ENERGY AND MINERALS DEPARTM

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

Revised 7-1-81

Case 9053 Dismissed 1-21-87 DC

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: Kenneth M. Calvert Phone: (214) 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.

III. 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: Kenneth M. Calvert Title Engineering Operations Mgr.

Signature: K.M. Calvert Date: October 13, 1986

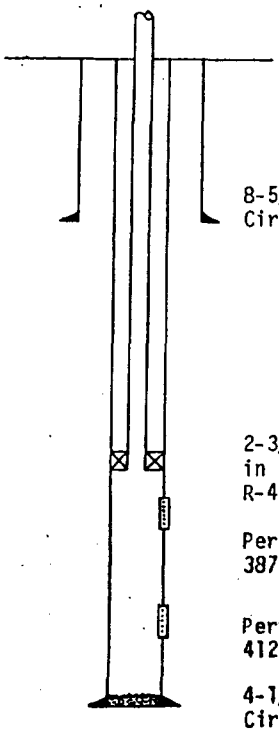
If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. _____

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

INJECTION WELL DATA SHEET

MEWBOURNE OIL COMPANY		FEDERAL "E"		
OPERATOR		LEASE		
9	1980' FNL 330' FEL	28	18 S	32 E
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 CIRCULATED

Hole size 12- 1/4"

Intermediate Casing - none

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 CIRCULATED

Hole size 7-7/8"

Total depth 4290'

Injection interval

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

QUEEN 3875-3906'

PENROSE 4128-4152'

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

HALLIBURTON R-4 (brand and model) packer at 3800 feet

(or describe any other casing-tubing seal).

Other Data

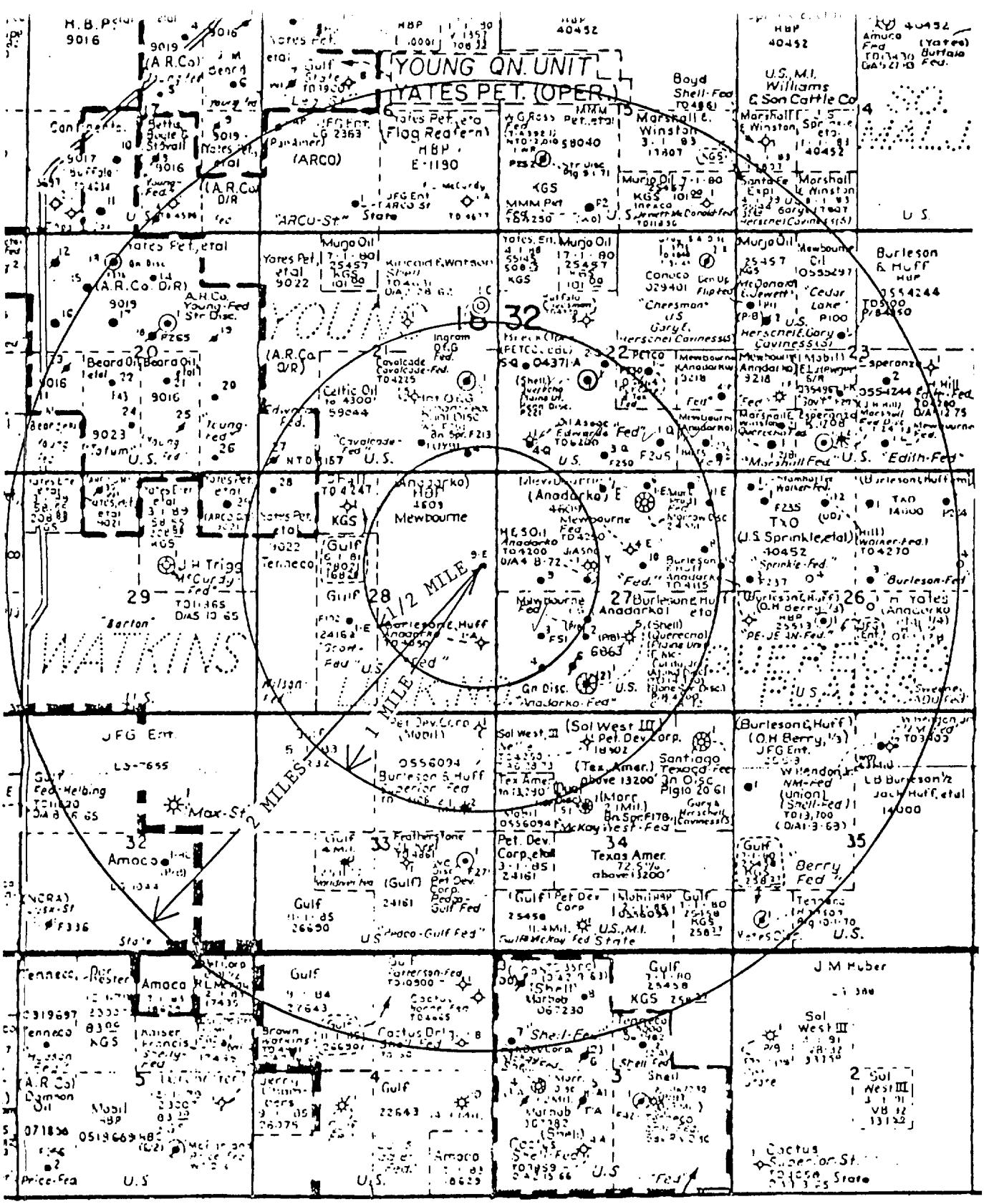
1. Name of the injection formation QUEEN & PENROSE
2. Name of Field or Pool (if applicable) QUERECHO PLAINS QUEEN (ASSOCIATED)
3. Is this a new well drilled for injection? [ ] Yes [X] No

