

SWD

4/21/99

FORM C-108  
Revised 4-1-98

745

**APPLICATION FOR AUTHORIZATION TO INJECT**

I. PURPOSE: Secondary Recovery Pressure Maintenance  Disposal  Storage  
Application qualifies for administrative approval? Yes No

II. OPERATOR: Turrentine Oil & Gas Inc.

ADDRESS: P.O. Box 11173 Midland, TX 79702

CONTACT PARTY: David Turrentine PHONE: (915) 687-1833

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 APR - 6 1999  
If yes, give the Division order number authorizing the project: \_\_\_\_\_

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:  
1. Proposed average and maximum daily rate and volume of fluids to be injected;  
2. Whether the system is open or closed;  
3. Proposed average and maximum injection pressure;  
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,  
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

\*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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: Eddie W. Seay TITLE: Agent

SIGNATURE: Eddie W. Seay DATE: 3-29-99

\* 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 circumstances of the earlier submittal: 9-8-81

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

### 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 the 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, 2040 South Pacheco, Santa Fe, New Mexico 87505, within 15 days.

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

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**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.

**INJECTION WELL DATA SHEET**

OPERATOR: Brazos Petroleum Co.

WELL NAME & NUMBER: Coastal State #1

WELL LOCATION: 660/N 660/W D 32 9-S 38-E  
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

**WELLBORE SCHEMATIC**

**WELL CONSTRUCTION DATA**

Surface Casing

Hole Size: 12 1/4 Casing Size: 8 5/8

Cemented with: 300 sx. or ft<sup>3</sup>

Top of Cement: circ Method Determined: cement to surface

Intermediate Casing

none

Hole Size: \_\_\_\_\_ Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_ sx. or ft<sup>3</sup>

Top of Cement: \_\_\_\_\_ Method Determined: \_\_\_\_\_

Production Casing

Hole Size: 7 7/8 Casing Size: 4 1/2

Cemented with: 1100 sx. or ft<sup>3</sup>

Top of Cement: surface Method Determined: circ 65 sx to surface

Total Depth: 5022

Injection Interval

4730 feet to 5000

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: IPC, Plastic coated

Type of Packer: Baker Tension

Packer Setting Depth: 4650

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? Yes  No   
If no, for what purpose was the well originally drilled? Oil

2. Name of the Injection Formation: San Andres

3. Name of Field or Pool (if applicable): Sawyer San Andres

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No.  
Attached on Schematic

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Yates at 2910  
Glorieta 6300

**FORM C-108**  
**APPLICATION FOR AUTHORIZATION TO INJECT**

- V. Map attached.
- VI. Attached.
- VII. (1) The average rate of injection will be approximately 400 bbl. per day, with a maximum of 800 bbl. per day.  
(2) The system will be closed.  
(3) The average pressure will be 400 to 600 psi with a maximum of 1000 psi or not to exceed OCD limit.  
(4) The source of water will be from existing San Andres production in section 28, 29, 30.  
(5) Waters from the San Andres formation range in chloride content from 47,000 to 130,000 ppm and this is what is going to be injected. This was obtained from OCD records, Hobbs office.
- VIII. The San Andres formation is made up of dolomite, gypsum and reddish mudstone and ranges in depth from 4300 to 5000 ft. The fresh water aquifer in the area is the Ogallala which is found from 125 to 250 ft. State Engineer and OCD data attached.
- IX. No major stimulation is proposed, only acid as needed.
- X. Previously submitted.
- XI. Attached.
- XII. All available geologic and engineering data has been examined and no evidence of open faults or any other hydrologic connection between the injection zone and underground source of drinking water was found.
- XIII. Attached.

March 24, 1999

Dear Sir:

Pursuant to the rules and regulations of the State of New Mexico, Oil Conservation Division, Santa Fe, NM, notice is hereby given that Turrentine Oil & Gas Inc. is filing application to re-enter and convert its' Coastal State #1 well, located 660/N 660/W in Unit D, Sect. 32, Tws. 9-S, Range 38-E to salt water disposal. The source of injection will be produced water. Injecting approximately 400 bls. per day at 600 psi into the San Andres formation at a depth of 4700' to 5000'.

Any questions or objections must be filed with the Oil Conservation Division at 2040 South Pacheco, Santa Fe, NM 87505 within 15 days.

