

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? Yes No
- II. OPERATOR: PENROC OIL CORPORATION
ADDRESS: P.O. Box 5970, HOBBS, NM 88241-5970
CONTACT PARTY: M. Y. (MERCH) MERCHANT PHONE: (505) 397-3596
- III. WELL DATA: Complete the data required on the reverse side of this form for each well processed 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:
- Proposed average and maximum daily rate and volume of fluids to be injected;
 - Whether the system is open or closed;
 - Proposed average and maximum injection pressure;
 - Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 - 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 sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: M. Y. (MERCH) MERCHANT TITLE: PRESIDENT
SIGNATURE: *M. Y. Merchant* DATE: 4/26/96
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal. _____

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

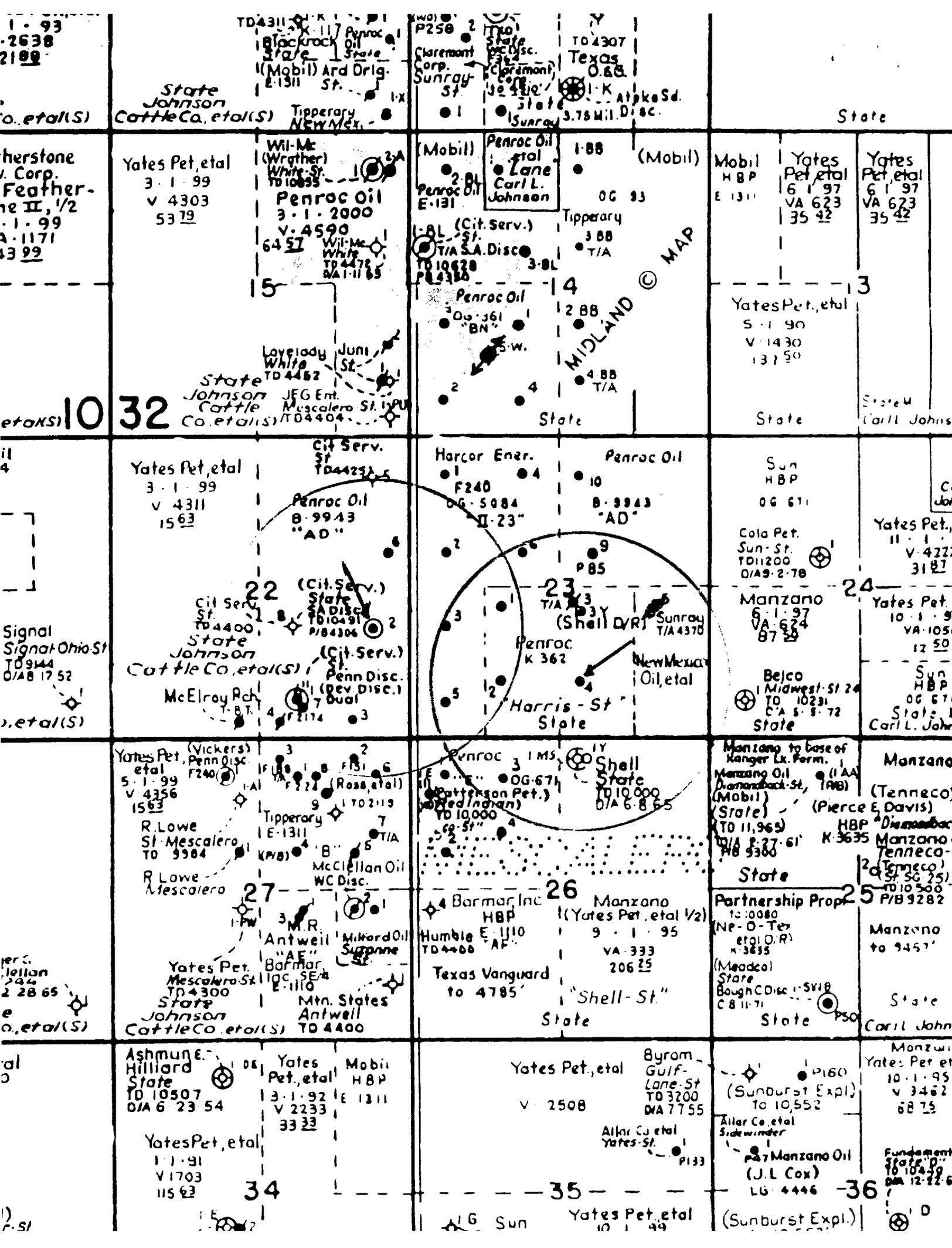
All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, PO Box 2088, Santa Fe, NM 87504-2088 within 15 days.

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

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



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Penroc Oil
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Penroc Oil
3-06-361
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Yates Pet,
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Barmar, Inc
HBP
Humble E-1110
TO 4400 "AF"
Texas Vanguard
to 4785
Manzano
(Yates Pet, etal 1/2)
9-1-95
VA 333
206 25
"Shell-St."
State

Manzano to base of
Kanger Lk. Form.
Manzano Oil
Diamondback-St.
(Mobil)
(State)
(TO 11,969)
VA 2-27-61
H 9360
State
Partnership Prop
10-10-80
(NE-O-Ter
etal D.R.)
K-3635
(Meade)
State
Bough Disc
C 8-11-71
State
P50
Carl L. John

Manzano
(Tenneco)
(Pierce E. Davis)
HBP
Diamondback
Manzano
Tenneco-
TO 10,560
P/B 9282
Manzano
to 9457
State
Carl L. John

Ashmun E.
Hilliard
State
TO 10507
0/A 6-23-54
Yates Pet, etal
1-1-91
V 1703
115 63
34

FORM C-108 (ATTACHMENTS)

III. A. WELL DATA: (NARRATIVE)

1. State AD Well No. 2

13 3/8" @ 376' w/350 sxs.
8 5/8" @ 3540' w/2000 sxs.
5 1/2" @ 8630' w/600 sxs.
Squeezed Penn Perfs: 8440 - 8450'
C.I.B.P. @ 4306' w/5 sxs. cement on top
TOC 3155' by TS
San Andres Perfs: 4063, 88'; 4140-62'; 4180-4200'

Harris State No. 4

Drilled 1965

8 5/8", 24# & 32# @ 394' w/250 sxs.
4 1/2", 9.5# @ 4393' w/200 sxs. TOC by TS 3650'
Perfs: 4176 - 93, 4203, 15, 31, 34, 44, 48, 53 & 60
(ISPF)

Acid w/5000 gal.

May 1970, Frac'd w/38, 500 gal. SW & 29,000# sd.

B. WELL DATA:

1. Mescalero San Andres

2. 4063' - 4200' for AD No. 2 and 4176' - 4193' and
4203' - 4260' for Harris #4.