   If no, for what purpose was the well originally drilled? PRODUCING OIL WELL
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)

   NONE
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   OVERLYING - SEVEN RIVERS 3100'

   UNDERLYING - NONE PENETRATED BY THIS WELLBORE. DELAWARE AT 6850' IS NEAREST UNDERLYING



MEWBOURNE OIL COMPANY
QUERECHO PLAINS AREA LEA COUNTY, NEW MEXICO FEDERAL "E" NO. 9 TWO MILE RADIUS MAP Scale: 1"=2,000'

PRODUCING OFFSETS TO FEDERAL "E" NO. 9 WITHIN ONE HALF MILE RADIUS (AREA OF REVIEW)

Operator Lease Well No.	Type	Construction	Date Drilled	Location	Depth	Completion Record
Lewis B. Burleson, Inc. Anadarko Federal 3	Water injection well	Surf csg 10-3/4" @ 717' w/525 sx. Circ. Prod csg 7" @ 3830' w/225 sx. TC @ 2300' est.	09/26/73 SPD	1650'/S 990'/W 27-18S-32E	02/05/74 4060' TD	Lost bit in hole @ 3915' TD. Junked. Cmtd back to 3829'. Side tracked to 4060'. Frac'd (3875'-4015') w/10,000 gal. & 20,000# SD
Lewis B. Burleson, Inc. Anadarko Federal 4	Pumping oil well	Surf csg 8-5/8" @ 316' w/150 sx. "H". Circ. 25 sx. Prod csg 4-1/2" @ 4080' w/400 sx. "C". TC @ 2750'	06/01/74 SPD	990'/S 990'/W 27-18S-32E	07/03/74 4080' TD	Perf'd 3885'-3917'. Aczd w/500 gal Frac'd w/10,000 gal. & 20,000# SD
Mewbourne Oil Co. Federal "E" 2	Pumping oil well	Surf csg 8-5/8" @ 1151' w/400 sx. HLC & 200 sx. "C" Prod csg 4-1/2" @ 4220' w/250 sx. HLC & 200 sx. "C" Circ.	09/19/77 SPD	2310'/N 1980'/W 27-18S-32E	09/27/77 4220' TD	10/05/77 Perf'd (3910'-4041'). 10/06/77 Aczd w/1,000 gal. Frac'd w/40,000 gal. & 65,000# SD
Mewbourne Oil Co. Federal "E" 3	Pumping oil well	Surf csg 8-5/8" @ 1200' w/400 sx. HLC & 200 sx "C" Circ 35 sx. Prod csg 4-1/2" @ 4250' w/200 sx. "H" & 200 sx. "C"	07/09/78 SPD	2310'/N 990'/W 27-18S-32E	07/16/78 4250' TD	07/26/78 Perf'd 3904'-3942'. Aczd w/3,000 gal. Frac'd w/40,000 gal & 55,000# SD 11/01/83 Perf'd 4148'-4178' 11/02/83 Aczd w/3,000 gal. Frac'd w/39,000 gal & 62,500# SD
Mewbourne Oil Co. Federal "G" 1	Pumping oil well	Surf csg 13-3/8" @ 441' w/550 sx. "C". Circ 25 sx. Int csg 8-5/8" @ 4505' w/1200 sx. HLC & 300 sx. sx. "C". Circ. 30 sx. Prod csg 5-1/2" @ 13,061' DV @ 12,290'. 1st stage - 280 sx. "H". 2nd stage - 1015 sx. HLC CBLITC 6,320'.	06/23/78 SPD	1980'/S 1980'/W 27-18S-32E	08/23/78 13,061' TD	09/16/78 Perf'd 12,710'-719' 12,808'-12'; 12,814 09/20/78 Perf'd 12,693'-695'. 12,779'-782', 12,784', 12,785'. 09/21/78 Aczd w/6,000 gal 10/07/78 Frac'd w/15,960 gal, 9,000# SD & 5,000# Superprop. 04/11/80 Perf'd 9910'-44', 9958'-78'. 04/16/80 Cmt rtnr @ 9950'. 04/19/80 BP @ 9850' w/10 sx. cmt. Perf'd 9750'-78'. 10/11/81 Perf'd 8862'-82', 8902'-

PRODUCING OFFSETS TO FEDERAL "E" NO. 9 WITHIN ONE-HALF MILE RADIUS (AREA OF REVIEW)

