



Union Texas
Petroleum

Southwest Division
4000 North Big Spring
Suite 500
Midland, TX 79705
Telephone (915) 684-0600

August 1, 1985

New Mexico Oil Conservation Commission
P.O. Box 2088
Santa Fe, N.M. 87501

RE: Conversion to Water Injection
Langlie Jal Unit Well No. 8
Unit 6, Section 32, T-24-S, R-37-E
Lea County, New Mexico

Gentlemen:

Union Texas Petroleum Corporation respectfully requests permission to convert the referenced well to injection. Enclosed are the necessary forms, including Form C-108 with all its attachments and the sundry form describing our procedure.

We would appreciate your prompt attention, as we are anxious to perform this conversion.

Yours truly,

UNION TEXAS PETROLEUM CORPORATION

A handwritten signature in cursive script that reads 'Shirley S. Jones'.

Shirley S. Jones
Engineering Analyst

SSJ/sst

Attachments

CC: Oil Conservation Commission
P.O. Box 1980
Hobbs, New Mexico 88240

Offset operators

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: Union Texas Petroleum Corporation
Address: 4000 N. Big Spring, Suite 500, Midland, TX 79705
Contact party: Shirley S. Jones Phone: 915-684-06
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☒ yes ☐ no
If yes, give the Division order number authorizing the project R-4051, NOV. 1970.
- 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: Shirley S. Jones Title Engineering Analyst
Signature: Shirley S. Jones Date: August 1, 1985
- * 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. Order No. R-4051, November, 1970.

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.

SUPPLEMENT TO FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
UNION TEXAS PETROLEUM CORPORATION
LANGLIE JAL UNIT

- III WELL DATA: See attached well data sheet.
- V Map attached.
- VI Previously submitted.
- VII Data on proposed Operation:
1. Estimated Average Daily Rate 750 Bbls
Estimated Average Daily Volume 750 Bbls
Estimated Maximum Daily Rate 800 Bbls
Estimated Maximum Daily Volume 1200 Bbls
 2. The system is closed
 3. Estimated Average Injection Pressure 600
Estimated Maximum Injection Pressure 650
 4. Produced water is reinjected plus water from water supply well #1.
 5. Injection is not for disposal purposes.
- VIII This information previously furnished November, 1970, OCC Order No. R-4051.
- IX No stimulation will be required.
- X Logging data previously furnished.
- XI A chemical analysis of water supply well no. 1 is attached.
- XII N/A
- XIII "Proof of Notice" attached. Offset operators and surface owners have been notified by certified mail.

SSJ/cad
5/22/85

INJECTION WELL DATA SHEET
UNION TEXAS PETROLEUM

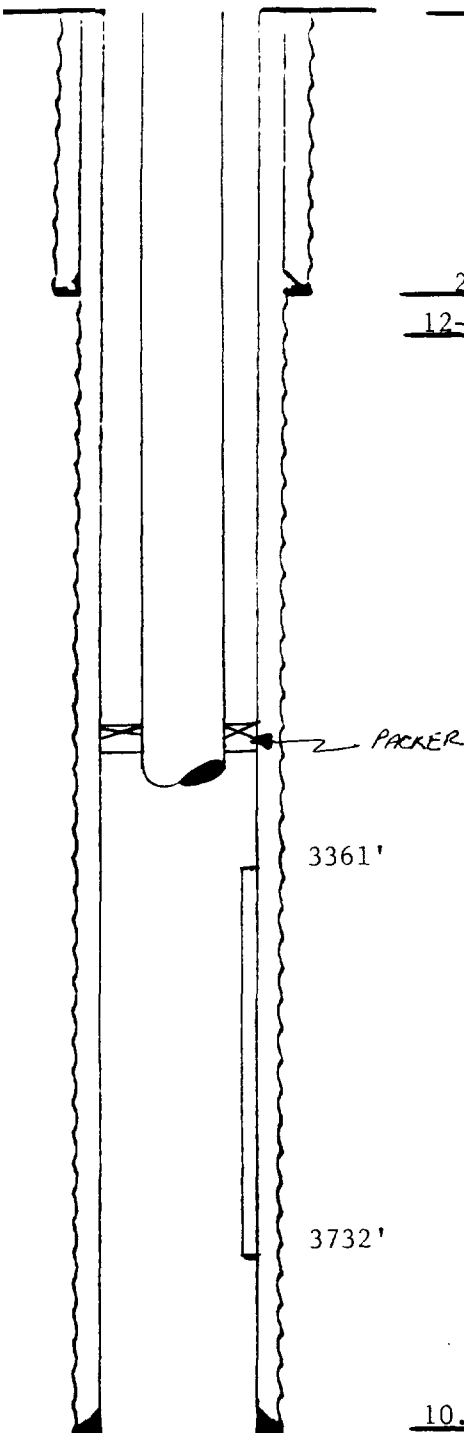
FIELD Langlie Mattix
LEASE Langlie Jal Unit WELL NO. 8
DATE: 5/14/85 SPUDDED: 8/24/74 COMP 9/27/74
ELEV: 3251' G.L. 3261' K. B.
LOCATION: 1930' FNL & 1980' FEL
Section 32, T24S, R37E
Lea County, New Mexico