3. Both wells were drilled as producer and are
marginal producers now. (< 1BOPD)

4. None

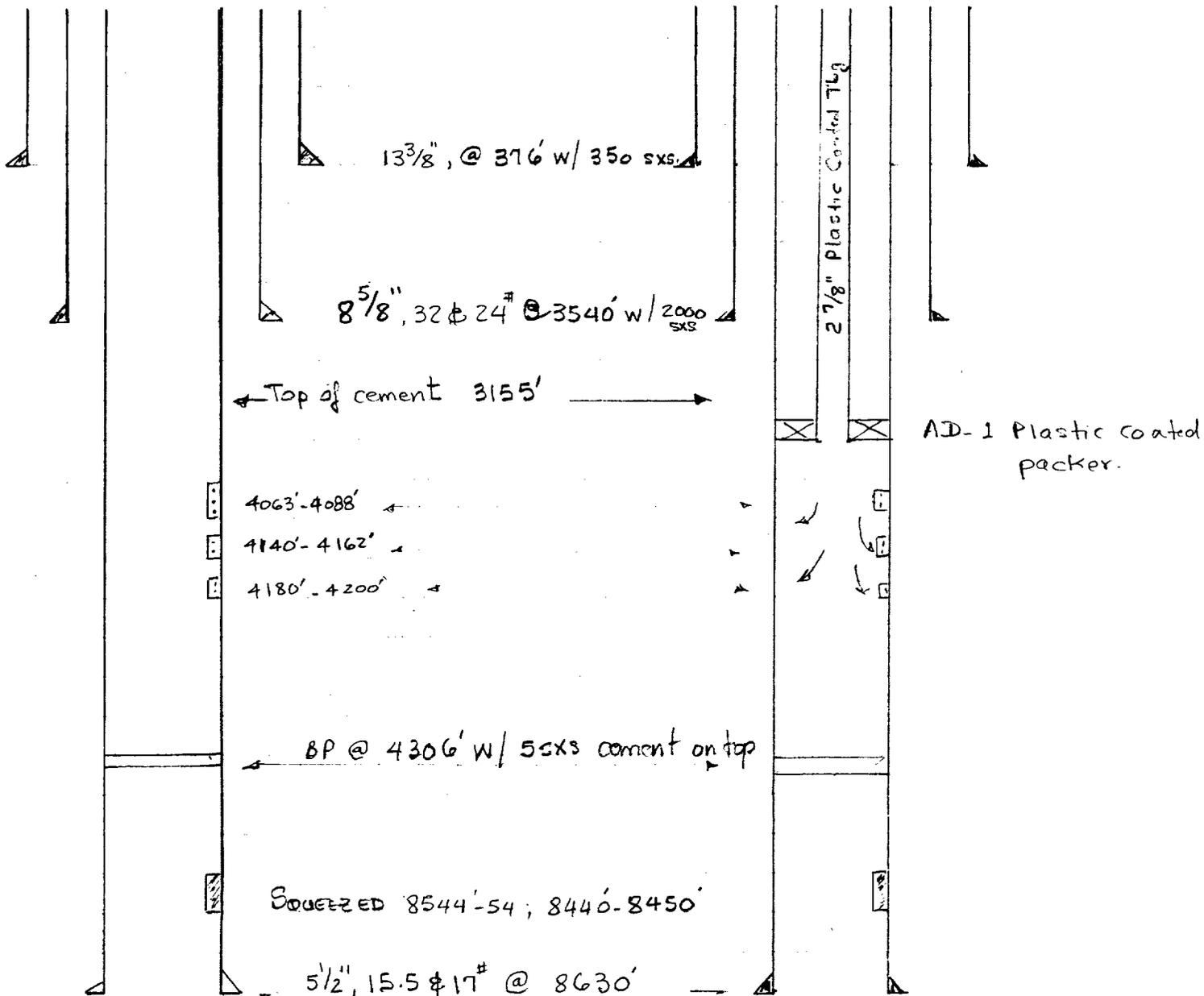
5. There are no oil and gas productive zones above the
presently open zone. The lower zones are
Pennsylvanian and Devonian, in some parts of the
field - approximately below 8300 feet.

