**Union Texas Petroleum**

Southwest Division
1300 Wilco Building
Midland, Texas 79701
(915) 684-0600

July 28, 1983



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

Attention: Underground Injection

Re: Application to Inject Salt Water
into underground formation
Milnesand (SA) Unit Well #59
Roosevelt County, New Mexico

Gentlemen:

A copy of the application by Union Texas Petroleum Corporation, to inject salt water into an underground formation, by subject well, has been sent by certified mail to surface owner, Mr. Orbrie Luman, Box 43, Milnesand, New Mexico 88125. There are no other oil operators within 1/2 mile distance of the proposed injection well.

Very truly yours,

UNION TEXAS PETROLEUM CORPORATION

William A. Higgins
Production Services Supervisor

WAH:hb
Attachment

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: [X] Secondary Recovery [ ] Pressure Maintenance [ ] Disposal [ ] Storage
Application qualifies for administrative approval? [X] yes [ ] no

II. Operator: Union Texas Petroleum Corporation

Address: 1300 Wilco Bldg., Midland, Texas 79701

Contact party: W. A. Higgins Phone: 915-684-0619

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? [X] yes [ ] no
If yes, give the Division order number authorizing the project R-3770.

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.

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SEP 10 1983
OIL CONSERVATION DIVISION
SANTA FE

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: W. A. Higgins Title Prod. Services Supervisor

Signature: W. A. Higgins Date: 9-9-83

* 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. 1970 - Secondary Recovery Authority R-3770

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

SUPPLEMENT TO FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT

III. WELL DATA: See attached injection well sheet.

VI. The following wells are located within 1/2 mile of the Milnesand #59:

| WELL NAME | TOTAL DEPTH | COMPLETED AS | CURRENT STATUS |
|---|---|---|---|
| Milnesand #55 | 4697' | San Andres Oil Well | Producing |
| Milnesand #58 | 4707' | San Andres Oil Well | Producing |
| Milnesand #161 | 4700' | San Andres Oil Well | Producing |
| Milnesand #515 | 4800' | San Andres Oil Well | Producing |
| Milnesand #522 | 4750' | San Andres Oil Well | Producing |
| Milnesand #525 | 4750' | San Andres Oil Well | Producing |

A wellbore sketch of each is attached which shows each well construction.

VII. Data on proposed operation:

1. Estimated Average Daily Rate 300 BWPD
   Estimated Average Daily Volume 1400 BWPD
   Estimated Maximum Daily Rate 500 BWPD
   Estimated Maximum Daily Volume 1800 BWPD
2. The System is Closed.
3. Estimated Average Injection Pressure 1400 psi
   Estimated Maximum Injection Pressure 1800 psi
   Step rate tests in this area of the field have shown the formation parts above 1800 psi surface pressure.
4. Produced water is reinjected plus water purchased from Mobil's crossroads water station.
5. Injection is not for disposal purposes.

VIII. This information furnished September, 1970, Case #4433, OCC Order #R-3770-A.

IX. Well stimulated with 3000 gallons 15% NEFE acid, avg. rate 5 BPM at 1000 psi with max pressure of 1600 psi.

X. Logging data previously furnished. Welex radioactivity Log 4-6-62

XI. There are no fresh water producing wells in this area.

XII. This well is for water injection purposes only.

XIII. Proof of notice attached.

# *Affidavit of Publication*

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**LEGAL NOTICE**

Union Texas Petroleum Corporation has submitted an application to the New Mexico Conservation Commission to inject salt water into the San Andres formation by means of an injection well located 660' FNL & 1980' FEL of Section 13, T8S, R34E, Roosevelt County, New Mexico. This application is located in the Milnesand (SA) Unit which is an established waterflood. The zone of injection will be through casing perforations 4580' to 4623' by means of tubing set in a casing packer. Injection rate is estimated at 300 barrels per day with an estimated pressure of 1450 psi not to exceed a maximum of 1800 psi.

