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

WFX 753 6/10/99

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: Cross Timbers Operating Company

Address: 3000 N. Garfield, Suite 175, Midland, TX 79705

Contact party: Ray Martin Phone: 915/682-8873

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-3134.

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: Ray Martin Title Operations Engineer

Signature: Ray Martin Date: May 19, 1999

* 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.

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

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I,

Publisher

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 a supplement thereof for a period.

of 1

weeks.

Beginning with the issue dated

May 8 1999

and ending with the issue dated

May 8 1999

Publisher

Sworn and subscribed to before

me this 7th day of

May 1999

Notary Public.

My Commission expires
October 18, 2000
(Seal)

LEGAL NOTICE
May 8, 1999

This is to advise all parties concerned, Cross Timbers Operating Company intends to convert the following well to water injection:

SEMGSAU #908 Sec. 32, T-17-S, R-33-E Lea Co., NM

The formation to be injected into is the Grayburg/San Andres at a depth of 4261-4399'. The maximum expected injection rate is 500 BWPD per well at a maximum injection pressure of 852 psig. Questions can be addressed to:

Ray Martin
Cross Timbers Operating Company
3000 N. Garfield, Suite 175
Midland, TX 79705
Phone: (915) 682-8873

Interested parties must file objections for hearing within 15 days of this notice to the:

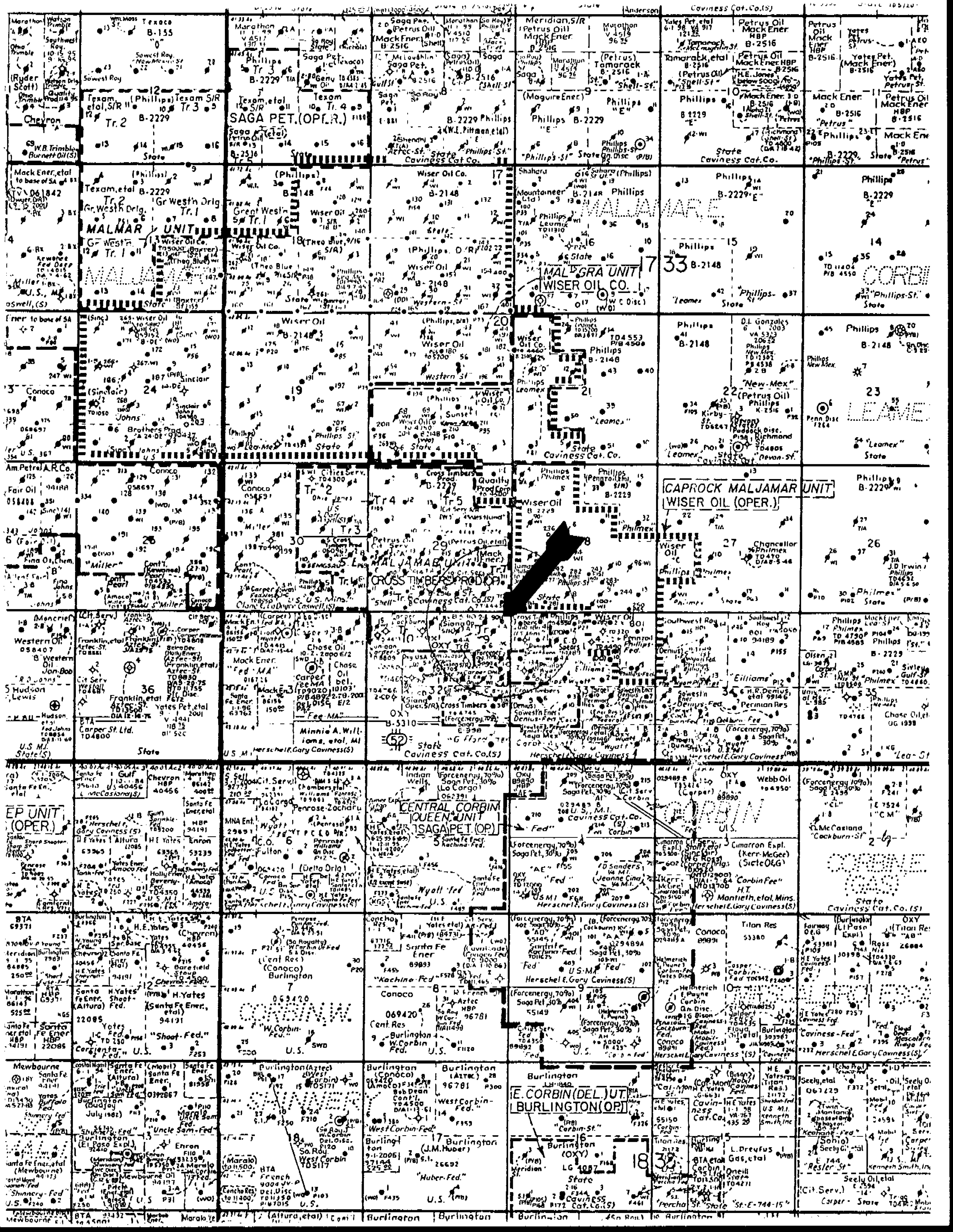
Oil Conservation Division
P.O. Box 2088
Sante Fe, NM 87501

