

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: Lynx Petroleum Consultants, Inc.
Address: P. O. Box 1666, Hobbs, NM 88240
Contact party: Gary W. Fonay Phone: 505-392-6950
- 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 WFX 360.
- 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: Gary W. Fonay Title Vice-President
Signature: *Gary W. Fonay* Date: 10/1/81
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

RECEIVED
OCT 18 1985
MIDLAND OFFICE

INJECTION WELL DATA SHEET

Lynx Petroleum Consultants, Inc. State 'BD'

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
2	2310' FNL & 2310' FEL	7	17S	33E

SchematicTabular DataSurface CasingSize 8 5/8" @ 977' Cemented with 500 sx.TOC Circ feet determined by _____Hole size 12 1/4"Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long stringSize 5 1/2" Cemented with 1400 sx.TOC 1585 feet determined by temp surveyHole size 7 7/8"Total depth 4518'Injection interval4190 feet to 4349 feet
(perforated ~~xxx xxxxxx xxxxxx xxxxxx xxxxxx~~)Tubing size 2 3/8" lined with plastic-coated set in a
(material)Baker Lock-set packer at 3900 feet
(brand and model)

(or describe any other casing-tubing seal).

Other Data1. Name of the injection formation Grayburg2. Name of field or Pool (if applicable) Maljamar3. Is this a new well drilled for injection? ☐ Yes ☒ NoIf no, for what purpose was the well originally drilled? The well was originally a producer in the same zone but now is only capable of producing water.

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) _____

4470-84' CIBP @ 4450' w/15' cmt on top.5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. None in the immediate area.

[illegible]

Wells In Area of Review

All wells located in Section 7, T-17S, R-33E

State 'A' No. 2
State 'A' No. 1
State 'A' No. 4
State 'A' No. 7
Malmar Unit Tract 3 No. 5
Malmar Unit Tract 3 No. 6
Malmar Unit Tract 3 No. 11
Malmar Unit Tract 3 No. 12
State 'BD' No. 2
State 'C' No. 1
State 'BD' No. 1
Malmar Unit Tract 4 No. 9
Malmar Unit Tract 4 No. 10
Malmar Unit Tract 4 No. 14
Malmar Unit Tract 4 No. 15

SOUTHLAND ROYALTY

Malmar Unit Tract 3 No. 5

1980' FNL & 684' FWL

Spud 2/6/60.

12 1/4" hole to 321'.. Ran 8 5/8" 24# csg. Set @ 331'. Cmt w/225 sx.
Cmt circ.

7 7/8" hole to 4517'. Set 5 1/2" 14# csg @ 4527'. Cmt w/300 sx.

TOC @ 3190'.

Perfs 4246-4470'.

Current producer.

SOUTHLAND ROYALTY

Malmar Unit Tract 3 No. 6

1980' FNL & 2029' FWL

Spud 3/18/60.

12 1/4" hole. Ran 294' 8 5/8" 24# csg. Set @ 304'. Cmt w/250 sx.
Circ.

7 7/8" hole. Ran 4458' 5 1/2" 14# csg. Set @ 4494'. Cmt w/300 sx.

TOC @ 3000'.

Perfs 4183-4314'.

Current injector.

SOUTHLAND ROYALTY

Malmar Unit Tract 3 No. 11

1980' FSL & 2029' FWL

Spud 4/22/59.

12 1/4" hole. Ran 303' 8 5/8" 24# csg. Cmt w/250 sx. Circ.

7 7/8" hole. Ran 4864' 5 1/2" 14# csg. Cmt w/400 sx. TOC
@ 2600'.

Perfs 4226-4474'.

Current producer.

SOUTHLAND ROYALTY

Malmar Unit Tract 4 No. 14

1980' FWL & 660' FSL

Spud 9/21/58.

12 1/4" hole. Ran 318' 8 5/8" 24# csg. Cmt w/225 sx. Circ.

7 7/8" hole. Set 5 1/2" 14# csg @ 4490'. Cmt w/550 sx. TOC
@ 2000'.

Perfs 4184-4326'.

Current injector.

SOUTHLAND ROYALTY

Malmar Unit Tract 4 No. 15

660' FSL & 1980' FEL

✓ Spud 6/19/58.

12 1/4" hole. Set 8 5/8" 24# csg @ 310'. Cmt w/300 sx. Circ.

7 7/8" hole. Ran 4497' of 5 1/2" 14# csg. Cmt w/500 sx.

Perfs 4196-4433'.

Current producer.

SOUTHLAND ROYALTY

Malmar Unit Tract 3 No. 12

1980' FSL & 684' FWL

✓ Spud 5/20/59.

12 1/4" hole. Ran 306' 8 5/8" 24# csg. Cmt w/250 sx. Circ.

7 7/8" hole. Ran 4735' 5 1/2" 14# csg. Cmt w/400 sx. TOC

@ 2803'.

Perfs 4195-4730'.

Current injector.

SOUTHLAND ROYALTY

Malmar Unit Tract 4 No. 9

✓ 1980' FSL & 660' FEL

Spud 11/27/57.

12 1/4" hole. Set 8 5/8" csg @ 306'. Cmt w/200 sx. Circ.

