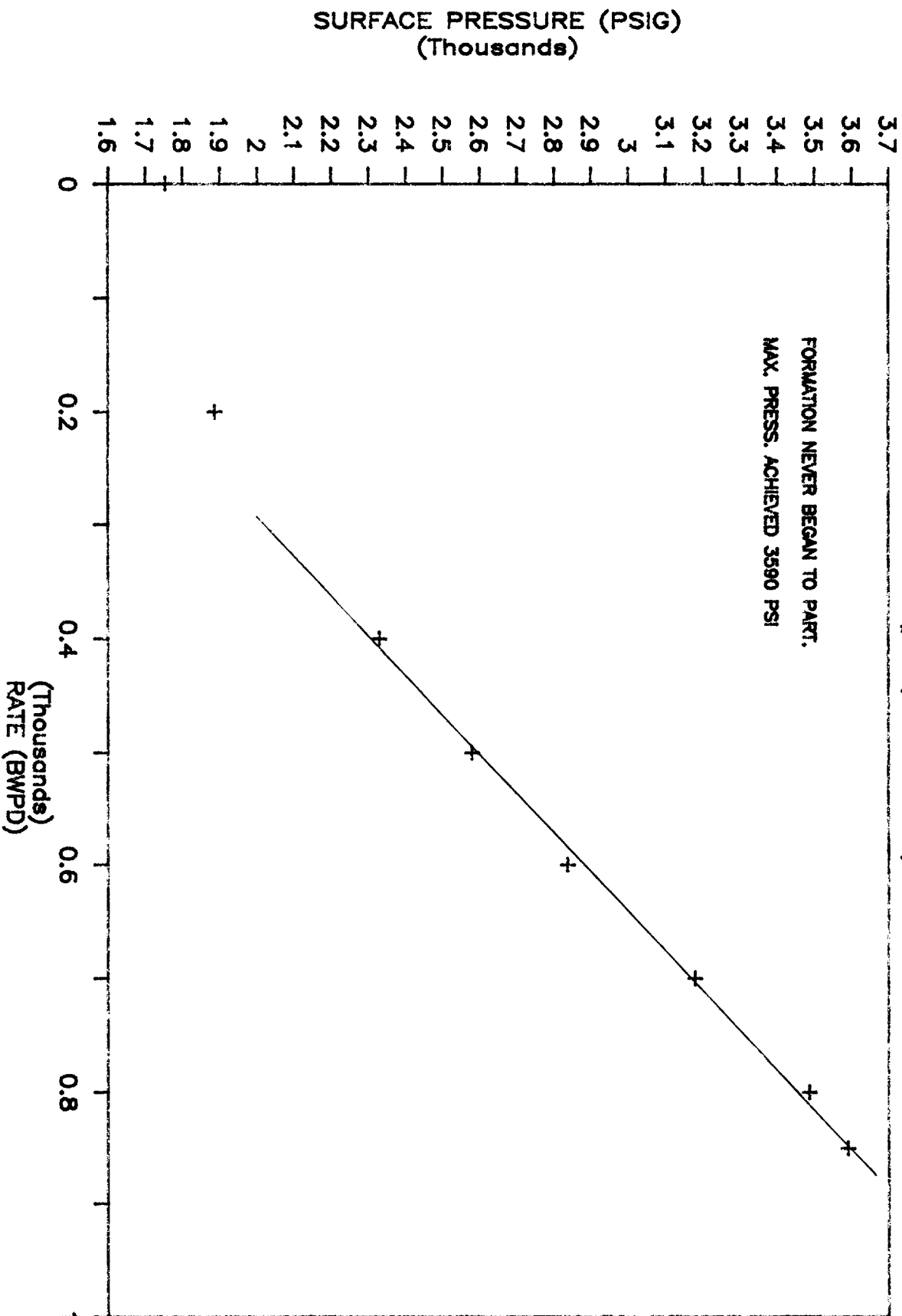
JWDixon
Attachments
cc: District Director OCD - Hobbs

A:M926148C.JWD

1 CENTRAL FILES
1 REGULATORY FILES
1 PRORATION ACCT.
1 RESERVOIR ENGR. MGR.
1 DIST. OP. MGR. *10/6/89*
1 AREA PROD. SUPV.
1 REGULATORY ACCT.