#16603

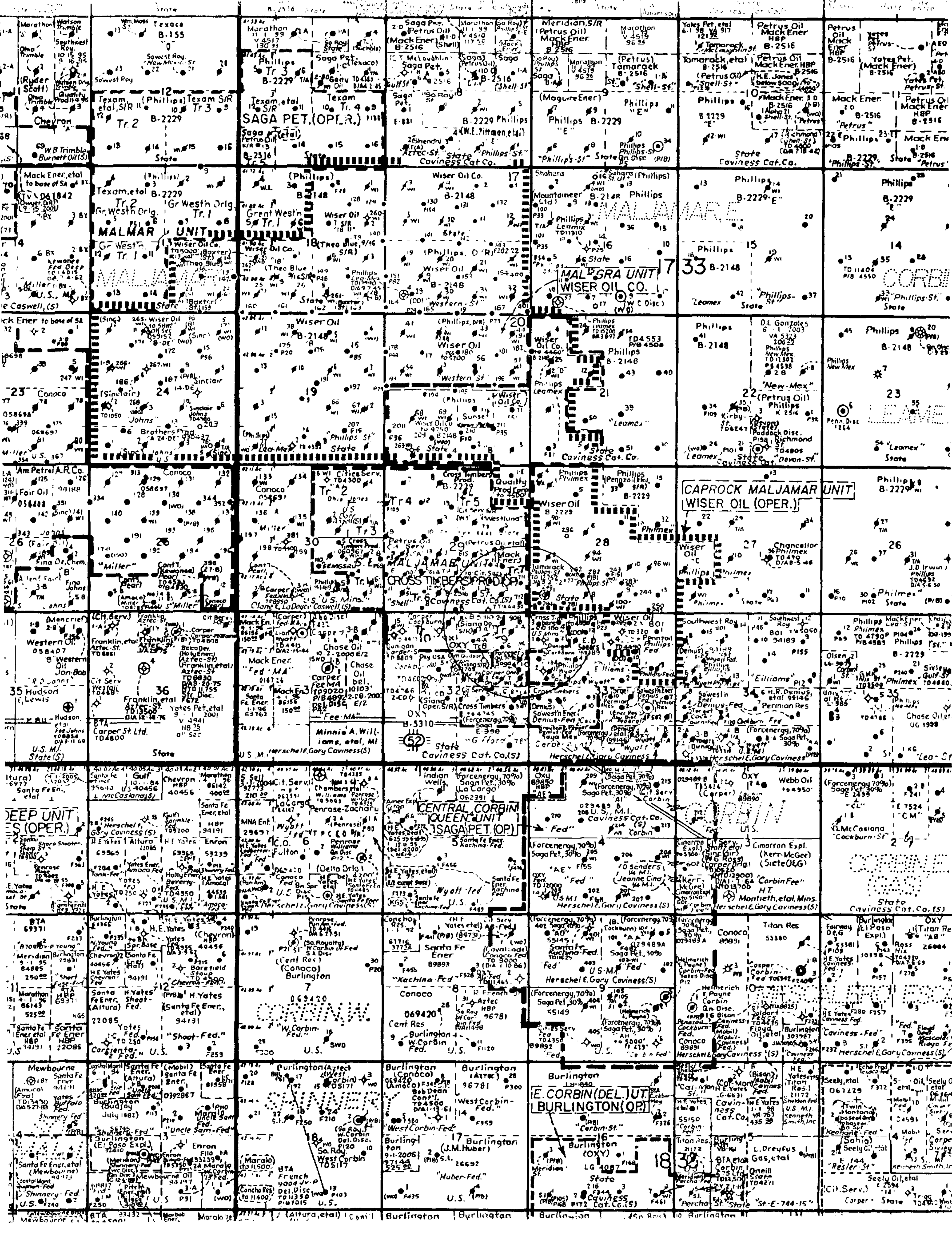
This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