Operator / Lease Well No.	Type	Construction	Date Drilled	Location	Depth	COMPLETION RECORD
Mewbourne Oil Company Federal "G" 1		13⅜ @ 441 550 sx Class C 8⅝ 4505. 1200 sx + 300 sx - Circ 5½ 13,061. 200 sx + 1115 sx - CIBP - 9700 - 50' Cement - 5830 + 15' Salt cement 8506 - 8520 - Perf - Queen Bone Springs				24' CIBP @ 9700'. 10/14/81 Aczd w/5,000 gal. 12/01/83 Frac'd w/13,000 gal. & 24,000# SD 12/02/83 Aczd w/1,500 gal. Frac'd w/42,000 gal & 74,000# SD 01/27/84 CIBP @ 8800' w/15' cmt. Perft'd 8506'-20', 8523-38'. 01/28/84 Aczd w/5,000 gal 01/29/84 Aczd w/5,000 gal 02/15/84 Frac'd w/40,000 gal. & 82,000# SD
Celtic Oil Corporation Cavalcade 21 Federal 4	Flowing Oil Well	Surf csg 8-5/8" @ 420' w/250 sx "C". Circ. 15 sx. Prod csg 4-1/2" @ 4220' w/860 sx HLC & 300 sx 50/50 Poz "C". TSITC @ 1480'. Bradenhead sqzd w/265 sx HLC.	10/04/85 Spd	400'/S 660'/E 21-18S-32E	10/12/85 4225' TD	Perf'd 4096'-4102' & 4108'-4130'. Aczd w/3000 gal.

PLUGGED OFFSETS TO FEDERAL "E" NO. 9 WITHIN ONE HALF MILE RADIUS (AREA OF REVIEW)

Operator Lease Well No.	Type	Construction	Date Drilled	Location	Depth	Completion Record
Burleson & Huff Anadarko Federal 1-A	Dry hole. P&A	Surf csg 8-5/8" @ 334' w/225 sx "C". Circ 20 sx Prod csg 4-1/2" @ 4045' w/450 sx	02/10/75 SPD	1650'/S 330'/E 28-18S-32E	02/22/75 4050' TD	Perf'd M. Queen (4003'-4017'). Aczd w/1000 gal. Frac'd w/7600 gal. & 15,200# SD. BP @ 3950' w/2 sx cmt. Perf'd 3985'-3997'. Aczd w/1000 gal. Frac'd w/10,000 gal. & 19,500# SD. P&A 09/16/75: 25 sk cmt plg @ 3615'-3965'. 25 sk cmt plg @ salt base, 2550'-2800'. Pld 2290.06' 4-1/2" csg. 35 sk cmt plg @ 2290' 35 sk cmt plg @ salt top, 1140'-1240'. 35 sk surf csg shoe plg, 234'-334'. 10 sk cmt plg @ surf w/marker. Mud placed btw plgs.
H & S Anadarko 1	Junked. P&A	Surf csg 8-5/8" @ 450' w/200 sx	03/28/72 SPD	1980'/N 1980'/W 27-18S-32E	03/29/72 550' TD	Lost bit in hole, Junked & Abnd.: 150' cmt plg @ 500'. 25 sk surf plg.
H & S Anadarko 1-Y	Dry Hole. P&A	Surf csg 8-5/8" @ 550' w/400 sx. Circ.	03/30/72 SPD	1980'/N 1995'/W 27-18S-32E	04/08/72 4200' TD	P&A 04/09/72: 100' cmt plg @ TD. 100' cmt plg @ salt base. 100' cmt plug @ surf csg shoe, 550'. 25 sk cmt plg @ surf w/marker.

PLUGGED OFFSETS TO FEDERAL "E" NO. 9
AREA OF REVIEW

WELL NAME: H&S
ANADARKO NO. 1-Y

LOCATION: 1980'/N 1995'/W
27-18S-32E

SPUD DATE: 03/30/72

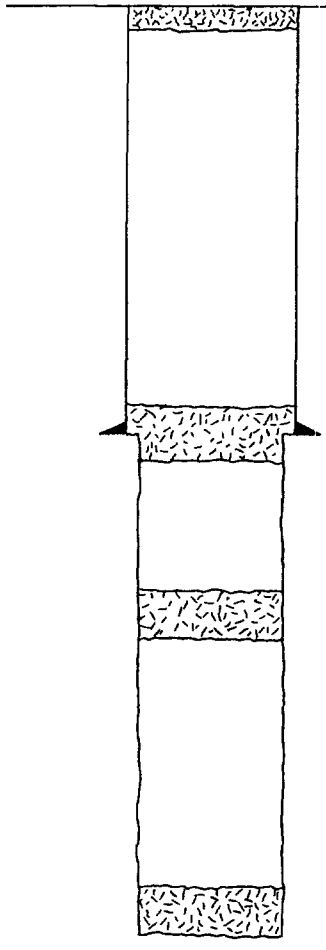
TOTAL DEPTH: 4200'

WELL TYPE: DRY HOLE

CASING: 8-5/8" @ 550' w/400 sx.
Circ.