7 7/8" hole. Set 5 1/2" csg @ 4450'. Cmt w/1300 sx. Circ.

Perfs 4216-4337'.

Current producer.

SOUTHLAND ROYALTY

✓ Malmar Unit Tract 4 No. 10

1980' FSL & 1980' FEL

Spud 11/2/58.

11" hole. Set 8 5/8" 32# csg @ 330'. Cmt w/250 sx. Circ.

7 3/4" hole. Set 5 1/2" csg @ 4495'. Cmt w/250 sx. TOC @ 2700'.

Perfs 4293-4424'.

Current injector.

LYNX PETROLEUM CONSULTANTS, INC.

State 'A' No. 1

660' FNL & 1980' FEL

Spud 3/3/43.

15" hole. Set 12 1/2" csg @ 265'. Cmt w/25 sx.

10" hole. Set 8 5/8" csg @ 1267'. Cmt w/50 sx.

7 7/8" hole. Set 5" csg @ 4152'. Cmt w/100 sx.

OH to 4415'.

Currently SI.

LYNX PETROLEUM CONSULTANTS, INC.

State 'A' No. 4

660' FNL & 660' FEL

Spud 7/20/49.

11" hole. Set 8 5/8" csg @ 1400'. Cmt w/132 sx. Circ.

7 7/8" hole. Set 5 1/2" csg @ 4081'. Cmt w/100 sx.

OH to 4569'.

Currently SI.

LYNX PETROLEUM CONSULTANTS, INC.

State 'A' No. 7

990' FNL & 990' FEL

Spud 12/14/57.

12 1/4" hole. Set 8 5/8" csg @ 365'. Cmt w/150 sx.

7 7/8" hole. Set 5 1/2" csg @ 4370'. Cmt w/150 sx.

Perfs 4206-4346'.

Current producer.

C. T. McLAUGHLIN

State 'C' No. 1

1980' FNL & 1980' FEL

Spud 6/18/50.

Set 8 5/8" csg in 10" hole @ 1409'. Cmt w/100 sx.

Set 5 1/2" csg in 7" hole @ 4108'. Cmt w/100 sx.

Drld out to 4385'. Shot OH.

P&A 1/10/52.

Cmt plug 4358-4100'.

Cmt plug 3460-3420'.

Pld 3440' 5 1/2" csg.

Cmt plug 1425-1405'.

Pld 975' 8 5/8" csg.

Cmt @ surf. Mud between plugs.

C. T. McLAUGHLIN

State 'A' No. 2

660' FNL & 1980' FWL

Spud 9/26/43.

15" hole. Set 12 1/2" csg @ 240'. Cmt w/25 sx.

10 3/4" hole. Set 8 5/8" csg @ 1286'. Cmt w/50 sx.

7" hole. Set 5 1/2" csg @ 4120'. Cmt w/100 sx.

TD 4345'. Shot OH.

100' cmt plug 4000-3900'.

Cmt plug 3500-3050'.

Rec 2000' - 5 1/2" csg.

50 sx plug across cut off.

Tagged TOC @ 1800'. Btm @ 2150'.

Spotted plug @ 1331'. Tagged @ 1180'.

Perf @ 350'. Sqz w/120 sx.

Spotted 10 sx @ surf.

LYNX PETROLEUM CONSULTANTS, INC.

State 'BD' No. 1

1980' FNL & 660' FEL

Spud 3/31/59.

12 1/4" hole. 8 5/8" csg set @ 360'. Cmt w/360 sx. Circ.

7 7/8" hole. Set 5 1/2" csg @ 4468'. Cmt w/600 sx. TOC @ 2290'.

Perfs 4213-4362'.

Current producer.

C. T. McLAUGHLIN
STATE 'C' NO. 1
1980' FNL & 1980' FEL

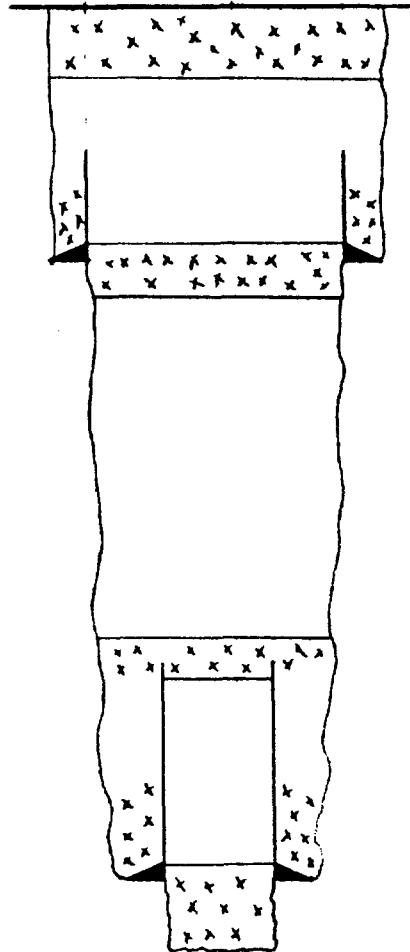
Spud 6/18/50

P&A 1/10/52.
Mud between plugs.
Cmt @ surf.

Cmt 1425-1405'.
Pld 975' 8 5/8" csg.