01102696000 02527026

Cross Timbers Operating Compan
3000 N. Garfield, Suite 175
MIDLAND, TX 79705



SAGA PET. (OPER.)
MALMAR UNIT
MALJAMAR
MAL GRA UNIT
WISER OIL CO.
MALJAMAR E.
CORBIN
LEAMEX
CAPROCK MALJAMAR UNIT
WISER OIL (OPER.)
MAL JAMAR UNIT
CROSS TIMBERS PROD. (OP)
CENTRAL CORBIN QUEEN UNIT
SAGA PET. (OP)
CORBIN
CORBIN NW
E. CORBIN (DEL.) UT.
BURLINGTON (OP)
Caviness Cat. Co.
Herschel E. Gary Caviness (S)
Phillips
Burlington
Texaco
Texam
Conoco
Mack Ener.
Petrus Oil
Marathon
Mewbourne
Santa Fe Ener.
H.E. Yates



MALMAR UNIT
SAGA PET. (OPER.)
MALJAMAR
MAL GRA UNIT
WISER OIL CO.
CAPROCK MALJAMAR UNIT
WISER OIL (OPER.)
MALJAMAR UNIT
CROSS TIMBERS PROD. (OP.)
CENTRAL CORBIN QUEEN UNIT
SAGA PET. (OP.)
DEEP UNIT
E.CORBIN (DEL.) UT.
BURLINGTON (OP.)
CORBIN
LEAMEX
Texaco B-155
Phillips B-2229
Phillips B-2148
Wiser Oil B-2148
Caviness Cat. Co.
Herschel E. Gary Caviness (S)
State
U.S.
Burlington
Conoco
Chevron
Mack Ener.
Petrus Oil
Marathon

CROSS TIMBERS OPERATING COMPANY

SEMGSAU #908 - Convert to Injection

NMOCD Form C-108 Section III

III. Data on injection well.

A. Injection well information (see attached schematic)

1. Lease: SEMGSAU

   Well: 908

   Location: 330' FNL & 330' FEL, Unit A
   Section 32, T-17-S, R-33-E
   Lea County, NM

2. Casing: Surface - 8 5/8", 23# @ 415', cmt'd w/275 sxs., circ 48 sxs to surface.

   Production - 5 1/2", 15.5# @ 4417', cmt'd w/900 sxs., circ 25 sxs to surface.

3. Tubing: 2 3/8", 4.7#, J-55, internally plastic coated set @ 4388'.

4. Packer: Baker Lok-Set type or Baker Model AD-1 type set @ ± 4210'

B. Other well information

1. Injection formation: Grayburg
   Field: Maljamar Grayburg San Andres

2. Existing cased hole perforated from 4261' - 4399'.

3. Originally drilled for oil and gas production.

4. There are no other perforated or tested zones.

5. There are no upper productive zones. The San Andres formation is productive at about 4400' and is included in this pool. The Abo formation is productive at about 8600'.

CROSS TIMBERS OPERATING COMPANY

NMOCD form C-108 Sections VII - XII

VII.

1. Proposed average daily injection is 250 BWPD. Maximum daily injection is 500 BWPD.

2. This will be a closed system.

3. Proposed average injection pressure is 500 psig. Proposed maximum injection pressure is 852 psig*. *Note: Maximum injection pressure abides by the 0.2 psi/ft maximum injection pressure imposed by the NMOCD. Future increases in surface pressure will be obtained administratively from the NMOCD using field obtained "Step Rate Tests".

4. Injection fluid will be produced water from the existing waterflood. Makeup water will be supplied by Conoco. Water analyses are attached.

VIII. The proposed injection interval is the Grayburg at a depth of 4200 feet. The Grayburg formation primarily consists of quartz sand with dolomitic cementation. The surface formation is Cretaceous and has no known sources of drinking water.

IX. Any stimulation work will consist of acidizing the existing zone to clean up perforations and near wellbore formation.

X. Logs were filed at your office when the well was drilled.

XI. There are no fresh water wells within one mile of these wells.

XII. Not applicable

XIII. Copies of this C-108 Application have been mailed to the surface owner and to each leasehold operator within one-half mile of the proposed injection wells. A notice was published in the Hobbs Daily News-Sun and the Affidavit of Publication is attached. See attached mailing list and certified mail certificates for Proof of Notice.

AFFIDAVIT OF MAILING

STATE OF TEXAS

COUNTY OF MIDLAND

I, Ray F. Martin, do solemnly swear that a copy of this Application has been mailed by Certified Mail to each of the interested parties listed on the Mailing List, which is attached, as required in XIV of Form C-108.

Ray F. Martin

Ray F. Martin

Operations Engineer

SWORN AND SUBSCRIBED TO before me this 20th day of May, 1999.