COMPLETION: N/A

PLUGGING: 04/09/72
100' cmt plg @ TD
100' cmt plg @ salt base
100' cmt plg @ surf csg shoe, 550'
25 sk cmt plg @ surf w/marker



PLUGGED OFFSETS TO FEDERAL "E" NO. 9
AREA OF REVIEW

WELL NAME: H&S
ANADARKO NO. 1

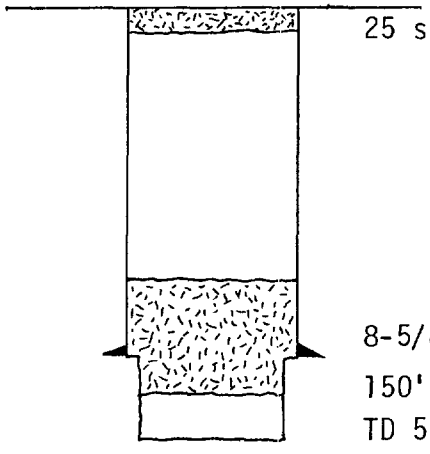
LOCATION: 1980'/N 1980'/W
27-18S-32E

SPUD DATE: 03/28/72

TOTAL DEPTH: 550'

WELL TYPE: JUNKED

CASING: 8-5/8" @ 450' w/200 sx



COMPLETION: N/A

PLUGGING: 03/29/72
Lost bit in hole. Junked.
150' cmt plg @ 500'
25 sk cmt surf plg

PLUGGED OFFSETS TO FEDERAL "E" NO. 9
AREA OF REVIEW

WELL NAME: BURLESON & HUFF
ANADARKO FEDERAL "A" NO. 1

LOCATION: 1650'/S 330'/E
28-18S-32E

SPUD DATE: 02/10/75

TOTAL DEPTH: 4050'

WELL TYPE: DRY HOLE

CASING: 8-5/8" @ 334' w/225 sx "C".
Circ 20 sx.

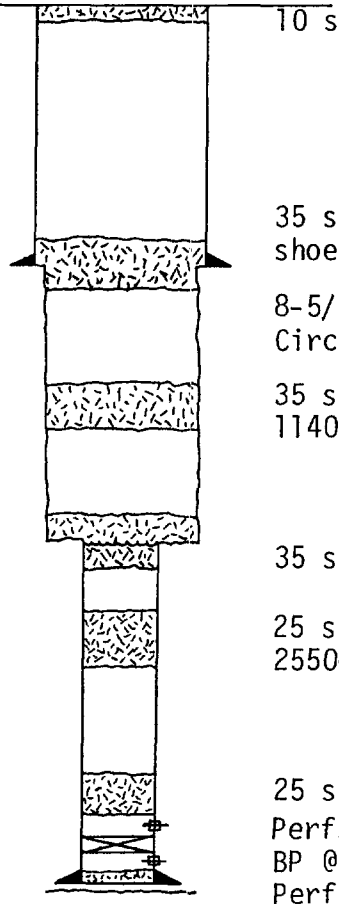
4-1/2" @ 4045' w/450 sx.

COMPLETION: Perf'd 4003-4017'. Aczd
w/1000 gal. Frac'd w/7600 gal
& 15,200# sd.

BP @ 3950' w/2 sx cmt.

Perf'd 3985-3997'. Aczd
w/1000 gal. Frac'd w/10,000 gal
& 19,500# sd.

PLUGGING: 09/16/75
25 sk cmt plg @ 3615-3965'
25 sk cmt plg @ salt base, 2550-2800'
Pld 2290' 4-1/2" csg
35 sk cmt stub plg @ 2290'
35 sk cmt plg @ salt top, 1140-1240'
35 sk cmt surf csg shoe plg @ 234-334'
10 sk cmt plg @ surf w/marker



10 sk cmt surf plg

35 sk cmt plg @ surf csg
shoe, 234-334'

8-5/8" @ 334' w/225 sx "C"
Circ 20 sx.

35 sk cmt plg @ salt top,
1140-1240'

35 sk cmt stub plg @ 2290'

25 sk cmt plg @ salt base,
2550-2800'

25 sk cmt plg @ 3615-3965'
Perfs: 3985-3997'
BP @ 3950' w/2 sx cmt
Perfs: 4003-4017'
4-1/2" @ 4045' w/450 sx
TD 4050'

MEWBOURNE OIL COMPANY
APPLICATION FOR AUTHORIZATION TO INJECT
FEDERAL "E" NO. 9
LEA COUNTY, NEW MEXICO

VII. Data on Proposed Operation.

1. Proposed average and maximum daily rate and volume of fluids to be injected:

   A. Average Daily Injection Rate - 200 BPD

   B. Maximum Daily Injection Rate - 300 BPD

2. The system is open.

3. Proposed average and maximum injection pressure:

   A. Average Injection Pressure - 1800 PSIG

   B. Maximum Injection Pressure - 2500 PSIG

4. Sources and an approprate analysis of injection fluid.

   Injected water will be composed of produced waters from the Queen-Penrose and Upper Bone Spring (8400-8600') formations in the approximate ratio of 2:3. Analysis of each water is included.