FORM C-108 III A

STATE AD WELL NO. 2
NE 1/4 SE 1/4, Sec. 22, T. 16 S, R. 32 E
LEA COUNTY, NEW MEXICO

CURRENT

PROPOSED

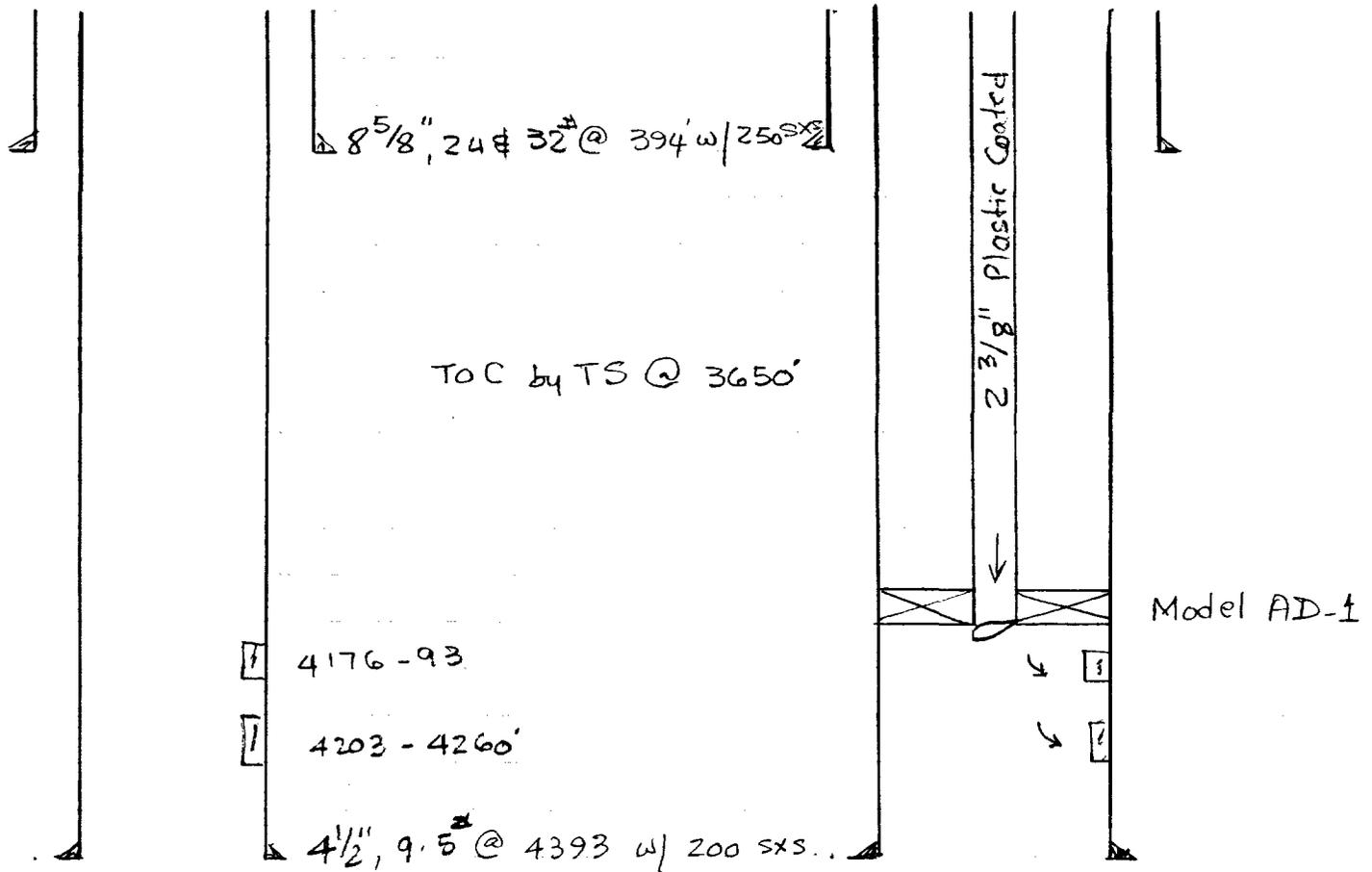


FORM C-108 - III A

HARRIS STATE WELL NO. 4
SW/4 SE/4, Sec. 23, T10S, R32E
LEA COUNTY, NEW MEXICO

CURRENT

PROPOSED



PENROC OIL CORPORATION

APPLICATION FOR AUTHORIZATION TO INJECT

FORM C-108

VI. Harris State #1 NE/4 SW/4 Sec. 23, T10S, R32E
Drilled: 10-26-64 Unit Letter K
8 5/8, 24# @ 351' w/200 sxs.
4 1/2, 10.5# @ 4214 w/200 sxs.
Perfs: 4093 - 4154

Harris State #2 SE/4 SW/4 Sec. 23, T10S, R32E
Drilled: 2-2-65 Unit Letter N
8 5/8, 24# @ 353' w/125 sxs.
4 1/2, 9.5# @ 4248' w/200 sxs.
Perfs: 4166 - 4205

Harris State #3 NW/4 SE/4 Sec. 23, T10S, R32E
Drilled: 4-8-65 Unit Letter J
8 5/8, 23# @ 352' w/175 sxs. (circ)
4 1/2, 9.5# @ 4337' w/200 sxs.
Perfs: Perfs 4247, 48, 49, 50, 53, 54, 56, 57,
58, 59, and 60 w/3000 gal. 15% NE acid

Harris State #5 Sec. 23, T10S, R32E
Drilled: 11-18-65 Unit Letter I
8 5/8, 24# @ 365' w/250 sxs. (circ)
4 1/2, 9.5# @ 4372' w/200 sxs. cmt top 3580' by temp
survey
Perfs: 4248, 52, 56, 66, 71, 77, and 86
Convert SWD 1967

State II-23 #3 NW/4 SW/4 Sec. 23, T10S, R32E
Drilled: 10-14-64 Unit Letter L
7 5/8, 24# @ 1600' w/425 sxs.
4 1/2, 9.5# @ 4267 w/230 sxs.
Perfs: 4067 - 4136

State II-23 #5 SW/4 SW/4 Sec. 23, T10S, R32E
Drilled: 11-4-64 Unit Letter M
7 5/8, 24# @ 1561' w/575 sxs.
4 1/2, 9.5# @ 4270' w/360 sxs.
Perfs: 4065, 70, 74, 79, 92, 4100, 4112, 4126, 4139,
4150, 4162

State II-23 #6 NW/4 Sec. 23, T10S, R32E
Drilled: 11-14-64 Unit Letter F
7 5/8, 24# @ 1574' w/450 sxs.
4 1/2, 9.5# @ 4430' w/300 sxs.
Perfs: 4105, 12, 16, 22, 42, 45, 60, 63, 74, 83, 89,
94, and 98

NM E State #3 NE/4 NE/4 Sec. 26, T10S, R32E
Drilled: 2-4-65 Unit Letter C
8 5/8, 20# @ 1550' w/400 sxs.
4 1/2, 9.5# @ 4260' w/400 sxs.
Perfs: 4124, 26, 28, 30, 35, 38, 41, 43, 45, 47, 49, 52,
56, 59, 68, and 71

State AD #1 Sec. 22, T10S, R32E
Drilled 1952 Unit Letter O
13 3/8 48#, 54.5# @ 371' w/350 sxs.
9 5/8, 32.3 & 36# @ 3470' w/1844 sxs.
5 1/2, 15.5 & 17 & 20# @ 9910'
Perfs: 9880 - 9900. 9908 - 9913
500 gal. acid - 90 BOPH
Came up to upper Devonian - Set CIBP @ 9867.
1957 - Perf: 9820 - 9860 - Swabbed 96 BO/hr
1961 - Hydromite to 9851' - Tested oil & water
Hydromite to 9851 - 40' - Installed PU - Tested
158 BO, 12 MCF, 5 BW
1966 - Devonian "All Water" - Set CIBP 9506'
9298, 9307, 9313, 9321, 46, 53, 60 & 76
Swabbed 22 BO in 5 hrs - IP 253 BO in 10 hrs.
Note in file - This is Lower Penn - Upper Penn not perf -
Csg collapsed shortly after same year - Plug back - Cmt
ret @ 7390' - Displaced 210 sx. below retainer - 10 sx.
on top of retainer 7397 - 7370 - Cut & pulled 5 1/2 @
4000' - 50 sxs. in and out - 50 sxs in and out 4080 -
3870' - Displaced 50 sx. 3495 - 3395' - 10 sxs. on
surface - 1967.

State AD #4 Sec. 22, T10S, R32E
Drilled: 1954 Unit Letter O
13 3/8, 48# @ 386' w/400 sxs.
8 5/8, 24-32# @ 3439' w/2150 sxs.
5 1/2, 15.5 & 17# @ 9392' w/400 sxs.
Perfs: 8136 - 53, 8340 - 72, 8379 - 44, 8522
(420 holes)
5000 gal. acid
IP 320 BO, 9 BW in 5 hrs.
P&A'd 1967 - 5 1/2" csg collapsed @ 8167'
Set CIBP @ 8160' w/240 sxs 10 on top
Cut & pulled 5 1/2" csg @ 4950'
50 sx. plug across 4130 - 3920.
50 sx. plug across 3510 - 3360
10 sx. @ 8 5/8 30' @ surface.

State AD #6 Sec. 22, T10S, R32E
Unit Letter H
8 5/8, 24# @397' w/325 sxs. circ.
4 1/2, 9.5# @ 4448' w/250 sxs.
Perfs: 4077, 80, 83, 88, 91, and 94
4113, 33, 43, and 45

State AD #7 NE/4 NE/4 Sec. 22, T10S, R32E
Drilled: 4-5-65 Unit Letter O
8 5/8, 24# @ 1658' w/464 sxs.
4 1/2, 9.5# @ 4399' w/250 sxs.