My Commission Expies: 5/14/00

Kim A. Gray

Notary Public

KIM A. GRAY
Notary Public, State of Texas
My Comm. Expires May 14, 2000

MAILING LIST

State of New Mexico
State Land Office
P. O. Box 1148
Santa Fe, NM 87504-1148

Bureau of Land Management
P. O. Box 1778
Carlsbad, NM 88220

Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

Oil Conservation Division
1625 North French Drive
Hobbs, NM 88240

SURFACE OWNERS

Caviness Cattle Company
Star Route
Causey, NM 88113

Janice Caviness
East Star Route
Maljamar, NM 88264

Mr. Eric Dixon
P. O. Box 575
Portales, NM 88130

Mr. Mike Newell
Heidel, Samberson, Newell & Cox
P. O. Drawer 1599
Lovington, NM 88260

OFFSET OPERATORS

Chevron USA Production Company
P. O. Box 1150
Midland, TX 79702

OXY USA Inc.
P.O. Box 50250
Midland, TX 79710

The Wiser Oil Company
8115 Preston Road, Suite 400
Dallas, TX 75225

Pennzoil E&P Company
P. O. Box 50090
Midland, TX 79710-0090

Phillips Petroleum Company
4001 Penbrook
Odessa, TX 79762

Z 208 789 670

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

Sent to	Chevron USA Production
Street & Number	P. O. Box 1150
Post Office, State, & ZIP Code	Midland, TX 79702
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	5/20/99

PS Form 3800, April 1995

Fold at line over top of envelope to the right of the return address

CERTIFIED

Z 208 789 670

MAIL

Z 208 789 666

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

Sent to	OXY USA INC
Street & Number	P. O. Box 50250
Post Office, State, & ZIP Code	Midland, TX 79701
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	5/20/99

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MAIL

Z 208 789 668

US Postal Service
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Sent to	Phillips Pet Co.
Street & Number	5001 Penbrook
Post Office, State, & ZIP Code	Odessa, TX 79762
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	5/20/99

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US Postal Service
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Sent to	The Wiser Oil Co.
Street & Number	8115 Preston Rd, Suite 400
Post Office, State, & ZIP Code	Dallas, TX 75225
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	$
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MAIL

Z 208 789 667

US Postal Service
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Sent to	Pennzoil E&P Co.
Street & Number	P. O. Box 50090
Post Office, State, & ZIP Code	Midland, TX 79710-0090
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	$
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MAIL

Z 208 789 664

US Postal Service
Receipt for Certified Mail
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Sent to	Mr. Mike Newell
Street & Number	P. O. Drawer 1599
Post Office, State, & ZIP Code	Lovington, NM 88260
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	$
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MAIL

Z 208 789 663

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Sent to	Eric Dixon
Street & Number	P. O. Box 575
Post Office, State, & ZIP Code	Portales, NM 88130
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	$
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Z 557 885 187

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Sent to	Janice Caviness
Street & Number	East Star Route
Post Office, State, & ZIP Code	Maljamar, NM 88246
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	$
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MAIL

Z 557 885 186

US Postal Service
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Sent to	Caviness Cattle Co.
Street & Number	Star Route
Post Office, State, & ZIP Code	Causey, NM 88113
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	5/20/99

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MAIL

Z 557 885 250

US Postal Service
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Sent to	EMNRD/OCD
Street & Number	1625 N. French Dr.
Post Office, State, & ZIP Code	Hobbs, NM 88240
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	$
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MAIL

Z 557 885 249

US Postal Service
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Sent to	EMNRD/OCD
Street & Number	2040 S. Pacheco
Post Office, State, & ZIP Code	Santa Fe, NM 87505
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	5/20/99

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MAIL

Z 557 885 252

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

Sent to	State Land Office State of NM
Street & Number	P. O. Box 1148
Post Office, State, & ZIP Code	Santa Fe, NM 87504
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	5/20/99

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Z 557 885 252

MAIL

Z 557 885 248

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

Sent to	BLM
Street & Number	Box 1778
Post Office, State, & ZIP Code	Carlsbad, NM 88220
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	5/20/99