28 # 8-5/8" CSG. of 820 W/500 SX. _____
12-1/2 " HOLE TOC Surface

Injection Interval

3361 Feet to 3732 Feet

Perforated



10.5 # 4-1/2" CSG. of 3850 W/1300 SX. _____
7-7/8 " HOLE TOC 285'

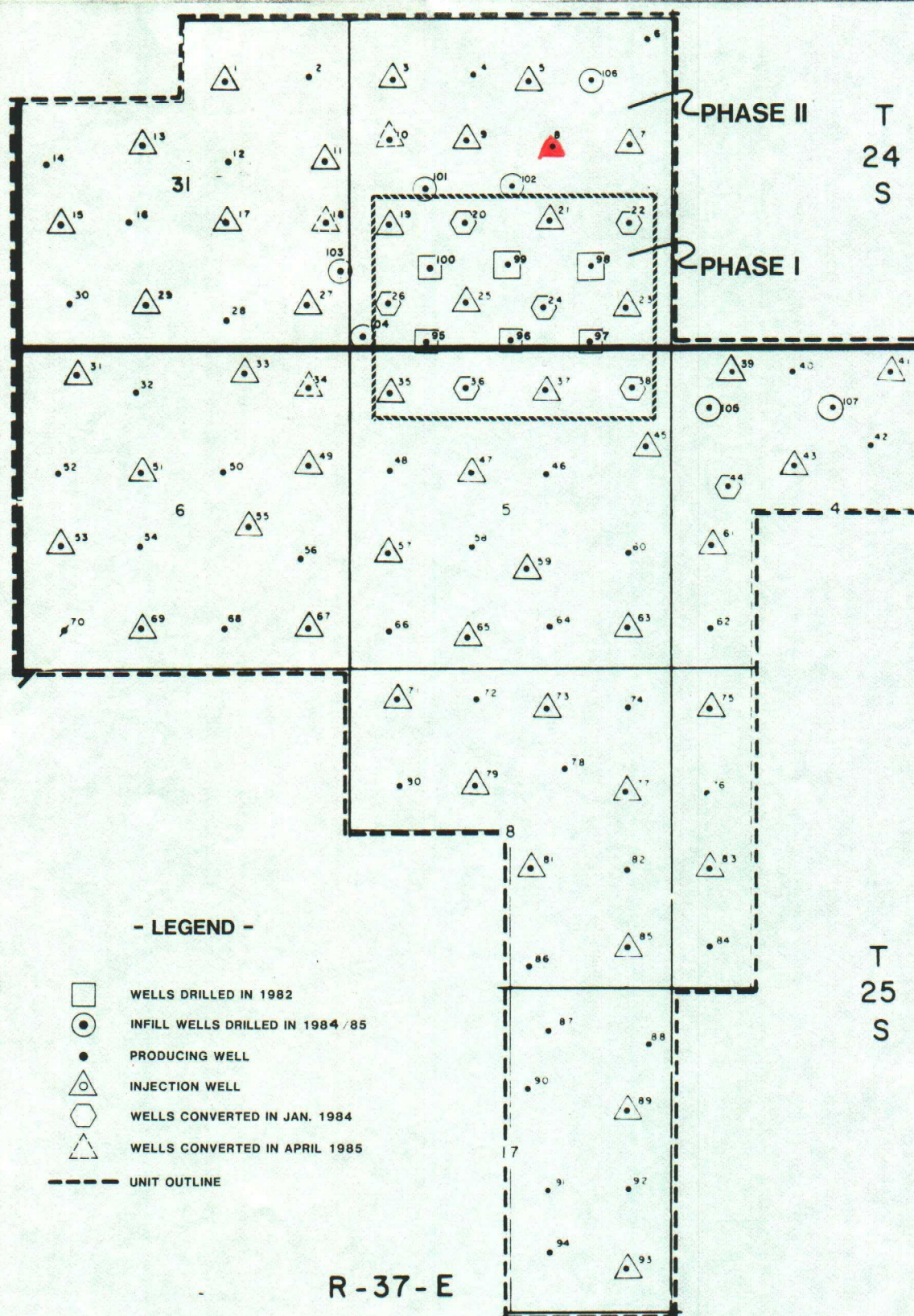
TD 3850'