Fresh Wate

Dickey
Analytical Laboratory

1308 S. Midkiff, Ste. 107
Midland, Texas 79703
915-687-2253

MEWBOURNE OIL COMPANY
FEDERAL E-9
DL-2298

SEPTEMBER 4, 1986
LEA COUNTY, NEW MEXICO
PENROSE-QUEEN FORMATION
SUBMITTED BY: CECHEM CHEMICALS

DISSOLVED SOLIDS		
CATIONS	MG/L	ME/L
SODIUM, Na (calc.)	74270	3229
CALCIUM, Ca	10827	540
MAGNESIUM, Mg	8991	739
ANIONS		
CHLORIDE, Cl	158330	4465
SULFATE, SO4	2000	42
CARBONATE, CO3	0	0
BICARBONATE, HCO3	146	2

TOTAL DISSOLVED SOLIDS (calc.) 254,565

IRON, Fe (total) 7
SULFIDE, as H2S none detected

OTHER PROPERTIES

pH 7.3
SPECIFIC GRAVITY, 60/60 F. 1.173
RESISTIVITY (ohm-meters) 78 F. .04
HARDNESS, mg/L CACO3 64060

REMARKS:

The Stiff-Davis equation indicates that the water has a Stability Index of 2.2 at 100 F. A positive index indicates a tendency toward calcium carbonate deposition.

The calculated solubility of calcium sulfate in this water is 19 me/L at 100 F. Analysis indicates the water contains 42 me/L, therefore calcium sulfate deposition is indicated.

R.S. DICKEY

Dickey
Analytical Laboratory

1308 S. Midkiff, Ste. 107
Midland, Texas 79703
915-687-2253

MEWBOURNE OIL COMPANY
FEDERAL E-12
LEA COUNTY, NEW MEXICO
DL-2151

JULY 25, 1986
BONE SPRINGS FORMATION
GUARACHO FIELD
SUBMITTED BY: CECHEM CHEMICALS

DISSOLVED SOLIDS

CATIONS	MG/L	ME/L
SODIUM, Na (calc.)	62268	2707
CALCIUM, Ca	2607	130
MAGNESIUM, Mg	1215	100

ANIONS		
CHLORIDE, Cl	102240	2883
SULFATE, SO4	2160	45
CARBONATE, CO3	0	0
BICARBONATE, HCO3	561	9

TOTAL DISSOLVED SOLIDS (calc.) 171051

IRON, Fe (total) 21
SULFIDE, as H2S NONE DETECTED

OTHER PROPERTIES

pH 7.8
SPECIFIC GRAVITY, 60/60 F. 1.116
RESISTIVITY (ohm-meters) 80 F. .06
HARDNESS, mg/L CACO3 11512

REMARKS:

The Stiff-Davis equation indicates that the water has a Stability Index of 1.6 at 80 F. A positive index indicates a tendency toward calcium carbonate deposition.

The calculated solubility of calcium sulfate in this water is 77 me/L at 80 F. Analysis indicates the water contains 45 me/L, therefore calcium sulfate deposition is not indicated.

R.S. DICKEY

MEWBOURNE OIL COMPANY
APPLICATION FOR AUTHORIZATION TO INJECT
FEDERAL "E" NO. 9
LEA COUNTY, NEW MEXICO

VIII. Geologic Data

Lithology - Permian, Guadalupian

Queen (3870'-3894')

Sandstone: Red, translucent to transparent, very fine to medium grained, consolicated and unconsolidated, friable, well rounded.

Queen (3894'-3905')

Sandstone: Gray, clear, very fine grained consolidated and unconsolidated, friable.

Penrose (4120'-4152')

Sandstone: Clear, frosted, gray, very fine grained, consolidated and unconsolidated, siliceous matrix; some frosted medium grains, unconsolidated, well rounded.

Penrose (4202'-4208')

Sandstone: Clear, consolidated, very fine grained, friable.

Fresh water aquifers (above 300') Triassic.

IX. Stimulation Program:

A non-emulsifying, iron sequestering acid will be used when necessary to maintain injectivity. Perforation density will be increased as dictated by injection pressures.

X. Logs on file with OCD.

XI. No producing fresh water wells within one mile. None in Section 27 Some in Sect 20, 28, 34, 7

XII. Available Geological and Engineering Data have been examined and no evidence of open faults or any other hydrologic connection between the Disposal Zone and any underground sources of Drinking Water have been found.

Attached DeC

MEWBOURNE OIL COMPANY

APPLICATION FOR AUTHORIZATION TO INJECT

FEDERAL "E" NO. 9

LEA COUNTY, NEW MEXICO

CERTIFICATE OF SERVICE

I, Kenneth M. Calvert, Engineering Operations Manager, Mewbourne Oil Company, Operator of the Federal "E" No. 9, have on this 14th day of October, 1986, mailed or caused to be mailed, postage prepaid a copy of the Application For Authorization to Inject to the following persons at the address shown:

LAND OWNER

Bureau of Land Management
P. O. Box 1397
Roswell, New Mexico 88220

OFFSET OPERATORS

Lewis B. Burleson, Inc.
P. O. Box 2479
Midland, Texas 79702

Celtic Oil Corporation
P. O. Box 12550
Odessa, Texas 79768

K. M. Calvert

Kenneth M. Calvert
Engineering Operations Manager

Subscribed in my presence and duly sworn to before me this 14th day of October, 1986.