Cmt 3460-3420'.
Pld 3440' 5 1/2" csg.

Cmt 4358-4100'.



10" hole. Set 8 5/8" csg @ 1409' w/100 sx.

7" hole. Set 5 1/2" csg @ 4108' w/100 sx.

Drld out to 4385'. Shot OH.

C. T. McLAUGHLIN
STATE 'A' NO. 2
660' FNL & 1980' FWL

Spud 9/26/43

Spot 10 sx cmt @ surf.

Perf @ 350'. Sqz
w/120 sx.

Spot plug @ 1331'.
Top @ 1180'.

Rec 2000' - 5 1/2" csg.
50 sx plug across cut off.
Tagged top @ 1800',
btm @ 2150'.

Cmt plug 3500-3050'.

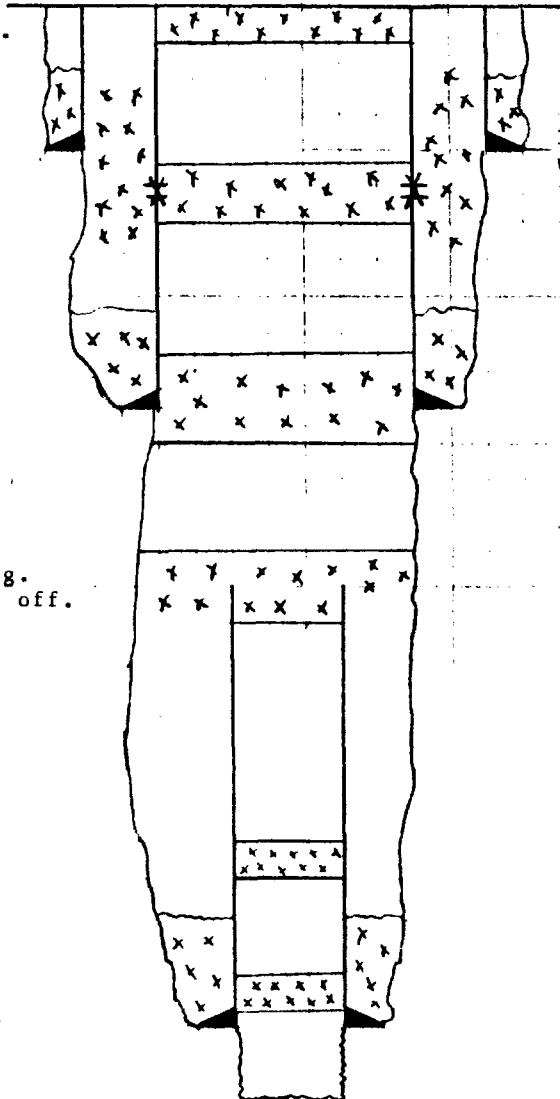
100' plug 4000-3900'.

15" hole. Set 12 1/2" csg @ 240'
w/25 sx.

10 3/4" hole. Set 8 5/8" csg @
1286' w/50 sx.

7" hole. Set 5 1/2" csg @ 4120'
w/100 sx.

TD 4345'. Sho: OH.



VII. Proposed Operation

1. Average rate to be 250 BWPD
Maximum rate to be 450 BWPD
2. System is closed.
3. Average injection pressure to be 2500 psi
Maximum injection pressure to be 2900 psi
4. The well will only be used to reinject produced water.

VIII. Previously submitted

IX. None proposed

X. Attached

XI. No fresh water wells

XIII. Attached

100

9140
4147

1251
1214
1241
1297

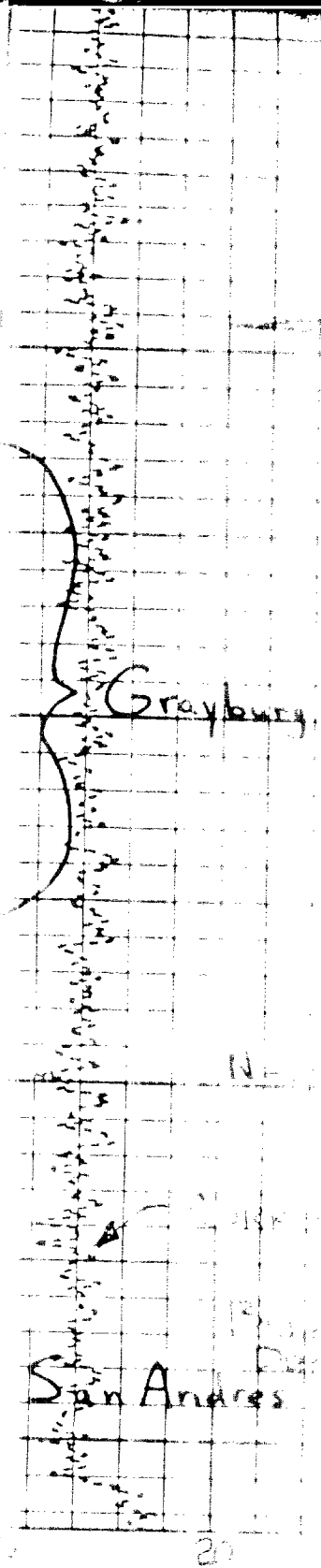
1272

19500
19560
19582

19587
19597

1970
1977

19730



Graybury

San Andres

N

19587

19597

1970

1977

19730

AFFIDAVIT OF PUBLICATION

State of New Mexico,

County of Lea.