Interested parties have 15 days from the date of this publication to file an objection or to request a hearing. Objections may be filed by contacting the Oil Conservation Commission Division office, P.O. Box 2088, Sant a Fe, New Mexico 87501.

Union Texas Petroleum Corporation
William A. Higgins
Production Services Supervisor

Published in the Portales News-Tribune August 2, 1983. Legal #6180.

I, Marshall Stinnett

Business Manager of

**THE PORTALES NEWS-TRIBUNE**

a newspaper of general paid circulation and entered under second class postal privilege in Roosevelt County, published daily, (except Saturday) at Portales, New Mexico, for the fifty-two (52) consecutive weeks preceding this date, do solemnly swear that a copy of the above notice, as per clipping attached, was published weekly in the regular and entire issue of said newspaper, and not in any supplement thereof for 1 consecutive weeks commencing with the issue dated August 2 19 83

and ending with the issue dated August 2 19 83

All publication costs having been paid.

Marshall Stinnett

Subscribed and sworn to before me this 2nd day of August 19 83

Le Marie Barnett
NOTARY PUBLIC

My commission expires 3/7/87 19

P 220 608 022

# RECEIPT FOR CERTIFIED MAIL

**NO INSURANCE COVERAGE PROVIDED—**
**NOT FOR INTERNATIONAL MAIL**
(See Reverse)

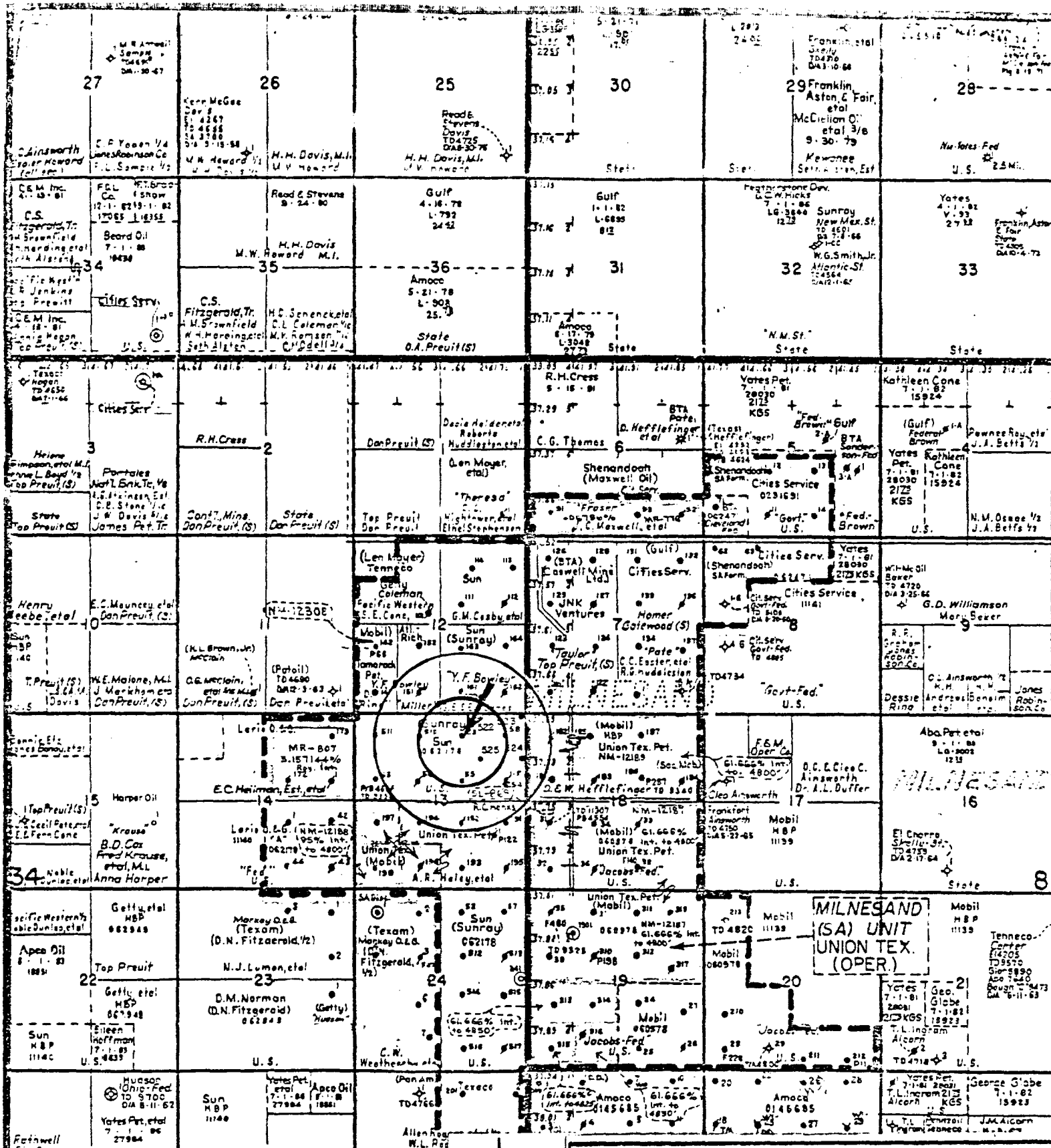
SENT TO
Mr. Orbrie Lamar

STREET AND NO.
P.O. Box 43

P.O. STATE AND ZIP CODE
Richland, Miss. 39218

| | | | | |
|---|---|---|---|---|
| POSTAGE | | | | $ |
| CONSULT POSTMASTER FOR FEES | CERTIFIED FEE | | | ¢ |
| | OPTIONAL SERVICES | SPECIAL DELIVERY | | ¢ |
| | | RESTRICTED DELIVERY | | ¢ |
| | | RETURN RECEIPT SERVICE | SHOW TO WHOM AND DATE DELIVERED | ¢ |
| | | | SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY | ¢ |
| | | | SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY | ¢ |
| | | | SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY | ¢ |
| TOTAL POSTAGE AND FEES | | | | $ |
| POSTMARK OR DATE | | | | |