Notary Public in and for Smith County, Texas

My Commission Expires:

04/30/89

Affidavit of Publication

STATE OF NEW MEXICO)

) ss.

COUNTY OF LEA)

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

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

and numbered ..... in the ..... Court of Lea County, New Mexico, was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, once each week on the same day of the week, for one (1) consecutive weeks, beginning with the issue of October 24, 1986 and ending with the issue of ....., 19.....

And that the cost of publishing said notice is the sum of $8.84 which sum has been (Paid) (~~Assessed~~) as Court Costs

Joyce Clemens

Subscribed and sworn to before me this 27th day of October, 1986

Mrs Jean Reaves

Notary Public, Lea County, New Mexico

My Commission Expires Sept. 28, 1990

SOUTH

LEGAL NOTICE
NOTICE OF APPLICATION FOR FLUID INJECTION WELL PERMIT

NEWBOURNE OIL COMPANY
P.O. BOX 7698
TYLER, TEXAS 75711

has applied to the United States Department of the Interior, Bureau of Land Management, State of New Mexico, for a permit to inject fluid into a formation that is productive of oil or gas. The application proposes to inject fluid in the Queen and Penrose formations in the Federal "E" No. 9. The proposed injection well is located 11½ miles ~~North~~ of Maljamar, New Mexico in the Querecho Plains-Queen (Associated) Field, Lea County, New Mexico. Fluid will be injected into strata in the subsurface depth interval from 3875 feet to 4152 feet.

Request for a public hearing from persons who can show they are adversely affected, or request for further information concerning any aspect of the application should be submitted in writing, within 15 days of publication, to the United States Department of the Interior, Bureau of Land Management, P.O. Box 1778, Carlsbad, New Mexico 88220, Telephone (505)887-6544.

Published in the Lovington Daily Leader October 24, 1986.

TABLE 22.--WATER LEVELS IN THE TATUM-LOVINGTON-HOBBS AREA, LEA AND CHAVES COUNTIES, N. MEX., IN WINTER 1981, CHANGE FROM WINTER 1976 TO WINTER 1981, IN FEET, AND HIGHEST AND LOWEST RECORDED WINTER WATER LEVEL, IN FEET, REFERENCED TO LAND SURFACE DATUM.