I, _____

Robert L. Summers

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not in a supplement thereof for a period

of _____

One _____ weeks.

Beginning with the issue dated

October 4, 19 85

and ending with the issue dated

October 4, 19 85

Robert L. Summers
Publisher.

Sworn and subscribed to before

me this 4 day of

October, 1985

Dora Murphy
Notary Public.

My Commission expires _____

Nov. 14, 1988

(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

23
LEGAL NOTICE
OCTOBER 4, 1985
Lynx Petroleum Consultants, Inc., P. O. Box 1666, Hobbs, NM, 88240, (505) 392-6950, (Gary W. Fonay - Representative), is proposing to convert the State 'BD' No. 2 to a water injection well as an expansion of its existing waterflood. The subject well is located 2310' FNL & 2310' FEL, Section 7, T-17S, R-33E, Lea County, NM. A maximum of 450 barrels of water per day will be disposed of, with a maximum injection pressure of 2900 psi. Injection will be in the Grayburg formation at a depth of 4190' - 4349'. Interested parties must file an objection with the Oil Conservation Division, P. O. Box 2088, Santa Fe, NM, 87501, within 15 days.

Attached below are return receipts showing delivery of this application to the offset operator and the surface owner.

PS Form 3811, July 1983 447-846

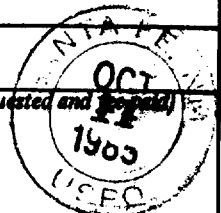
DOMESTIC RETURN RECEIPT

● SENDER: Complete items 1, 2, 3 and 4. Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. <u>The return receipt fee will provide you the name of the person delivered to and the date of delivery.</u> For additional use the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.	
1. ☒ Show to whom, date and address of delivery. 2. ☐ Restricted Delivery	
3. Article Addressed to: SOUTHLAND ROYALTY CO. 21 DESTA DRIVE MIDLAND, TX 79705	
4. Type of Service: ☐ Registered ☐ Insured ☒ Certified ☐ COD ☐ Express Mail	Article Number 019333902
Always obtain signature of addressee or agent and DATE DELIVERED.	
5. Signature - Addressee X <i>P Hood</i>	
6. Signature - Agent X	
7. Date of Delivery 10-10-85	
8. Addressee's Address (ONLY if requested and fee paid)	

PS Form 3811, July 1983 447-846

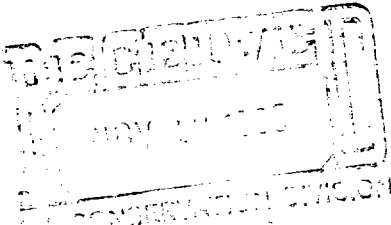
DOMESTIC RETURN RECEIPT

● SENDER: Complete items 1, 2, 3 and 4. Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. <u>The return receipt fee will provide you the name of the person delivered to and the date of delivery.</u> For additional use the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.	
1. ☒ Show to whom, date and address of delivery. 2. ☐ Restricted Delivery	
3. Article Addressed to: NLM STATE LAND OFFICE BOX 1148 SANTA FE, NM 87501	
4. Type of Service: ☐ Registered ☐ Insured ☒ Certified ☐ COD ☐ Express Mail	Article Number 0119333903
Always obtain signature of addressee or agent and DATE DELIVERED.	
5. Signature - Addressee X <i>San Alberto</i>	
6. Signature - Agent X	
7. Date of Delivery	
8. Addressee's Address (ONLY if requested and fee paid)	



Lynx Petroleum Consultants, Inc.

P. O. Box 1666
3325 Enterprise Drive
Hobbs, New Mexico 88240
505 392-6950



November 15, 1985

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

Re: Application for Authorization to Inject
State 'BD' No. 2, Section 7, T-17S, R-33E,
Lea County, New Mexico

Gentlemen:

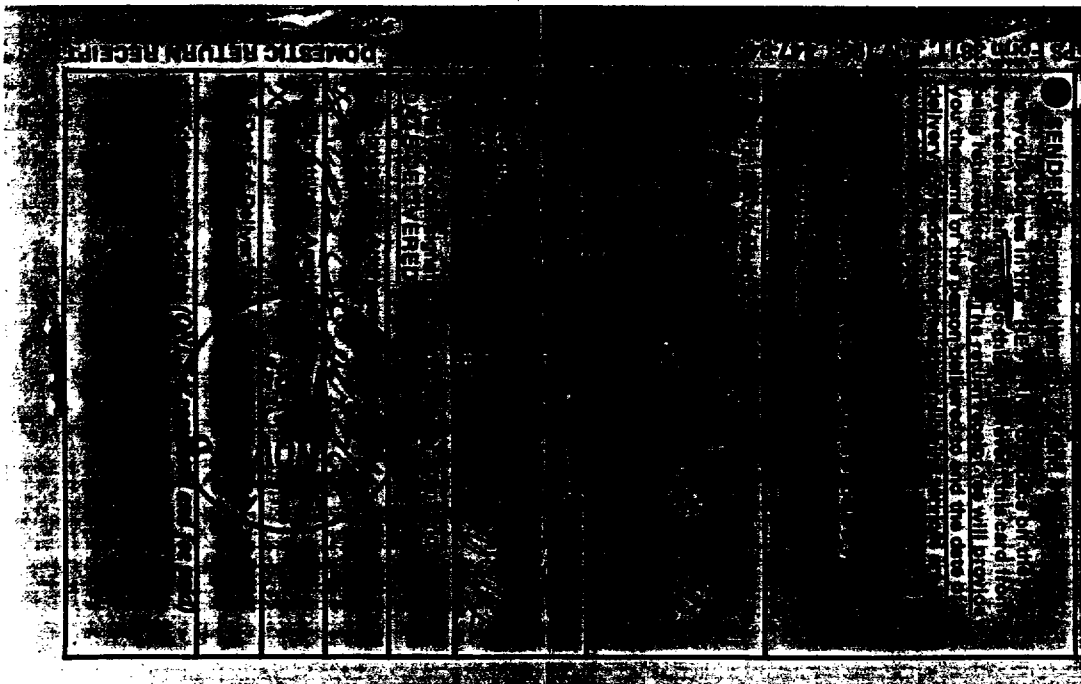
Attached is a return receipt showing delivery of a copy of
the above-referenced application to Shell Oil Company. If
further information is desired, please advise.

Sincerely,
Lynx Petroleum Consultants, Inc.

Gary W. Fonay *SB*

Gary W. Fonay

/sb



SOUTHLAND ROYALTY

Malmar Unit Tract 3 No. 5

1980' FNL & 684' FWL

Spud 2/6/60.

12 1/4" hole to 321'. Ran 8 5/8" 24# csg. Set @ 331'. Cmt w/225 sx.
Cmt circ.

7 7/8" hole to 4517'. Set 5 1/2" 14# csg @ 4527'. Cmt w/300 sx.

TOC @ 3190'.

Perfs 4246-4470'.

Current producer.

SOUTHLAND ROYALTY

Malmar Unit Tract 3 No. 6

1980' FNL & 2029' FWL

Spud 3/18/60.

12 1/4" hole. Ran 294' 8 5/8" 24# csg. Set @ 304'. Cmt w/250 sx.

Circ.

7 7/8" hole. Ran 4458' 5 1/2" 14# csg. Set @ 4494'. Cmt w/300 sx.

TOC @ 3000'.

Perfs 4183-4314'.

Current injector.

SOUTHLAND ROYALTY

Malmar Unit Tract 3 No. 11

1980' FSL & 2029' FWL

Spud 4/22/59.

12 1/4" hole. Ran 303' 8 5/8" 24# csg. Cmt w/250 sx. Circ.

7 7/8" hole. Ran 4864' 5 1/2" 14# csg. Cmt w/400 sx. TOC

@ 2600'.

Perfs 4226-4474'.

Current producer.

SOUTHLAND ROYALTY

Malmar Unit Tract 4 No. 14

1980' FWL & 660' FSL

Spud 9/21/58.

12 1/4" hole. Ran 318' 8 5/8" 24# csg. Cmt w/225 sx. Circ.

7 7/8" hole. Set 5 1/2" 14# csg @ 4490'. Cmt w/550 sx. TOC

@ 2000'.

Perfs 4184-4326'.

Current injector.

SOUTHLAND ROYALTY

Malmar Unit Tract 4 No. 15

660' FSL & 1980' FEL

Spud 6/19/58.

12 1/4" hole. Set 8 5/8" 24# csg @ 310'. Cmt w/300 sx. Circ.

7 7/8" hole. Ran 4497' of 5 1/2" 14# csg. Cmt w/500 sx.

Perfs 4196-4433'.

Current producer.

SOUTHLAND ROYALTY

Malmar Unit Tract 3 No. 12

1980' FSL & 684' FWL

Spud 5/20/59.

12 1/4" hole. Ran 306' 8 5/8" 24# csg. Cmt w/250 sx. Circ.

7 7/8" hole. Ran 4735' 5 1/2" 14# csg. Cmt w/400 sx. TOC @ 2803'.

Perfs 4195-4730'.

Current injector.

SOUTHLAND ROYALTY

Malmar Unit Tract 4 No. 9

1980' FSL & 660' FEL

Spud 11/27/57.

12 1/4" hole. Set 8 5/8" csg @ 306'. Cmt w/200 sx. Circ.

7 7/8" hole. Set 5 1/2" csg @ 4450'. Cmt w/1300 sx. Circ.

Perfs 4216-4337'.

Current producer.

SOUTHLAND ROYALTY

Malmar Unit Tract 4 No. 10

1980' FSL & 1980' FEL

Spud 11/2/58.

11" hole. Set 8 5/8" 32# csg @ 330'. Cmt w/250 sx. Circ.

7 3/4" hole. Set 5 1/2" csg @ 4495'. Cmt w/250 sx. TOC @ 2700'.

Perfs 4293-4424'.

Current injector.

LYNX PETROLEUM CONSULTANTS, INC.

State 'A' No. 1

660' FNL & 1980' FEL

Spud 3/3/43.

15" hole. Set 12 1/2" csg @ 265'. Cmt w/25 sx.