Sincerely,

Eddie W. Seay, Agent  
601 W. Illinois  
Hobbs, NM 88242  
(505)392-2236

Z 577 002 399

Z 577 002 396

Z 577 002 398

US Postal Service  
Receipt for Certified Mail

No Insurance Coverage Provided.  
Do not use for International Mail (See reverse)

Sent to	BLM
Special Member	P.O. Box 1778
Postage	Postmark or Date
Certified Fee	\$ 4
Special Delivery Fee	0
Restricted Delivery Fee	0
Return Receipt Showing to Whom & Date Delivered	USPS
Return Receipt Showing to Whom, Date, & Addressee's Address	Postmark or Date
TOTAL Postage & Fees	\$ 3.64

PS Form 3800, April 1995

US Postal Service  
Receipt for Certified Mail

No Insurance Coverage Provided.  
Do not use for International Mail (See reverse)

Sent to	Turrentine Oil & Gas, Inc.
Special Member	P.O. Box 11173
Postage	Postmark or Date
Certified Fee	\$ 4
Special Delivery Fee	0
Restricted Delivery Fee	0
Return Receipt Showing to Whom & Date Delivered	USPS
Return Receipt Showing to Whom, Date, & Addressee's Address	Postmark or Date
TOTAL Postage & Fees	\$ 3.64

PS Form 3800, April 1995

US Postal Service  
Receipt for Certified Mail

No Insurance Coverage Provided.  
Do not use for International Mail (See reverse)

Sent to	State Land Office
Special Member	1101 Old Santa Fe Trail
Postage	Postmark or Date
Certified Fee	\$ 4
Special Delivery Fee	0
Restricted Delivery Fee	0
Return Receipt Showing to Whom & Date Delivered	USPS
Return Receipt Showing to Whom, Date, & Addressee's Address	Postmark or Date
TOTAL Postage & Fees	\$ 3.64

PS Form 3800, April 1995

766 200 225 7

704 200 225 7

014 200 225 7

US Postal Service  
Receipt for Certified Mail

No Insurance Coverage Provided.  
Do not use for International Mail (See reverse)

Sent to	Brazos Petroleum Co.
Special Member	P.O. Box 1782
Postage	Postmark or Date
Certified Fee	\$ 4
Special Delivery Fee	0
Restricted Delivery Fee	0
Return Receipt Showing to Whom & Date Delivered	USPS
Return Receipt Showing to Whom, Date, & Addressee's Address	Postmark or Date
TOTAL Postage & Fees	\$ 3.93

Form 3800, April 1995

US Postal Service  
Receipt for Certified Mail

No Insurance Coverage Provided.  
Do not use for International Mail (See reverse)

Sent to	Davco Inc.
Special Member	2124 Broadway
Postage	Postmark or Date
Certified Fee	\$ 4
Special Delivery Fee	0
Restricted Delivery Fee	0
Return Receipt Showing to Whom & Date Delivered	USPS
Return Receipt Showing to Whom, Date, & Addressee's Address	Postmark or Date
TOTAL Postage & Fees	\$ 3.93

PS Form 3800, April 1995

US Postal Service  
Receipt for Certified Mail

No Insurance Coverage Provided.  
Do not use for International Mail (See reverse)

Sent to	Dyco Petroleum Corp.
Special Member	320 S. Boston, Suite 420
Postage	Postmark or Date
Certified Fee	\$ 4
Special Delivery Fee	0
Restricted Delivery Fee	0
Return Receipt Showing to Whom & Date Delivered	USPS
Return Receipt Showing to Whom, Date, & Addressee's Address	Postmark or Date
TOTAL Postage & Fees	\$ 3.73

PS Form 3800, April 1995

## **LEGAL NOTICE**

Pursuant to the rules and regulations of the State of New Mexico, Oil Conservation Division, Santa Fe, NM, notice is hereby given that Turrentine Oil & Gas Inc. is filing application to re-enter and convert its' Coastal State #1 well, located 660/N 660/W in Unit D, Sect. 32, Tws. 9-S, Range 38-E to salt water disposal. The source of injection will be produced water. Injecting approximately 400 bls. per day at 600 psi into the San Andres formation at a depth of 4700' to 5000'. Any further information, please contact Eddie W. Seay, 601 W. Illinois, Hobbs, NM 88242, (505)392-2236.

Any questions or objections must be filed with the Oil Conservation Division at 2040 South Pacheco, Santa Fe, NM 87505 within 15 days.