LOCATION	OWNER NAME	SOURCE	81 WATER LEVEL	DATE	CHANGE	HIGH	YR	LOW	YR	YEARS OF RECORD
17S 38E 35 143	EMMA C. LAWRENCE	OGLL	-69.34	2-19	-7.91	-42.19	61	-69.34	81	61,66,71,76,81
17S 38E 35 222	TOM MILLER	OGLL	-52.37	2-19	-	-52.37	81	-52.37	81	81
17S 38E 35 423	M.K. CHAMBLESS	OGLL	-79.44	2-19	-9.07	-70.37	76	-79.44	81	76,81
17S 38E 36 212	EMMA LAWRENCE	OGLL	-73.39	1-06	-	-59.60	50	-73.39	81	50-81
17S 39E 17 111	WAYNE WAGNON	OGLL	-87.85	2-17	-	-87.85	81	-87.85	81	81
17S 39E 17 443	WAYNE WAGNON	OGLL	-107.62	2-17	-	-107.62	81	-107.62	81	81
17S 39E 18 133	C. F. BROOKS	OGLL	-89.08	2-17	-6.87	-71.25	61	-89.08	81	61,71,76,81
17S 39E 18 321	C. F. BROOKS	OGLL	-86.44	2-17	-	-86.44	81	-86.44	81	81
17S 39E 20 432	UNKNOWN	OGLL	-104.05	2-18	-	-104.05	81	-104.05	81	81
17S 39E 29 414	UNKNOWN	OGLL	-105.91	2-18	-	-105.91	81	-105.91	81	81
17S 39E 30 232	EMMA LAWRENCE	OGLL	-86.98	1-06	-	-80.79	80	-86.98	81	80-81
17S 39E 30 414	EMMA LAWRENCE	OGLL	-79.74	2-18	-	-79.74	81	-79.74	81	81
17S 39E 31 243	RONALD PARKER	OGLL	-70.45	2-18	-7.08	-58.10	61	-70.45	81	61,66,71,76,81
17S 39E 32 413	E. M. LAWRENCE	OGLL	-91.23	2-19	-6.80	-76.76	61	-91.23	81	61,66,71,76,81
18S 32E 07 442	LINAM RANCH	ALVM	-82.19	3-12	-	-82.19	81	-82.19	81	76,81
18S 32E 20 144	NEWMONT OIL CO.	CHNL	-168.27	3-12	-	-168.27	81	-179.35	71	68,71,76,81
18S 32E 22 323	PET. CORP. OF TEXAS	SNRS	-429.24	3-12	-	-429.24	81	-434.41	71	68,71,76,81
18S 32E 34 222	UNKNOWN	CHNL	-117.28	3-12	-	-117.28	81	-117.46	68	65,68,71,76,81
18S 33E 10 232	GEORGE WILLIAMS	ALVM	-57.04	2-20	+0.82	-57.04	81	-57.86	76	65,68,76,81
18S 33E 11 443	GEORGE WILLIAMS	ALVM	-43.57	2-20	-0.58	-42.40	71	-43.57	81	66,71,76,81
18S 33E 12 442	SCHARBAUER CATTLE CO.	OGLL	-138.91	2-20	-1.25	-137.22	61	-138.91	81	61,66,71,76,81
18S 33E 13 442	CARPER DRG. CO.	ALVM	-46.88	2-20	-0.33	-46.55	76	-47.22	66	61,66,71,76,81
18S 33E 14 111	GEORGE WILLIAMS	ALVM	-37.98	2-20	-1.57	-35.20	71	-37.98	81	54,61,65-66,68,71,76,81
18S 33E 23 231	MARCIE T. KEOHANE	ALVM	-47.63	2-20	-1.32	-45.65	71	-47.63	81	65,68,71,76,81
18S 34E 01 122	TEXACO	OGLL	-105.86	3-11	-11.94	-79.69	61	-105.86	81	61,76,81
18S 34E 02 213	KERMAC POTASH	OGLL	-130.37	3-11	-	-130.37	81	-130.37	81	77,81
18S 34E 04 111	MESA RETAILERS INC.	OGLL	-137.31	3-12	-5.58	-121.42	61	-137.31	81	61,66,71,76,81
18S 34E 08 231	SCHARBAUER CATTLE CO.	OGLL	-111.29	3-12	-2.32	-107.59	71	-111.29	81	71,76,81
18S 34E 11 344	NATIONAL POTASH CO.	OGLL	-115.93C	3-12	-	-	-	-	-	81
18S 34E 12 122	SCHARBAUER CATTLE CO.	OGLL	-99.78	3-11	-4.74	-95.04	76	-99.78	81	76,81
18S 34E 15 241	SCHARBAUER CATTLE CO.	OGLL	-108.75	3-12	+0.42	-108.75	81	-109.17	76	61,71,76,81
18S 34E 18 411	OHIO OIL CO.	OGLL	-146.16	2-20	+0.01	-143.30	71	-146.17	76	66,68,71,76,81
18S 34E 20 323	SCHARBAUER CATTLE CO.	ALVM	-96.30	2-20	+2.73	-96.30	81	-101.39	66	61,66,71,76,81
18S 34E 22 334	CONOCO	OGLL	-110.92	1-06	-0.93	-109.22	67	-110.92	81	61,65-77,79-81
18S 34E 27 333	SCHARBAUER CATTLE CO.	OGLL	-110.10	2-20	+0.52	-110.10	81	-110.62	76	61,66,71,76,81
18S 34E 29 112	UNKNOWN	ALVM	-57.06	2-20	+0.41	-57.06	81	-61.93	68	68,71,76,81
18S 34E 30 211	IMEX COMPANY	ALVM	-43.24	2-20	+0.25	-43.24	81	-44.79	66	61,66,71,76,81
18S 35E 01 121	R. D. LEE	OGLL	-46.57	3-05	-4.22	-41.39	71	-46.57	81	71,76,81
18S 35E 02 142	R. D. LEE	OGLL	-43.80	3-11	-3.09	-37.42	61	-43.80	81	61,66,71,76-77,81
18S 35E 03 412	R. D. LEE	OGLL	-51.92	3-11	-2.88	-45.66	61	-51.92	81	61,66,71,76,81
18S 35E 04 431	UNKNOWN	OGLL	-56.77	3-10	+4.51	-56.77	81	-61.28	76	66,71,76,81