State AD #8 Sec. 22, T10S, R32E
Drilled: 1965
8 5/8, 24# @ 1635' w/700 sxs. circ.
4 1/2, 9.5# @ 4399' w/250 sxs.
Perfs: 4087, 89, 91, 93, 95, and 97 Dry
4199 - 4142 Dry
In 1969 converted to injection - Could not take fluid
below frac pressure.

P&A'd 1976 as follows:
50 sxs. 4001 - 3400'
Retained 3000' - Pumped 250 sxs. TOC 2880'
Cut 4 1/2" csg @ 825'.
Perf. 4 holes in 4 1/2" @ 1650'.
Pumped 250 sxs. Class H.
20 sxs - 62' to surface P & A'd.
Perfs: 4051, 53, 55, 57, 60, 64, and 68

State AD #9 Sec. 22, T10S, R32E
Drilled: 1965 Unit Letter G
TOC by TS - 3235'
4 1/2, 9.5# @ 4348' w/150 sxs.
Perfs: 4285, 87, 89 - 3500 gal.
4198, 4201, 4212, 4218, 4221, 4225,
4229, and 4243 - 2000 gal.
Added Perfs 1969: 4140, 41, 42, 51, 53, 58, 59, 63,
64, 65, 68, 71, 72, 82, 83, 84, 85,
86, and 87

Currently Active.

State AD #11 SE/4 SW/4 Sec. 22, T10S, R32E
Drilled: 1967 Unit Letter O
8 5/8, 3530' w/1950 sxs. cmt circ.
5 1/2, 9590' w/680 sxs. DV tool @ 4360'
Perfs: 9310 - 9356
IP: 88 BOPD - TA'd in February 1969.
Recompleted in March 1972.
Perfs: 8319, 8343 - 8720
IP: 13 BO, 3 BW
Currently well TA'd with CIBP @ 8260' - TOC 8226'

New Mexico B Well No. 2 Sec. 27, T10S, R32E
(Tipperary operated)
Drilled: 1954 Unit Letter A
10 3/4 @ 445' w/450 sxs.
7 5/8 @ 4480' w/1928 sxs.
5 1/2 @ 3640 - 4313 w/800 sxs.
(Liner)
Perfs: 8350 - 8454

New Mexico B Well No. 6 Sec. 27, T10S, R32E
(Tipperary operated) Unit Letter A
8 5/8", 24# @ 408' w/275 sxs.
4 1/2", 10.5# @ 4300' w/1400 sxs.
Perfs: 4035 - 80 (19 holes)
 4115 - 29 (8 holes) Acid w/3500 gal. 15%
IP 128 BO, 45 MCF, 3 BW - 18.6° API

State AD No. 3 Sec. 22. T10S, R32E
Drilled 1953 Unit Letter P
13 3/8", 48# @ 394' w/350 sxs.
8 5/8", 28 & 32# @ 3442' w/2212 sxs.
5 1/2", 15.5# @ 8330 w/200 sxs.
Perfs: 8330' - 8555'
Acid w/5000 gal. 15%
156 BO, 39 BW in 11 hrs.

1955 Frac'd w/10,000 gal. & 5000# sd.
132 BO, 72 BW
1965 3 BO & 1BW in 24 hrs.
Cement retainer @ 7550' w/100 sxs.
25 sx. cement plug 6236 - 6000'
Perf 2 holes @ 4700' squeezed 250 sxs.
TOC 3655' DO 4660'
Perf: 4100 - 4135' Tested & squeezed.
Re-perf: 4035 - 4080' Acid w/2000 gal 15% -
Max. Pressure 2800#, Min. 2400, 3.3 BPM, IP 106 BO, 2 BW

FORM C-108 PENROC OIL CORPORATION.

VI. Schematic of Plugged wells penetrating the proposed injection zone within the area of review:

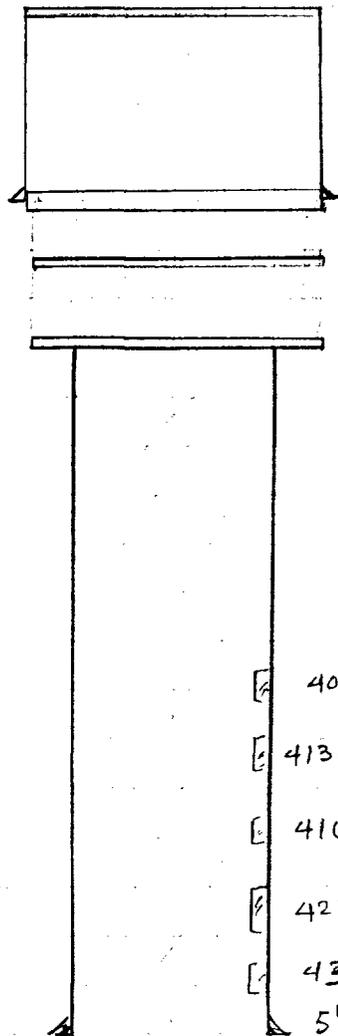
STATE AD WELL NO 5 UNIT A Sec. 22, T10S, R. 32 E

Dyld 1963 8 5/8" 24# @ 390' w/ 300 SXS.

5 1/2" 14# @ 4425 w/ 300 SXS.