PS Form 3800, Apr. 1976




# UNION TEXAS PETROLEUM CORPORATION

## MILNESAND (SA) UNIT

## ROOSEVELT CO., NEW MEXICO

## PROPOSED INJECTION WELL #59

SCALE IN FEET

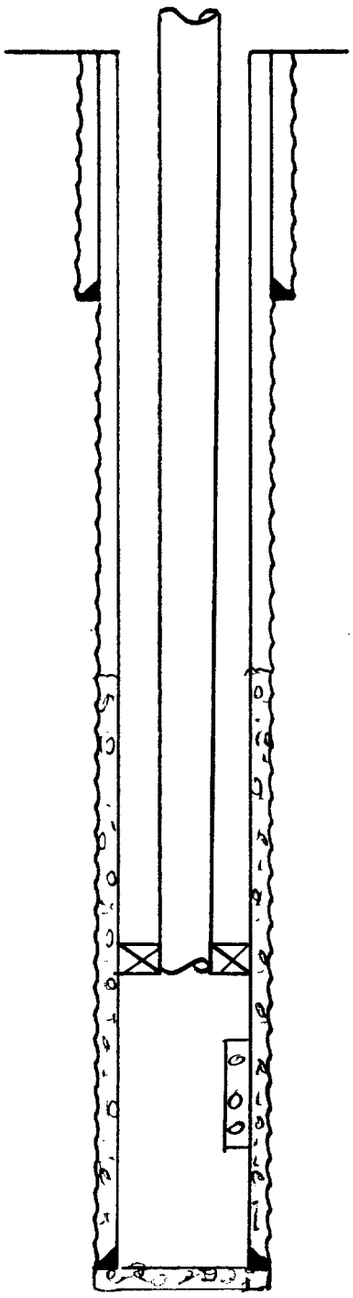
4000 0 4000 8000

W.A.H. SOUTHWEST DIVISION 7-83

INJECTION WELL DATA SHEET

# UNION TEXAS PETROLEUM

FIELD: Milnesand (SAN ANDRES)
LEASE: Milnesand (SA) Unit WELL NO. 59
DATE: 8/83 SPUDDED: 3-25-62 COMP. 4-11-62
ELEV.: 4250' GL
LOCATION: 660' FNL & 1980' FEL
Sec. 13, T-8-S, R-34-E
Roosevelt County, N. M.



24 # 8 5/8" CSG. at 360' W/ 360 SX.
12 1/4" HOLE TOC Surface - Circulation

Injection Interval
4580' - 4623', perforated

9.5 # 4 1/2" CSG. at 4697 W/ 200 SX.
6 3/4" HOLE TOC 3630 - Temp. Survey
TD 4700
PBTD

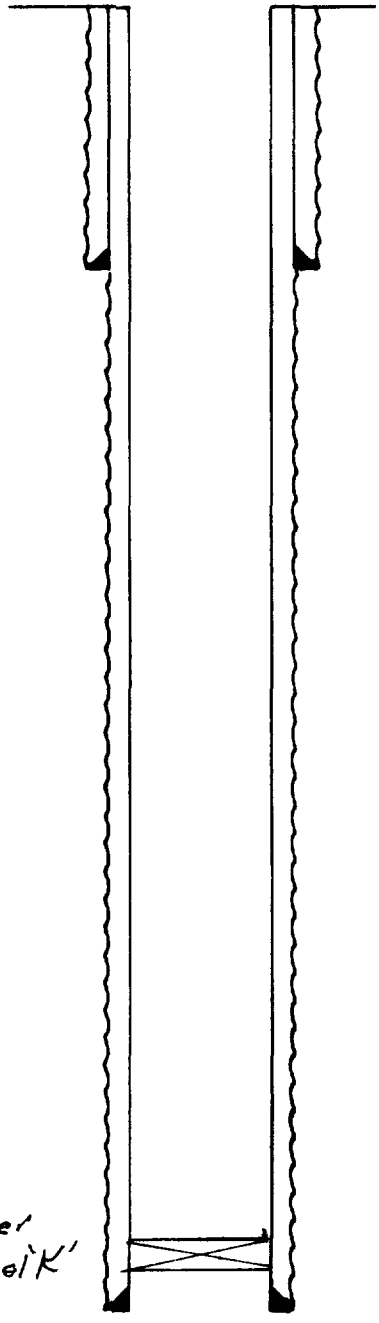
Tubing size 2 3/8" lined with plastic (material) set in a
Baker Lok-Set (brand and model) packer at 4500 feet.
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres
2. Name of Field or Pool (if applicable) Milnesand
3. Is this a new well drilled for injection? ☐ Yes ☒ 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 zones (pools) in this area.

UNION TEXAS PETROLEUM

FIELD: Milnesand (San Andres)
LEASE: Milnesand (SA) Unit WELL NO. 55
DATE: 8/83 SPUDDED: 2/62 COMP. 2/62
ELEV.: 4242 GL
LOCATION: 1980 FSL & 1980 FWL
Sec. 13 T-8-S R-34-E
Roosevelt County, N. M.