10" hole. Set 8 5/8" csg @ 1267'. Cmt w/50 sx.

7 7/8" hole. Set 5" csg @ 4152'. Cmt w/100 sx.

OH to 4415'.

Currently SI.

LYNX PETROLEUM CONSULTANTS, INC.

State 'A' No. 4

660' FNL & 660' FEL

Spud 7/20/49.

11" hole. Set 8 5/8" csg @ 1400'. Cmt w/132 sx. Circ.

7 7/8" hole. Set 5 1/2" csg @ 4081'. Cmt w/100 sx.

OH to 4569'.

Currently SI.

LYNX PETROLEUM CONSULTANTS, INC.

State 'A' No. 7

990' FNL & 990' FEL

Spud 12/14/57.

12 1/4" hole. Set 8 5/8" csg @ 365'. Cmt w/150 sx.

7 7/8" hole. Set 5 1/2" csg @ 4370'. Cmt w/150 sx.

Perfs 4206-4346'.

Current producer.

C. T. McLAUGHLIN

State 'C' No. 1

1980' FNL & 1980' FEL

Spud 6/18/50.

Set 8 5/8" csg in 10" hole @ 1409'. Cmt w/100 sx.

Set 5 1/2" csg in 7" hole @ 4108'. Cmt w/100 sx.

Drld out to 4385'. Shot OH.

P&A 1/10/52.

Cmt plug 4358-4100'.

Cmt plug 3460-3420'.

Pld 3440' 5 1/2" csg.

Cmt plug 1425-1405'.

Pld 975' 8 5/8" csg.

Cmt @ surf. Mud between plugs.

C. T. McLAUGHLIN

State 'A' No. 2

660' FNL & 1980' FWL

Spud 9/26/43.

15" hole. Set 12 1/2" csg @ 240'. Cmt w/25 sx.

10 3/4" hole. Set 8 5/8" csg @ 1286'. Cmt w/50 sx.

7" hole. Set 5 1/2" csg @ 4120'. Cmt w/100 sx.

TD 4345'. Shot OH.

100' cmt plug 4000-3900'.

Cmt plug 3500-3050'.

Rec 2000' - 5 1/2" csg.

50 sx plug across cut off.

Tagged TOC @ 1800'. Btm @ 2150'.

Spotted plug @ 1331'. Tagged @ 1180'.

Perf @ 350'. Sqz w/120 sx.

Spotted 10 sx @ surf.

LYNX PETROLEUM CONSULTANTS, INC.

State 'BD' No. 1

1980' FNL & 660' FEL

Spud 3/31/59.

12 1/4" hole. 8 5/8" csg set @ 360'. Cmt w/360 sx. Circ.

7 7/8" hole. Set 5 1/2" csg @ 4468'. Cmt w/600 sx. TOC @ 2290'.

Perfs 4213-4362'.

Current producer.

C. T. McLAUGHLIN
STATE 'C' NO. 1
1980' FNL & 1980' FEL

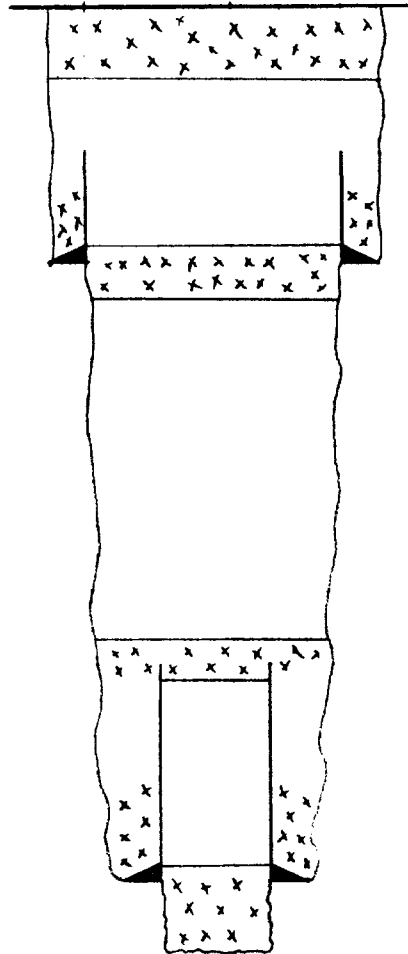
Spud 6/18/50

P&A 1/10/52.
Mud between plugs.
Cmt @ surf.

Cmt 1425-1405'.
Pld 975' 8 5/8" csg.

Cmt 3460-3420'.
Pld 3440' 5 1/2" csg.

Cmt 4358-4100'.



10" hole. Set 8 5/8" csg @ 1409' w/100 sx.

7" hole. Set 5 1/2" csg @ 4108' w/100 sx.

Drld out to 4385'. Shot OH.

C. T. McLAUGHLIN
STATE 'A' NO. 2
660' FNL & 1980' FWL

Spud 9/26/43

Spot 10 sx cmt @ surf.

Perf @ 350'. Sqz
w/120 sx.

Spot plug @ 1331'.
Top @ 1180'.

Rec 2000' - 5 1/2" csg.
50 sx plug across cut off.
Tagged top @ 1800',
btm @ 2150'.

Cmt plug 3500-3050'.

