JUL 15 1994

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

Case No. 10960
Order No. R-10151

APPLICATION OF MEWBOURNE OIL COMPANY FOR A WATERFLOOD PROJECT AND QUALIFICATION FOR THE RECOVERED OIL TAX RATE, LEA COUNTY, NEW MEXICO.

APPLICATION FOR HEARING DE NOVO

Mewbourne Oil Company, pursuant to N.M. Stat. Ann. § 70-2-13 (1987 Repl. Pamp.) and Division Rule 1220, hereby applies for a hearing de novo before the Oil Conservation Commission.

HINKLE, COX, EATON, COFFIELD
& HENSLEY

By: James Bruce

James Bruce
Post Office Box 2068
Santa Fe, New Mexico 87504-2068
(505) 982-4554

Attorneys for Mewbourne
Oil Company

BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

APPLICATION OF MEWBOURNE OIL COMPANY FOR AUTHORITY TO INSTITUTE A WATER-FLOOD PROJECT AND FOR QUALIFICATION FOR THE RECOVERED OIL TAX RATE, LEA COUNTY, NEW MEXICO.

No. 10960

APR 4 1991

APPLICATION

Mewbourne Oil Company hereby applies for an order approving the institution of a waterflood project for secondary recovery of hydrocarbons in the proposed Querecho Plains Queen Associated Sand Unit, Lea County, New Mexico, and to qualify the project for the recovered oil tax rate, and in support thereof, states:

1. Mewbourne Oil Company, in a related application, has requested Division approval of statutory unitization and of a unit for the proposed Querecho Plains Queen Associated Sand Unit in Lea County, New Mexico. The Unit Area, Unitized Formation, Unit Agreement, and Unit Operating Agreement are described in said application.

2. Mewbourne Oil Company, the operator of the Unit, proposes to institute a waterflood project for the secondary recovery of oil and gas from the Unitized Formation within the Unit Area.

3. By converting certain presently producing wells, Mewbourne Oil Company proposes to inject fluids into the Queen/Penrose Sand Formation in the Querecho Plains Queen Associated Sand Unit. Attached hereto as Exhibit 1 is a plat showing the

location of all wells located within the Unit Area which are proposed to be used as producing wells or injection wells.

4. The water to be used for injection for the waterflood project is produced water and/or water to be purchased from the City of Carlsbad. Initially, 4,000 barrels of water per day will be injected, with an anticipated maximum injected volume of 4,000 barrels of water per day.

5. Applicant requests authority to inject water at a surface pressure not to exceed 0.34 psi per foot of depth to top of the injection zone, provided that surface pressures in excess of 0.34 psi per foot of depth to top of the injection zone may be applied upon administrative approval as provided by Division rules and regulations.

6. Approval of the waterflood project will substantially increase recoverable reserves to be produced within the useful life of the new production facilities which will be installed, thereby preventing waste and protecting correlative rights.

7. The Form C-108 relating to the proposed waterflood project is attached hereto as Exhibit 2.

8. Applicant further requests qualification of the waterflood project for the recovered oil tax rate pursuant to the Enhanced Oil Recovery Act, L. 1992, Ch. 38, and Division Order No. R-9708.

9. The initial project area, containing 1,520 acres, is described on Exhibit 3, and a plat of the Unit Area is attached as

Exhibit 4. The leases, lessors, and lessees within the project area are identified on Exhibit 5 attached hereto.

10. Project data includes:

(a)	Number of initial producing wells:	17
(b)	Number of initial injections wells:	10
(c)	Capital cost of additional facilities:	$ 600,000
(d)	Total project cost:	$ 600,000
(e)	Estimated net value of incremental production recovered from the project:	$3,420,000[1]
(f)	Anticipated injection volumes:	4000 barrels of water per day (maximum).

A listing of initial producing and injection wells is attached hereto as Exhibit 6.

11. The production history of the project area is exhibited on the graph attached hereto as Exhibit 7. The projected oil production from the project area is exhibited on the graph attached hereto as Exhibit 8.

WHEREFORE, Mewbourne Oil Company requests that this application be set for hearing before the Division on April 28, 1994, and that after hearing the Division enter its order approving the waterflood project and qualifying this project as an Enhanced Oil Recovery Project.

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[1] Based on oil at $15.75 per barrel, escalated at 5% per year.

Respectfully submitted,

HINKLE, COX, EATON,
COFFIELD & HENSLEY

James Bruce
Post Office Box 2068
Santa Fe, New Mexico 87504-2068
(505) 982-4554

Attorneys for Mewbourne Oil Company

VERIFICATION

STATE OF TEXAS)
)ss.
COUNTY OF SMITH)

K. M. Calvert, being duly sworn upon his oath, deposes and states that: He is an engineer for and employee of Mewbourne Oil Company, he is familiar with the matters set forth in the foregoing Application, and the statements therein are true and correct to the best of his knowledge.

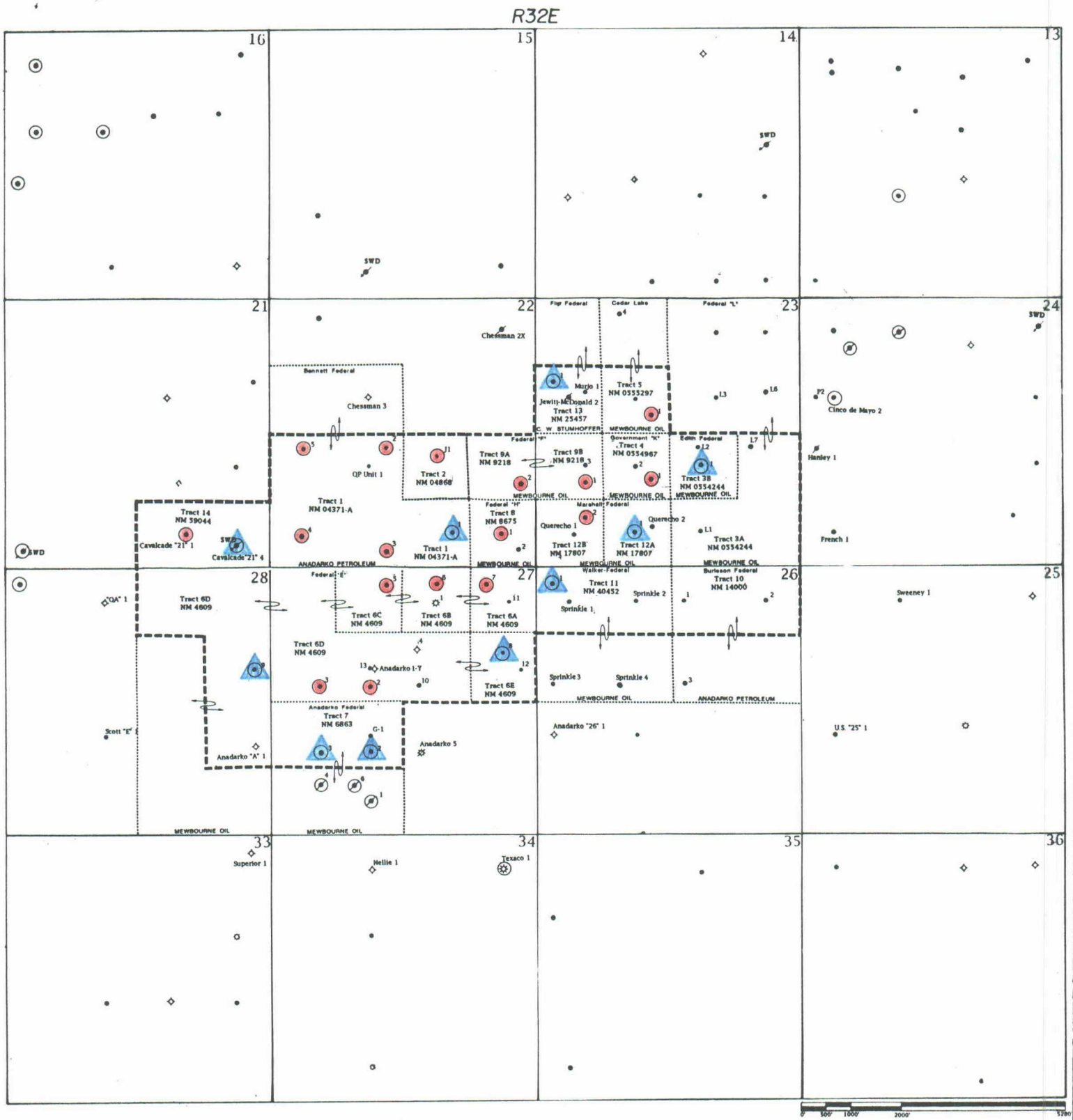
K. M. Calvert

SUBSCRIBED AND SWORN TO before me this 28TH day of MARCH, 1994, by K.M. CALVERT.

Notary Public

My Commission Expires:

SUE HEARON
NOTARY PUBLIC
State of Texas
My Comm. Exp. 11-30-97



Injector

Producer

APPLICATION - EXHIBIT 1

MOC Mewbourne Oil Company
Tyler, Texas

EXHIBIT

○ Wells With Queen Production

QUERECHO PLAINS QUEEN
ASSOCIATED SAND UNIT
Unit Boundary and Tracts

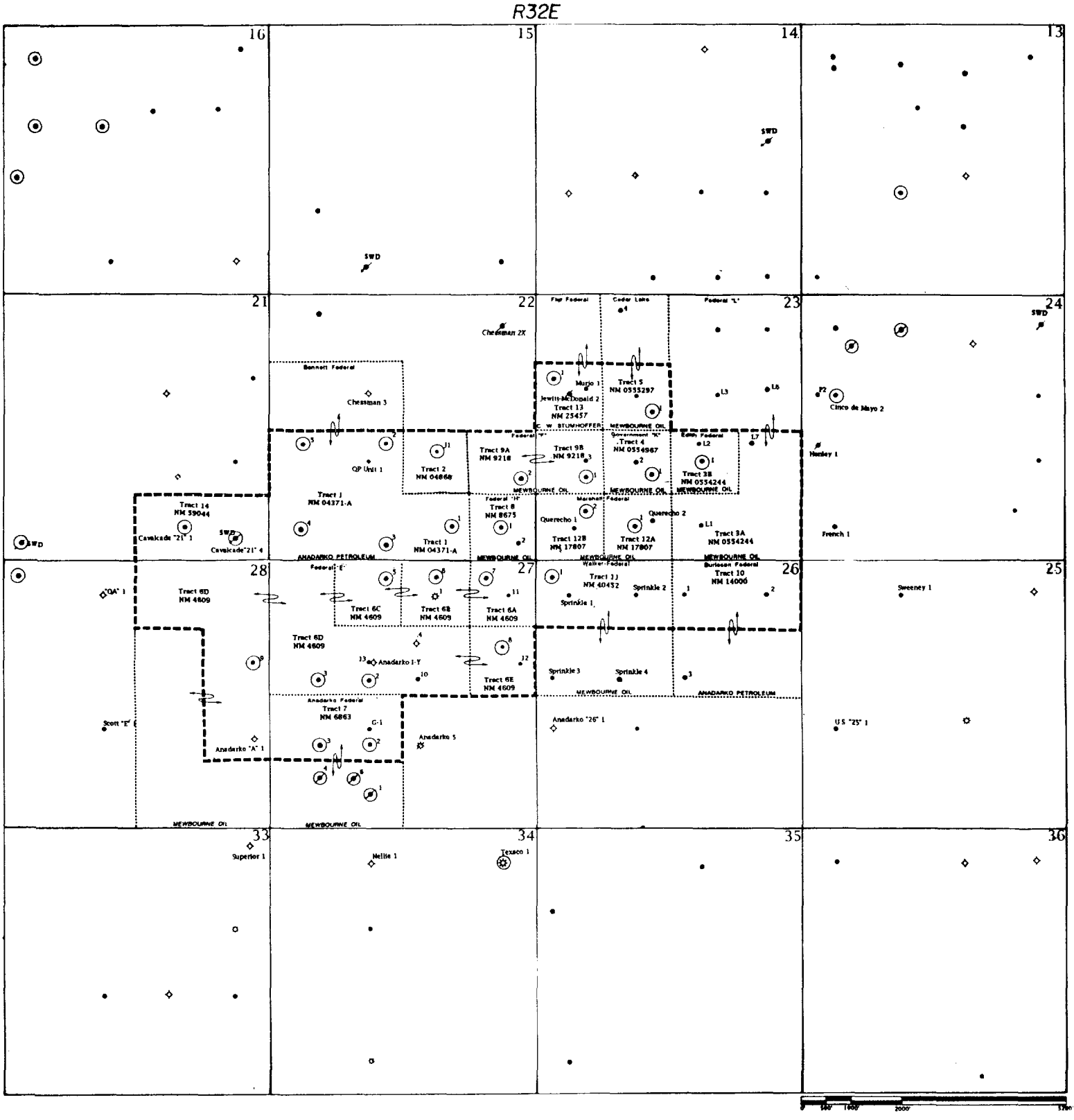
Revised 9/15/93
KEVIN MAYES REVISED 7/16/93 Revised 11/15/93 SH

EXHIBIT 3

Township 18 South, Range 32 East, N.M.P.M.

Section 21, S/2 SE/4	(80 acres)
Section 22, S/2	(320 acres)
Section 23, S/2 & S/2 NW/4	(400 acres)
Section 26, N/2, N/2	(160 acres)
Section 27, N/2 & N/2 SW/4	(400 acres)
Section 28, N/2, NE/4 SE/4, NE/4 NE/4 SE/4	(160 acres)

Containing 1520 acres, more or less



APPLICATION - EXHIBIT 4

Mewbourne Oil Company
Tyler, Texas

EXHIBIT

○ Wells With Queen Production

QUERECHO PLAINS QUEEN
ASSOCIATED SAND UNIT
Unit Boundary and Tracts

Revised 9/15/93
KEVIN MAYES REVISED 7/16/93 Revised 11/15/93 SM

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

FORM C-108
Revised 7-1-81

Case 10960

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: Mewbourne Oil Company

Address: P. O. Box 7698 - Tyler, Texas 75711

Contact party: Kevin Mayes/Ken Calvert Phone: 903/561-2900

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

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

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

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

VII. Attach data on the proposed operation, including:

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

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

IX. Describe the proposed stimulation program, if any.

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

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

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

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

XIV. Certification

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

Name: Kevin Mayes Title Engineer

Signature: _____ Date: 1/18/94

KEVIN MAYES
NEW MEXICO
11576
REGISTERED PROFESSIONAL ENGINEER

* 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.

EXHIBIT 2

Blumberg No. 6119

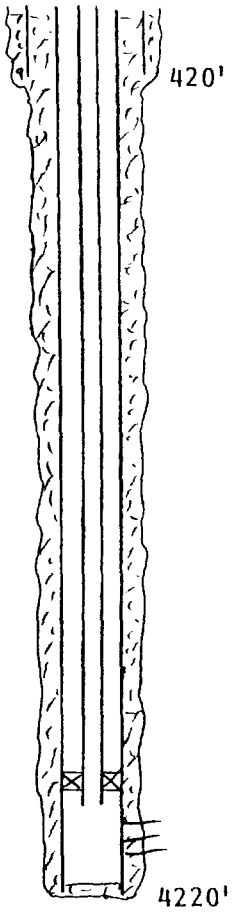
DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office

ITEM III OF NEW MEXICO OCD FORM C-108
INJECTION WELL DATA SHEET

Anadarko Petroleum (OPERATOR) Cavalcade Federal (LEASE)

4 (WELL NO.) 400' FSL & 660' FEL (FOOTAGE LOCATION) 21 (SECTION) 18S (TOWNSHIP) 32E (RANGE)

Schematic



TD = 4225'

Tabular Data

Surface Casing

Size 8-5/8" Cemented with 250 sx.

TOC Surface feet determined by calculation

Hole size Assume 12-1/4"

Intermediate Casing

Size N/A" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 4-1/2" Cemented with 1160 sx.

TOC Surface feet determined by calculation

Hole size Assume 7-7/8"

Total depth 4225'

Injection interval

4096 feet to 4130 feet

(perforated or open-hole, indicate which)

Note: This well is already injecting under OCD Order R-9240.