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MAIL

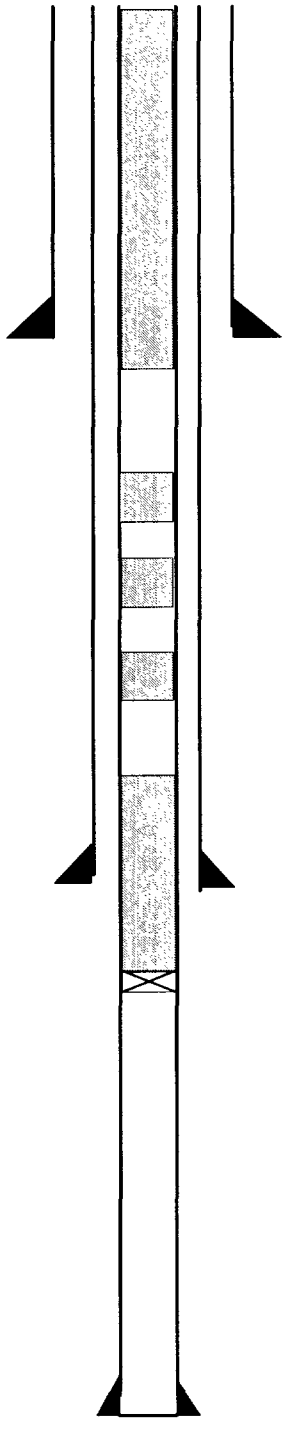
NAME	OPERATOR	LOCATION	COMPL DATE	TYPE	TD	CSG SIZE	DEPTH SET	SX CMT	PERFS	COMMENTS
CMU #98	The Wiser Oil Co.	660' FSL, 660' FWL, Unit M, Sec. 28, T17S, R33E	11/29/77	Oil	4439'	8 5/8"	367	250	4128-4337	Converted to WIW
						5 1/2"	4439	200		5/94
CMU #284	The Wiser Oil Co.	330' FSL & 330' FWL, Unit M , Sec. 28, T17S,R333E	1/7/98	Oil	4550	8 5/8"	396	300	4291-4333	Active Prod.
						4 1/2"	4550	1350		
Phillips State #8	Pennzoil	660' FSL & 1980' FWL, Unit N, Sec. 28, T17S, R33E	12/4/57	Inj	4450	8 5/8"	357	125	4281-4356	Active WIW
						5 1/2"	4449	100		
CMU #242	The Wiser Oil Co.	1330' FSL, 1330' FWL, Unit K, Sec 28, T17S, R33E	4/21/96	OIL	4803	8 5/8"	496	300	4523-4576	Active Prod.
						5 1/2"	4803	1350		
CMU #93	The Wiser Oil Co.	1980' FSL, 660' FWL, Unit L, Sec 28, T17S, R33E	12/26/57	OIL	4460	8 5/8"	345	150	4200-4352	Active WIW
						5 1/2"	4460	200		
Philmex #14	Phillips Petr.	569' FSL, 507' FWL, Unit M, Sec 28, T17S, R33E	10/18/81	SWD	12752	11 3/4"	376	480	4830-5220	P&A 4/95
						8 5/8"	4747	750		
						5 1/2"	6609	1650		
CMU #281	The Wiser Oil Co.	330' FSL, 1210' FWL, Unit M, Sec 28, T17S, R33E	1/31/97	OIL	4775	8 5/8"	391	325	4273-4454	Active Prod.
						5 1/2"	4775	900	4492-4521	
CMU #280	The Wiser Oil Co.	932' FSL, 330' FWL, Unit M, Sec 28, T17S, R33E	4/5/97	OIL	4827	8 5/8"	444	325	4200-4383	Active Prod.
						5 1/2"	4827	850	4611-4649	
SEMGSAU #710	Cross Timbers Oper.	1165' FSL, 2010' FEL,Unit A, Sec. 29, T17S, R33E	6/4/96	OIL	4400	8 5/8"	404	250	4272-4324	Active Prod.
						5 1/2"	4394	850		
SEMGSAU #714	Cross Timbers Oper.	1200' FSL & 900' FEL,Unit P, Sec. 29, T17S, R33E	5/6/97	OIL	4450'	8 5/8"	383	250	4282-4332	Active WIW
						5 1/2"	4450	900		
SEMGSAU #709	Cross Timbers Oper.	2250' FSL, 1225' FEL, Unit I, Sec 29, T17S, R33E	10/31/81	OIL	4450	8 5/8"	1314	660	4218-4414	TA 12/91
						5 1/2"	3950	1000		
						4"	3678-4449	250		
SEMGSAU #704	Cross Timbers Oper.	1650' FSL, 990' FEL, Unit I, Sec 29, T17S, R33E	11/1/54	OIL	4360	8 5/8"	297	300	4246-4360	Conv to inj
				INJ		5 1/2"	4246	800		TA 5/85
SEMGSAU #713	Cross Timbers Oper.	1700' FSL, 1400' FEL, Unit J, Sec 29, T17S, R33E	4/22/97	OIL	4390	8 5/8"	388	250	4264-4311	Active Prod.
						5 1/2"	4389	650		
SEMGSAU #711	Cross Timbers Oper.	1040' FSL, 330' FEL, Unit P, Sec 29, T17S, R33E	11/22/96	OIL	4405	8 5/8"	407	275	4299-4355	Active Prod.
						5 1/2"	4404	800		
SEMGSAU #706	Cross Timbers Oper.	1155' FSL, 1385' FEL, Unit O, Sec 29, T17S, R33E	8/22/72	OIL	4355	8 5/8"	353	220	4244-4322	Active Prod.
						5 1/2"	4350	435		
SEMGSAU #701	Cross Timbers Oper.	660' FSL, 1980' FEL, Unit O, Sec 29, T17S, R33E	3/12/44	OIL	4439	10 3/4"	1254	550	4222-4343	Conv to inj 11/81
				INJ		7"	4034	300		Active WIW
						5"	3736-4439	100		
SEMGSAU #703	Cross Timbers Oper.	660' FSL, 990' FEL, Unit P, Sec 29, T17S, R33E	1/16/53	OIL	4340	8 5/8"	1260	550	4290-4340	Conv to inj 10/67
				INJ		5 1/2"	4290	300		Active WIW