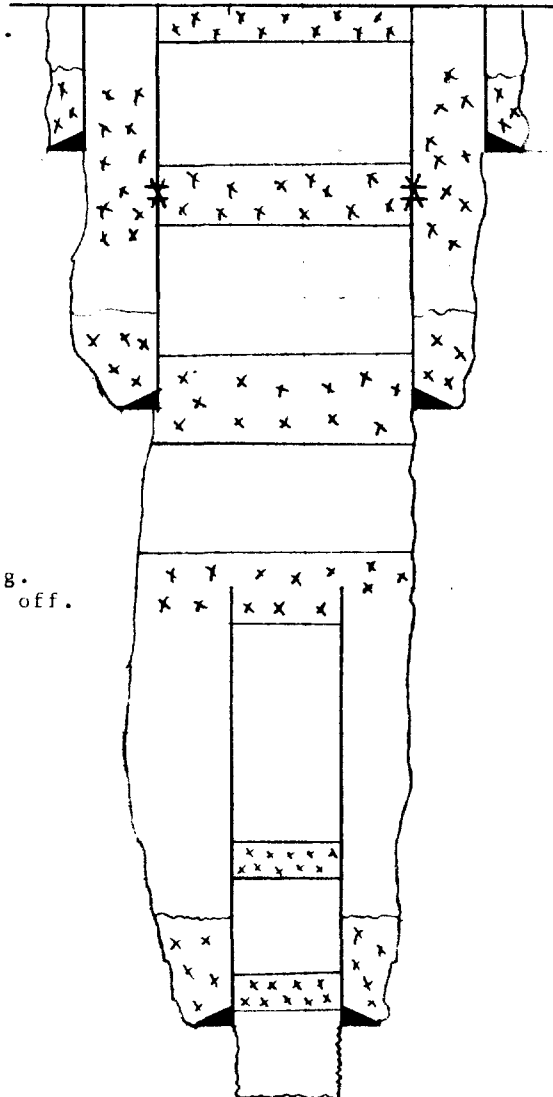
100' plug 4000-3900'.

15" hole. Set 12 1/2" csg @ 240'
w/25 sx.

10 3/4" hole. Set 8 5/8" csg @
1286' w/50 sx.

7" hole. Set 5 1/2" csg @ 4120'
w/100 sx.

TD 4345'. Shot OH.



VII. Proposed Operation

1. Average rate to be 250 BWPD
Maximum rate to be 450 BWPD
2. System is closed.
3. Average injection pressure to be 2500 psi
Maximum injection pressure to be 2900 psi
4. The well will only be used to reinject produced water.