Tubing size 2-3/8" lined with Plastic (material) set in a

Baker Lok-set (brand and model) packer at 4023 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) _____

3. Is this a new well drilled for injection? ☐ Yes ☐ No

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

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) _____

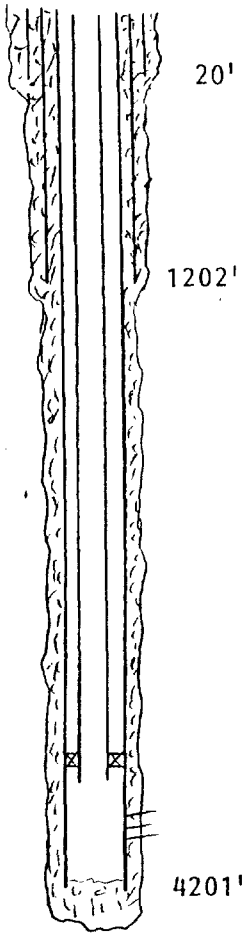
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

ITEM III OF NEW MEXICO OCD FORM C-108
INJECTION WELL DATA SHEET

Anadarko Petroleum (OPERATOR) Bennett Federal (LEASE)

1	660' FSL & 1650' FWL	22	18S	32E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic



Tabular Data

Surface Casing
Size 13-3/8" Cemented with 20 sx.
TOC Surface feet determined by calculation
Hole size Assume 17-1/2"

Intermediate Casing
Size 8-5/8" Cemented with 600 sx.
TOC Surface feet determined by calculation
Hole size Assume 12-1/4"

Long string
Size 5-1/2" Cemented with 775 sx.
TOC Surface feet determined by calculation
Hole size Assume 7-7/8"
Total depth 4302'

Injection interval
3879 feet to 4138 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with bare steel (material) set in a
Otis Permatrieve (brand and model) packer at 3779 feet
(or describe any other casing-tubing seal).

Other Data

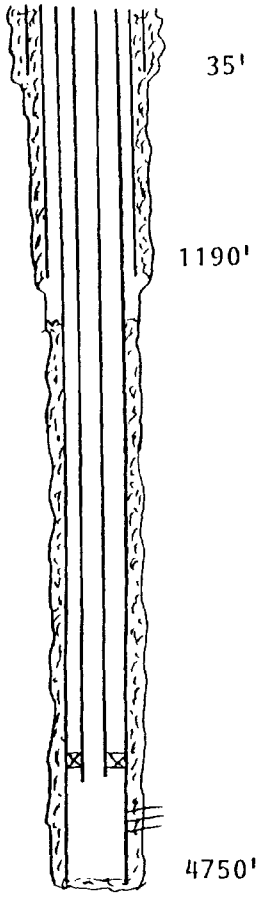
1. Name of the injection formation Queen/Penrose
2. Name of Field or Pool (if applicable) Querecho Plains
3. Is this a new well drilled for injection? ☐ Yes ☒ No
   If no, for what purpose was the well originally drilled? oil production
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used)
   No
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.
   Top of Yates @ +2730'
   Top of Grayburg @ +4430'

Note: All top of cement calculations incorporate 75% of the yield.
Note: Cement assumed to be Class "C" unless otherwise stated.
Yield = 1.32 cu. ft./sx.

ITEM III OF NEW MEXICO OCD FORM C-108
INJECTION WELL DATA SHEET

C. W. Stumhoffer	Flip Federal			
OPERATOR	LEASE			
1	1650' FNL & 330' FWL	23	18S	32E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic



Tabular Data

Surface Casing

Size 13-3/8 " Cemented with 5 yds. ~~sx.~~

TOC Surface feet determined by calculation

Hole size Assume 17-1/2"

Intermediate Casing

Size 8-5/8 " Cemented with 500 sx.

TOC Surface feet determined by calculation

Hole size Assume 12-1/4"

Long string

Size 4-1/2 " Cemented with 550 sx.

TOC 2360 feet determined by calculation

Hole size Assum 7-7/8"

Total depth 4750'

Injection interval

~~4143~~ feet to 4150 feet

(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with bare steel (material) set in a

Otis Permatrieve (brand and model) packer at 4043 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Penrose

2. Name of Field or Pool (if applicable) Querecho Plains

3. Is this a new well drilled for injection? ☐ Yes ☒ No

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

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)

Perforations 4648'-68'; Plug back to 4229'

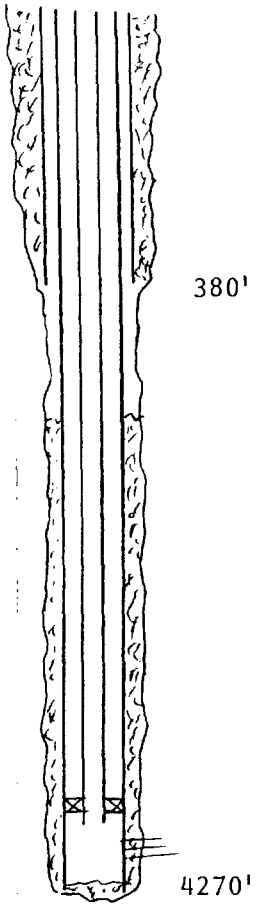
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

ITEM III OF NEW MEXICO OCD FORM C-108
INJECTION WELL DATA SHEET

Mewbourne Oil Company (OPERATOR) Edith Federal (LEASE)

2	1980' FSL & 1980' FEL	23	18S	32E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic



Tabular Data

Surface Casing

Size 8-5/8" Cemented with 250 sx.

TOC Surface feet determined by visual

Hole size 11"

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 4-1/2" Cemented with 300 sx.

TOC 2966 feet determined by calculation

Hole size 7-7/8"

Total depth 4270'

Injection interval

3958 feet to 4224 feet

(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with bare steel (material) set in a

Otis Permatrieve (brand and model) packer at 3858 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Queen/Penrose

2. Name of Field or Pool (if applicable) Querecho Plains

3. Is this a new well drilled for injection? ☐ Yes ☒ No

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

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)

No

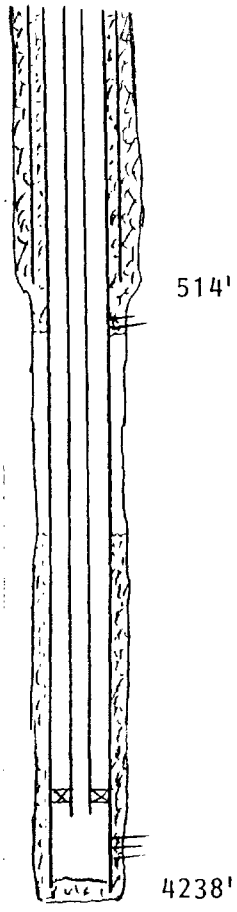
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

ITEM III OF NEW MEXICO OCD FORM C-108
INJECTION WELL DATA SHEET

Mewbourne Oil Company (OPERATOR) Marshall Federal (LEASE)

1 (WELL NO.) 660' FSL & 1980' FWL (FOOTAGE LOCATION) 23 (SECTION) 18S (TOWNSHIP) 32E (RANGE)

Schematic



Tabular Data

Surface Casing

Size 8-5/8" Cemented with 390 sx.

TOC Surface feet determined by visual

Hole size 12-1/4"

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 4-1/2" Cemented with 300 sx.

TOC 2934 feet determined by calculation

Hole size 7-7/8"

Total depth 4250'

Injection interval

4176 feet to 4190 feet

(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with bare steel (material) set in a

Otis Permatrieve (brand and model) packer at 4076 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Penrose

2. Name of field or Pool (if applicable) Querecho Plains

3. Is this a new well drilled for injection? ☐ Yes ☒ No

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

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) A casing leak from 763'-794' was squeezed with 196 sx. of Class "C" in July 1990.

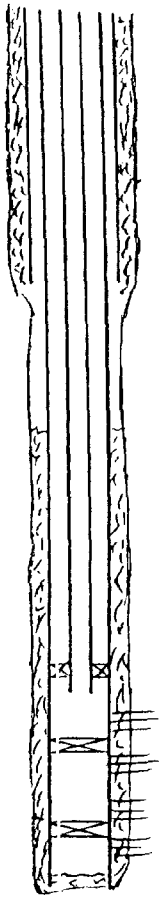
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

ITEM III OF NEW MEXICO OCD FORM C-108
INJECTION WELL DATA SHEET

Mewbourne Oil company (OPERATOR) Walker Federal (LEASE)

1	330' FNL & 330' FWL	26	18S	32E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic



Tabular Data

Surface Casing

Size 8-5/8" Cemented with 550 sx.

TOC Surface feet determined by visual

Hole size 12-1/4"

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 5-1/2" Cemented with 500 sx.

TOC 2506 feet determined by CBL as reported in drilling report.

Hole size 7-7/8"

Total depth 4725'

Injection interval

2/83 3914 feet to 3947 feet
(perforated or open-hole, indicate which)

7/89 4658'-4670' Wet
4430'-4442' Wet ← Frac
4214'-4220' ← Frac
CIBP @ 4580'

3/90 CIBP @ 4162'

Tubing size 2-3/8" lined with bare steel (material) set in a

Ot s Permatrieve (brand and model) packer at 3814 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Queen

2. Name of Field or Pool (if applicable) Querecho Plains

3. Is this a new well drilled for injection? ☐ Yes ☒ No

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

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)

Other perforations @ 4658'-70', 4430'-42' & 4214'-20'

CIBP's set @ 4580' & 4162'

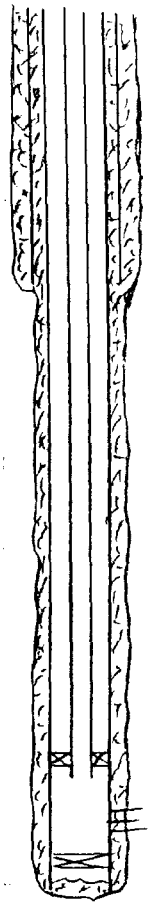
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

ITEM III OF NEW MEXICO OCD FORM C-108
INJECTION WELL DATA SHEET

Mewbourne Oil Company Federal E
OPERATOR LEASE

8 1650' FNL & 660' FEL 27 18S 32E
WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic



1212'

Junk (RBP) @ 4232'
4325'

Tabular Data

Surface Casing
Size 8-5/8" Cemented with 600 sx.
TOC Surface feet determined by visual
Hole size 12-1/4"

Intermediate Casing
Size _____" Cemented with _____ sx.
TOC _____ feet determined by _____
Hole size _____

Long string
Size 4-1/2" Cemented with 1000 sx.
TOC Surface feet determined by visual
Hole size 7-7/8"
Total depth 4325'

Injection interval
3934 feet to 4198 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with bare steel (material) set in a
Otis Permatrieve (brand and model) packer at 3834 feet
(or describe any other casing-tubing seal).

Other Data

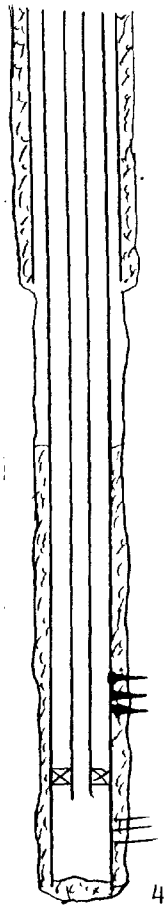
1. Name of the injection formation Queen/Penrose
2. Name of Field or Pool (if applicable) Querecho Plains
3. Is this a new well drilled for injection? ☐ Yes ☒ No
   If no, for what purpose was the well originally drilled? oil production
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used)
   No
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

ITEM III OF NEW MEXICO OCD FORM C-108
INJECTION WELL DATA SHEET

Mewbourne Oil Company Anadarko Federal
OPERATOR LEASE

2 1650' FSL & 1980' FWL 27 18S 32E
WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic



Tabular Data

Surface Casing
Size 10-3/4 " Cemented with 325 sx.
TOC Surface feet determined by visual
Hole size 12"

Intermediate Casing
Size _____ " Cemented with _____ sx.
TOC _____ feet determined by _____
Hole size _____

Long string
Size 4-1/2 " Cemented with 400 sx.
TOC 2406 feet determined by calculation
Hole size 9" to 1260', 8" to TD
Total depth 4070'

Injection interval
3888 feet to 4026 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with bare steel (material) set in a
Otis Permatrieve (brand and model) packer at 3788 feet
(or describe any other casing-tubing seal).

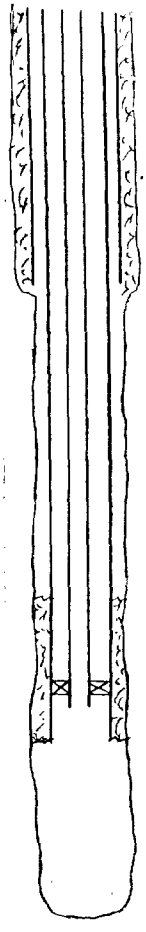
Other Data

1. Name of the injection formation Queen
2. Name of field or Pool (if applicable) Querecho Plains
3. Is this a new well drilled for injection? [ ] Yes [X] No
   If no, for what purpose was the well originally drilled? oil production
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)
   CIBP @ 3700'. Open perfs. @ 3203'-77'.
   There is a CIBP set @ 3150' for T.A. purposes.
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

ITEM III OF NEW MEXICO OCD FORM C-108
INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Mewbourne Oil Company	Anadarko Federal			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
3	1650' FSL & 990' FWL	27	18S	32E

Schematic



Tabular Data

Surface Casing

Size 10-3/4" Cemented with 525 sx.

TOC Surface feet determined by visual

Hole size 13-3/8"

Intermediate Casing

Size 7" Cemented with 225 sx.

TOC 3217 feet determined by calculation

Hole size 10-3/4"

Long string

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Total depth _____

Injection interval

3830 feet to 4060 feet

(perforated or (open-hole), indicate which)

Tubing size 2-3/8" lined with bare steel (material) set in a

Otis Permatrieve (brand and model) packer at 3730 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Queen

2. Name of Field or Pool (if applicable) Querecho Plains

3. Is this a new well drilled for injection? ☐ Yes ☒ No

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

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)

No

There is a CIBP set @ 3740' w/30 sx. for T.A. purposes.

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

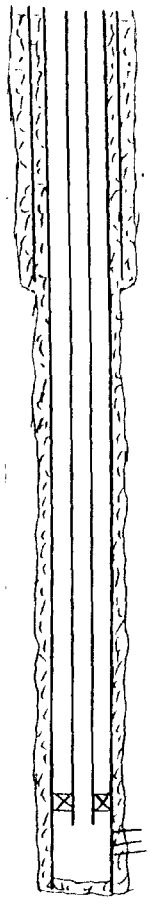
ITEM III OF NEW MEXICO OCD FORM C-108
INJECTION WELL DATA SHEET

Mewbourne Oil Company Federal E

OPERATOR LEASE

9	1980' FNL & 330' FEL	28	18S	32E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic



Tabular Data

Surface Casing

Size 8-5/8 " Cemented with 600 sx.

TOC Surface feet determined by visual

Hole size _____

Intermediate Casing

Size _____ " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 4-1/2 " Cemented with 850 sx.