NAME	OPERATOR	LOCATION	COMPL DATE	TYPE	TD	CSG SIZE	DEPTH SET	SX CMT	PERFS	COMMENTS
SEMGSAU #712	Cross Timbers Oper.	330' FSL, 330' FEL, Unit P, Sec 29, T17S, R33E	12/20/96	OIL	4500	8 5/8"	405	275	4301-4371	Active Prod.
						5 1/2"	4499	850		
SEMGSAU #707	Cross Timbers Oper.	100' FSL, 1430' FEL, Unit O, Sec 29, T17S, R33E	11/26/72	DH	4430	8 5/8"	810	350	4272-4284	P&A 7/73
						5 1/2"	4429	435		
SEMGSAU #708	Cross Timbers Oper.	100' FSL, 2590' FEL, Unit O, Sec 29, T17S, R33E	4/10/73	OIL	4316	8 5/8"	819	500	4278-4292	TA 12/91
						5 1/2"	4429	435		
SEMGSAU #616	Cross Timbers Oper.	2590' FWL, 775' FSL, Unit N, Sec 29, T17S, R33E	5/8/97	OIL	4359	8 5/8"	394	250	4254-4300	Active Prod.
						5 1/2"	4359	950		
State CB #2	Cities Service Oil	2310' FNL & 1700' FEL, Unit G, Sec. 32, 17S, R33E	10/18/65	Oil	8780	13 3/8	333	250	8750-8758'	P&A 11/83
						8 5/8	2882	500		
						4 1/2	8779	850		
State CB #5	Cities Service Oil	1650' FNL, 1650' FEL, Unit G, Sec. 32, T17S, R33E	12/31/49	OIL	4500	12 1/2	210		4495-4500	P&A 2/80
						10	980			
						7	3917	50		
SEMGSAU #905	Cross Timbers Oper.	1650' FNL & 330' FEL, Unit H, Sec. 32, T17S, R33E	10/24/64	OIL	4475	8 5/8"	1346	50	4298-4407	Active Prod.
						7"	3523	50		
						4-1/2'	4484	50		
SEMGSAU #907	Cross Timbers Oper.	990' FEL & 2310' FNL, Unit H, Sec. 32, T17S, R33E	12/31/91	OIL	4600	8 5/8"	338	200	4316-4457	Active Prod.
						5 1/2"	4600	1450		
SEMGSAU #902	Cross Timbers Oper.	330' FNL, 990' FEL, Unit A, Sec 32, T17S, R33E	5/10/51	OIL	4500	8 5/8"	1257	50	4050-4500	Conv to inj 11/91
				INJ		5 1/2"	4050	100		SI 11/96
SEMGSAU #904	Cross Timbers Oper.	660' FNL, 660' FEL, Unit A, Sec 32, T17S, R33E	8/24/46	OIL	4312	8 5/8"	1300	50	3943-4312	P&A 7/73
(Tract 9 #4)						7"	3943	100		
SEMGSAU #906	Cross Timbers Oper.	1200' FNL, 950' FEL, Unit A, Sec 32, T17S, R33E	12/13/91	OIL	4545	8 5/8"	306	250	4270-4374	Active Prod.
						5 1/2"	4546	1300	4448-4460	
SEMGSAU #908	Cross Timbers Oper.	330' FNL, 330' FEL, Unit A, Sec 32, T17S, R33E	11/22/96	OIL	4450	8 5/8"	415	275	4261-4399	Active Prod.
						5 1/2"	4417	900		
SEMGSAU #803	Cross Timbers Oper.	660' FNL, 1980' FEL, Unit B, Sec 32, T17S, R33E	5/11/44	OIL	4325	8"	1280	50	4045-4300	Conv to inj 9/67
(Tract 8 #3)				INJ		7"	4045	102		P&A 7/84
SEMGSAU #10-04	Cross Timbers Oper.	330' FNL, 2310' FWL, Unit C, Sec 32, T17S, R33E	11/12/51	OIL	4298	7"	1223	50	4096-4298	Conv to inj 2/74
				INJ		5 1/2"	4096	120		P&A 10/83
Ohio-State C #1	Chevron	1980' FNL & 330' FEL, Sec. 32, T17S, R33E	11/24/60	Oil	8825	13 3/8"	311	340	8615-8650	Active Prod
						8 5/8"	3168	800		
						4 1/2"	8825	1600		
Ohio-State "A" #6	Chevron	2310' FNL & 330' FEL, Sec. 32, T17S, R33E	11/10/53	Oil	3769	8-5/8"	1368	50	3735-3769	SI
						7"	3735	100		
Cockburn "A" State #4	OXY USA	990' FNL, 1980' FEL, Unit B, Sec 32, T17S, R33E	3/28/66	OIL	8820	13 3/8"	334	320	8632-8695	SI
						8 5/8"	2899	500		
						4 1/2"	8819	700		