PBTD 3817'

Tubing size 2-3/8" lined with plastic set in a
(material)
Guiberson Uni-Packer IV packer at 3200 feet
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Seven Rivers-Queen
2. Name of Field or Pool (if applicable) Langlie Mattix
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). No
5. Give the depth to and name of any overlying and/or underlying oil or gas zone (pools) in this area. 3000'/Jalmat



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Form C-103
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
B-1506	

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.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. Unit Agreement Name	
2. Name of Operator		Langlie-Jal Unit	
3. Address of Operator		8. Farm or Lease Name	
000 N. Big Spring, Suite 500 Midland, Texas 79705		9. Well No.	
4. Location of Well		10. Field and Pool, or Wildcat	
UNIT LETTER <u>G</u> 1930 FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM		Langlie-Mattix (Queen)	
THE <u>East</u> LINE, SECTION <u>32</u> TOWNSHIP <u>24-S</u> RANGE <u>37-E</u> NMPM.			
15. Elevation (Show whether DF, RT, GR, etc.)		12. County	
3251 GR		Lea	

16. 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 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"/>	OTHER <u>Convert to injection</u> <input checked="" type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1503.

1. Move in rig up.
2. Trip out production equipment.
3. Clean out to PBTD.
4. Trip in hole with injection packer to 3200'.
5. Circulate packer fluid and set injection packer.
6. Nipple up wellhead.
7. Place on injection.

NOTE: Start date will be immediately after approval.

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

SIGNED Shirley S. Jones TITLE Engineering Analyst DATE 8-1-85

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 88462
SAMPLE RECEIVED 8-1-84
RESULTS REPORTED 8-8-84

TO: Mr. ~~James~~ ~~Farrell~~
P.O. BOX ~~111~~, JAL, ME

COMPANY Union Texas Petroleum Corp. LEASE Langlie Jal Unit
FIELD OR POOL Justia
SECTION BLOCK SURVEY COUNTY Lee STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Produced water - taken from Satellite #1 (well #60). 8-1-84