STEP RATE TEST

NVAU #95 (RUN 9-6-89)



STEPRATE TEST

COMPANY: MOBIL EXPLORATION & PRODUCING U.S. INC.
LEASE: NORTH VACUUM ABO UNIT
WELL NO. 95
LOCATION: P26-T17S-R34E
TEST DATE: 09-06-89
PERFORATIONS: 8360' - 8520'
TOTAL DEPTH: 13816'
PLUG BACK TD: 12450' CIBP: 11890'
PACKER SET AT: 8330'

TIME	SURFACE PRESSURE	RATE (BWPD)

11:38:19	12	0
11:39:19	12	0
11:40:19	12	0
11:41:19	12	0
11:42:19	12	0
11:43:19	12	0
11:44:19	12	0
11:45:19	12	0
11:46:19	13	0
11:47:19	12	0
11:48:19	12	0
11:49:19	12	0
11:50:19	12	0
11:51:19	12	0
11:52:19	12	0
11:53:19	12	0
11:54:19	12	0
11:55:19	12	0
11:56:19	12	0
11:57:19	1756	0
11:58:19	1755	0
11:59:19	1756	200
12:00:19	1756	200
12:01:19	1774	200
12:02:19	1789	200
12:03:19	1805	200
12:04:19	1819	200
12:05:19	1831	200
12:06:19	1842	200
12:07:19	1853	200
12:08:19	1864	200
12:09:19	1877	200
12:10:19	1888	200
12:11:19	1898	400
12:12:19	1908	400
12:13:19	1915	400
12:14:19	1923	400

12:15:19	2160	400
12:16:19	2164	400
12:17:19	2179	400
12:18:19	2192	400
12:19:19	2206	400
12:20:19	2234	400
12:21:19	2256	400
12:22:19	2275	400
12:23:19	2293	400
12:24:19	2312	400
12:25:19	2330	400
12:26:19	2346	500
12:27:19	2362	500
12:28:19	2377	500
12:29:19	2392	500
12:30:19	2407	500
12:31:19	2419	500
12:32:19	2435	500
12:33:19	2449	500
12:34:19	2464	500
12:35:19	2478	500
12:36:19	2510	500
12:27:19	2525	500
12:38:19	2545	500
12:39:19	2563	500
12:40:19	2579	500
12:41:19	2595	600
12:42:19	2611	600
12:43:19	2624	600
12:44:19	2639	600
12:45:19	2652	600
12:46:19	2666	600
12:47:19	2680	600
12:48:19	2693	600
12:49:19	2721	600
12:50:19	2747	600
12:51:19	2766	600
12:52:19	2784	600
12:53:19	2804	600
12:54:19	2821	600
12:55:19	2837	600
12:56:19	2852	700
12:57:19	2867	700
12:58:19	2886	700
12:59:19	2901	700
13:00:19	2929	700
13:01:19	2966	700
13:02:19	2988	700
13:03:19	3019	700
13:04:19	3053	700
13:05:19	3090	700
13:06:19	3117	700
13:07:19	3122	700
13:08:19	3149	700
13:09:19	3166	700
13:10:19	3180	700

13:11:19	3312	800
13:12:19	3323	800
13:13:19	3334	800
13:14:19	3345	800
13:15:19	3355	800
13:16:19	3375	800
13:17:19	3387	800
13:18:19	3398	800
13:19:19	3408	800
13:20:19	3434	800
13:21:19	3442	800
13:22:19	3455	800
13:23:19	3466	800
13:24:19	3477	800
13:25:19	3486	800
13:26:19	3496	850
13:27:19	3505	850
13:28:19	3514	850
13:29:19	3521	850
13:30:19	3538	850
13:31:19	3547	850
13:32:19	3555	850
13:33:19	3563	850
13:34:19	3571	850
13:35:19	3579	850
13:36:19	3590	850
13:27:19	3529	0
13:38:19	3483	0
13:39:19	3463	0
13:40:19	3446	0
13:41:19	3429	0
13:42:19	3413	0
13:43:19	3401	0
13:44:19	3388	0
13:45:19	3375	0
13:46:19	3502	0
13:47:19	16	0
13:48:19	15	0
13:49:19	15	0
13:50:19	14	0
13:51:19	15	0
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14:03:19	15	0
14:04:19	15	0
14:05:19	15	0
14:06:19	13	0