NAME	OPERATOR	LOCATION	COMPL DATE	TYPE	TD	CSG SIZE	DEPTH SET	SX CMT	PERFS	COMMENTS
SEMGSAU #2	Cross Timbers Oper	990' FNL, 990' FWL, Unit D, Sec. 33, T17S, R33E	7/22/53	OIL	4302	8 5/8"	1306	50	4104-4302	Active Prod
						7	4104	100		
Wyatt A Fed #13	Phillips Pet Co.	1980' FNL, 660' FWL, Unit E, Sec. 33, T17S, R33E	8/26/47	OIL	4582	10"	26	25	3995-4582	Active Prod
						7"	3995	150		
SEMGSAU #1	Cross Timbers Oper.	990' FNL, 330' FWL, Unit D, Sec 33, T17S, R33E	9/5/53	OIL	4448	7"	1427	25	4278-4448	Active Prod.
						5 1/2"	4278	100		
SEMGSAU #3	Cross Timbers Oper.	380' FNL, 350' FWL, Unit D, Sec 33, T17S, R33E	5/31/96	OIL	4480	8 5/8"	394	250	4300-4399	Active Prod.
						5 1/2"	4470	950		
SEMGSAU #4	Cross Timbers Oper.	330' FNL, 990' FWL, Unit D, Sec 33, T17S, R33E	6/18/97	OIL	4505	8 5/8"	428	250	4308-4381	Active Prod.
						5 1/2"	4505	850		
Wyatt A Fed #21	Barney Cockburn	1980' FNL, 460' FWL, Unit E, Sec. 33, T17S, R33E	11/15/51	Dry	3765'	8-5/8"	1430	50	None	Dry
						7"	3649	310		
Wyatt A Fed #3	Phillips Pet Co.	1650' FNL, 330' FWL, Unit E, Sec. 33, T17S, R33E	10/7/51	OIL	4300'	7"	1330	50	3719-4300	P&A 12/92
						5 1/2"	3719	50		
Wyatt A Fed #4	Phillips Pet Co.	1659' FNL, 1650' FWL, Unit F, Sec. 33, T17S, R33E	9/4/52	OIL	3710	8"	1350	50	3675-3710	Active WIW
						7"	3675	110		
Wyatt-Phillips #5	H. R. Denius et al	990' FNL, 1650' FWL, Unit C, Sec. 33, T17S, R33E	1/28/55	Inj	4305	8	1200	100	4258-4305	P&A 11/59
						7	1220	50		
						4	4305	100		
Wyatt A Fed #12	Phillips Pet Co.	660' FNL, 1980' FWL, Unit C, Sec. 33, T17S, R33E	1/27/56	Oil	4310	8 5/8"	224	50	4200-4310	Active Prod.
						5 1/2"	4200	600		
Wyatt A Fed #1	Phillips Pet Co.	330' FNL, 2310' FWL, Unit C, Sec. 33, T17S, R33E	5/7/64	OIL	4506	10-3/4"	315	250	4393-4420	Active Prod
						4-1/2"	4499	1200		
Eilliams-Fed #6	Phillps Pet Co.	2310' FNL, 659' FWL, Unit E, Sec. 33, T17S, R33E	7/3/61	OIL	8788	13 3/8"	320	350	8562-8734	Active Prod
						8 5/8"	4589	700		
						5 1/2"	8788	620		
Cockburn #1	Phillips Pet Co.	990' FNL,380' FWL, Unit D, Sec. 33, T17S,R33E	4/5/61	DH	8940	13 3/8"	309	340		P&A 2/85
						8-5/8"	4557	1900		