18S 35E 06 233	VIOLA LEE	OGLL	-92.14	3-11	-8.82	-83.32	76	-92.14	81	73,76,81
18S 35E 06 344	A. W. THOMPSON, INC.	OGLL	-91.00	3-06	-	-91.00	81	-91.00	81	77,81
18S 35E 07 313	MOBIL OIL CO.	OGLL	-93.28	3-06	+2.40	-93.28	81	-98.16	71	71,76,81
18S 35E 07 423	NATIONAL POTASH CO.	OGLL	-87.70	3-06	-0.53	-82.17	76	-89.70	81	76,81
18S 35E 10 223	MANAGAN OIL CO.	OGLL	-53.02	3-11	-4.07	-47.31	66	-53.02	81	66,71,76,81
18S 35E 11 331	R. D. LEE	OGLL	-52.01	3-11	-	-52.01	81	-52.01	81	81
18S 35E 11 333	R.D. LEE	OGLL	-44.67	3-11	-7.19	-37.48	76	-44.67	81	61,66,71,76,81
18S 35E 16 122	SCHARBAUER CATTLE CO.	OGLL	-76.66	3-11	-13.24	-63.42	76	-76.66	81	71,76,81
18S 35E 17 411	N. MEX. ELECTRIC SERV.	OGLL	-75.94	1-06	-1.37	-69.46	56	-75.94	81	53-81
18S 35E 19 133	SCHARBAUER CATTLE CO.	OGLL	-70.46	3-10	-1.18	-69.28	76	-70.46	81	61,66,71,76,81
18S 35E 20 214	N. MEX. ELECTRIC SERV.	OGLL	-75.12	1-06	-1.44	-72.16	61	-75.12	81	53-58,60-77,81
18S 35E 20 411	N. MEX. ELECTRIC SERV.	OGLL	-77.90	3-13	-1.05	-75.70	56	-77.90	81	53-58,60-62,67,71,76,81
18S 35E 21 440	MISS. CHEMICAL CORP.	OGLL	-76.68D	3-06	-	-64.38	71	-64.76	61	61,66,71,81
18S 35E 22 430	MISS. CHEMICAL CORP.	OGLL	-57.42	3-13	-	-57.42	81	-57.42	81	81
18S 35E 28 322	SCARBAUER CATTLE CO.	OGLL	-50.65	3-06	-1.38	-49.27	76	-52.02	61	61,66,71,76,81
18S 35E 31 142	SNYDER CATTLE CO.	OGLL	-69.21	3-10	+1.06	-69.21	81	-70.27	76	71,76,81
18S 35E 34 431	SNYDER RANCHES	OGLL	-26.41	3-06	-1.39	-25.02	76	-26.41	81	76,81
18S 36E 01 131	DOROTHY T. SCHARBAUER	OGLL	-33.47	3-05	-2.74	-30.73	76	-33.47	81	61,66,71,76,81
18S 36E 03 241	DOROTHY SCHARBAUER	OGLL	-51.93	3-05	-3.36	-46.16	71	-51.93	81	61,66,71,76,81
18S 36E 04 411	SNYDER RANCH	OGLL	-54.89	3-04	-	-54.89	81	-54.89	81	81
18S 36E 05 411	S. W. P. S. C.	OGLL	-58.56	3-03	-0.83	-49.49	66	-58.56	81	61,66,71,76,81
18S 36E 06 322	S. W. P. S. C.	OGLL	-57.36	3-03	-0.63	-46.39	66	-57.36	81	61,66,71,76,81
18S 36E 07 322	S. W. P. S. C.	OGLL	-55.74	3-03	-1.18	-50.50	66	-55.74	81	61,66,71,76,81
18S 36E 08 144	S. W. P. S. C.	OGLL	-54.52	3-05	-2.83	-45.67	66	-54.52	81	61,66,71,76,81
18S 36E 09 411	S. W. P. S. C.	OGLL	-50.69	3-03	-2.70	-40.39	66	-50.69	81	61,66,71,76,81
18S 36E 10 411	S. W. P. S. C.	OGLL	-48.67	3-03	-1.86	-37.43	66	-48.67	81	61,66,71,76,81
18S 36E 11 144	S. W. P. S. C.	OGLL	-56.25	3-03	-0.80	-45.28	61	-56.25	81	61,66,71,76,81
18S 36E 12 233	JOHN P. JOYCE	OGLL	-37.97	3-05	-3.23	-30.02	61	-37.97	81	61,66,71,76,81
18S 36E 12 311	S. W. P. S. C.	OGLL	-43.18	3-03	-3.00	-39.92	71	-43.18	81	61,66,71,76,81
18S 36E 13 144	S. W. P. S. C.	OGLL	-31.36	3-04	-2.95	-25.62	71	-31.36	81	71,76,81
18S 36E 14 144	S. W. P. S. C.	OGLL	-49.10	3-04	-4.41	-32.69	61	-49.10	81	61,66,71,76,81
18S 36E 15 144	S. W. P. S. C.	OGLL	-54.29	3-04	-2.55	-45.93	66	-54.29	81	61,66,71,76,81
18S 36E 15 433	UNKNOWN	OGLL	-46.29	3-04	-	-46.29	81	-46.29	81	81
18S 36E 16 411	S. W. P. S. C.	OGLL	-52.53	3-05	-1.54	-43.51	66	-52.53	81	61,66,71,76,81
18S 36E 17 322	S. W. P. S. C.	OGLL	-49.83	3-05	-4.84	-39.86	66	-49.83	81	61,66,71,76,81
18S 36E 18 144	S. W. P. S. C.	OGLL	-55.10	3-04	-5.66	-39.52	61	-55.30	81	61,66,71,76,81
18S 36E 19 322	S. W. P. S. C.	OGLL	-58.12	3-05	-8.53	-48.70	66	-58.12	81	61,66,71,76,81
18S 36E 20 411	S. W. P. S. C.	OGLL	-51.05	3-04	+2.25	-44.28	66	-53.30	76	61,66,71,76,81
18S 36E 21 411	S. W. P. S. C.	OGLL	-50.13	3-04	-0.38	-44.08	66	-50.13	81	61,66,71,76,81

C nearby well being pumped
D nearby well pumped recently