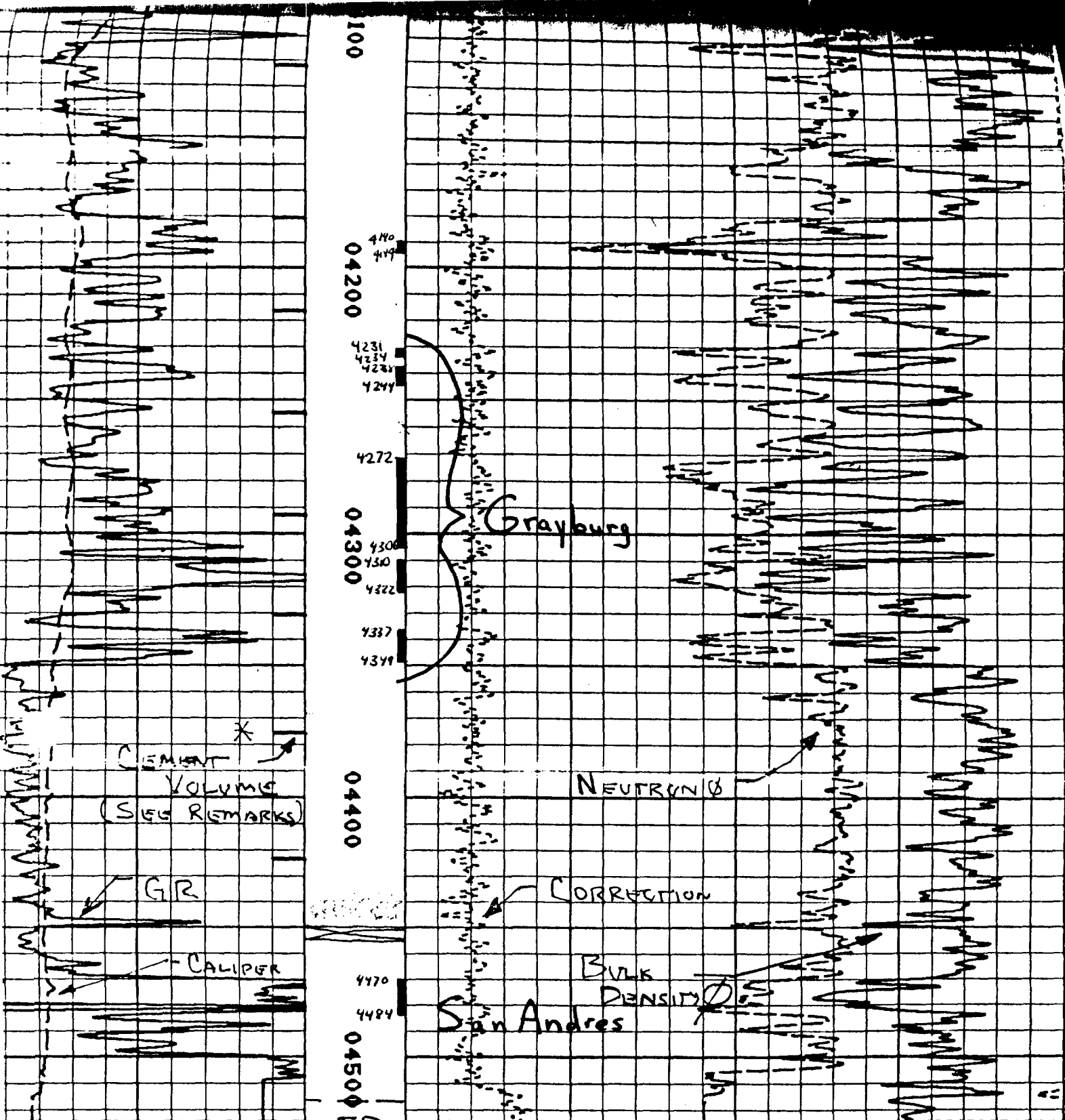
VIII. Previously submitted

IX. None proposed

X. Attached

XI. No fresh water wells

XIII. Attached



State BD No 2
Maljamar (GB-SA)

NO 4/81

WOL (CUFT)

0

CH(%)

30

-10

CORR (G/CC)

-0.2

1.8

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, _____

Robert L. Summers

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not in a supplement thereof for a period

of _____

One weeks.

Beginning with the issue dated

October 4, 1985

and ending with the issue dated

October 4, 1985

Robert L. Summers
Publisher.

Sworn and subscribed to before

me this 4 day of

October, 1985

Dora Murphy
Notary Public.

My Commission expires _____

Nov. 14, 1988
(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

23
LEGAL NOTICE
OCTOBER 4, 1985
Lynn Petroleum Consultants, Inc., P. O. Box 1444, Hobbs, NM, 88240, (505) 375-7888, Gary W. Fonay, Representative, is proposing to convert the State "BD" No. 2 to a water injection well as an expansion of its existing waterflood. The subject well is located 2310' ENL & 2310' FEL, Section 7, T-17S, R-33E, Lea County, NM. A maximum of 450 barrels of water per day will be disposed of with a maximum injection pressure of 2900 psi. Injection will be in the Grayburg formation at a depth of 4190' - 4349'. Interested parties must file an objection with the Oil Conservation Division, P. O. Box 2088, Santa Fe, NM, 87501, within 15 days.

Wells In Area of Review

All wells located in Section 7, T-17S, R-33E

State 'A' No. 2
State 'A' No. 1
State 'A' No. 4
State 'A' No. 7
Malmar Unit Tract 3 No. 5
Malmar Unit Tract 3 No. 6
Malmar Unit Tract 3 No. 11
Malmar Unit Tract 3 No. 12
State 'BD' No. 2
State 'C' No. 1
State 'BD' No. 1
Malmar Unit Tract 4 No. 9
Malmar Unit Tract 4 No. 10
Malmar Unit Tract 4 No. 14
Malmar Unit Tract 4 No. 15

INJECTION WELL DATA SHEET

Lynx Petroleum Consultants, Inc. State 'BD'

OPERATOR	LEASE			
2	2310' FNL & 2310' FEL	7	17S	33E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

SchematicTabular DataSurface CasingSize 8 5/8" @ 977' Cemented with 500 sx.TOC Circ feet determined by _____Hole size 12 1/4"Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long stringSize 5 1/2" Cemented with 1400 sx.TOC 1585 feet determined by temp surveyHole size 7 7/8"Total depth 4518'Injection interval4190 feet to 4349 feet
(perforated ~~on x p o r t x h o l e x x o n d k o n t x x w h x x x~~)

Tubing size 2 3/8" lined with plastic-coated set in a
(material)
Baker Lock-set packer at 3900 feet
(brand and model)

(or describe any other casing-tubing seal).

Other Data1. Name of the injection formation Grayburg2. Name of Field or Pool (if applicable) Maljamar3. Is this a new well drilled for injection? ☐ Yes ☒ NoIf no, for what purpose was the well originally drilled? The well was originally a producer in the same zone but now is only capable of producing water.

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) _____

4470-84' CIBP @ 4450' w/15' cmt on top.5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. None in the immediate area.

[illegible]

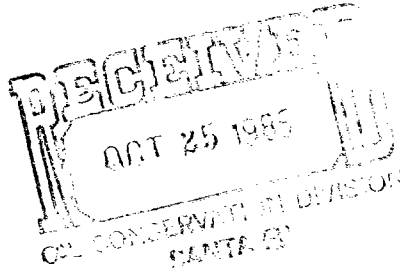


STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE
October 21, 1985

TONEY ANAYA
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161

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



RE: Proposed:

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

Gentlemen:

I have examined the application for the:

Lynx Pet. Consultants, Inc. State BD #2-G 7-17-33
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

O.K. ---J.S.

Yours very truly,

Jerry Sexton
Supervisor, District 1

/mc