TOC Surface feet determined by visual

Hole size _____

Total depth 4290'

Injection interval

3875 feet to 4152 feet

(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with bare steel (material) set in a

Otis Permatrieve (brand and model) packer at 3775 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Queen/Penrose

2. Name of Field or Pool (if applicable) Querecho Plains

3. Is this a new well drilled for injection? ☐ Yes ☒ No

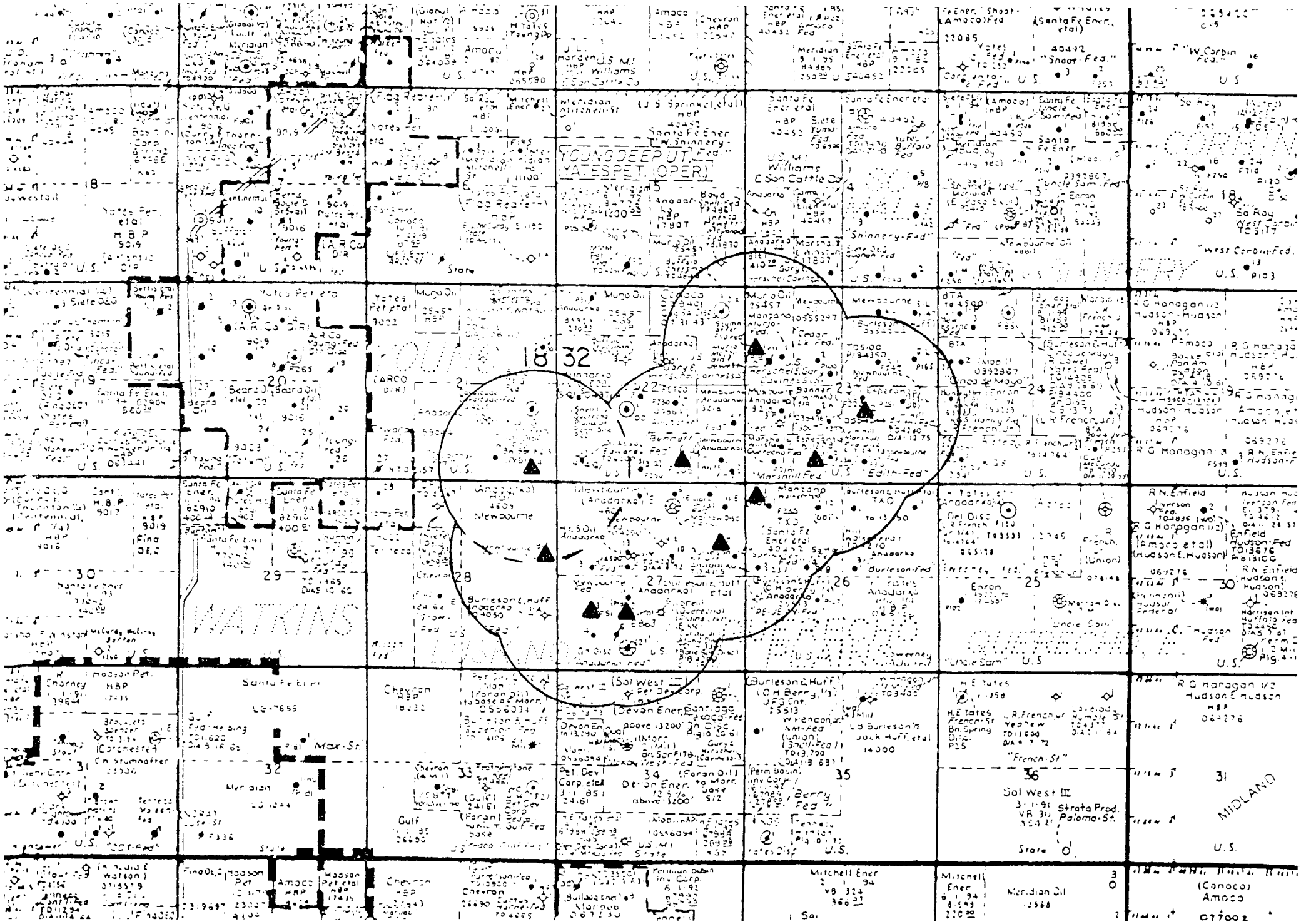
If no, for what purpose was the well originally drilled? oil production

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)

No

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

ITEM V OF NEW MEXICO OCD FORM C-108
Map of All Wells Within 2 Miles of Injectors With 1/2 Mile Radius of Investigation
Querecho Plains Queen Associated Sand Unit



ITEM VI OF NEW MEXICO OCD FORM C-108
WELLS WITHIN REVIEW AREA WHICH PENETRATE THE QUEEN
QUERECHO PLAINS QUEEN ASSOCIATED SAND UNIT
1-14-94/KMM

OPERATOR	LEASE/WELL	LOCATION	TYPE	CONSTRUCTION	TOP OF CEMENT	DATE DRILLED	TD	COMPLETION & COMMENTS
MANZANO	JEWITT FEDERAL #1	T18S, R32E, SEC 15 660 FSL, 660 FEL	OIL	13 3/8 @ 610' CMT W/ 475 SX 8 5/8 @ 4425' CMT W/ 600 SX 5 1/2 @ 8620' cmt w/ 850 sx	SURFACE 2715' 3690' CBL	12/15/70	11,830	DST 10072-120' DST 11627'-710' D&A RE-ENTER 1/92 SET 5 1/2" CASING PERF & TEST 8315'-8430' PB TO 6587' OPEN PERFS 6290'-6310'
ANADARKO PETROLEUM	CAVALCADE FED #3	T18S,R32E,SEC 21 1980 FSL, 660 FEL	T.A.	13 3/8" @ 753' CMT W/ 750 SX 8 5/8" @ 3465' CMT W/ 1700 SX 5 1/2" @ 10787' CMT W/400 SX	SURFACE SURFACE 8917'	9/16/65	12,873	O/H 10787'-11747' PERF 10502'-10712' SQZ W/ 300 SX PERF 8708'-8716' SQZ W/ 100 SX O/H 11747'-12873' PLUG 25 SX @ 12244' PLUG 25 SX @ 11925' PLUG 50 SX @ 10887' SQZ 5442'-3772' SQZ 1348'-SURFACE CLEAN OUT TO 10052'
PETRO. CORP. OF TEXAS	CAVALCADE FED #5	T18S,R32E,SEC 21 1650 FSL, 1800' FEL	D & A	SEE SCHEMATIC		10/14/85	4225	SEE SCHEMATIC
ANADARKO PETROLEUM	CAVALCADE FED #1	T18S,R32E,SEC 21 660 FSL, 1650 FEL	OIL	13 3/8" @ 405 CMT W/ 420 SX 8 5/8 @ 4175 CMT W/ 2550 SX 5 1/2 @ 10980 CMT W/ 1100 SX	SURFACE SURFACE 5837'	9/22/84	10,980	NUMEROUS DST PERF 10758'-10808' PB 10914' PERF 9760'-9768' PERF 10565'-10581' PB 4165' PERF 4103'-4138'
MALJAMAR OIL & GAS	CHEESMAN #2-X	T18S, R32E, SEC 22 C NE NE	P & A	10 @ 1165' CMT W/ 50 7 @ 3940' CMT W/ 150	733' 2868'	11/27/42	4840	LOST ORIGINAL HOLE AT 72 MOVED RIG 15' WEST O/H FROM TD TO 7" SHOE P & A
MEWBOURNE OIL CO.	FEDERAL F #2	T18S, R32E, SEC 22 1650 FSL, 330 FEL	OIL	8 5/8 @ 1194' CMT W/ 500 SX 4 1/2 @ 4282' CMT W/ 1000 SX	SURFACE(V) SURFACE(V)	11/11/82	4300	OPEN PERFS 3881'-4151'
ANADARKO PETROLEUM	FEDERAL J #1	T18S, R32E, SEC 22 2180 FSL, 1980 FEL	OIL	8 5/8 @ 1204' CMT W/ 650 SX 5 1/2 @ 4298' CMT W/ 950 SX	SURFACE SURFACE	2/13/83	4300	OPEN PERFS 3868'-4136'
ANADARKO PETROLEUM	BENNET FEDERAL Q #2	T18S, R32E, SEC 22 2310 FSL, 2310 FWL	OIL	8 5/8 @ 1203' CMT W/ 800 SX 5 1/2 @ 4292' CMT W/ 1150 SX	SURFACE SURFACE	2/23/83	4300	OPEN PERFS 3866'-4131'
ANADARKO PETROLEUM	QUERECHO PLAINS UNIT #1	T18S, R32E, SEC 22 1980 FSL, 1980 FWL	OIL	13 3/8 @ 734' CMT W/ 750 SX 9 5/8 @ 4539' CMT W/ 1150 SX 7 @ 13755' CMT W/ 900 SX	SURFACE 903' 8491'	7/10/56	14217	NUMBEROUS DST & CORE OPEN PERFS 11595'-11660'

ANADARKO PETROLEUM	BENNET FEDERAL Q #5	T18S, R32E, SEC 22 2310 FSL, 660 FWL	OIL	8 5/8 @ 1172' CMT W/ 600 SX 5 1/2 @ 4292' CMT W/ 800 SX	SURFACE SURFACE	4/30/83	4300	OPEN PERFS 3842'-4110'
OIL ASSOC. INC.	EDWARDS #1	T18S, R32E, SEC 22 660 FSL, 660 FWL	D & A	13 3/8" @ 342' 10 3/4" @ 1100' MUD 8 5/8" @ 2530' CMT W/ 50 SX	342' 1100' 2176'	2/6/51	6200	DST 5711'-5729' D & A
ANADARKO PETROLEUM	BENNET FEDERAL Q #4	T18S, R32E, SEC 22 660 FSL, 710 FWL	OIL	8 5/8 @ 1200' CMT W/ 700 SX 5 1/2 @ 4300' CMT W/ 1300 SX	SURFACE SURFACE	4/21/83	4300	OPEN PERFS 3846'-4130'
ANADARKO PETROLEUM	BENNET FEDERAL Q #3	T18S, R32E, SEC 22 330 FSL, 2310 FWL	OIL	8 5/8 @ 1203' CMT W/ 700 SX 5 1/2 @ 4295' CMT W/ 1300 SX	SURFACE SURFACE	3/5/83	4300	OPEN PERFS 3872'-4145'
MEWBOURNE OIL CO.	FED H #1	T18S, R32E, SEC 22 660 FSL, 660 FEL	OIL	8 5/8 @ 1196' CMT W/ 600 SX 4 1/2 @ 4290' CMT W/ 900 SX	SURFACE(V) 1327'	8/31/82	4300	OPEN PERFS 3888'-4154'
MEWBOURNE OIL CO.	FED H #2	T18S, R32E, SEC 22 330 FSL, 330 FEL	OIL	13 3/8 @ 440' CMT W/ 400 SX 8 5/8 @ 4472' CMT W/ 2100 SX 5 1/2 @ 8960' CMT W/ 1700 SX	SURFACE(V) SURFACE(V) SURFACE(V)	2/18/86	8960'	OPEN PERFS 8396'-8460'
MEWBOURNE OIL CO.	FED L #4	T18S, R32E, SEC 23 660 FNL, 1650 FEL	WIW	13 3/8 @ 438' CMT W/ 400 SX 8 5/8 @ 4318' CMT W/ 1600 SX 5 1/2 @ 8760' CMT W/ 1325 SX	SURFACE(V) SURFACE(V) 2155'	11/3/87	8760'	OPEN PERFS 8431'-8506' CONVERT TO INJECTION
MEWBOURNE OIL CO.	CEDAR LAKE FED #4	T18S, R32E, SEC 23 330 FNL, 1650 FWL	OIL	8 5/8 @ 450' CMT W/ 300 SX 5 1/2 @ 5003' CMT W/ 1175 SX	SURFACE(V) SURFACE(V)	10/9/91	5003	OPEN PERFS 4834'-4856'
MALJAMAR OIL & GAS	JEWITT-McDONALD #2	T18S, R32E, SEC 23 1980 FNL, 660 FWL	P & A	8 5/8 @ 1348' CMT W/ 50 7 @ 4616' CMT W/ 150	994' 2800'	2/21/44	4809'	O/H FROM TD TO 7" SHOE P & A
MEWBOURNE OIL CO.	MURJO FED #1	T18S, R32E, SEC 23 1850 FNL, 990 FWL	OIL	13 3/8 @ 350' CMT W/ 350 SX 8 5/8 @ 2777' CMT W/ 1200 SX 5 1/2 @ 10800' CMT W/ 650 SX	SURFACE(V) SURFACE(V) 7559'	6/25/87	11780'	PERF & TEST 10648'-10726 PERF & TEST 10172'-10223' PERF & TEST 9619'-9670' SQZ PERFS 9619'-9670' W/ 11 PERF & TEST 9726'-9743' PERF & TEST 9192'-9210' CIBP @ 9560' OPEN PERFS 8283'-8426' RET. BP @ 8506'
MEWBOURNE OIL CO.	CEDAR LAKE FED #2	T18S, R32E, SEC 23 1980 FNL, 1980 FWL	OIL	13 3/8 @ 478' CMT W/ 500 SX 8 5/8 @ 4286' CMT W/ 1400 SX 5 1/2 @ 8708' CMT W/ 1075 SX	SURFACE(V) SURFACE(V) 3347'	11/10/86	8700'	OPEN PERFS 8435'-8501'
MEWBOURNE OIL CO.	CEDAR LAKE FED #1	T18S, R32E, SEC 23 2300 FNL, 2300 FWL	OIL	8 5/8 @ 495' CMT W/ 250 SX 5 1/2 @ 5100' CMT W/ 375 SX	SURFACE(V) 2957'	11/1/74	5100'	PERF & TEST 4674'-4698' PERF & TEST 4627'-4637' PERF & TEST 4430'-4434' BP @ 4350' OPEN PERFS 3927'-4183'
MEWBOURNE OIL CO.	FED L#3	T18S, R32E, SEC 23 1980 FNL, 1650 FEL	OIL	13 3/8 @ 450' CMT W/ 416 SX 8 5/8 @ 4315' CMT W/ 1700 SX 5 1/2 @ 8698' CMT W/ 1475 SX	SURFACE(V) SURFACE(V) 1342'	6/19/87	8698'	OPEN PERFS 8446'-8526'
MEWBOURNE OIL CO.	FED L#6	T18S, R32E, SEC 23 1880 FNL, 660 FEL	OIL	13 3/8 @ 448' CMT W/ 475 SX 8 5/8 @ 4330' CMT W/ 1575 SX 5 1/2 @ 8650' CMT W/ 1400 SX	SURFACE(V) SURFACE(V) SURFACE(V)	7/24/88	8650'	OPEN PERFS 8436'-8520'