Plugged in 1963 w/ csg. cut & pulled @ 3176

10 SXS @ surface.



25 SXS @ 308 - 390

25 SXS @ 1588 - 1670

3135 - 3217 - 25 SXS

4084-86, 4092-4103, 4108-10

4130-34, 44-52,

4169-4214

4232-36, 43-45, 50-54, 58-60, 66-68, 71, 73, 82

4326-36, 4339-41, 4354-56, 4367-69, 79-83

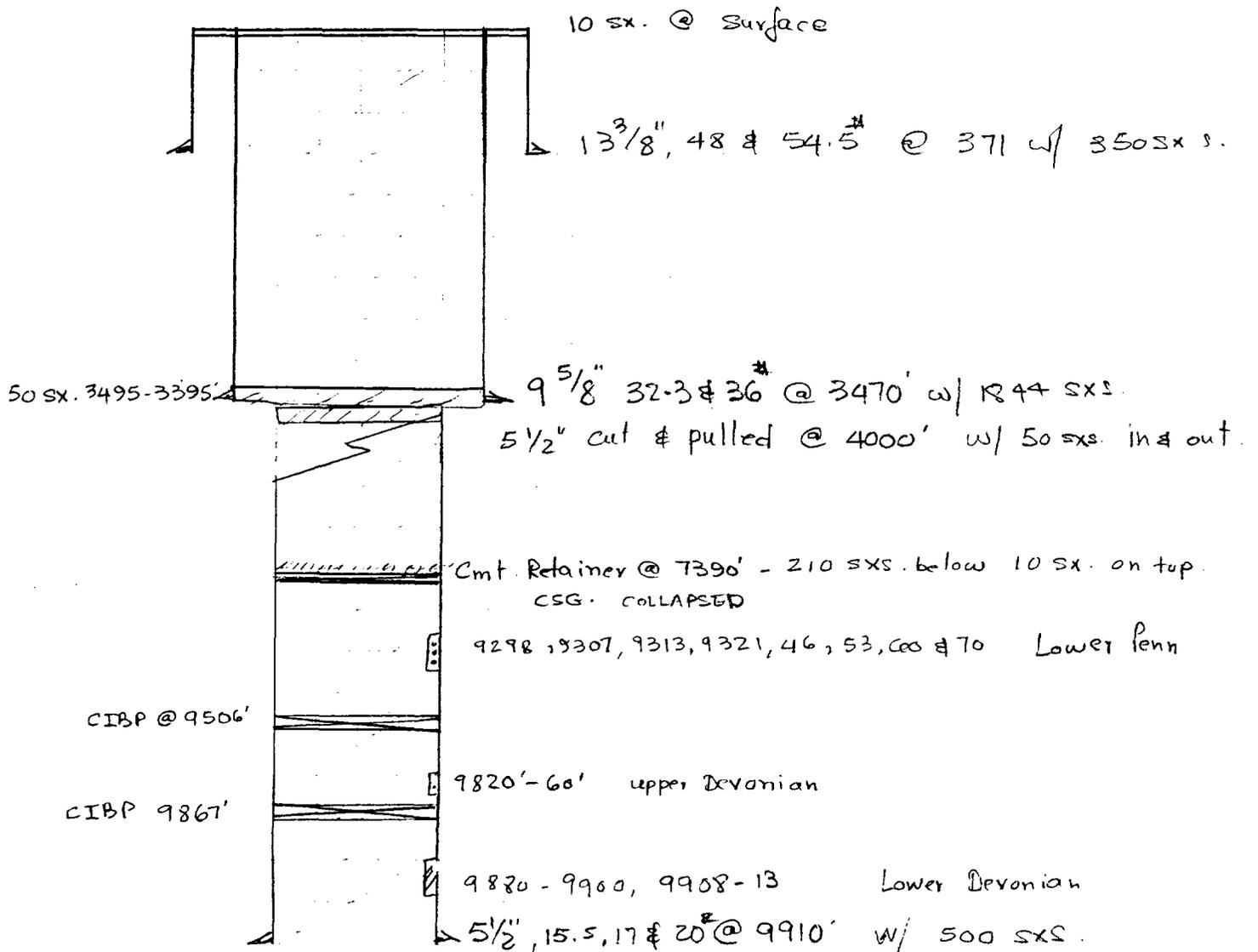
5 1/2" 14# @ 4425' w/ 300 SXS 86-89

All squeezed
after testing
0.5 to 1.5 BD
& 24-30 BW

FORM C-108 PENROC OIL CORPORATION

VI. Schematic of plugged wells penetrating the proposed injection zone within the area of review.

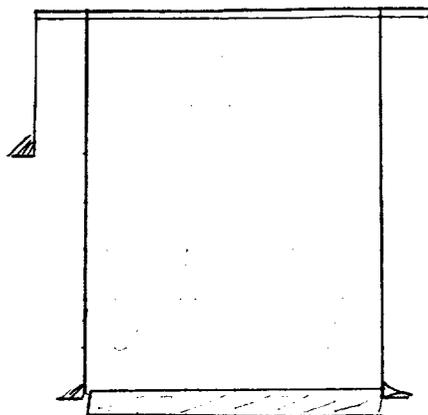
STATE AD WELL NO 1 Unit O 22-10-32



FORM C-108 PENROC OIL CORPORATION

VII. STATE AD WELL NO 4 UNIT O 22-10-32

Drid 1954. P&A'd 1967. Casing collapsed @ 8167'



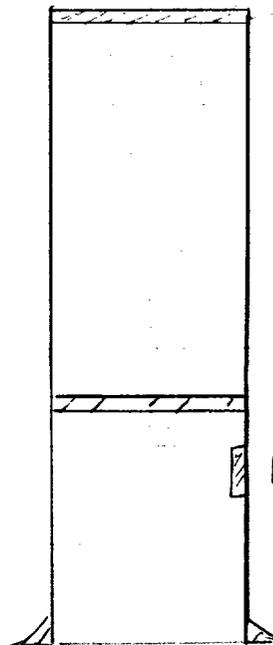
13³/₈" 48# @ 386' w/ 400 SXS.

8⁵/₈" 24-32# @ 3439' w/ 2150 SXS
50 SXS. 3510'-3360'



50 SXS. 4130'-3920'

Csg. cut & pull-d @ 4950'
50 SXS. in & out



CIBP @ 8160'

Perfs: 8336'-53', 8340'-72', 79'-44' & 8522'
IP 320 BO, 980 u 5 hrs

5¹/₂" 15.5 @ 17# @ 9392' w/ 400 SXS

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

VII
PENROC OIL CORPORATION

Form C-103
Revised 1-1-89

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

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

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

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

WELL API NO.
30-025-21338

5. Indicate Type of Lease
STATE FEE

6. State Oil & Gas Lease No.
VA-0333

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name

1. Type of Well:
OIL WELL GAS WELL OTHER

Shell State

2. Name of Operator
Manzano Oil Corporation 505/623-1996

8. Well No.
1

3. Address of Operator
P.O. Box 2107/Roswell, NM 88202-2107

9. Pool name or Wildcat
Wildcat *Guerno Largo P-*

4. Well Location
Unit Letter B : 330 Feet From The North Line and 2310 Feet From The East Line
Section 26 Township 10 South Range 32 East NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
4297' GL

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: _____ <input type="checkbox"/>		OTHER: _____ <input type="checkbox"/>	

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

- Set 100' plug 5200' back up to 5100'. Tag.
- Set 100' plug base of 8-5/8" shoe from 4550' back up to 4450'. Tag.
- Set 100' plug above San Andres perms from 4200' back up to 4100'. Tag.
- Set 100' plug @ 8-5/8" csg stub @ 2250' (from 2300' back up to 2200'). Tag.
- Pull 8-5/8" csg stuck @ 1415' & put 100' plug @ 11-3/4" shoe from 490' back to 390'.
- Set 10 sx surface plug. Install dry hole marker.

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

SIGNATURE Allison Hernandez Technician _____ DATE 12/8/95

TYPE OR PRINT NAME Allison Hernandez TELEPHONE NO. 623-1996

(This space for State Use)
ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

APPROVED BY _____ DATE DEC 12 1995

CONDITIONS OF APPROVAL, IF ANY:
Any prod to be moved/ sold from this work ?? No - per Allison 1-18-96

Martinez Well
330' FNL; 2310' FEL

Sec 26
T10S-R32E
Lea Co.

10 sxs. surface plug.

100' plug - 490-390'

430' - 11 3/4" Csg - 42# J55
Cemented w/ 400 sks - Circ

8 5/8" - 24# Csg
110 3/4" x 6' size
Stack @ 1415'

1415'

8 5/8" Csg Stub @ 275'
100' cement plug 2300-2200'

100' cement plug 4200-4100'

San Andres Pkgs
4209-42
And
4330-35'

cement plug 4450-4550'

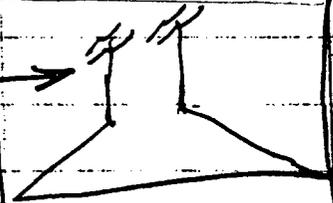
4502' - 8 5/8" - 32# J55
Cemented w/ 600 sks

100' cement plug 5200-5100'

5147' - Top of Fish.