# Affidavit of Publication

STATE OF NEW MEXICO )  
 ) ss.  
COUNTY OF LEA )

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

### LEGAL NOTICE

Pursuant to the rules and regulations of the State of New Mexico, Oil Conservation Division, Santa Fe, NM, notice is hereby given that Turrentine Oil & Gas Inc. is filing application to re-enter and convert its Coastal State #1 well, located 660/N 660/W in Unit D, Sect. 32., Tws. 9-S, Range 38-E to salt water disposal. The source of injection will be produced water. Injecting approximately 400 bls. per day at 600 psi into the San Andres formation at a depth of 4700' to 5000'. Any further information, please contact Eddie W. Seay, 601 W. Illinois, Hobbs, NM 88242, (505) 392-2236.

Any questions or objections must be filed with the Oil Conservation Division at 2040 South Pacheco, Santa Fe, NM 87505 within 15 days.

Published in the Lovington Daily Leader March 30, 1999.

That the notice which is hereto attached, entitled  
Legal Notice

~~and xxxxxxxxxx~~ ..... ~~xxxxxxx~~  
..... ~~Court of Lea~~  
~~County, New Mexico~~, was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, ~~once each week on the same day of the week~~, for One (1) Day

~~consecutive weeks~~ beginning with the issue of .....  
March 30 99

and ending with the issue of .....  
March 30 99

And that the cost of publishing said notice is the sum of \$ 16.34

which sum has been (Paid) (~~Assessed~~) as Court Costs

*Joyce Clemens*  
.....  
Subscribed and sworn to before me this .....

day of March 30, 19 99

*Debbie Schilling*  
.....  
Notary Public, Lea County, New Mexico

My Commission Expires June 22, ~~19~~ 2002

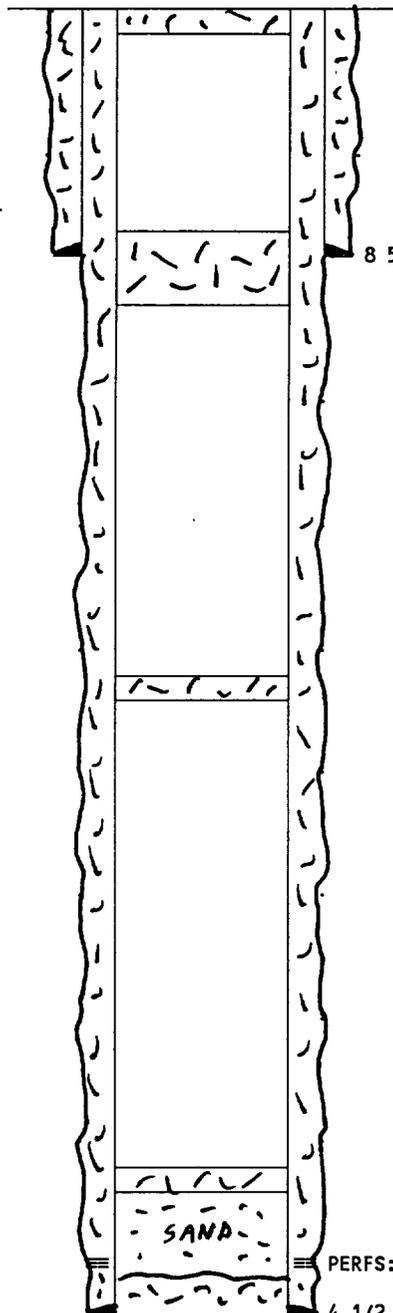
BRAZOS PET CO  
COASTAL STATE # 1

1sxs PLUG 10-0

8sxs PLUG 470-354

8sxs PLUG 2500-2384

8sxs PLUG 4900-4784



8 5/8 @ 425

PERFS: 4917 TO 4998

4 1/2 @ 5022  
TD 5022

UNIT: D SEC 32 T 9 S R 38 E  
660/FNL 660/FWL  
TD: 5022  
API NUMBER: 30-025-27507

TABULAR DATA

SURFACE CASING  
SIZE: 8 5/8 SET AT: 425  
HOLE SIZE: 12 1/4  
CEMENTED WITH 300 SXS  
TOC: SURFACE  
TOC DETERMINED BY: CIRC 35sxs SURF

PRODUCTION CASING  
SIZE: 4 1/2 SET AT: 5022  
HOLE SIZE: 7 7/8  
CEMENTED WITH 1100 SXS  
TOC: SURFACE  
TOC DETERMINED BY: CIRC 65sxs SURF