14:07:19	13	0
14:08:19	12	0
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14:30:19	13	0
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14:45:19	13	0
14:46:19	13	0
14:47:19	13	0
14:48:19	13	0
14:49:19	13	0
14:50:19	13	0
14:51:19	13	0
14:52:19	13	0
14:53:19	13	0
14:54:19	13	0
14:55:19	13	0

DOCKET: EXAMINER HEARING - WEDNESDAY - SEPTEMBER 27, 1972

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,
STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Elvis A. Utz, Examiner, or Daniel S. Nutter, Alternate Examiner:

CASE 4829: Application of Coastal States Gas Producing Company for a special depth bracket allowable, Lea and Roosevelt Counties, New Mexico. Applicant, in the above-styled cause, seeks the establishment of a special depth bracket allowable greater than the present allowable for the Vada-Pennsylvanian Pool, Lea and Roosevelt Counties, New Mexico.

CASE 4830: Application of Mobil Oil Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the North Vacuum-Abo Unit Area comprising 5,680 acres, more or less, of Federal, State, and Fee lands in Township 17 South, Ranges 34 and 35 East, Lea County, New Mexico.

CASE 4831: Application of Mobil Oil Corporation for a pressure maintenance project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pressure maintenance project in its North Vacuum-Abo Unit Area by the injection of fluid into the North Vacuum-Abo Pool through 34 wells located in Township 17 South, Ranges 34 and 35 East, Lea County, New Mexico.

Applicant further seeks a procedure whereby additional producing and injection wells may be approved without notice and hearing.

CASE 4832: Application of Pennzoil Company for pool reclassification, special pool rules, and a non-standard proration unit, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks the reclassification of the Northwest Todd-San Andres Gas Pool to an associated pool for the production of gas and oil and the promulgation of special rules therefor including provisions for the classification of oil and gas wells, oil and gas spacing, and a gas-oil ratio limitation of 10,000 cubic feet of gas per barrel of oil.

Applicant further seeks approval of an 80-acre non-standard oil proration unit in the subject pool comprising the NW/4 SW/4 and the SW/4 NW/4 of Section 8, Township 7 South, Range 35 East to be dedicated to its Superior State "Com" Well No. 1 located in Unit 1 of said Section 8.

CASE 4833: Application of Tesoro Petroleum Corporation for compulsory pooling and an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests underlying the E/2 of Section 28, Township 20 South, Range 26 East, Eddy County, New Mexico, to be dedicated to a well to be drilled at an unorthodox location 660 feet from the South line and from 1160

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to 1200 feet from the East line of said Section 28, adjacent to the Springs-Upper Pennsylvanian Gas Pool.

Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.

CASE 4834: Application of Read & Stevens, Inc. for an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a Devonian test well at an unorthodox location 1200 feet from the South line and 660 feet from the East line of Section 2, Township 14 South, Range 37 East, Lea County, New Mexico, adjacent to the King-Devonian Pool.

CASE 4835: Application of Texas Oil & Gas Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface of the ground down to and including the Pennsylvanian formation underlying the S/2 of Section 13, Township 22 South, Range 26 East, South Carlsbad Field area, Eddy County, New Mexico, to be dedicated to a well to be drilled 1980 feet from the South and East lines of said Section 13. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.

CASE 4836: Application of Michael P. Grace II and Corinne Grace for compulsory pooling, Eddy County, New Mexico. Applicants, in the above-styled cause, seek an order pooling all mineral interests from the surface of the ground down to and including the Morrow formation underlying the S/2 of Section 24, Township 22 South, Range 26 East, South Carlsbad Field area, Eddy County, New Mexico, to be dedicated to a well to be drilled at an orthodox location for said unit. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision for said well.

CASE 4819: (Continued from the September 13, 1972, Examiner Hearing)
Application of D. L. Hannifin for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in and under the S/2 of Section 24, Township 22 South, Range 26 East, South Carlsbad Field, Eddy County, New Mexico, to be dedicated to a well to be drilled 1980 feet from the South and East lines of said Section 24. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.