24 # 8 5/8" CSG. at 372 W/ 225 SX. Cement
11 " HOLE TOC Surface

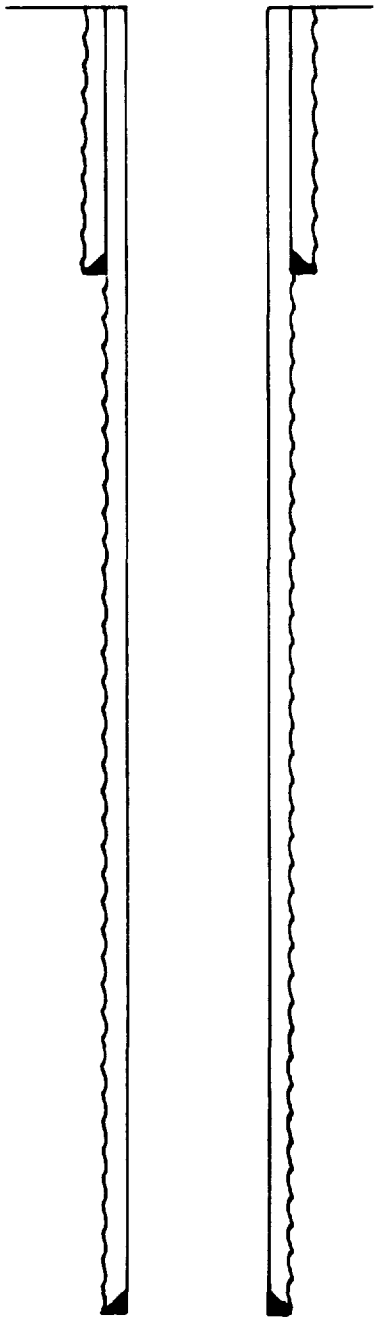
Producing from San Andres Perfs
4555 - 4625'

9.5 # 4 1/2" CSG. at 4697 W/ 300 SX. Cement
7 7/8 " HOLE TOC 3800'

TD 4697
PBTD 4636

UNION TEXAS PETROLEUM

FIELD: Milnesand (San Andres)
LEASE: Milnesand (SA) Unit WELL NO. 58
DATE: 8/83 SPUDDED: 3/62 COMP. 3/62
ELEV.: 4244 GL
LOCATION: 660 FNL & 660 FEL
Sec. 19, T-8-S R-34-E
Roosevelt County, N. M.



24 # 8 5/8" CSG. at 350 W/ 250 SX.
12 1/4" HOLE TOC Surface

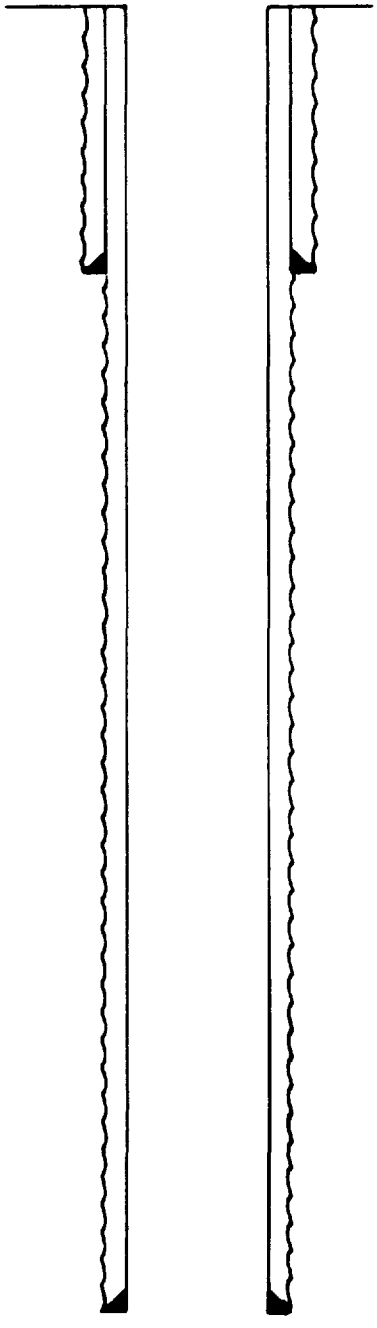
Producing from San Andres Perfs
4559- 4630.