PRODUCING INTERVAL: SAN ANDRES  
POOL: SAWYER;SAN ANDRES (ASSOC)  
PERFS: 4917 TO 4998

COMMENTS:  
TOP RUSTLER 2308  
TOP YATES 2910  
TOP SAN ANDRES 4295

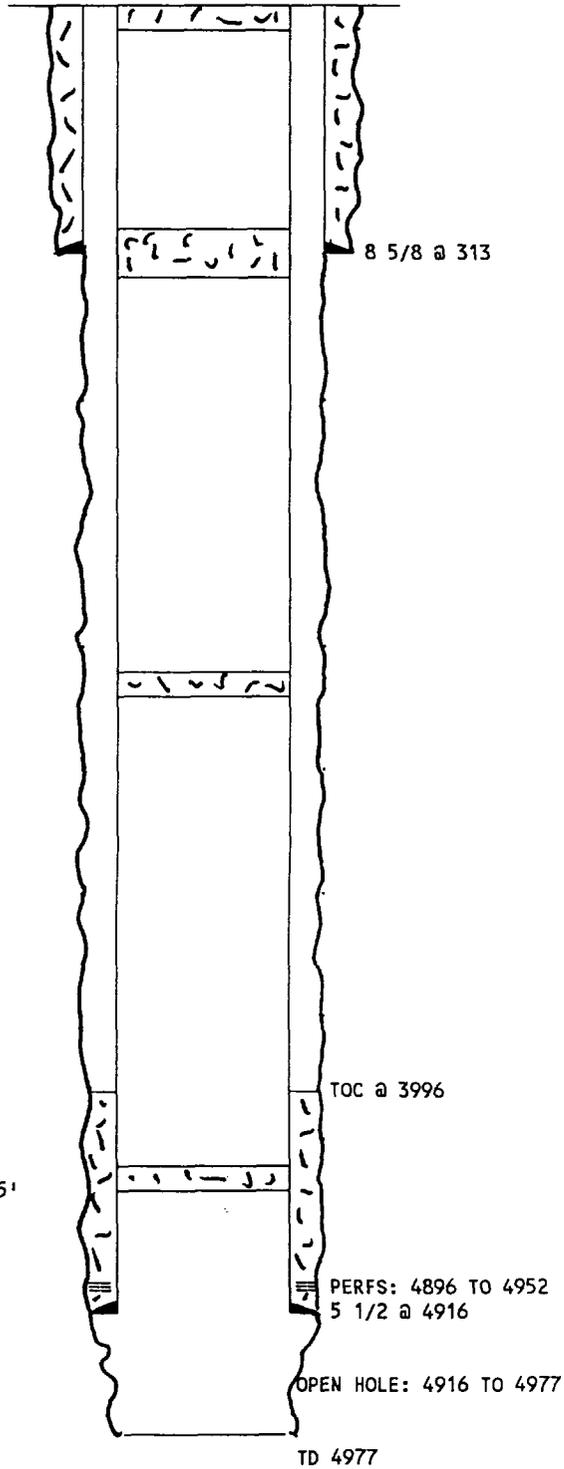
DYCO PETROLEUM CORP  
UNION FEDERAL # 3

10sxs SURFACE PLUG

30sxs PLUG 400-300

25sxs PLUG 2500-2300

CIBP @ 4800 CAPPED W/ 35'



UNIT: H SEC 31 T 9 S R 38 E  
1980/FNL 660/FEL  
TD: 4977  
API NUMBER: 30-025-07076

TABULAR DATA

SURFACE CASING \_\_\_\_\_  
SIZE: 8 5/8 SET AT: 313  
HOLE SIZE:  
CEMENTED WITH 175 SXS  
TOC: SURFACE  
TOC DETERMINED BY: CEMENT CIRC SURF

PRODUCTION CASING \_\_\_\_\_  
SIZE: 5 1/2 SET AT: 4916  
HOLE SIZE: 7 7/8  
CEMENTED WITH 200 SXS  
TOC: 3996  
TOC DETERMINED BY: CALCULATED