MEWBOURNE OIL CO.	FED L#7	T18S, R32E, SEC 23 2310 FSL, 990 FEL	WIW	8 5/8 @ 356' CMT W/ 250 SX 5 1/2 @ 8670' CMT W/ 4630 SX	SURFACE(V) SURFACE(V)	5/14/88	8670'	DEEPEN FROM OTD @ 4281' OPEN PERFS 8485'-8552' CONVERT TO INJECTION
MEWBOURNE OIL CO.	FED L#2	T18S, R32E, SEC 23 2310 FSL, 2030 FEL	WIW	13 3/8 @ 441' CMT W/ 450 SX 8 5/8 @ 4293' CMT W/ 1800 SX 5 1/2 @ 8750' CMT W/ 925 SX	SURFACE(V) SURFACE(V) 4137'	10/14/86	8750'	OPEN PERFS 8458'-8531' CONVERT TO INJECTION
MEWBOURNE OIL CO.	GOVERNMENT K #1	T18S, R32E, SEC 23 1700 FSL, 2300 FWL	OIL	8 5/8 @ 418' CMT W/ 300 SX 5 1/2 @ 4800' CMT W/ 750 SX	SURFACE 514'	9/29/74	4800'	OPEN PERFS 4178'-4190'
MEWBOURNE OIL CO.	GOVERNMENT K #2	T18S, R32E, SEC 23 1950 FSL, 1980 FWL	WIW	13 3/8 @ 700' CMT W/ 700 SX 8 5/8 @ 4800' CMT W/ 3100 SX 5 1/2 1/ 4408'-8900' CMT W/ 900 SX	SURFACE(V) SURFACE(V) 4408'	9/19/86	8900'	OPEN PERFS 8343'-8515' CONVERT TO INJECTION
MEWBOURNE OIL CO.	FED F#1	T18S, R32E, SEC 23 1650 FSL, 990 FWL	OIL	8 5/8 @ 1167' CMT W/ 600 SX 5 1/2 @ 4300' CMT W/ 665 SX	SURFACE(V) 500'	9/29/77	4300'	OPEN PERFS 4132'-4163'
MEWBOURNE OIL CO.	FED F#3	T18S, R32E, SEC 23 1980 FSL, 990 FWL	WIW	13 3/8 @ 480' CMT W/ 275 SX 8 5/8 @ 4285' CMT W/ 1700 SX 5 1/2 @ 8570' CMT W/ 1375 SX	SURFACE(V) SURFACE(V) SURFACE(V)	12/31/86	8570'	OPEN PERFS 8362'-8448' CONVERT TO INJECTION
MEWBOURNE OIL CO.	QUERECHO FED #1	T18S, R32E, SEC 23 610 FSL, 760 FWL	OIL	13 3/8 @ 354' CMT W/ 385 SX 8 5/8 @ 3047' CMT W/ 1475 SX 5 1/2 @ 8565' CMT W/ 1250 SX	SURFACE SURFACE 2331'	12/31/85	9580'	NUMBEROUS DST OPEN PERFS 8414'-8447'
MEWBOURNE OIL CO.	MARSHALL FED #2	T18S, R32E, SEC 23 990 FSL, 990 FWL	OIL	8 5/8 @ 367' CMT W/ 350 SX 4 1/2 @ 4293' CMT W/ 860 SX	SURFACE(V) SURFACE(V)	12/23/81	4293'	OPEN PERFS 3906'-4160'
MEWBOURNE OIL CO.	QUERECHO FED #2	T18S, R32E, SEC 23 760 FSL, 2310 FWL	OIL	13 3/8 @ 374' CMT W/ 385 SX 8 5/8 @ 3010' CMT W/ 1300 SX 5 1/2 @ 8703' CMT W/ 1100 SX	SURFACE SURFACE 3217'	5/6/86	9100'	OPEN PERFS 8459'-8526'
MEWBOURNE OIL CO.	FEDERAL L#1	T18S, R32E, SEC 23 660 FSL, 1980 FEL	OIL	13 3/8 @ 459' CMT W/ 400 SX 8 5/8 @ 4345' CMT W/ 1700 SX 5 1/2 @ 9050' CMT W/ 1050 SX	SURFACE(V) SURFACE(V) 3814'	4/22/86	9050'	OPEN PERFS 8474'-8538'
MEWBOURNE OIL CO.	FED P#2	T18S, R32E, SEC 24 1980 FNL, 330 FWL	OIL	13 3/8 @ 430' CMT W/ 450 SX 8 5/8 @ 4330' CMT W/ 1950 SX 5 1/2 @ 8725' CMT W/ 1425 SX	SURFACE SURFACE 1618'	8/5/89	8725'	OPEN PERFS 8468'-8524'
HANLEY PETRO.	HANLEY "24" FED #1	T18S, R32E, SEC 24 2310 FSL, 330 FWL	P & A	13 3/8 @ 410' CMT W/ 400 SX 8 5/8 @ 3015' CMT W/ 1125 SX 4 1/2 @ 8700' CMT W/ 1930 SX	SURFACE SURFACE 1380'	12/30/90	8700'	OPEN PERFS 8492'-8567' P & A
MEWBOURNE OIL CO.	BURLESON FED #1	T18S, R32E, SEC 26 660 FNL, 2310 FEL	WIW	11 3/4 @ 350' CMT W/ 485 SX 8 5/8 @ 2800' CMT W/ 2250 SX 4 1/2 @ 8700' CMT W/ 1205 SX	SURFACE SURFACE 4130'	11/2/85	8700'	OPEN PERFS 8512'-8572' CONVERT TO INJECTION
MEWBOURNE OIL CO.	SPRINKLE FED #2	T18S, R32E, SEC 26 660 FNL, 1980 FWL	WIW	8 5/8 @ 547' CMT W/ 400 SX 5 1/2 @ 8711' CMT W/ 1950 SX	SURFACE SURFACE	10/3/85	8711'	OPEN PERFS 8542'-8574' CONVERT TO INJECTION
MEWBOURNE OIL CO.	SPRINKLE FED #1	T18S, R32E, SEC 26 660 FNL, 660 FWL	WIW	13 3/8 @ 536' CMT W/ 500 SX 8 5/8 @ 4814' CMT W/ 2825 SX 4 1/2 @ 10635' CMT W/ 735 SX	SURFACE(V) SURFACE(V) 7847'	5/11/85	13350'	PERF & TEST 10196'-10350' PB 10175' PERF & TEST 8439'-8532' SQZ 8439'-8478' OPEN PERFS 8507'-8532' CONVET TO INJECTION

MEWBOURNE OIL CO.	SPRINKLE FED #3	T18S, R32E, SEC 26 2310 FNL, 330 FWL	OIL	11 3/4 @ 350' CMT W/ 485 SX 8 5/8 @ 2767' CMT W/ 1700 SX 5 1/2 @ 8710' CMT W/ 700 SX	SURFACE SURFACE 5219'	3/9/86	8710'	OPEN PERFS 8502'-8568'
SANTA FE ENERGY	SPRINKLE FED #4	T18S, R32E, SEC 26 2310 FNL, 1650 FWL	OIL	13 3/8 @ 353' CMT W/ 370 SX 8 5/8 @ 2810' CMT W/ 1050 SX 5 1/2 @ 9700' CMT W/ 900 SX	SURFACE SURFACE 5212'	1/28/87	9700'	OPEN PERFS 8823'-8836' CIBP @ 8805' OPEN PERFS 8541'-8587' BP @ 6920' OPEN PERFS 5626'-5638'
BURLESON & HUFF	ANADARKO "26" #1	T18S, R32E, SEC 26 1980 FSL, 330 FWL	D & A	10 3/4 @ 697' CMT W/ 321 SX	SURFACE(V)	8/14/72	4124'	D & A
MEWBOURNE OIL CO.	FED E#11	T18S, R32E, SEC 27 660 FNL, 530 FEL	WIW	13 3/8 @ 1125' CMT W/ 1120 SX 8 5/8 @ 4480' CMT W/ 2400 SX 5 1/2 @ 8972' CMT W/ 1625 SX	SURFACE SURFACE 868'	11/30/85	8971'	OPEN PERFS 8360'-8486' PERFS BELOW CIBP 8826'-88 CONVERT TO INJECTION
MEWBOURNE OIL CO.	FED E#7	T18S, R32E, SEC 27 330 FNL, 990 FEL	OIL	8 5/8 @ 1208' CMT W/ 560 SX 4 1/2 @ 4300' CMT W/ 950 SX	SURFACE(V) SURFACE(V)	7/10/83	4300'	OPEN PERFS 3900'-4171'
MEWBOURNE OIL CO.	FED E#6	T18S, R32E, SEC 27 330 FNL, 1980 FEL	OIL	8 5/8 @ 1220' CMT W/ 560 SX 4 1/2 @ 4310' CMT W/ 1050 SX	SURFACE(V) SURFACE(V)	6/30/83	4310'	OPEN PERFS 3879'-4154'
MEWBOURNE OIL CO.	FED E#1	T18S, R32E, SEC 27 660 FNL, 1980 FEL	GAS	13 3/8 @ 650' CMT W/ 650 SX 9 5/8 @ 4540' CMT W/ 2975 SX 5 1/2 @ 12898' CMT W/ 550 SX	SURFACE(V) SURFACE(V) 10327'	10/31/76	12898'	OPEN PERFS 12625'-12791'
MEWBOURNE OIL CO.	FED E#5	T18S, R32E, SEC 27 330 FNL, 2310 FEL	OIL	8 5/8 @ 1210' CMT W/ 550 SX 4 1/2 @ 4300' CMT W/ 900 SX	SURFACE(V) 389'	5/9/83	4300'	OPEN PERFS 3872'-4150'
MEWBOURNE OIL CO.	FED E#3	T18S, R32E, SEC 27 2310 FNL, 990 FWL	OIL	8 5/8 @ 1200' CMT W/ 400 SX 4 1/2 @ 4250' CMT W/ 800 SX	SURFACE(V) 773'	7/9/78	4250'	OPEN PERFS 3904'-4178'
MEWBOURNE OIL CO.	FED E#13	T18S, R32E, SEC 27 1980 FNL, 1980 FWL	OIL	13 3/8 @ 460' CMT W/ 485 SX 8 5/8 @ 4248' CMT W/ 1500 SX 5 1/2 @ 9020' CMT W/ 1225 SX	SURFACE(V) SURFACE(V) 2911'	8/12/87	9020'	OPEN PERFS 8504'-8534'
MEWBOURNE OIL CO.	FED E#2	T18S, R32E, SEC 27 2310 FNL, 1980 FWL	OIL	8 5/8 @ 1151' CMT W/ 600 SX 4 1/2 @ 4220' CMT W/ 450 SX	SURFACE(V) 2264'	9/19/77	4220'	OPEN PERFS 3910'-4041'
H & S OIL CO.	ANADARKO 1-Y	T18S, R32E, SEC 27 1980 FNL, 1995 FWL	D & A	8 5/8 @ 500' CMT W/ 400 SX	SURFACE	3/30/72	4200'	D & A
MEWBOURNE OIL CO.	FED E#4	T18S, R32E, SEC 27 1650 FNL, 2310 FEL	D & A	8 5/8 @ 1220' CMT W/ 500 SX	SURFACE(V)	7/17/78	4250'	D & A
MEWBOURNE OIL CO.	FED E#10	T18S, R32E, SEC 27 2310 FNL, 2310 FEL	WIW	13 3/8 @ 456' CMT W/ 475 SX 8 5/8 @ 4542' CMT W/ 2600 SX 5 1/2 @ 9020' CMT W/ 1400 SX	SURFACE SURFACE 2038'	5/14/85	9020'	OPEN PERFS 8501'-8530' CONVERT TO INJECTION
MEWBOURNE OIL CO.	FED E#12	T18S, R32E, SEC 27 1980 FNL, 330 FEL	OIL	13 3/8 @ 440' CMT W/ 450 SX 8 5/8 @ 4310' CMT W/ 1800 SX 5 1/2 @ 9052' CMT W/ 835 SX	SURFACE(V) SURFACE(V) 4888'	3/16/86	9050'	OPEN PERFS 8470'-8532'
BURLESON & HUFF	ANADARKO FEDERAL #5	T18S, R32E, SEC 27 1650 FSL, 2310 FEL	P & A	8 5/8 @ 338' CMT W/ 200 SX 4 1/2 @ 4084' CMT W/ 400 SX	SURFACE(V) 2346'	12/17/74	4084'	OPEN PERFS 3917'-4052' B.P. @ 4011' PERF & TEST 3014'-3686' P & A

MEWBOURNE OIL CO.	FED G#1	T18S, R32E, SEC 27 1980 FSL, 1980 FWL	OIL	13 3/8 @ 441' CMT W/ 550 SX 8 5/8 @ 4505' CMT W/ 1500 SX 5 1/2 @ 13061' CMT W/ 1395 SX	SURFACE SURFACE 6831'	6/23/78	13061'	PERF & PROD 12693'-12814' PB @ 9850' PERF & PROD 9750'-9778' PB @ 9700' PERF & PROD 8862'-8924' PB @ 8800' OPEN PERFS 8506'-8538'
MEWBOURNE OIL CO.	ANADARKO FEDERAL #4	T18S, R32E, SEC 27 990 FSL, 990 FWL	P & A	8 5/8 @ 325' CMT W/ 150 SX 4 1/2 @ 4080' CMT W/ 410 SX	SURFACE(V) 2256'	6/18/74	4080'	OPEN PERFS 4011'-4032' CIBP @ 3980' OPEN PERFS 3885'-3917' P & A
MEWBOURNE OIL CO.	ANADARKO FEDERAL #6 (O.H. ELK AM FED #1)	T18S, R32E, SEC 27 990 FSL, 1650 FWL	P & A	8 5/8 @ 352' CMT W/ 150 SX 4 1/2 @ 4870' CMT W/ 600 SX	SURFACE(V) 2269'	3/5/76	4870'	PERF & TEST 4816'-4826' CIBP @ 4700' PERF & TEST 4030'-4046' CIBP @ 4000' OPEN PERFS 3901'-3932' P & A
MEWBOURNE OIL CO.	ANADARKO FEDERAL #1 (ORIG. Q. P. UNIT #2)	T18S, R32E, SEC 27 660 FSL, 1980 FWL	P & A	13 3/8 @ 753' CMT W/ 750 SX 9 5/8 @ 4548' CMT W/ 1300 SX 5 1/2 @ 13004' CMT W/ 1750 SX	SURFACE SURFACE 7284'	2/7/58	14330'	NUMBEROUS DST PERF & TEST 12723'-12838' PERF & TEST 11922'-11935' CUT 5 1/2 PULL & RESET @ CMT W/ 600 SX OPEN PERFS 8538'-8560' BP @ 6400' OPEN PERFS 6254'-6277' PULL 5 1/2 BP @ 4200' OPEN PERFS 3910'-4035' P & A
BURLESON & HUFF	ANADARKO "A" #1	T18S, R32E, SEC 28 1650 FSL, 300 FEL	D & A	8 5/8 @ 334' CMT W/ 225 SX 4 1/2 @ 4045' CMT W/ 450 SX	SURFACE 2089'	2/11/75	4045'	PERF & TEST 4003'-4017' PERF & TEST 3985'-3997' D & A
BURLESON & HUFF	SUPERIOR FEDERAL #1	T18S, R32E, SEC 33 330 FNL, 330 FEL	D & A	13 3/8 @ 353' 10 3/4 @ 697' CMT W/ 325 SX 8 5/8 @ 1315' MUDDED	SURFACE	11/5/72	4106'	D & A
SOL WEST 111	NELLIE #1	T18S, R32E, SEC 34 660 FNL, 1980 FWL	D & A	8 5/8 @ 493' CMT W/ 325 SX 4 1/2 @ 4250' CMT W/ 300 SX	SURFACE 2946'	6/2/73	4250'	PERF & TEST 4053-4071' PERF & TEST 3921'-3988' PERF & TEST 3126'-3223' D & A

NOTE: TOP OF CEMENT IS CALCULATED WIHTOUT COMPENSATION FOR COLLARS AND USES 75% EXCESS.
CALCULATIONS ASSUME SLURRY YIELDS OF 1.32 CUFT/SX FOR CASING SET SHALLOWER THAN 6000', AND
1.08 CUFT/SX FOR DEEPER CASING.
V= VISUAL
CBL= CEMENT BOND LOG.

ITEM VI OF NEW MEXICO OCD FORM C-108
PLUGGED WELL DETAIL

Cavalcade Oil Corp. (OPERATOR) Cavalcade "21" Federal (LEASE)

5 (WELL NO.) 1650' FSL & 1800' FEL (FOOTAGE LOCATION) 21 (SECTION) 18S (TOWNSHIP) 32E (RANGE)

Schematic

Tabular Data

Surface Casing
Size 8-5/8 " Cemented with 250 sx.
TOC Surface feet determined by visual
Hole size _____

Intermediate Casing
Size N/A " Cemented with _____ sx.
TOC _____ feet determined by _____
Hole size _____

Long string
Size N/A " Cemented with _____ sx.
TOC _____ feet determined by _____
Hole size _____
Total depth 4225'

Injection interval
_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a
_____ (brand and model) packer at _____ feet
(or describe any other casing-tubing seal).

Other Data

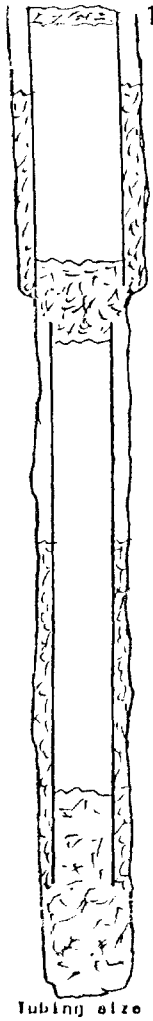
1. Name of the injection formation _____
2. Name of Field or Pool (if applicable) _____
3. Is this a new well drilled for injection? ☐ Yes ☐ No
   If no, for what purpose was the well originally drilled? _____
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

ITEM VI OF NEW MEXICO OCD FORM C-108
PLUGGED WELL DETAIL

Maljamar Oil & Gas (OPERATOR) Chessman (LEASE)

2-X	C NE NE	22	18S	32E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic



10 sx. @ Surface

Shoe @ 1165'

Stub @ 1237'
100 sx. @ 1072'-1245'

350 sx. across open hole to 3107'

Shoe @ 3940'

Tabular Data

Surface Casing
Size N/A " Cemented with _____ sx.
TOC _____ feet determined by _____
Hole size _____

Intermediate Casing
Size 10 " Cemented with 50 sx.
TOC 733 feet determined by calculation
Hole size 11"

Long string
Size 7 " Cemented with 150 sx.
TOC 2868 feet determined by calculation
Hole size 8-5/8"
Total depth 4840'

Injection interval
_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand and model) packer at _____ feet

(or describe any other casing-tubing seal).