12-14-95

Lost In hole
Bit, Crossover,
8-4 3/8" Drill Collar
12 sks - 2 7/8" Tkg



5792' - 7 7/8" Bit

Remark! Attempt
to Recover Fish.
Tools Going Down
Beside Fish.
Max Depth w/ Fishing
tools - 5200'

7 7/8" hole, TD in 6-9-65
10,000'

- VII.
1. Average Daily Rate: 300 BW
Maximum Daily Rate: 500 BW
 2. Closed System
 3. 300 - 810#.
 4. Produced water from Mescalero San Andres Field.
 5. N/A.

VIII. Penroc Oil Corporation

The proposed injection zone is the San Andres formation. In the Mescalero field, the San Andres is a fractured dolomite. The top of the San Andres is found at an approximate depth of 3420' (930' above sea level). The San Andres is 1400' thick and typically includes 50' of net pay. The local underground source of water is the Ogallala formation and its base is at a depth of 150'.

IX. None at this time.

X. Previously submitted. Also on cross-section.

XI. Fresh water analysis attached.

XII. Applicant attests that all available geological, engineering, and well data has been examined and that no hydrologic connection exists between the proposed injection interval and the underlying fresh water aquifer.

XIII. Off-Set Operators and Surface Owners for PENROC Operated State AD Well No. 2 and Harris State Well No. 4

Surface Owner: Mr. Carl Lane Johnson
P.O. Box 916
Tatum, New Mexico 88267

Off-Set Operators: New Mexico State Land Office
P.O. Box 1148
Santa Fe, New Mexico 87504-1148

Exxon Company, USA
P.O. Box 1600
Midland, Texas 79702

Tipperary Oil & Gas Corporation
633 17th St., Suite 1550
Denver, Colorado 80202

Off-Set Operators:

Yates Petroleum Corporation
105 S. Fourth St.
Artesia, New Mexico 88210

Manzano Oil Corporation
P.O. Box 2107
Roswell, New Mexico 88202



Water Analysis Report

Customer: Penroc Oil Corporation

4/26/96

Address: P.O. Box 5970

City: Hobbs

State: NM

Zip: 88240-

Attention: Merch Merchant

Date Sampled: 4/25/96

CC1:

Date Received: 4/26/96

CC2:

SALESMAN NAME: Mike Edwards

LEASE: Fresh Water

SAMPLE POINT: Windmill

WELL: Windrill

REMARKS:

CHLORIDE: 600
SULFATE: 200
BICARBONATE: 170
CALCIUM: 180
MAGNESIUM: 60
IRON: 0

BARIUM:

STRONTIUM:

MEASURED pH: 7.91

TEMPERATURE: 86

DISSOLVED CO2: 0

MOLE PERCENT CO2 IN GAS:

DISSOLVED H2S: 0.0

PRESSURE (PSIA): 100

SODIUM (PPM): 229

IONIC STRENGTH: 0.02

CALCITE (CaCO3) SI: #Error	CALCITE PTB: #Error
GYPSUM (CaSO4) SI: -1.79	GYPSUM PTB: N/A
BARITE (BaSO4) SI: N/A	BARITE PTB: N/A
CELESTITE (SrSO4) SI: N/A	CELESTITE PTB: #Error

SI calculations based on Tomam-Odds



Water Analysis Report

Customer: Penroc Oil Corporation 4/26/96
Address: P.O. Box 5970
City: Hobbs **State:** NM **Zip:** 88240-
Attention: Merch Merchant **Date Sampled:** 4/25/96
CC1: **Date Received:** 4/26/96
CC2: **SALESMAN NAME:** Mike Edwards

LEASE: AD **SAMPLE POINT:** AD #6
WELL: AD #6 **REMARKS:**

CHLORIDE:	142000
SULFATE:	4918
BICARBONATE:	231
CALCIUM:	2566
MAGNESIUM:	777
IRON:	0
BARIUM:	
STRONTIUM:	
MEASURED pH:	7.07
TEMPERATURE:	86
DISSOLVED CO2:	395
MOLE PERCENT CO2 IN GAS:	
DISSOLVED H2S:	32.0
PRESSURE (PSIA):	100

SODIUM (PPM): 90117

IONIC STRENGTH: 4.11

CALCITE (CaCO3) SI: -0.85	CALCITE PTB: N/A
GYPSUM (CaSO4) SI: 0.01	GYPSUM PTB: 46.6
BARITE (BaSO4) SI: N/A	BARITE PTB: N/A
CELESTITE (SrSO4) SI: N/A	CELESTITE PTB: N/A

SI calculations based on Tomson-Ordo



Water Analysis Report

Customer: Penroc Oil Corporation

4/26/96

Address: P.O. Box 5970

City: Hobbs

State: NM

Zip: 88240-

Attention: Merch Merchant

Date Sampled:

4/25/96

CC1:

Date Received:

4/26/96

CC2:

SALESMAN NAME: Mike Edwards

LEASE: AD

SAMPLE POINT: AD #3

WELL: AD #2

REMARKS:

CHLORIDE: 136000

SULFATE: 4666

BICARBONATE: 219

CALCIUM: 3007

MAGNESIUM: 1749

IRON: 0

BARIUM:

STRONTIUM:

MEASURED pH: 6.79

TEMPERATURE: 86

DISSOLVED CO2: 526

MOLE PERCENT CO2 IN GAS:

DISSOLVED H2S: 53.0

PRESSURE (PSIA): 100

SODIUM (PPM): 83756

IONIC STRENGTH: 3.94

CALCITE (CaCO3) SI: -1.04

CALCITE PTB: N/A

GYPNUM (CaSO4) SI: 0.04

GYPNUM PTB: 151.8

BARITE (BaSO4) SI: N/A

BARITE PTB: N/A

CELESTITE (SrSO4) SI: N/A

CELESTITE PTB: N/A

SI calculations based on Tomson-Oddo



Water Analysis Report

Customer: Penroc Oil Corporation

4/26/96

Address: P.O. Box 5970

City: Hobbs

State: NM

Zip: 88240-

Attention: Merch Merchant

Date Sampled:

4/25/96

CC1:

Date Received:

4/26/96

CC2:

SALESMAN NAME: Mike Edwards

LEASE: AD

SAMPLE POINT: AD #2

WELL: AD #2

REMARKS:

CHLORIDE: 137000

SULFATE: 5299

BICARBONATE: 280

CALCIUM: 2446

MAGNESIUM: 850

IRON: 0

BARIUM:

STRONTIUM:

MEASURED pH: 6.83

TEMPERATURE: 86

DISSOLVED CO2: 482

MOLE PERCENT CO2 IN GAS:

DISSOLVED H2S: 30.0

PRESSURE (PSIA): 100

SODIUM (PPM): 87075

IONIC STRENGTH: 3.98

CALCITE (CaCO3) SI: -0.86

CALCITE PTB: N/A

GYPSUM (CaSO4) SI: 0.02

GYPSUM PTB: 75.3

BARITE (BaSO4) SI: N/A

BARITE PTB: N/A

CELESTITE (SrSO4) SI: N/A

CELESTITE PTB: N/A

SI calculations based on Tomson-Ogdo



Champion
Technologies, Inc.