PRODUCING INTERVAL: SAN ANDRES  
POOL: SAWYER; SAN ANDRES (ASSOC)  
PERFS: 4896 TO 4952  
OPEN HOLE: 4916 TO 4977

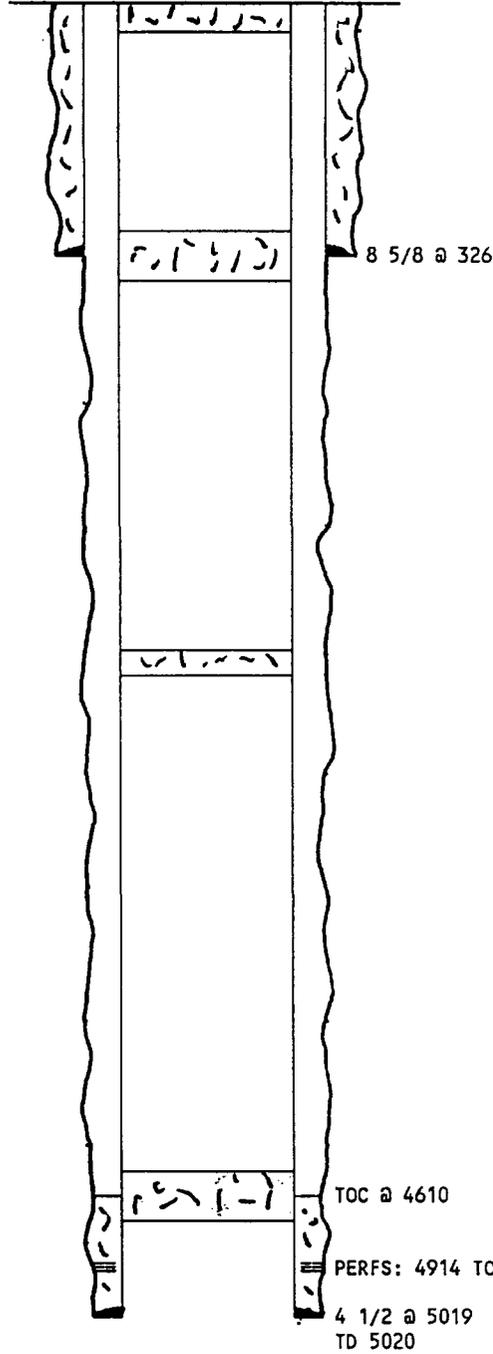
AZTEC OIL & GAS CO  
STATE S # 1

10sxs SURFACE PLUG

25sxs PLUG 400-300

25sxs PLUG 2400-2200

25sxs PLUG 4872-4672



UNIT: F SEC 32 T 9 S R 38 E  
1980/FNL 1980/FWL  
TD: 5020  
API NUMBER: 30-025-07079

TABULAR DATA

SURFACE CASING

SIZE: 8 5/8 SET AT: 326  
HOLE SIZE: 10 1/4  
CEMENTED WITH 225 SXS  
TOC: SURFACE  
TOC DETERMINED BY: CEMENT CIRC SURF

PRODUCTION CASING

SIZE: 4 1/2 SET AT: 5019  
HOLE SIZE: 7 7/8  
CEMENTED WITH 150 SXS  
TOC: 4610  
TOC DETERMINED BY: TEMP SURVEY

PRODUCING INTERVAL: SAN ANDRES  
POOL: SAWYER;SAN ANDRES (ASSOC)  
PERFS: 4914 TO 4934

COMMENTS:

TOP SAN ANDRES 4172

DAVCRO INC  
STATE 32 COM # 1

UNIT: B SEC 32 T 9 S R 38 E  
660/FNL 1980/FEL  
TD: 5009  
API NUMBER: 30-025-24592

TABULAR DATA

SURFACE CASING

SIZE: 8 5/8 SET AT: 386  
HOLE SIZE: 12 1/4  
CEMENTED WITH 250 SXS  
TOC: SURFACE  
TOC DETERMINED BY: CEMENT CIRC SURF

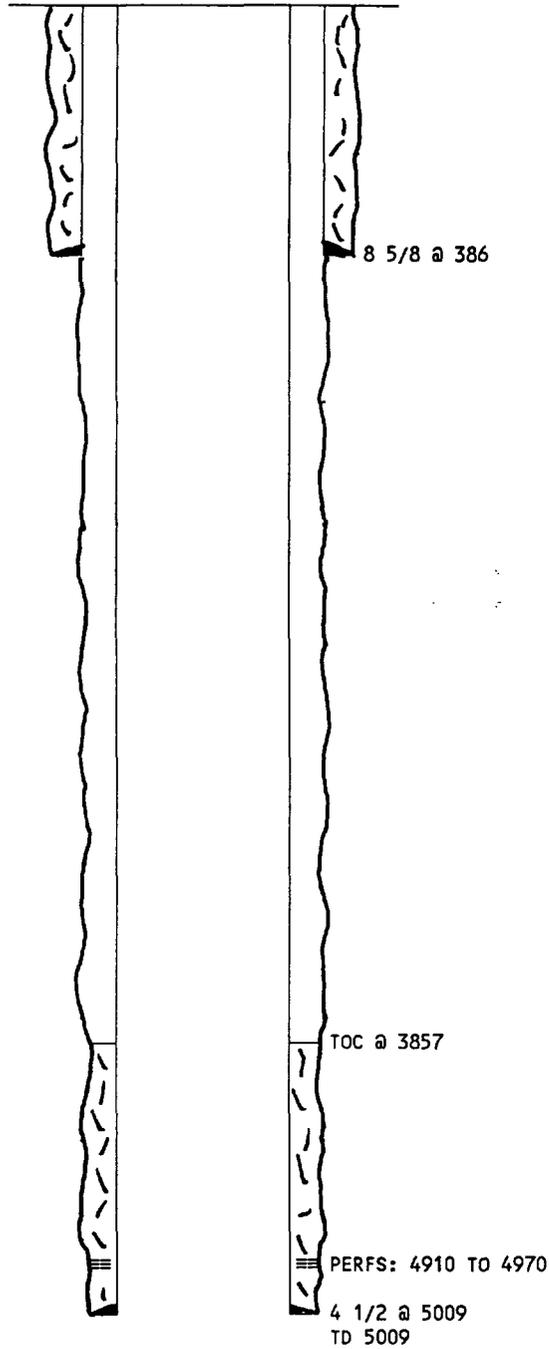
PRODUCTION CASING

SIZE: 4 1/2 SET AT: 5009  
HOLE SIZE: 7 7/8  
CEMENTED WITH 250 SXS  
TOC: 3857  
TOC DETERMINED BY: CALCULATED

PRODUCING INTERVAL: SAN ANDRES  
POOL: SAWYER; SAN ANDRES (ASSOC)  
PERFS: 4910 TO 4970

COMMENTS:

TOP SAN ANDRES 4166



MOBIL OIL CORP  
MCCORMICK B FEDERAL # 1

UNIT: M SEC 29 T 9 S R 38 E  
660/FSL 660/FWL  
TD: 5070  
API NUMBER: 30-025-21095

TABULAR DATA

SURFACE CASING \_\_\_\_\_  
SIZE: 8 5/8 SET AT: 360  
HOLE SIZE: 12 1/4  
CEMENTED WITH 350 SXS  
TOC: SURFACE  
TOC DETERMINED BY: CEMENT CIRC SURF

PRODUCTION CASING \_\_\_\_\_  
SIZE: 4 1/2 SET AT: 5070  
HOLE SIZE: 6 3/4  
CEMENTED WITH 250 SXS  
TOC: 2355  
TOC DETERMINED BY: CALCULATED

PRODUCING INTERVAL: SAN ANDRES  
POOL: SAWYER;SAN ANDRES (ASSOC)  
PERFS: 4923 TO 4979

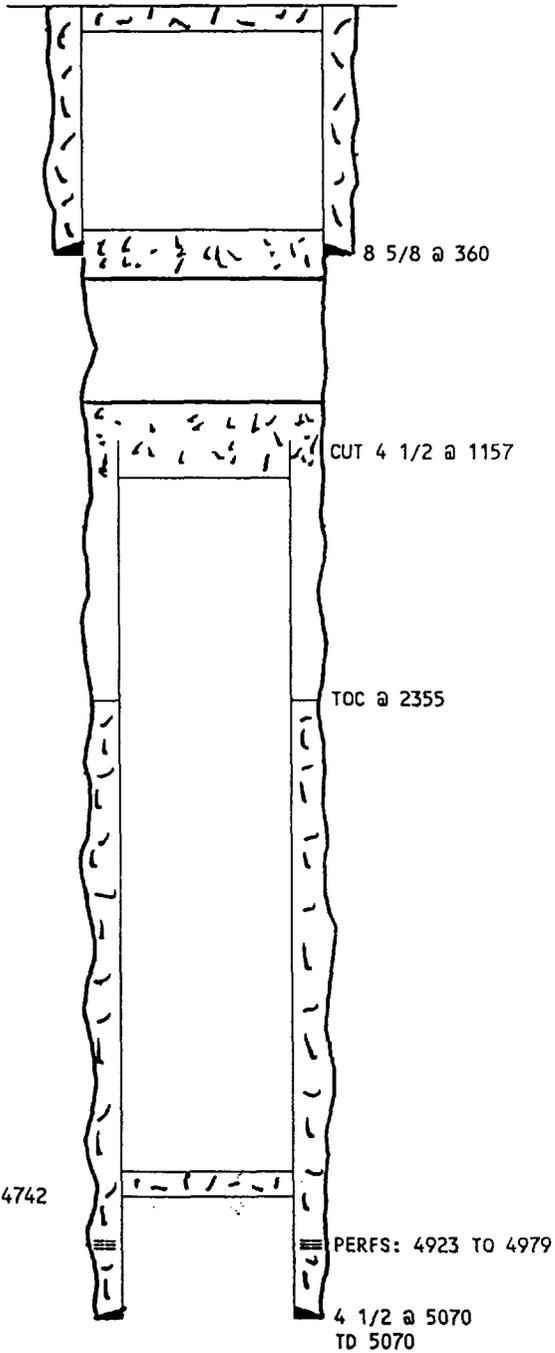
COMMENTS:  
TOP RUSTLER 2326  
TOP YATES 2912  
TOP SAN ANDRES 4197