Other Data

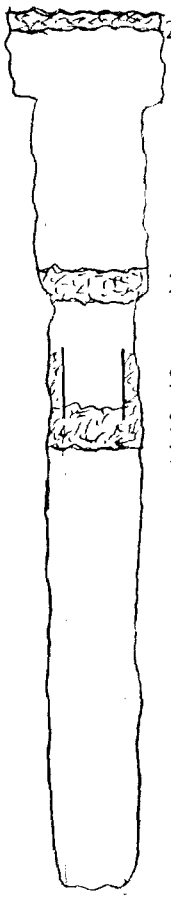
1. Name of the injection formation _____
2. Name of Field or Pool (if applicable) _____
3. Is this a new well drilled for injection? ☐ Yes ☐ No
   If no, for what purpose was the well originally drilled? _____
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

ITEM VI OF NEW MEXICO OCD FORM C-108
PLUGGED WELL DETAIL

Oil Associates, Inc. (OPERATOR) Edwards (LEASE)

1 (WELL NO.) 660' FSL & 660' FWL (FOOTAGE LOCATION) 22 (SECTION) 18S (TOWNSHIP) 32E (RANGE)

Schematic



Tabular Data

Surface Casing
Size 13-3/8 " Cemented with ~~0~~ sx.
TOC _____ feet determined by _____
Hole size _____

Intermediate Casing
Size 10-3/4 " Cemented with ~~0~~ sx.
TOC _____ feet determined by _____
Hole size _____

Long string
Size 8-5/8 " Cemented with 50 sx.
TOC 2176 feet determined by calculation
Hole size _____
Total depth 6200'

Injection interval
_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand and model) packer at _____ feet

(or describe any other casing-tubing seal).

Other Data

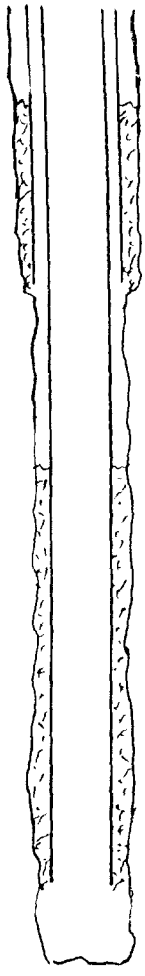
1. Name of the injection formation _____
2. Name of field or Pool (if applicable) _____
3. Is this a new well drilled for injection? ☐ Yes ☐ No
   If no, for what purpose was the well originally drilled? _____
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

ITEM VI OF NEW MEXICO OCD FORM C-108
PLUGGED WELL DETAIL

Maljamar Oil & Gas — Jewett-McDonald
OPERATOR — LEASE

2	1980' FNL & 660' FWL	23	18S	32E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic



Tabular Data

Surface Casing
Size N/A " Cemented with _____ sx.
TOC _____ feet determined by _____
Hole size _____

Intermediate Casing
Size 8-5/8 " Cemented with 50 sx.
TOC 994 feet determined by calculation
Hole size _____

Long string
Size 7 " Cemented with 150 sx.
TOC 2800 feet determined by calculation
Hole size _____
Total depth 4809'

Injection interval
_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a
_____ (brand and model) packer at _____ feet
(or describe any other casing-tubing seal).

Other Data

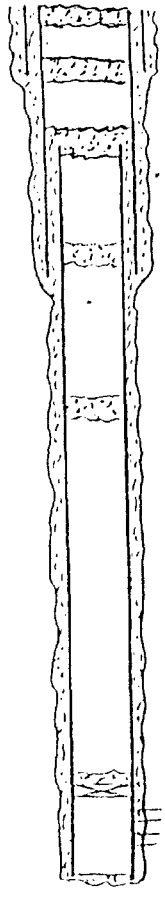
1. Name of the injection formation _____
2. Name of Field or Pool (if applicable) _____
3. Is this a new well drilled for injection? ☐ Yes ☐ No
   If no, for what purpose was the well originally drilled? _____
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

ITEM VI OF NEW MEXICO OCD FORM C-108
PLUGGED WELL DETAIL

HANLEY PETRO. INC. (Operator) HANLEY 24 FEDERAL (Lease)

1	2310 FSL, 330 FWL	24	18S	32E
Well No.	Footage Location	Section	Township	Range

Schematic



20 sxs @ 55'

410'

35 sxs @ 460'

CMT 1981'-1825'

25 sxs @ 3000'

3015'

25 sxs @ 4900'

CIBP @ 8375' with 20 sxs cement

Perfs 8492'-8567'

8700'

Tubular Data

Surface Casing

Size 13 3/8" Cemented with 400 sx.

TOC Surface feet determined by Calcn.

Hole size 17 1/2"

Intermediate Casing

Size 8 5/8" Cemented with 1125 sx.

TOC Surface feet determined by Calcn.

Hole size 11"

Long string

Size 4 1/2" Cemented with 1930 sx.

TOC 1380' feet determined by Calcn.

Hole size 7 7/8"

Total depth 8700'

Injection interval

_____ feet to _____ feet

(perforated or open-hole, indicate which)

NOTE: Cut and pulled 1932' of 4 1/2"

Tubing size _____ lined with _____ (material) set in a

_____ (brand and model) packer at _____ feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) _____

3. Is this a new well drilled for injection? ☐ Yes ☐ No

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

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) _____

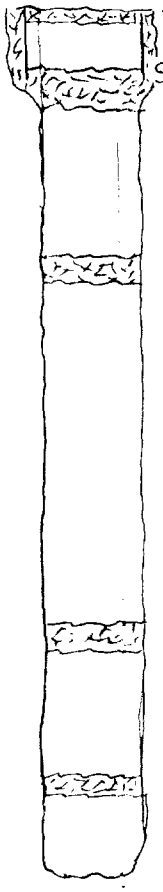
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

ITEM VI OF NEW MEXICO OCD FORM C-108
PLUGGED WELL DETAIL

Burleson & Huff — Anadarko "26"
OPERATOR — LEASE

1 — 1980' FSL & 330' FWL — 26 — 18S — 32E
WELL NO. — FOOTAGE LOCATION — SECTION — TOWNSHIP — RANGE

Schematic



Tabular Data

Surface Casing
Size 10-3/4 " Cemented with 321 sx.
TOC Surface feet determined by visual
Hole size _____

Intermediate Casing
Size N/A " Cemented with _____ sx.
TOC _____ feet determined by _____
Hole size _____

Long string
Size N/A " Cemented with _____ sx.
TOC _____ feet determined by _____
Hole size _____
Total depth 4124'

Injection interval
_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a
_____ (brand and model) packer at _____ feet
(or describe any other casing-tubing seal).

Other Data

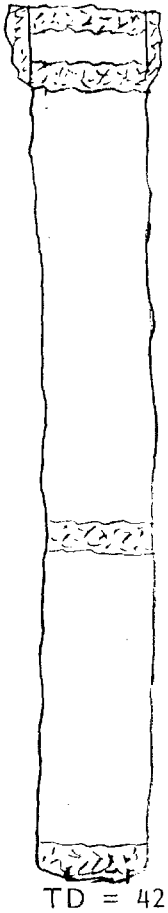
1. Name of the injection formation _____
2. Name of Field or Pool (if applicable) _____
3. Is this a new well drilled for injection? ☐ Yes ☐ No
   If no, for what purpose was the well originally drilled? _____
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

ITEM VI OF NEW MEXICO OCD FORM C-108
PLUGGED WELL DETAIL

H & S Oil Co. (OPERATOR) Anadarko (LEASE)

1-Y (WELL NO.) 1980' FNL & 1995' FWL (FOOTAGE LOCATION) 27 (SECTION) 18S (TOWNSHIP) 32E (RANGE)

Schematic



Tabular Data

Surface Casing

Size 8-5/8" Cemented with 400 sx.

TOC Surface feet determined by calculation

Hole size _____

Intermediate Casing

Size N/A" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size N/A" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Total depth 4200'

Injection interval

_____ feet to _____ feet

(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand and model) packer at _____ feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of field or Pool (if applicable) _____

3. Is this a new well drilled for injection? ☐ Yes ☐ No

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

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) _____

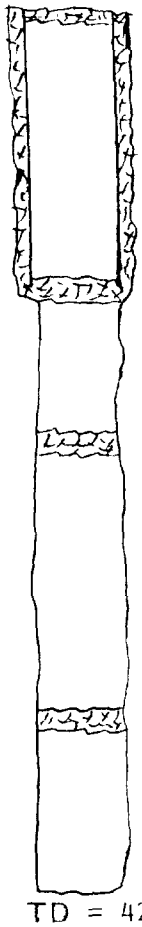
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

ITEM VI OF NEW MEXICO OCD FORM C-108
PLUGGED WELL DETAIL

Mewbourne Oil Co. (OPERATOR) Federal E (LEASE)

4 (WELL NO.) 1650' FNL & 2310' FEL (FOOTAGE LOCATION) 27 (SECTION) 18S (TOWNSHIP) 32E (RANGE)

Schematic



Tabular Data

Surface Casing

Size N/A " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Intermediate Casing

Size 8-5/8 " Cemented with 500 sx.

TOC Surface feet determined by visual

Hole size _____

Long string

Size _____ " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Total depth 4250'

Injection interval

_____ feet to _____ feet

(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a

_____ (brand and model) packer at _____ feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) _____

3. Is this a new well drilled for injection? ☐ Yes ☐ No

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

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) _____

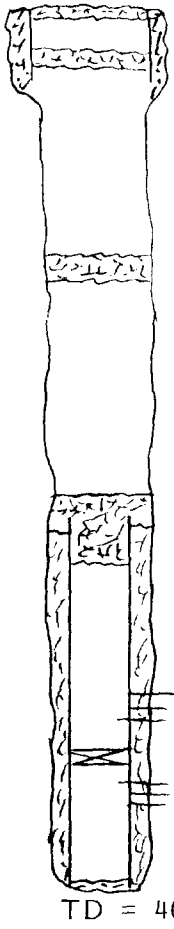
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

ITEM VI OF NEW MEXICO OCD FORM C-108
PLUGGED WELL DETAIL

Burleson & Huff (OPERATOR) Anadarko Federal (LEASE)

5 (WELL NO.) 1650' FSL & 2310' FEL (FOOTAGE LOCATION) 27 (SECTION) 18S (TOWNSHIP) 32E (RANGE)

Schematic



Tabular Data

Surface Casing

Size 8-5/8 " Cemented with 200 sx.

TOC Surface feet determined by visual

Hole size _____

Intermediate Casing

Size N/A " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 4-1/2 " Cemented with 400 sx.

TOC 2346 feet determined by calculation

Hole size _____

Total depth 4084'

Injection interval

_____ feet to _____ feet

(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a

_____ (brand and model) packer at _____ feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) _____

3. Is this a new well drilled for injection? ☐ Yes ☐ No

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

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) _____

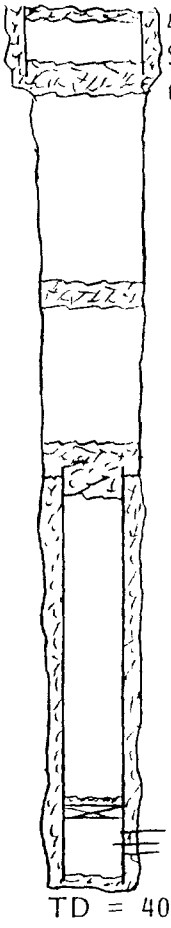
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

ITEM VI OF NEW MEXICO OCD FORM C-108
PLUGGED WELL DETAIL

Mewbourne Oil Co. (OPERATOR) Anadarko Federal (LEASE)

4	990' fSL & 990' FWL	27	18S	32E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic



Tabular Data

Surface Casing

Size 8-5/8" Cemented with 150 sx.

TOC Surface feet determined by circulating

Hole size 10-3/4"

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 4-1/2" Cemented with 400 sx.

TOC 2256 feet determined by calculation

Hole size 7-3/4"

Total depth 4080'

Injection interval

_____ feet to _____ feet

(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand and model) packer at _____ feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) _____

3. Is this a new well drilled for injection? ☐ Yes ☐ No

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

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) _____

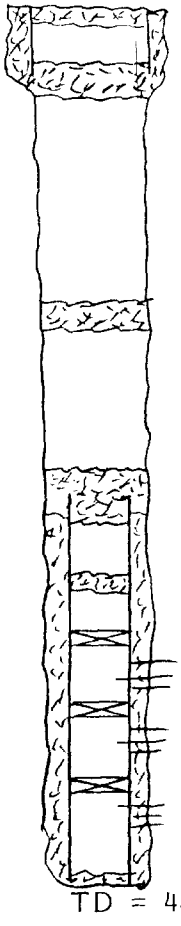
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

ITEM VI OF NEW MEXICO OCD FORM C-108
PLUGGED WELL DETAIL

Mewbourne Oil Co. (OPERATOR) Anadarko Federal (LEASE)

6 (WELL NO.) 990' FSL & 1650' FWL (FOOTAGE LOCATION) 27 (SECTION) 18S (TOWNSHIP) 32E (RANGE)

Schematic



Tabular Data

Surface Casing

Size 8-5/8" Cemented with 150 sx.

TOC Surface feet determined by circulating

Hole size 13-3/8"

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 4-1/2" Cemented with 600 sx.

TOC 2269 feet determined by calculation

Hole size 6-3/4"

Total depth 4870'

Injection interval

_____ feet to _____ feet

(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a

_____ (brand and model) packer at _____ feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) _____

3. Is this a new well drilled for injection? ☐ Yes ☐ No

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

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) _____

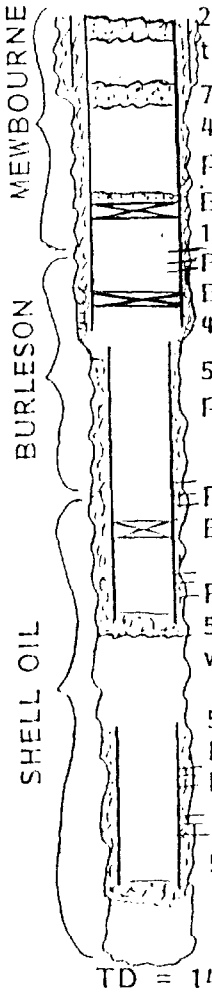
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

ITEM VI OF NEW MEXICO OCD FORM C-108
PLUGGED WELL DETAIL

MEWBOURNE OIL CO. (Operator) ANADARKO FEDERAL (Lease)

1 (Well No.) 660 FSL, 1980 FWL (Footage Location) 27 (Section) 18S (Township) 32E (Range)

Schematic



TOC calcn. @ 5947'

Tubular Data

Surface Casing
Size 13 3/8" Cemented with 750 sx.
TOC Surface feet determined by Calcn.
Hole size 16"

Intermediate Casing
Size 9 5/8" Cemented with 1300 sx.
TOC Surface feet determined by Calcn.
Hole size 10 3/4"

Long string (See Schematic)
Size _____" Cemented with _____ sx.
TOC _____ feet determined by _____
Hole size _____
Total depth _____

Injection Interval
_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand and model) packer at _____ feet

(or describe any other casing-tubing seal).

Other Data

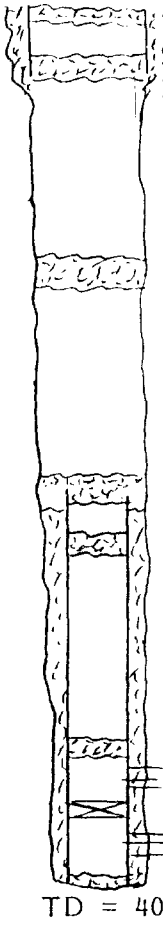
1. Name of the injection formation _____
2. Name of Field or Pool (if applicable) _____
3. Is this a new well drilled for injection? ☐ Yes ☐ No
   If no, for what purpose was the well originally drilled? _____
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

ITEM VI OF NEW MEXICO OCD FORM C-108
PLUGGED WELL DETAIL

Burleson & Huff — Anadarko "A"
OPERATOR — LEASE

1 — 1650' FSL & 300' FEL — 28 — 18S — 32E
WELL NO. — FOOTAGE LOCATION — SECTION — TOWNSHIP — RANGE

Schematic



Tabular Data

Surface Casing
Size 8-5/8 " Cemented with 225 sx.
TOC Surface feet determined by calculation
Hole size _____

Intermediate Casing
Size N/A " Cemented with _____ sx.
TOC _____ feet determined by _____
Hole size _____

Long string
Size 4-1/2 " Cemented with 450 sx.
TOC 2089 feet determined by calculation
Hole size _____
Total depth 4045'

Injection interval
_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ set in a
(material)
_____ packer at _____ feet
(brand and model)
(or describe any other casing-tubing seal).