9.5 # 4 1/2" CSG. at 4700 W/ 200 SX.
7 7/8" HOLE TOC 3660

TD 4700
PBTD 4694

UNION TEXAS PETROLEUM

FIELD: Milnesand (San Andres)
LEASE: Milnesand (SA) Unit WELL NO. 161
DATE: 8/83 SPUDDED: 9/62 COMP. 10/62
ELEV.: 4247 GL
LOCATION: 664' FSL & 1980' FEL
Sec. 12, T-8-S R-34-E
Roosevelt County, N. M.



24 # 8 5/8" CSG. at 355 W/ 225 SX.
12 1/4 " HOLE TOC Surface

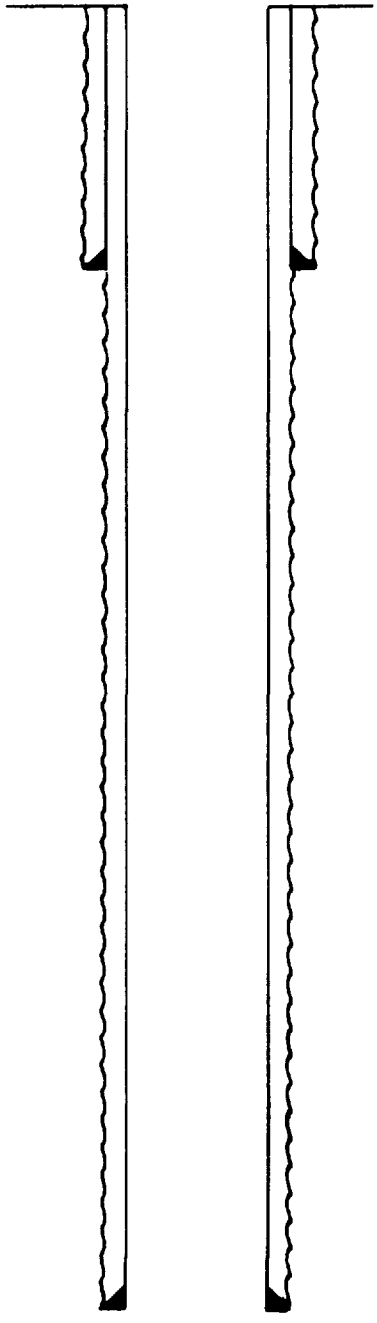
Producing from San Andres Perfs
4585 - 4632'.

9.5 # 4 1/2" CSG. at 4700 W/ 200 SX.
7 7/8 " HOLE TOC 3890

TD 4700
PBTD

UNION TEXAS PETROLEUM

FIELD: Milnesand (San Andres)
LEASE: Milnesand (SA) Unit WELL NO. 515
DATE: 8/83 SPUDDED: 12/22 COMP. 1/3/22
ELEV.: 4239 DF
LOCATION: 1980' FSL & 660 FEL
Sec. 24, T-8-S, R-34-E
Roosevelt County, N. M.