Committed To Improvement

Water Analysis Report

Customer: Penroc Oil Corporation

4/26/96

Address: P.O. Box 5970

City: Hobbs

State: NM

Zip: 88240-

Attention: Merch Merchant

Date Sampled:

4/25/96

CC1:

Date Received:

4/26/96

CC2:

SALESMAN NAME: Mike Edwards

LEASE: Harris

SAMPLE POINT: Harris #3

WELL: Harris #3

REMARKS:

CHLORIDE: 145000

SULFATE: 5209

BICARBONATE: 268

CALCIUM: 2165

MAGNESIUM: 631

IRON: 0

BARIUM:

STRONTIUM:

MEASURED pH: 6.94

TEMPERATURE: 86

DISSOLVED CO2: 439

MOLE PERCENT CO2 IN GAS:

DISSOLVED H2S: 143.0

PRESSURE (PSIA): 100

SODIUM (PPM): 92952

IONIC STRENGTH: 4.20

CALCITE (CaCO3) SI: -0.80

CALCITE PTB: N/A

GYPSUM (CaSO4) SI: -0.03

GYPSUM PTB: N/A

BARITE (BaSO4) SI: N/A

BARITE PTB: N/A

CELESTITE (SrSO4) SI: N/A

CELESTITE PTB: N/A

SI calculations based on Tomson-Oddo



Water Analysis Report

Customer: Penroc Oil Corporation 4/26/96
Address: P.O. Box 5970
City: Hobbs **State:** NM **Zip:** 88240-
Attention: Merch Merchant **Date Sampled:** 4/25/96
CC1: **Date Received:** 4/26/96
CC2: **SALESMAN NAME:** Mike Edwards

LEASE: BL **SAMPLE POINT:** BL #14
WELL: BL #14 **REMARKS:**

CHLORIDE:	149000
SULFATE:	4342
BICARBONATE:	268
CALCIUM:	2566
MAGNESIUM:	753
IRON:	0
BARIUM:	
STRONTIUM:	
MEASURED pH:	6.48
TEMPERATURE:	86
DISSOLVED CO2:	570
MOLE PERCENT CO2 IN GAS:	
DISSOLVED H2S:	297.0
PRESSURE (PSIA):	100

SODIUM (PPM): 94440

IONIC STRENGTH: 4.30

CALCITE (CaCO3) SI: -0.78	CALCITE PTB:	N/A
GYPSUM (CaSO4) SI: -0.03	GYPSUM PTB:	N/A
BARITE (BaSO4) SI: N/A	BARITE PTB:	N/A
CELESTITE (SrSO4) SI: N/A	CELESTITE PTB:	N/A

SI calculations based on Tomson-Odde

KELLAHIN AND KELLAHIN
ATTORNEYS AT LAW
EL PATIO BUILDING
117 NORTH GUADALUPE
POST OFFICE BOX 2265
SANTA FE, NEW MEXICO 87504-2265

TELEPHONE (505) 982-4285
TELEFAX (505) 982-2047

W. THOMAS KELLAHIN*

*NEW MEXICO BOARD OF LEGAL SPECIALIZATION
RECOGNIZED SPECIALIST IN THE AREA OF
NATURAL RESOURCES-OIL AND GAS LAW

JASON KELLAHIN (RETIRED 1991)

May 6, 1996

Commissioner of Public Lands
State of New Mexico
310 Old Santa Fe Trail
Santa Fe, New Mexico
Attn: Mr. Pete Martinez
Unitization Manager

HAND DELIVERED

**Re: Co-operative Leasehold Waterflood Project
Penroc Oil Corporation, Operator
Section 22: SE/4; SE/4NE/4
Section 23: SW/4; SW/4NW/4 & W/2SE/4
T10S, R32E Lea County, New Mexico**

Dear Mr. Martinez:

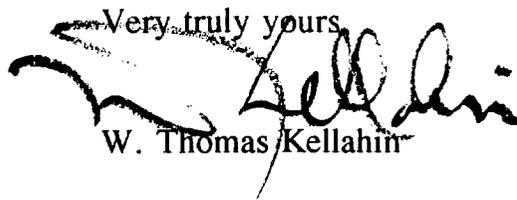
Our firm represents Penroc Oil Corporation concerning the referenced proposed cooperative leasehold waterflood project consisting of parts of three (3) State of New Mexico oil & gas leases to be utilized for the purpose of secondary recovery.

Penroc is requesting permission to institute a waterflood project on a "co-operative" leasehold basis rather than being required to form unit containing portions of these state oil and gas leases. We believe such a request to be appropriate in this case because 100% of the working interest is held by Penroc Oil Corporation and there are no overriding royalty interests on any of these three leases.

We have enclosed a copy of our NMOCD application and C-108 which have been filed this afternoon and are to be heard at the NMOCD Examiner hearing now scheduled for May 30, 1996.

If you have any questions, please call either me or Mr. M. Y. (Merch) Merchant at Penroc Oil Corporation-Hobbs (505) 397-3596.

Very truly yours,


W. Thomas Kellahin

fx: Penroc Oil Corporation

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

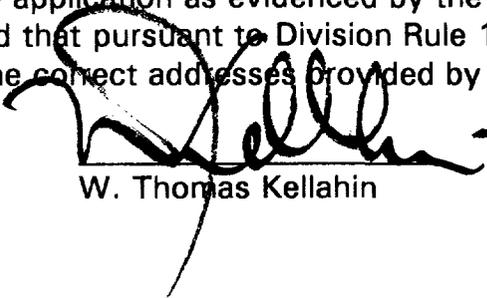
IN THE MATTER OF THE HEARING CALLED
BY THE OIL CONSERVATION DIVISION
FOR THE PURPOSE OF CONSIDERING:

CASE NO. 11543

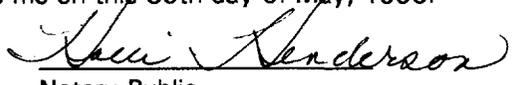
Application of Penroc
Oil Corporation for
Waterflood Project and EOR
Lea County, New Mexico.

CERTIFICATE OF MAILING AND COMPLIANCE WITH ORDER R-8054

W. THOMAS KELLAHIN, attorney in fact and authorized representative of Penroc Oil Corporation, states that the notice provisions of Division Rule 1207 (Order R-8054) have been complied with, that Applicant has caused to be conducted a good faith diligent effort to find the correct addresses of all interested parties entitled to receive notice, that on the 7th day of May, 1996 I caused to be sent, by certified mail return receipt requested, notice of this hearing and a copy of the application for the referenced case along with the cover letter, at least twenty days prior to the hearing set for May 30, 1996, to the parties shown in the application as evidenced by the attached copies of receipt cards, and that pursuant to Division Rule 1207, notice has been given at the correct addresses provided by such rule.