Other Data

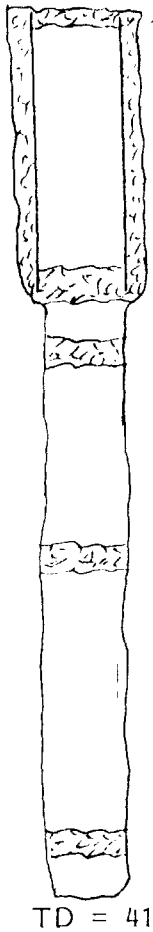
1. Name of the injection formation _____
2. Name of Field or Pool (if applicable) _____
3. Is this a new well drilled for injection? ☐ Yes ☐ No
   If no, for what purpose was the well originally drilled? _____
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

ITEM VI OF NEW MEXICO OCD FORM C-108
PLUGGED WELL DETAIL

Burleson & Huff — Superior Federal
OPERATOR — LEASE

1 — 330' FNL & 330' FEL — 33 — 18S — 32E
WELL NO. — FOOTAGE LOCATION — SECTION — TOWNSHIP — RANGE

Schematic



Tabular Data

Surface Casing
Size N/A " Cemented with _____ sx.
TOC _____ feet determined by _____
Hole size _____

Intermediate Casing
Size 10-3/4 " Cemented with 325 sx.
TOC Surface feet determined by calculation
Hole size 12-1/4"

Long string
Size _____ " Cemented with _____ sx.
TOC _____ feet determined by _____
Hole size _____
Total depth 4106'

Injection interval
_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand and model) packer at _____ feet
(or describe any other casing-tubing seal).

Other Data

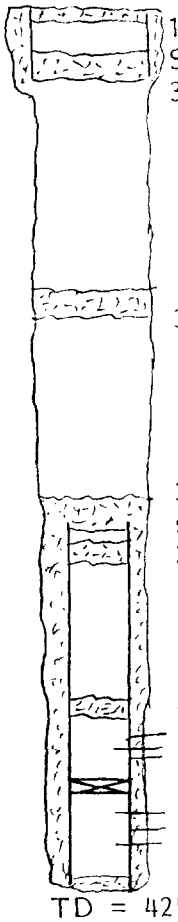
1. Name of the injection formation _____
2. Name of Field or Pool (if applicable) _____
3. Is this a new well drilled for injection? ☐ Yes ☐ No
   If no, for what purpose was the well originally drilled? _____
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

ITEM VI OF NEW MEXICO OCD FORM C-108
PLUGGED WELL DETAIL

Burleson & Huff
Sol West III — Nellie
OPERATOR — LEASE

1 — 660' FNL & 1980' FWL — 34 — 18S — 32E
WELL NO. — FOOTAGE LOCATION — SECTION — TOWNSHIP — RANGE

Schematic



Tabular Data

Surface Casing
Size 8-5/8" Cemented with 325 sx.
TOC Surface feet determined by calculation
Hole size _____

Intermediate Casing
Size N/A" Cemented with _____ sx.
TOC _____ feet determined by _____
Hole size _____

Long string
Size 4-1/2" Cemented with 300 sx.
TOC 2946' feet determined by calculation
Hole size _____
Total depth 4250'

Injection interval
_____ feet to _____ feet
(perforated or open-hole, indicate which)

Tubing size _____ lined with _____ (material) set in a _____ (brand and model) packer at _____ feet
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____
2. Name of Field or Pool (if applicable) _____
3. Is this a new well drilled for injection? ☐ Yes ☐ No
   If no, for what purpose was the well originally drilled? _____
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) _____
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

ITEM VII OF NEW MEXICO OCD FORM C-108
DATA ON PROPOSED OPERATIONS
QUERECHO PLAINS QUEEN ASSOCIATED SAND UNIT
1-19-94/KMM

ITEM VII (1) Proposed average initial injection rate is 4000 bwpd for the field.
Proposed maximum injection rate for any one injector should not exceed 800 bwpd.

ITEM VII (2) The injection system will be operated as a closed system.

ITEM VII (3) Based on a .80 psi/ft frac gradient, a depth to shallowest Penrose perf of 4096', and a .44 psi/ft injection fluid the proposed maximum surface injection pressure is 1400 psi.

ITEM VII (4) The source of injection water for the subject unit will be the Querecho Plains Bone Spring Sand Unit. The source of water for the Bone Spring Unit is fresh water supplied by the city of Carlsbad, Delaware produced water, and Bone Spring produced water. A copy of these water analyze is attached.

ITEM VII (5) Not applicable.

ITEM VIII OF NEW MEXICO OCD FORM C-108
GEOLOGIC DATA ON THE INJECTION ZONE & UNDERGROUND DRINKING WATER
QUERECHO PLAINS QUEEN ASSOCIATED SAND UNIT
1-19-94/KMM

The zone being targeted for water injection at Querecho Plains are the Queen/Penrose sands at depths from 3886'-4222' in the well Federal E NO. 7, Section 27, T18S, R32E. The Queen/Penrose sands are a sequence of well consolidated sandstone, siltstone, and shale strata of Permian Guadalupe age cemented with calcareous material. An eleven percent porosity cut off is use to determine net pay as porosity less than eleven percent is considered impermeable at the existing and proposed reservoir pressure and reservoir fluid regimes. Net pay isopach maps show the areal extent of the targeted sands. Impermeable shale deposits exist above and below the targeted sands thus defining the permeable limits of the reservoir. The Queen reservoir has a water-oil contact defining its Southeast edge. All injected fluids should remain in the reservoir with the exception of cycling to the surface though wellbores.

Based on communications with the New Mexico State Engineer's Roswell office (Ken Fresquez) and OCD files at Hobbs there appears to be eleven fresh water wells within T18S & R32E. Three of these wells are within the area of review. The deepest of these wells has a total depth of 700'. The source strata tapped by this well is the Triassic "Red Beds" and the only other strata Mr. Fresquez referred to as potentially fresh was the Alluvium which is shallower than the "Red Beds". There are no known fresh water strata underlying the Queen/Penrose.

ITEMS IX THROUGH XII
QUERECHO PLAINS QUEEN ASSOCIATED SAND UNIT
1-19-94/KMM

ITEM IX. All of the current wellbores proposed for unitization have an existing fracture stimulation. Any new wells drilled subsequent to unitization will also be treated with a fracture stimulation, and it is assumed that all of the wellbores will be treated with acid at least once during the life of the waterflood.

ITEM X. All logging and test data for the existing wellbores already exists on file with the state of New Mexico Oil Conservation Division (OCD) and will not be resubmitted with this application.

ITEM XI. As stated in ITEM VIII, it appears the only strata within one mile of our proposed unit which contains water of possible drinking quality is confined to 700' and shallower. No contamination of this drinking water should occur as all existing wellbores which penetrate the Queen/Penrose in the proposed area are completed or plugged in a manner to prevent communication from our flood to these water strata.

ITEM XII. After reviewing the geology of the Queen/Penrose strata in a one and one-half mile radius around the proposed unit area, no evidence appears of fractures or any hydrologic connection between the target sands and any overlying or underlying strata.

CAPROCK LABORATORIES, INC.
3312 DANKHEAD HIGHWAY
MIDLAND, TEXAS 79701
(915) 689 - 7252

May 21, 1992

Mewburne Oil Company
P. O. Box 7698
Tyler, Texas 75711

Attention: Kevin Mays

Subject: Water Compatibility Study

Gentlemen:

Presented in this report are the final results of a water compatibility study performed on 5 samples of produced water provided to this laboratory by Core Laboratory on behalf of Mewburne Oil Company. API Water Analysis was performed on each of the samples to determine their ionic characteristics. Based on these analyses, the scaling tendency with respect to cacium carbonate and calcium sufate were calculated and reported on May 19, 1992 (our Job Number 9205032). The samples were physically mixed to determine if precipitates would form. Turbidity was measured as percent transmittance on each of the combinations at 420 nanometers wavelength on a Milton Roy Model 601 Spectrophotometer.

The turbidity data are presented in this report and indicated ~~that~~ that the water from the Federal "E" #5 tank battery (Queen Formation) and the water from the Cedardrake Federal #4 well formed precipitates when combined in the ratios tested (very slight decreases in transmittance were observed). Additional analyses were performed on the waters to determine their barium concentrations and are also presented in this report. Based on calculations from theoretical combinations, all of the waters have a tendency to form both calcium carbonate and calcium sulfate scale on their own and these tendencies do not increase when mixed. The fresh water from Double Eagle and the Delaware produced water from the Cedardrake Federal #4 well both have barium and therefore presents the possibility of barium sulfate scale formation when combined with waters high in sulfate.

In conclusion, based on all of the analyses and physical combinations of these waters, the Delaware produced water from the Jewitt Feed #1 appears to be the most compatible water to the Bone Springs water from the Federal "L" lease.

Respectfully yours,

James L. Pritchard, Lab Manager
Caprock Laboratories, Inc.

LABORATORIES, INC.
3312 Bankhead Hwy.
Midland, Texas 79701
(915) 689-7252
FAX # (915) 689-0130

WATER ANALYSIS REPORT

SAMPLE

l Co. :	MEWBOURNE OIL CO.	Sample Loc. :	QUEEN PENCOSE PROD. WATER
Lease :	FEDERAL E	Date Sampled :	
ell No.:	#5 T.B.	Attention :	
Job No.:	9205032	Analysis No. :	1

ANALYSIS

			MG/L	EQ. WT.	*MEQ/L
1.	pH		6.100		
2.	Specific Gravity 60/60 F.		1.171		
3.	$CaCO_3$ Saturation Index	@ 80 F.	+1.948		
		@ 140 F.	+2.648		

Dissolved Gasses

4.	Hydrogen Sulfide		0.0
5.	Carbon Dioxide		Not Determined
6.	Dissolved Oxygen		Not Determined

Cations

7.	Calcium	(Ca^{++})		8,978	/ 20.1 =	446.67
8.	Magnesium	(Mg^{++})		8,266	/ 12.2 =	677.54
9.	Sodium	(Na^{+})	(Calculated)	94,120	/ 23.0 =	4,092.17
10.	Barium	(Ba^{++})		0.0		

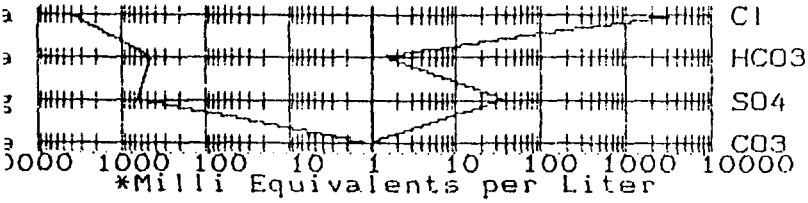
Anions

11.	Hydroxyl	(OH^{-})	0	/ 17.0 =	0.00
12.	Carbonate	(CO_3^{-})	0	/ 30.0 =	0.00
13.	Bicarbonate	(HCO_3^{-})	85	/ 61.1 =	1.39
14.	Sulfate	(SO_4^{-})	1,950	/ 48.8 =	39.96
15.	Chloride	(Cl^{-})	183,647	/ 35.5 =	5,173.15

16.	Total Dissolved Solids	297,046	
17.	Total Iron (Fe)	22	/ 18.2 = 1.21
18.	Total Hardness As $CaCO_3$	56,450	
19.	Resistivity @ 75 F. (Calculated)	0.001 /cm. = .1 Ω/m	

LOGARITHMIC WATER PATTERN

*meq/L.



*Milli Equivalents per Liter

Calculated Calcium Sulfate solubility in this brine is 1,232 mg/L. at 90 F.

PROBABLE MINERAL COMPOSITION

COMPOUND	EQ. WT.	X *meq/L =	mg/L.
$Ca(HCO_3)_2$	81.04	1.39	113
$CaSO_4$	68.07	39.96	2,720
$CaCl_2$	55.50	405.32	22,495
$Mg(HCO_3)_2$	73.17	0.00	0
$MgSO_4$	60.19	0.00	0
$MgCL_2$	47.62	677.54	32,265
$NaHCO_3$	84.00	0.00	0
$NaSO_4$	71.03	0.00	0
NaCl	58.46	4,090.30	239,119

ialyst

marks and Comments:

CAPROCK
LABORATORIES, INC.
3312 Bankhead Hwy.
Midland, Texas 79701
(915) 689-7252
FAX # (915) 689-0130

WATER ANALYSIS REPORT

SAMPLE

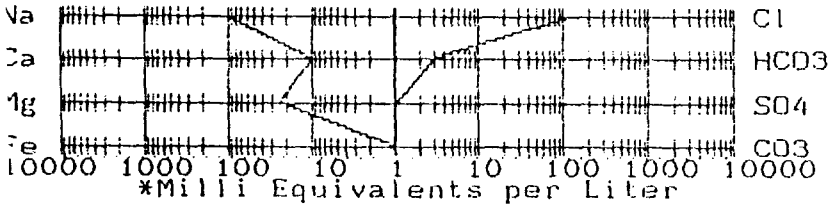
Oil Co. :
Lease : DOUBLE EAGLE
Well No.: FRESH WATER
Job No.: 9205032

Sample Loc. :
Date Sampled :
Attention :
Analysis No. : 3

ANALYSIS

		MG/L	EQ. WT.	*MEQ/L
1.	pH	9.100		
2.	Specific Gravity 60/60 F.	0.996		
3.	$CaCO_3$ Saturation Index @ 80 F.	+1.548		
	@ 140 F.	+2.388		
	Dissolved Gasses			
4.	Hydrogen Sulfide	0.0		
5.	Carbon Dioxide	Not Determined		
6.	Dissolved Oxygen	Not Determined		
	Cations			
7.	Calcium (Ca^{++})	200	/ 20.1 =	9.95
8.	Magnesium (Mg^{++})	304	/ 12.2 =	24.92
9.	Sodium (Na^{+}) (Calculated)	2,507	/ 23.0 =	109.00
10.	Barium (Ba^{++})	6	/ 68.7 =	0.09
	Anions			
11.	Hydroxyl (OH^{-})	0	/ 17.0 =	0.00
12.	Carbonate (CO_3^{--})	0	/ 30.0 =	0.00
13.	Bicarbonate (HCO_3^{-})	183	/ 61.1 =	3.00
14.	Sulfate (SO_4^{--})	50	/ 48.8 =	1.02
15.	Chloride (Cl^{-})	4,963	/ 35.5 =	139.80
16.	Total Dissolved Solids	8,213		
17.	Total Iron (Fe)	1	/ 18.2 =	0.05
18.	Total Hardness As $CaCO_3$	1,752		
19.	Resistivity @ 75 F. (Calculated)	0.685 /cm.		

LOGARITHMIC WATER PATTERN
*meq/L.



*Milli Equivalents per Liter

Calculated Calcium Sulfate solubility in this brine is 2,814 mg/L. at 90 F.