NO. 2 Produced water - taken from free water knockout inlet. -8-1-84

NO. 3 Produced water - taken from free water knockout outlet. 8-1-84

NO. 4 Produced water - taken from Kem electric outlet. 8-1-84

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0263	1.0256	1.0327	1.0349
pH When Sampled	7.5	7.2	7.2	7.5
pH When Received	7.32	7.16	7.13	7.50
Bicarbonate as HCO ₃	1,122	1,354	1,293	2,111
Supersaturation as CaCO ₃	160	70	60	210
Undersaturation as CaCO ₃	—	—	—	—
Total Hardness as CaCO ₃	6,900	9,400	11,400	12,000
Calcium as Ca	830	760	840	980
Magnesium as Mg	1,172	1,823	2,260	2,321
Sodium and/or Potassium	10,214	9,123	10,830	12,398
Sulfate as SO ₄	1,585	1,524	1,768	1,128
Chloride as Cl	18,820	18,820	22,726	25,567
Iron as Fe	0.31	0.47	1.4	0.23
Barium as Ba	0	0	0	0
Turbidity, Electric	3	9	17	4
Color as Pt	2	2	10	10
Total Solids, Calculated	33,744	33,403	39,717	44,504
Temperature °F.	69	70	70	65
Carbon Dioxide, Calculated	58	149		110
Dissolved Oxygen, Winkler	0.0	0.0	0.0	0.0
Hydrogen Sulfide	800	800	800	1,125
Resistivity, ohms/m at 77° F.	0.232	0.232	0.205	0.177
Suspended Oil	40	79	113	4
Filtrable Solids as mg/l	15.1	8.7	29.8	11.6
Volume Filtered, ml	2,000	2,000	520	740

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

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

June 10, 19 85

and ending with the issue dated

June 10, 19 85

Robert L. Summers
Publisher.

Sworn and subscribed to before

me this 11 day of

June, 19 85
Vera Murphy
Notary Public

My Commission expires _____

Nov. 14, 19 88
(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.

LEGAL NOTICE
Union Texas Petroleum Corporation has submitted applications to the New Mexico Oil Conservation Commission to convert to injection the producing well located in Lea County, New Mexico:

Langlie, Jal Unit No. 8

1936-ENR & 1980-FEB

Sec. 30, T. 24N R. 37E

The above well will be used to inject salt water into the Seven Rivers and Queen formation at perforated intervals of 3661 to 3732'. Injection rate is estimated at a daily rate of 500 barrels with a maximum of 1000 barrels at an estimated injection pressure of 700 psi which exceeds 850 psi, or more to exceed formation fracture pressure.

Interested parties have 15 days from the date of this publication to file an objection or to request a hearing. Objection may be filed by contacting the Oil Conservation Commission, Division, P.O. Box 2088, Santa Fe, New Mexico 87501. Applicant can be contacted by writing Union Texas Petroleum Corporation, 4000 N. Big Spring, Suite 300, Midland, TX 79705 or by calling Shirley Jones at 915-684-0665.

UNION TEXAS
PETROLEUM
CORPORATION
Shirley S. Jones
Engineering Analyst

Offset Operators and Surface Owners

Getty Oil Company
P. O. Box 1231
Midland, Texas 79702

APCO Oil Corporation
210 Park Avenue
1st. National Bank Bldg.
Oklahoma City, Okla. 73101

ARCO Oil & Gas Company
P. O. Box 1610
Midland, Texas 79702

Amerada Hess
P. O. Box 2040
Tulsa, Okla 74102

Doyle Hartman, Inc.
P. O. Box 10406
Midland, Texas 79702

Sun Exploration & Production
P. O. Box 1861
Midland, Texas 79702

Gulf Oil Corporation
P. O. Box 1150
Midland, Texas 79702

El Paso Natural
No. 2 Petroleum Center
Midland, Texas 79701

Terra Resources, Inc.
200 Wall Towers West
Midland, Texas 79701

Westates Italo Co.
1504 One Houston Center
Houston, Texas 77010

Santa Fe Energy
One Security Park
7200 I-40 West
Amarillo, Texas 79106

Phillips Petroleum
4001 Penbrook
Odessa, Texas 79762

Mobil Oil Corporation
P. O. Box 1800
Hobbs, New Mexico 88240

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

PETCO
1100 1st National Bank Bldg.
Houston, Texas 77002

Woolworth Estate
C/O Board of Trustees
Jal, New Mexico 88252

J. T. Crawford
Jal, New Mexico 88252

David Catanaek

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

HOBBS DISTRICT OFFICE

August 8, 1985

TONEY ANAYA
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 333-6161

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

RE: Proposed:

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

Gentlemen:

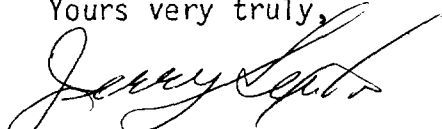
I have examined the application for the:

Union Texas Pet. Corp.	Langlie Jal Unit	No. 8-G	32-24-37
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