24 # 8 5/8" CSG. at 359 W/ 225 SX.
12 1/4 " HOLE TOC Surface

Producing from San Andres Perfs
4662 - 4741

9.5 # 4 1/2" CSG. at 4800 W/ 225 SX.
7 7/8 " HOLE TOC 3990

TD 4800
PBTD

UNION TEXAS PETROLEUM

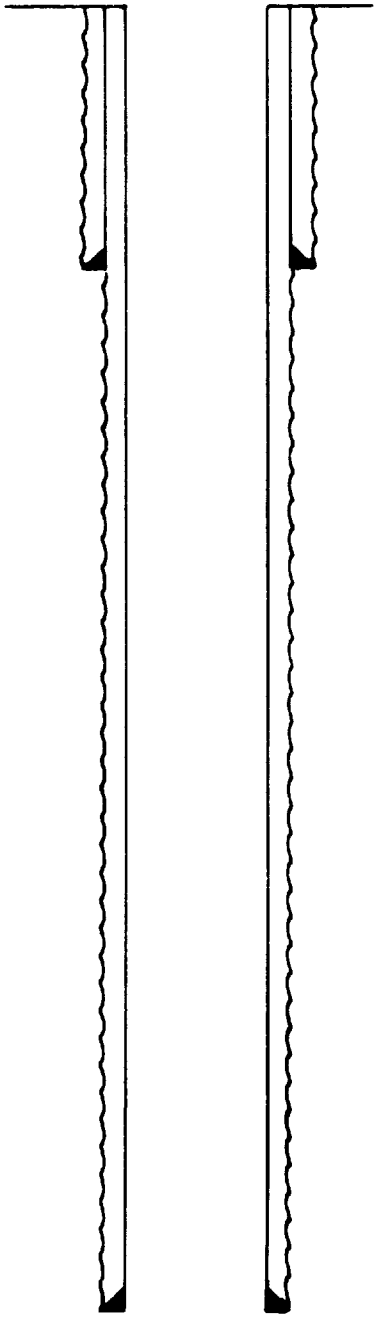
FIELD: Milnesand (San Andres)

LEASE: Milnesand (SA) Unit WELL NO. 522

DATE: 8/83 SPUDDED: 4/82 COMP. 4/82

ELEV.: 4247 GR

LOCATION: 90' FNL & 1360' FEL
Sec. 13, T-8-S, R-34-E
Roosevelt County, N.M.



24 # 8-5/8" CSG. at 378 W/ 300 SX.
12¼" HOLE TOC Surface

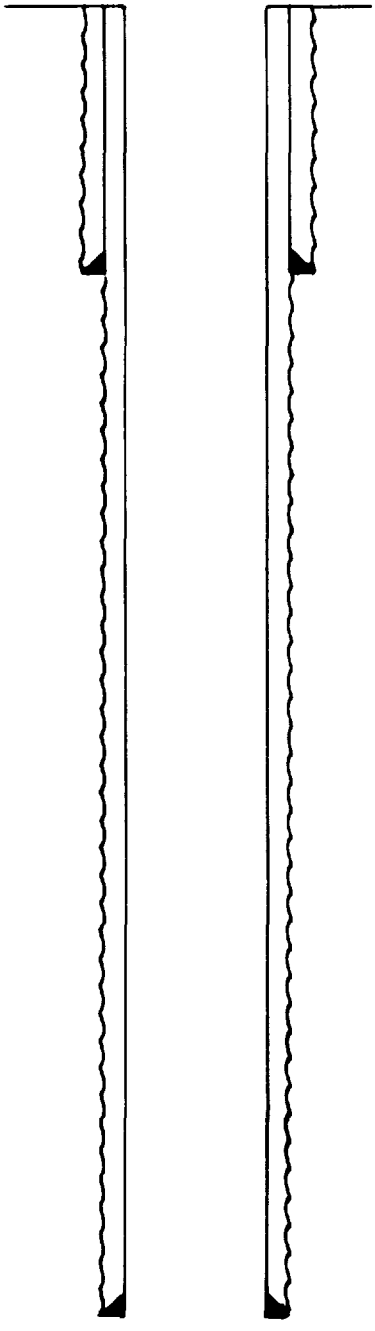
Producing from San Andres Perfs
4529-4625'.

14 # 5½" CSG. at 4750 W/ 1290 SX.
7⅞" HOLE TOC 2110

TD 4750
PBTD

UNION TEXAS PETROLEUM

FIELD: Milnesand (San Andres)
LEASE: Milnesand (SA) Unit WELL NO. 525
DATE: 8/82 SPUDDED: 5/82 COMP. 6/82
ELEV.: 4244 GL
LOCATION: 1260' FNL & 1310 FEL
Sec. 13, T-8-S, R-34-E
Roosevelt County, N.M.



24 # 8 5/8" CSG. at 408 W/ 220 SX.
12 1/4" HOLE TOC Surface

Producing from San Andres Perfs 4549-4622'.

14 # 5 1/2" CSG. at 4750 W/ 700 SX.
7 7/8" HOLE TOC 3750

TD 4750
PBTD —