PROBABLE MINERAL COMPOSITION

COMPOUND	EQ. WT.	X *meq/L =	mg/L.
$Ca(HCO_3)_2$	81.04	3.00	243
$CaSO_4$	68.07	0.94	64
$CaCl_2$	55.50	6.02	334
$Mg(HCO_3)_2$	73.17	0.00	0
$MgSO_4$	60.19	0.00	0
$MgCL_2$	47.62	24.92	1,187
$NaHCO_3$	84.00	0.00	0
$NaSO_4$	71.03	0.00	0
NaCl	58.46	108.87	6,364

Analyst K Rea

Remarks and Comments:

CAPROCK
LABORATORIES, INC.
3312 Bankhead Hwy.
Midland, Texas 79701
(915) 689-7252
FAX # (915) 689-0130

WATER ANALYSIS REPORT

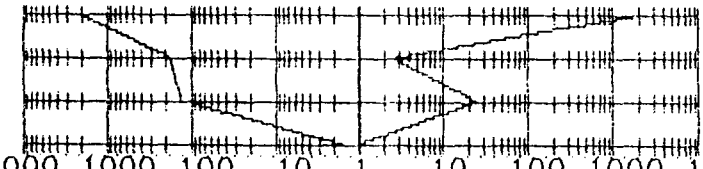
SAMPLE

il Co. : MEWBOURNE OIL CO.
Lease : FEDERAL L LEASE
ell No.:
Job No.: 9205032

Sample Loc. : BONE SPRINGS PROD. WATER
Date Sampled :
Attention :
Analysis No. : 5

ANALYSIS			MG/L	EQ. WT.	*MEQ/L
1.	pH		7.550		
2.	Specific Gravity 60/60 F.		1.110		
3.	$CaCO_3$ Saturation Index	@ 80 F.	+0.842		
		@ 140 F.	+1.722		
	Dissolved Gasses				
4.	Hydrogen Sulfide		0.0		
5.	Carbon Dioxide		Not Determined		
6.	Dissolved Oxygen		Not Determined		
	Cations				
7.	Calcium (Ca^{++})		3,527	/ 20.1 =	175.47
8.	Magnesium (Mg^{++})		1,556	/ 12.2 =	127.54
9.	Sodium (Na^{+})	(Calculated)	52,547	/ 23.0 =	2,284.65
10.	Barium (Ba^{++})		Not Determined		
	Anions				
11.	Hydroxyl (OH^{-})		0	/ 17.0 =	0.00
12.	Carbonate (CO_3^{--})		0	/ 30.0 =	0.00
13.	Bicarbonate (HCO_3^{-})		159	/ 61.1 =	2.60
14.	Sulfate (SO_4^{--})		1,300	/ 48.8 =	26.64
15.	Chloride (Cl^{-})		90,760	/ 35.5 =	2,556.62
16.	Total Dissolved Solids		149,849		
17.	Total Iron (Fe)		28	/ 18.2 =	1.51
18.	Total Hardness As $CaCO_3$		15,214		
19.	Resistivity @ 75 F. (Calculated)		0.037 /cm.		

LOGARITHMIC WATER PATTERN
*meq/L.



*Milli Equivalents per Liter

Calculated Calcium Sulfate solubility in this brine is 4,032 mg/L. at 90 F.

PROBABLE MINERAL COMPOSITION

COMPOUND	EQ. WT.	X *meq/L =	mg/L.
$Ca(HCO_3)_2$	81.04	2.60	211
$CaSO_4$	68.07	26.64	1,813
$CaCl_2$	55.50	146.23	8,116
$Mg(HCO_3)_2$	73.17	0.00	0
$MgSO_4$	60.19	0.00	0
$MgCL_2$	47.62	127.54	6,074
$NaHCO_3$	84.00	0.00	0
$NaSO_4$	71.03	0.00	0
NaCl	58.46	2,282.85	133,455

K Rea

ialyst

emarks and Comments:

CAPROCK
LABORATORIES, INC.
3312 Bankhead Hwy.
Midland, Texas 79701
(915) 689-7252
FAX # (915) 689-0130

WATER ANALYSIS REPORT

SAMPLE

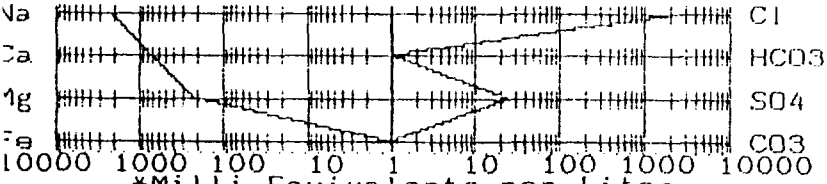
Oil Co. : MEWBOURNE OIL CO.
Lease : CEDARDRAKE FEDERAL
Well No.: #4
Job No.: 9205032

Sample Loc. : DELAWARE PROD. WATER
Date Sampled :
Attention :
Analysis No. : 4

ANALYSIS

		MG/L	EQ. WT.	*MEQ/L
1.	pH	6.900		
2.	Specific Gravity 60/60 F.	1.148		
3.	$CaCO_3$ Saturation Index @ 80 F.	+0.668		
	@ 140 F.	+1.778		
	Dissolved Gasses			
4.	Hydrogen Sulfide	0.0		
5.	Carbon Dioxide	Not Determined		
6.	Dissolved Oxygen	Not Determined		
	Cations			
7.	Calcium (Ca^{++})	14,749	/ 20.1 =	733.78
8.	Magnesium (Mg^{++})	2,674	/ 12.2 =	219.18
9.	Sodium (Na^{+}) (Calculated)	49,932	/ 23.0 =	2,170.96
10.	Barium (Ba^{++})	22	/ 68.7 =	0.32
	Anions			
11.	Hydroxyl (OH^{-})	0	/ 17.0 =	0.00
12.	Carbonate (CO_3^{--})	0	/ 30.0 =	0.00
13.	Bicarbonate (HCO_3^{-})	49	/ 61.1 =	0.80
14.	Sulfate (SO_4^{--})	1,300	/ 48.8 =	26.64
15.	Chloride (Cl^{-})	109,904	/ 35.5 =	3,095.89
16.	Total Dissolved Solids	178,630		
17.	Total Iron (Fe)	18	/ 18.2 =	0.99
18.	Total Hardness As $CaCO_3$	47,843		
19.	Resistivity @ 75 F. (Calculated)	0.014 /cm.		

LOGARITHMIC WATER PATTERN
*meq/L.



*Milli Equivalents per Liter

Calculated Calcium Sulfate solubility in this brine is 1,111 mg/L. at 90 F.

PROBABLE MINERAL COMPOSITION

COMPOUND	EQ. WT.	X *meq/L =	mg/L.
$Ca(HCO_3)_2$	81.04	0.80	65
$CaSO_4$	68.07	26.32	1,792
$CaCl_2$	55.50	706.66	39,220
$Mg(HCO_3)_2$	73.17	0.00	0
$MgSO_4$	60.19	0.00	0
$MgCL_2$	47.62	219.18	10,437
$NaHCO_3$	84.00	0.00	0
$NaSO_4$	71.03	0.00	0
NaCl	58.46	2,170.05	126,861

Analyst

Remarks and Comments:

CAPROCK
LABORATORIES, INC.
3312 Bankhead Hwy.
Midland, Texas 79701
(915) 689-7252
FAX # (915) 689-0130

WATER ANALYSIS REPORT

SAMPLE

Oil Co. : MANZANO OIL
Lease : JEWITT FEED
Well No.: #1
Job No.: 9205032

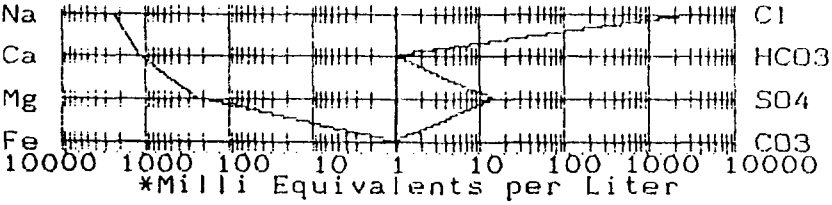
Sample Loc. : DELAWARE PROD.
Date Sampled :
Attention :
Analysis No. : 2

ANALYSIS

			MG/L	EQ. WT.	*MEQ/L
1.	pH		6.550		
2.	Specific Gravity 60/60 F.		1.165		
3.	$CaCO_3$ Saturation Index	@ 80 F.	+1.052		
		@ 140 F.	+2.812		
	Dissolved Gasses				
4.	Hydrogen Sulfide		0.0		
5.	Carbon Dioxide		Not Determined		
6.	Dissolved Oxygen		Not Determined		
	Cations				
7.	Calcium	(Ca^{++})	24,529	/ 20.1 =	1,220.35
8.	Magnesium	(Mg^{++})	2,772	/ 12.2 =	227.21
9.	Sodium	(Na^{+}) (Calculated)	52,982	/ 23.0 =	2,303.57
10.	Barium	(Ba^{++})	0.0		
	Anions				
11.	Hydroxyl	(OH^{-})	0	/ 17.0 =	0.00
12.	Carbonate	(CO_3^{--})	0	/ 30.0 =	0.00
13.	Bicarbonate	(HCO_3^{-})	61	/ 61.1 =	1.00
14.	Sulfate	(SO_4^{--})	750	/ 48.8 =	15.37
15.	Chloride	(Cl^{-})	132,594	/ 35.5 =	3,735.04
16.	Total Dissolved Solids		213,688		
17.	Total Iron (Fe)		15	/ 18.2 =	0.84
18.	Total Hardness As $CaCO_3$		72,665		
19.	Resistivity @ 75 F. (Calculated)		0.001 /cm.		

LOGARITHMIC WATER PATTERN

*meq/L.



*Milli Equivalents per Liter

Calculated Calcium Sulfate solubility in this brine is 590 mg/L. at 90 F.

PROBABLE MINERAL COMPOSITION

COMPOUND	EQ. WT.	X *meq/L =	mg/L.
$Ca(HCO_3)_2$	81.04	1.00	81
$CaSO_4$	68.07	15.37	1,046
$CaCl_2$	55.50	1,203.98	66,821
$Mg(HCO_3)_2$	73.17	0.00	0
$MgSO_4$	60.19	0.00	0
$MgCl_2$	47.62	227.21	10,820
$NaHCO_3$	84.00	0.00	0
$NaSO_4$	71.03	0.00	0
NaCl	58.46	2,303.85	134,683

Analyst

Remarks and Comments:

UNIT AGREEMENT
QUERECHO PLAINS QUEEN ASSOCIATED SAND UNIT
EXHIBIT "B"

Date 12-3-93

Unit Tract # and Well Name	Description of Land	Number of Acres	Name or # of Lease	Basic Royalty & Percentage	Lessee of Record	Overriding Royalty and Percentage	Working Interest, Percentage and Designated Operator (*)
1. Bennett Federal #1, #2, #3, #4, #5	SW/4 SE/4 and SW/4 of Section 22 T18S-R32E, Lea County, New Mexico	200.00	NM 04371-A HBP	12.50% USA	Anadarko Petroleum Corp. 100.00%	Gary L. Bennett, et ux 3.5% Margaret J. McCurdy 3.2813% Genevieve E. DuPont 1.0156% Richard D. Borgaard .2438% NationsBank Texas, N.A., Trustee under the Will of David B. Trammell .1656% NationsBank Texas, N.A., Trustee under the Will of Margaret R. Trammell .0828% Carol David Trammel .0828% L. E. Bearden, Jr. .0781% Gladys Shannon .05%	* Anadarko Petroleum Corp. 100.00%
2. Federal "J" #1	NW/4 SE/4 of Section 22 T18S-R32E, Lea County, New Mexico	40.00	NM 04868 HBP	Schedule B USA	Anadarko Petroleum Corp. 100.00%	Gary L. Bennett, et ux 3.5% Margaret J. McCurdy 3.2813% Genevieve E. DuPont 1.0156% Elizabeth Borgaard .2438% NationsBank Texas, N.A., Trustee under the Will of David B. Trammell .1656% NationsBank Texas, N.A., Trustee under the Will of Margaret R. Trammell .0828% Carol David Trammel .0828% L. E. Bearden, Jr. .0781% Gladys Shannon .05%	* Anadarko Petroleum Corp. 100.00%

APPLICATION - EXHIBIT 5

Unit Tract # and Well Name	Description of Land	Number of Acres	Name or # of Lease	Basic Royalty & Percentage	Lessee of Record	Overriding Royalty and Percentage	Working Interest, Percentage and Designated Operator (*)
3A. Federal "L"	S/2 SE/4 & NE/4 SE/4 of Section 23 T18S-R32E, Lea County, New Mexico	120.00	NM 0554244 HBP	12.50% USA	O. H. Berry 33.33333% Jack Huff 33.33333% Steve K. Burleson 16.66667% Nancy E. Hayes 16.66667%	Mewbourne Oil Company 4.00% O. H. Berry 1.33% Jack Huff 1.33% William Green 1.00% James Makins 1.00% James Makins, Jr. 1.00% Michael Makins 1.00% Patrick Makins 1.00% Scott Makins 1.00% Steve Burleson .66% Nancy Hayes .66%	Mewbourne Oil Company 46.50% Curtis W. Mewbourne 28.50% Joyran Corp. 12.50% Associated Partners Ltd 1986 11.25% Hillside Syndicate 1.25%
3B. Edith Federal #2	NW/4 SE/4 of Section 23 T18S-R32E, Lea County, New Mexico	40.00	NM 0554244 HBP	12.50% USA	O. H. Berry 33.33333% Jack Huff 33.33333% Steve K. Burleson 16.66667% Nancy E. Hayes 16.66667%	James Makins 1.00% James Makins, Jr. 1.00% Michael Makins 1.00% Patrick Makins 1.00% Scott Makins 1.00% William Green .50% O.H. Berry .21486% Virginia Berry .21486% Barbara Roberts .07031%	* Mewbourne Oil Company 100.00%
4. Government "K" #1	NE/4 SW/4 of Section 23 T18S-R32E, Lea County, New Mexico	40.00	NM 0554967 HBP	12.50% USA	Mobil Producing Texas & New Mexico, Inc. 100.00%	Mobil Producing Texas & New Mexico, Inc. 7.50% Joan R. Duncan 5.00%	* Mewbourne Oil Company 100.00%

Unit Tract # and Well Name	Description of Land	Number of Acres	Name or # of Lease	Basic Royalty & Percentage	Lessee of Record	Overriding Royalty and Percentage	Working Interest, Percentage and Designated Operator (*)
5. Cedar Lake Federal #1	SE/4 NW/4 of Section 23 T18S-R32E, Lea County, New Mexico	40.00	NM 0555297 HBP	12.50% USA	Mewbourne Oil Company 100.00%	Mewbourne Oil Company 4.00% William Green 1.25% The Ross Family Trust Vee K. Ross, Trustee 1.25% Adrian Clouthier .33% Lucy James .25% Rafelita Pittman .25% John Borg .166% Pamela Brooks .166% Patricia Howard .166% Ann Mills .125% Diana Ochterbeck .125% Jeannett Hubbard .125% Olivia Wood .125% Eleanor Ferris .125% Adele Simpson .125% Robert Clouthier .0833% Charles & Gwen Clouthier .0833% Peter Simpson .0625% Sammy Simpson .0625% Lita Sabonis .0625% Roland Simpson .0625%	* Mewbourne Oil Company 46.50% Curtis W. Mewbourne 28.50% Joyran Corp. 12.50% Associated Partners Ltd 1986 11.25% Hillside Syndicate 1.25%
6A. Federal "E" #7	NE/4 NE/4 of Section 27 T18S-R32E, Lea County, New Mexico	40.00	NM 4609 HBP	12.50% USA	Anadarko Petroleum Corp. 100.00%	None 0.00%	Anadarko Petroleum 36.36364% OXY USA INC. 33.33333% * Curtis W. Mewbourne 30.30303% <u>After Payout</u>: Curtis W. Mewbourne 33.33334% Anadarko Petroleum 33.33333% OXY USA INC. 33.33333%

Unit Tract # and Well Name	Description of Land	Number of Acres	Name or # of Lease	Basic Royalty & Percentage	Lessee of Record	Overriding Royalty and Percentage	Working Interest, Percentage and Designated Operator (*)
6B. Federal "E" #6	NW/4 NE/4 of Section 27 T18S-R32E, Lea County, New Mexico	40.00	NM 4609 HBP	12.50% USA	Anadarko Petroleum Corp. 100.00%	None 0.00%	Anadarko Petroleum 36.36364% OXY USA INC. 33.33333% * Curtis W. Mewbourne 30.30303% After Payout: Curtis W. Mewbourne 33.33334% Anadarko 33.33333% OXY USA INC. 33.33333%
6C. Federal "E" #5	NE/4 NW/4 of Section 27 T18S-R32E, Lea County, New Mexico	40.00	NM 4609 HBP	12.50% USA	Anadarko Petroleum Corp. 100.00%	None 0.00%	Anadarko Petroleum 36.36364% OXY USA INC. 33.33333% * Curtis W. Mewbourne 30.30303% After Payout: Curtis W. Mewbourne 33.33334% Anadarko 33.33333% OXY USA INC. 33.33333%
6D. Federal "E" #2, #3, and #9	S/2 NW/4, NW/4 NW/4, & SW/4 NE/4 of Section 27, and N/2 NE/4, SE/4 NE/4, & NE/4 SE/4 of Section 28 T18S-R32E, Lea County, New Mexico	320.00	NM 4609 HBP	12.50% USA	Anadarko Petroleum Corp. 100.00%	None 0.00%	* Curtis W. Mewbourne 33.33334% Anadarko Petroleum 33.33333% OXY USA INC. 33.33333%
6E. Federal "E" #8	SE/4 NE/4 of Section 27 T18S-R32E, Lea County, New Mexico	40.00	NM 4609 HBP	12.50% USA	Anadarko Petroleum Corp. 100.00%	None 0.00%	* Curtis W. Mewbourne 50.00% OXY USA INC. 50.00% After Payout: Curtis W. Mewbourne 33.33334% Anadarko Petroleum 33.33333% OXY USA INC. 33.33333%