10sxs SURFACE PLUG

35sxs PLUG 407-275

25sxs PLUG 1219-1057

CIBP @ 4870 W/ 10 4870-4742



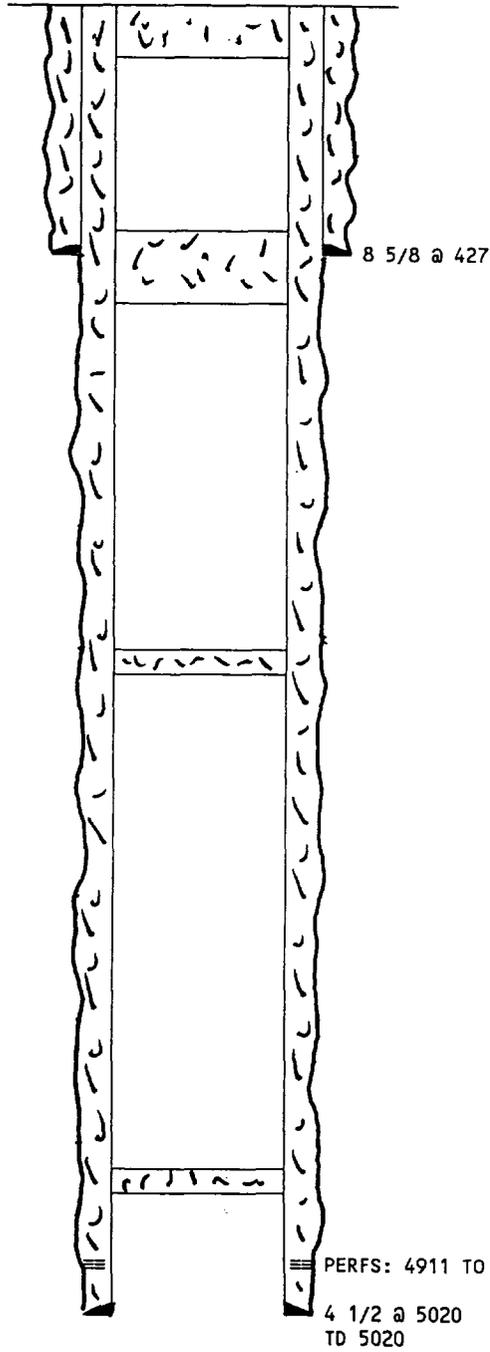
BRAZOS PET CO  
KRINGEL FEDERAL # 1

5sxs PLUG 72-0

8sxs PLUG 463-363

8sxs PLUG 2282-2182

27sxs PLUG 4658-4608



UNIT: A SEC 31 T 9 S R 38 E  
660/FNL 660/FEL  
TD: 5020  
API NUMBER: 30-025-27560

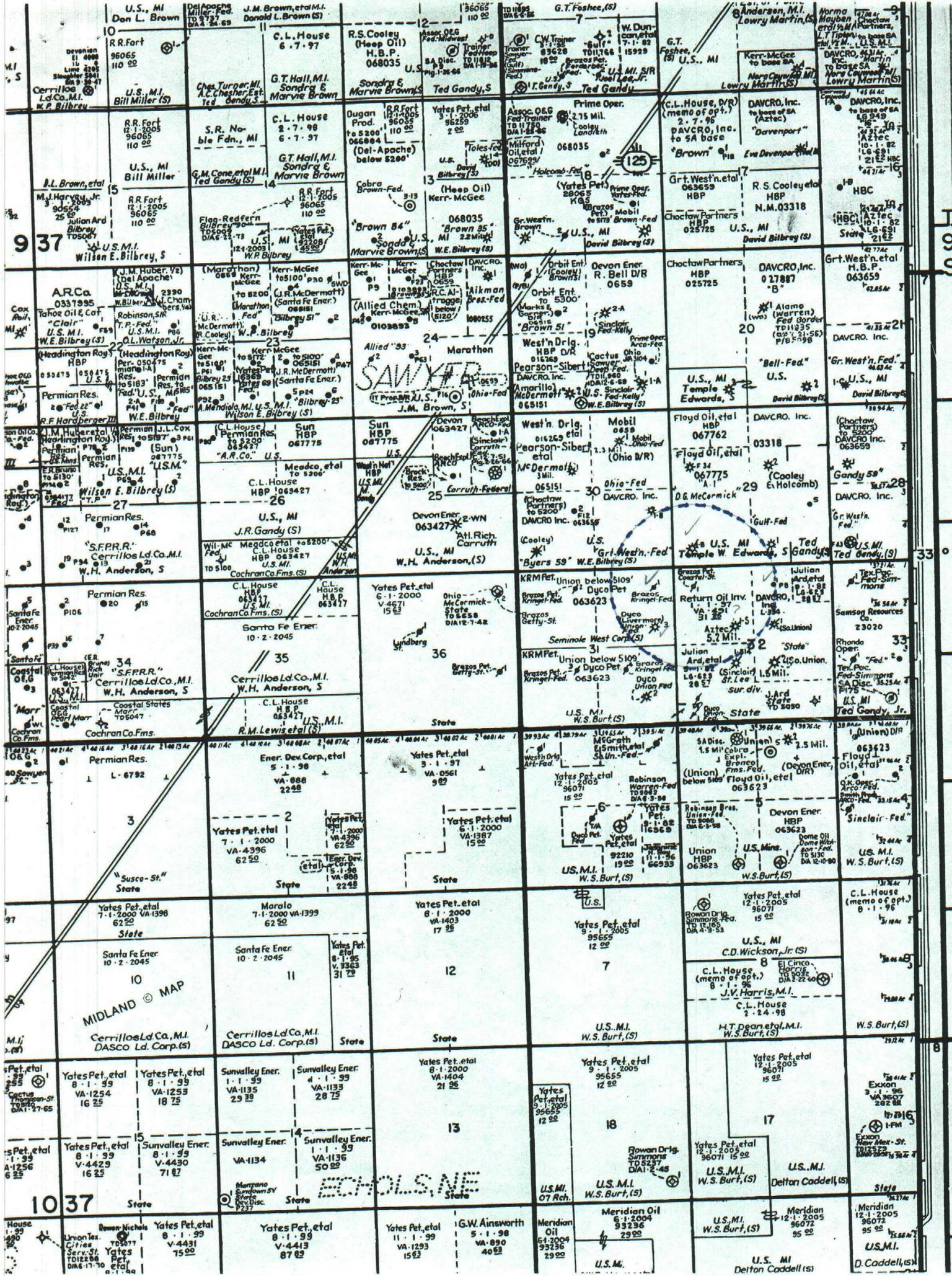
TABULAR DATA

SURFACE CASING  
SIZE: 8 5/8 SET AT: 427  
HOLE SIZE: 12 1/4  
CEMENTED WITH 300 SXS  
TOC: SURFACE  
TOC DETERMINED BY: CIRC 90sxs SURF

PRODUCTION CASING  
SIZE: 4 1/2 SET AT: 5020  
HOLE SIZE: 7 7/8  
CEMENTED WITH 1150 SXS  
TOC: SURFACE  
TOC DETERMINED BY: CIRC 70sxs SURF

PRODUCING INTERVAL: SAN ANDRES  
POOL: SAWYER;SAN ANDRES (ASSOC)  
PERFS: 4911 TO 4969

COMMENTS:  
RTNR SET @ 4658 SQZ 27 sxs W/50' ON RTNR  
TOP RUSTLER 2316  
TOP SAN ANDRES 4308





STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

4/6/99

POST OFFICE BOX 1980  
HOBBS, NEW MEXICO 88241-1980  
(505) 393-6161

GOVERNOR

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

RE: Proposed:

- MC \_\_\_\_\_
- DHC \_\_\_\_\_
- NSL \_\_\_\_\_
- NSP \_\_\_\_\_
- SWD  \_\_\_\_\_
- WFX \_\_\_\_\_
- PMX \_\_\_\_\_

Gentlemen:

I have examined the application for the:

Turrentine Oil & Gas Inc Coastal State #1-D-32-9s-38e  
 Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

~~Deny~~ OK-*CW*  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Yours very truly,

Chris Williams  
Supervisor, District 1

/ed