W. Thomas Kellahin

SUBSCRIBED AND SWORN to before me on this 30th day of May, 1996.


Notary Public

My Commission Expires: June 15th, 1998

BEFORE THE
OIL CONSERVATION DIVISION
Case No. 11543 Exhibit No. *11*
Submitted By:
Penroc Oil Corporation
Hearing Date: May 30, 1996

Is your RETURN ADDRESS completed on the reverse side?

SENDER:
 Complete items 1 and/or 2 for additional services.
 Complete items 3, 4a, and 4b.
 Print your name and address on the reverse of this form so that we can return this card to you.
 Attach this form to the front of the mailpiece, or on the back if space does not permit.

Penroc Oil Corp. 5/30/96
 May 7, 1996

I also wish to receive the following services (for an extra fee):
 1. Addressee's Address
 2. Restricted Delivery
 Consult postmaster for fee.

3. Article Addressed to:
 Mr. Carl Lane Johnson
 PO Box 916
 Tatum, New Mexico 88267

4a. Article Number
 P 334 798 529

4b. Service Type
 Registered Certified
 Express Mail Insured
 Return Receipt for Merchandise COD

7. Date of Delivery
 5-13-96

5. Received By: (Print Name)

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

6. Signature: (Addressee or Agent)
 Barbara W. Johnson

PS Form 3811, December 1994 Domestic Return Receipt

P 334 798 529
 Mr. Carl Lane Johnson
 PO Box 916
 Tatum, New Mexico 88267

Thank you for using Return Receipt Service.

Post Office, State, & ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Is your RETURN ADDRESS completed on the reverse side?

SENDER:
 Complete items 1 and/or 2 for additional services.
 Complete items 3, 4a, and 4b.
 Print your name and address on the reverse of this form so that we can return this card to you.

Penroc Oil Corp. 5/30/96
 May 7, 1996

I also wish to receive the following services (for an extra fee):
 1. Addressee's Address
 2. Restricted Delivery
 Consult postmaster for fee.

3. Article Addressed to:
 Marmaco Oil Corporation
 P.O. Box 2107
 Roswell, New Mexico 88202

4a. Article Number
 P 334 798 530

4b. Service Type
 Registered Certified
 Express Mail Insured
 Return Receipt for Merchandise COD

7. Date of Delivery
 5/9/96

5. Received By: (Print Name)
 ANN WALKER

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

6. Signature: (Addressee or Agent)
 X Ann Walker

PS Form 3811, December 1994 Domestic Return Receipt

P 334 798 530
 US Postal Service
 Receipt for Certified Mail
 No Insurance Coverage Provided
 Marmaco Oil Corporation
 P.O. Box 2107
 Roswell, New Mexico 88202

Thank you for using Return Receipt Service.

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	

Is your RETURN ADDRESS completed on the reverse side?

SENDER:
 Complete items 1 and/or 2 for additional services.
 Complete items 3, 4a, and 4b.
 Print your name and address on the reverse of this form so that we can return this card to you.

Penroc Oil Corp. 5/30/96
 May 7, 1996

I also wish to receive the following services (for an extra fee):
 1. Addressee's Address
 2. Restricted Delivery
 Consult postmaster for fee.

3. Article Addressed to:
 Tipperary Oil & Gas Corporation
 633 17th St., Suite 1550
 Denver, Colorado 80202

4a. Article Number
 P 334 798 531

4b. Service Type
 Registered Certified
 Express Mail Insured
 Return Receipt for Merchandise COD

7. Date of Delivery
 MAY 09 1996

5. Received By: (Print Name)

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

6. Signature: (Addressee or Agent)
 X [Signature]

PS Form 3811, December 1994 Domestic Return Receipt

P 334 798 531
 US Postal Service
 Receipt for Certified Mail
 No Insurance Coverage Provided.
 Do not use for International Mail (See reverse)
 Tipperary Oil & Gas Corporation
 633 17th St., Suite 1550
 Denver, Colorado 80202

Thank you for using Return Receipt Service.

Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Penroc Oil Corp. 5/30/96
 May 7, 1996

Is your RETURN ADDRESS completed on the reverse side?

SENDER:
 ■ Complete items 1 and/or 2 for additional services.
 ■ Complete items 3, 4a, and 4b.
 ■ Print your name and address on the reverse of this form so that we can return this

Penroc Oil Corp. 5/30/96
 May 7, 1996

I also wish to receive the following services (for an extra fee):
 1. Addressee's Address
 2. Restricted Delivery
 Consult postmaster for fee.

3. Article Addressed to:
 Yates Petroleum Corporation
 105 S. Fourth St.
 Artesia, New Mexico 88210

4a. Article Number
 P 334 798 534

4b. Service Type
 Registered Certified
 Express Mail Insured
 Return Receipt for Merchandise COD

7. Date of Delivery
 5-9-96

5. Received By: (Print Name)
 X SG RIZOS

6. Signature: (Addressee or Agent)
 X [Signature]

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

PS Form 3811, December 1994 Domestic Return Receipt

Thank you for using Return Receipt Service.

11 3800 April 1995

P 334 798 534

US Postal Service
Receipt for Certified Mail
 No Insurance Coverage Provided.
 Do not use for International Mail (See reverse)

Yates Petroleum Corporation
 105 S. Fourth St.
 Artesia, New Mexico 88210

Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Is your RETURN ADDRESS completed on the reverse side?

SENDER:
 ■ Complete items 1 and/or 2 for additional services.
 ■ Complete items 3, 4a, and 4b.
 ■ Print your name and address on the reverse of this form so that we can return this

Penroc Oil Corp. 5/30/96
 May 7, 1996

I also wish to receive the following services (for an extra fee):
 1. Addressee's Address
 2. Restricted Delivery
 Consult postmaster for fee.

3. Article Addressed to:
 Exxon Company, USA
 P.O. Box 1600
 Midland, Texas 79702

4a. Article Number
 P 334 798 532

4b. Service Type
 Registered Certified
 Express Mail Insured
 Return Receipt for Merchandise COD

7. Date of Delivery
 MAY 10 1996

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)
 X [Signature]

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

PS Form 3811, December 1994 Domestic Return Receipt

Thank you for using Return Receipt Service.

11 3800 April 1995

P 334 798 532

US Postal Service
Receipt for Certified Mail
 No Insurance Coverage Provided.
 Do not use for International Mail (See reverse)

Exxon Company, USA
 P.O. Box 1600
 Midland, Texas 79702

Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Penroc Oil Corp. 5/30/96
 May 7, 1996

P 334 798 533

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

New Mexico State Land Office

P.O. Box 1148

Santa Fe, New Mexico

87504-1148

Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

3800 April 1995

Penroc Oil Corp. 5/30/96

May 7, 1996