Unit Tract # and Well Name	Description of Land	Number of Acres	Name or # of Lease	Basic Royalty & Percentage	Lessee of Record	Overriding Royalty and Percentage	Working Interest, Percentage and Designated Operator (*)
7. Anadarko Federal #2 and #3	N/2, SW/4 of Section 27 T18S-R32E, Lea County, New Mexico	80.00	NM 6863 HBP	Schedule B USA	Anadarko Petroleum Corp. 100.00%	Anadarko Petroleum 6.25% O.H. Berry 1.388889% James J. Cole .694445% James J. Cole, Personal Representative of estate of Jimmie J. Cole, deceased .694445% Katherine Crews .462963% Sue Crews Piaget .462963% Courtenay Crews Johnson .462963%	* Mewbourne Oil Company 100.00%
8. Federal "H" #1	SE/4 SE/4 of Section 22 T18S-R32E, Lea County, New Mexico	40.00	NM 8675 HBP	12.50% USA	Anadarko Petroleum Corp. 100.00%	Club O&G 1.25% Joan Duncan 1.25% Estate of J. Walter Duncan, Raymond T. Duncan, Personal Representative 1.25% J. Walter Duncan, Jr. 1.125% JWD III, Inc. .125%	* Curtis W. Mewbourne 66.66667% OXY USA, INC. 33.33333% <u>After Payout</u>: Curtis W. Mewbourne 33.33334% Anadarko Petroleum 33.33333% OXY USA INC. 33.33333%
9A. Federal "F" #2	NE/4 SE/4 of Section 22 T18S-R32E, Lea County, New Mexico	40.00	NM 9218 HBP	12.50% USA	Anadarko Petroleum Corp. 100.00%	Anne Little 2.5% Sylvia F. Little, Personal Representative of the Estate of Curtis J. Little 2.0% Rae Little, Deceased, No Probate .25% Marjorie A. Little .25%	* Curtis W. Mewbourne 66.66667% OXY USA INC. 33.33333% <u>After Payout</u>: Curtis W. Mewbourne 33.33334% Anadarko Petroleum 33.33333% OXY USA INC. 33.33333%

Unit Tract # and Well Name	Description of Land	Number of Acres	Name or # of Lease	Basic Royalty & Percentage	Lessee of Record	Overriding Royalty and Percentage	Working Interest, Percentage and Designated Operator (*)
9B. Federal "F" #1	NW/4 SW/4 of Section 23 T18S-R32E, Lea County, New Mexico	40.00	NM 9218 HBP	12.50% USA	Anadarko Petroleum Corp. 100.00%	Anne Little 2.5% Sylvia F. Little, Personal Representative of the Estate of Curtis J. Little 2.0% Rae Little, Deceased, No Probate .25% Marjorie A. Little .25%	* Curtis W. Mewbourne 33.33334% Anadarko Petroleum 33.33333% OXY USA INC. 33.33333%
10. Federal Burleson	N/2, NE/4 of Section 26 T18S-R32E, Lea County, New Mexico	80.00	NM 14000 HBP	12.50% USA	O.H. Berry 22.222% Lewis B. Burleson 16.6665% Jack Huff 16.6665% James L. Cole 11.112% Jimmie Cole 11.112% Katherine D. Crews 7.407% Susie Crews 7.407% Courtney C. Johnson 7.407%	Panos Investment Co. 3.34% O.H. & Virginia Berry 1.66665% James J. Cole .8334% James J. Cole, personal representative of estate of Jimmie J. Cole, deceased .8334% Patrick T. Panos .83% Gregory P. Panos .83% Katherine D. Crews .555525% Susie Crews Piaget .555525% Courtenay C. Johnson .555525%	Anadarko Petroleum 91.66676% Jack Huff 4.16662% Mewbourne Oil Company 4.16662%
11. Walker Federal #1	N/2 NW/4 of Section 26 T18S-R32E, Lea County, New Mexico	80.00	NM 40452 HBP	12.50% USA	Lewis B. Burleson 1.30209% O.H. Berry 1.30208% Jack Huff 1.30208% Petro Atlas Corp. 18.75% Cecil J. Rhodes 3.90625% Santa Fe Energy 31.25% F.L. Shogrin 31.25% Daniel C. Walker 10.9375%	Santa Fe Energy 3.75% Frank Shogrin 2.96875% Petro Atlas 2.25% Margaret Beuch 1.3% Heyne Oil & Gas .72656% Thomas Curran .5% Horshoe Operating .47% O.H. Berry .16% Lewis Burleson .16% Jack Huff .16% Charles Heyne .05469%	* Mewbourne Oil Company 59.375% Daniel Walker 21.875% Philip Bishop 6.25% Clarence Stumhoffer 4.6875% Freida Stumhoffer 4.6875% Peggy Taylor for Bernard Taylor 3.125%
12A. Marshall Federal #1	SE/4 SW/4 of Section 23 T18S-R32E, Lea County, New Mexico	40.00	NM 17807 HBP	12.50% USA	Marshall & Winston 100.00%	Marshall & Winston, et al 12.50%	* Mewbourne Oil Company 100.00%

Unit Tract # and Well Name	Description of Land	Number of Acres	Name or # of Lease	Basic Royalty & Percentage	Lessee of Record	Overriding Royalty and Percentage	Working Interest, Percentage and Designated Operator (*)
12B. Marshall Federal #2	SW/4 SW/4 of Section 23 T18S-R32E, Lea County, New Mexico	40.00	NM 17807 HBP	12.50% USA	Marshall & Winston 100.00%	Marshall & Winston 12.50% Mewbourne Oil Company 5.00%	* Mewbourne Oil Company 100.00%
13. Flip Federal #1	SW/4 NW/4 of Section 23 T18S-R32E, Lea County, New Mexico	40.00	NM 25457 HBP	Schedule B USA	Murjo Oil & Royalty Co. 100.00%	None 0.00%	* Clarence Stumhoffer 35.00% Harold Lobley 10.00% Mansur Trust 10.00% Toombs Trust 10.00% Daniel Walker 9.45625% Murjo Oil & Royalty 5.95938% Gene Fulmer 5.00% Ray Fulmer 5.00% Carroll Bellah 2.25% Debra Johnson Head 1.98646% Demar Johnson Hopson 1.98646% Larry Arnold 1.375% F. Kirk Johnson III 1.09255% Ann H. McReynolds .89390%
14. Cavalcade Federal #1 & #4	S/2 SE/4 of Section 21 T18S-R32E, Lea County, New Mexico	80.00	NM 59044	Schedule B USA	Anadarko Petroleum Corp. 100.00%	Gary L. Bennett, et ux 5.15% William R. Crow 1.5% Cavalcade Oil Corp. .725% Michael Levenson .5% Kathleen A. Capps, Trustee of Heather & Nichol Capps .25% Joe K. Smith .25% Michael R. Hyden .125%	* Anadarko Petroleum Corp. 100.00%

Recapitulation:

Total Federal Acres 1520.00 acres or 100.00%
Total Unit Acres 1520.00 acres or 100.00%

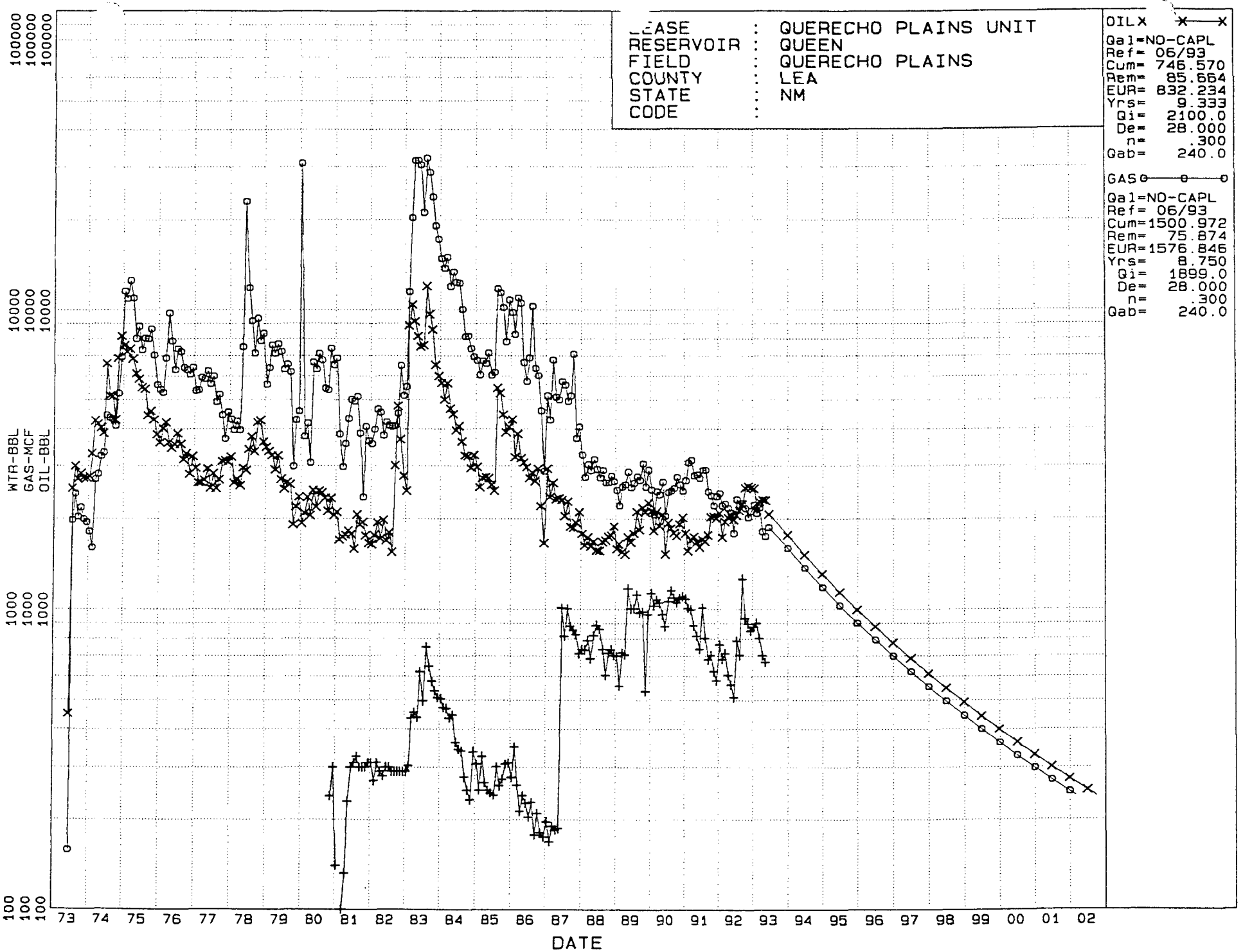
Exhibit 6

Injection Wells

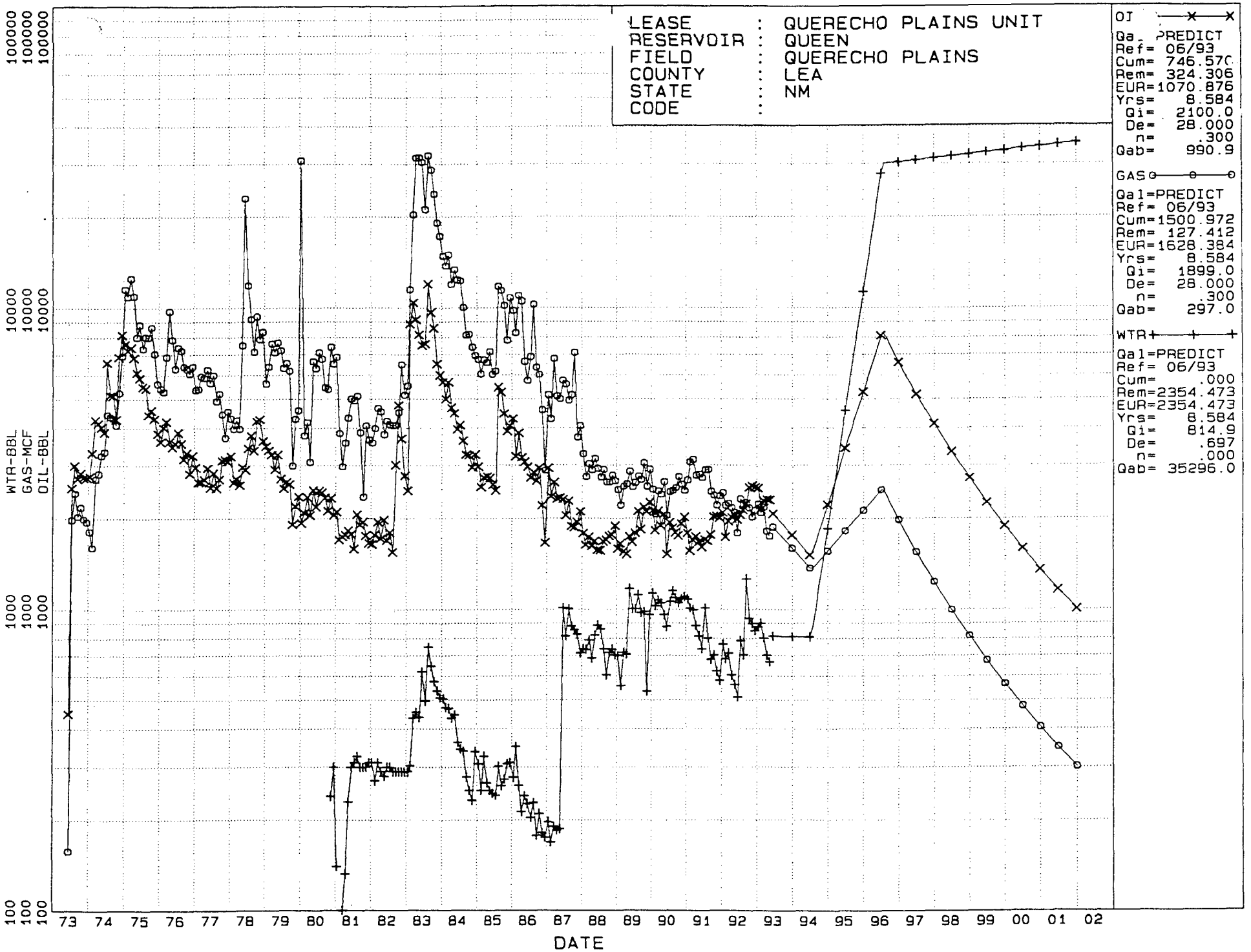
Section 21	Cavalcade Federal No. 4
Section 22	Bennett Federal No. 1
Section 23	Flip Federal No. 1
	Edith Federal No. 2
	Marshall Federal No. 1
Section 26	Walker Federal No. 1
Section 27	Federal E No. 8
	Anadarko Federal No. 2
	Anadarko Federal No. 3
Section 28	Federal E No. 9

Production Wells

Section 21	Cavalcade Federal No. 1
Section 22	Federal F No. 2
	Federal J No. 1
	Bennett Federal Q No. 2
	Bennett Federal Q No. 5
	Bennett Federal Q No. 4
	Bennett Federal Q No. 3
	Federal H No. 1
Section 23	Cedar Lake Federal No. 1
	Government K No. 1
	Federal F No. 1
	Marshall Federal No. 2
Section 27	Federal E No. 7
	Federal E No. 6
	Federal E No. 5
	Federal E No. 3
	Federal E No. 2



APPLICATION - EXHIBIT 7



APPLICATION - EXHIBIT 8