Philmex #14

569' FSL & 507' FWL, Unit M, Sec 28, T17S, R33E



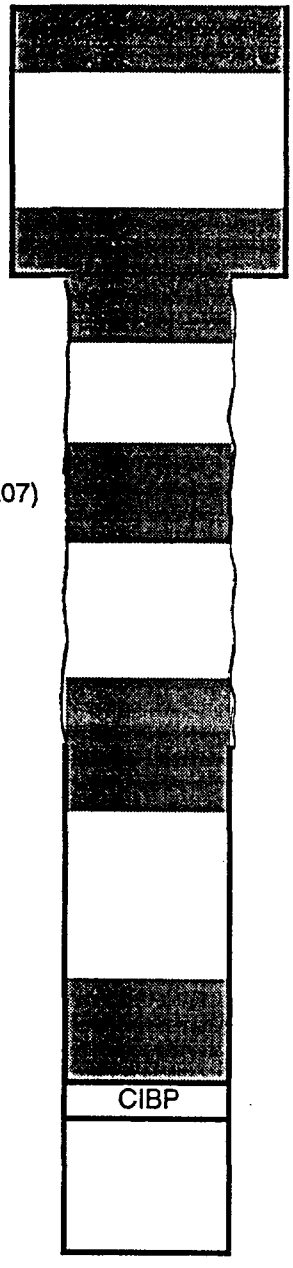
Surface Csg
11-3/4" @ 376' Cmt'd w/480 sx

Plugs Set as follows:
1. CIBP @ 4,800' w/25 sx cmt cap fr/4,800'-4,560'
2. 3,981'-3,741' - 25 sx
3. 2,663'-2,423' - 25 sx
4. 1,507'-1,267' - 25 sx
5. 412' - 0' - 50 sx

Intermediate Csg
8-5/8" @ 4,747'
Cmt'd w/750 sx

Production Csg
5-1/2" @ 6,609'
Cmt'd w/1650 sx

WELL: SEMGSAU #707 (Tract 7, Well #7)
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 100' FSL, 1430' FEL, UNIT O, SEC 29, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
8 5/8" @ 810', CMT W/350 SX

PLUGS SET AS FOLLOWS:

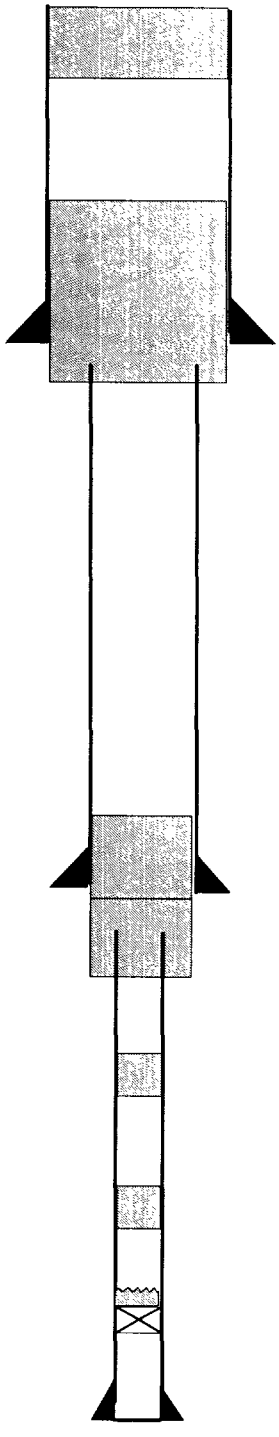
1. CIBP @ 4207 W/5 SXS (4167-4207)
2. PULLED 1738 OF 5 1/2".
3. 1688 - 1788 W/25 SXS
4. 1280 - 1380 W/40 SXS
5. 740 - 840 W/ 30 SXS
6. 0 - 30 W/10 SXS

PRODUCTION CASING:
5 1/2" @ 4429', CMT W/435 SX

TD:4430

State CB #2

2310' FNL & 1700' FEL, Unit G, Sec 32, T17S, R33E



Surface Csg
13-3/8" @ 333' Cmt'd w/250 sx

8-5/8" csg cut @ 386'

Plugs Set as follows:

1. CIBP @ 8,630' w/5 sx cmt cap.
2. 6,234'-5,985' - 25 sx
3. 3,993'-3,743' - 25 sx
4. 3,219'-3,019' - 50 sx
5. 3,019'-2,719' - 75 sx
6. 443' - 143' - 120 sx
7. 56' - 0' - 40 sx

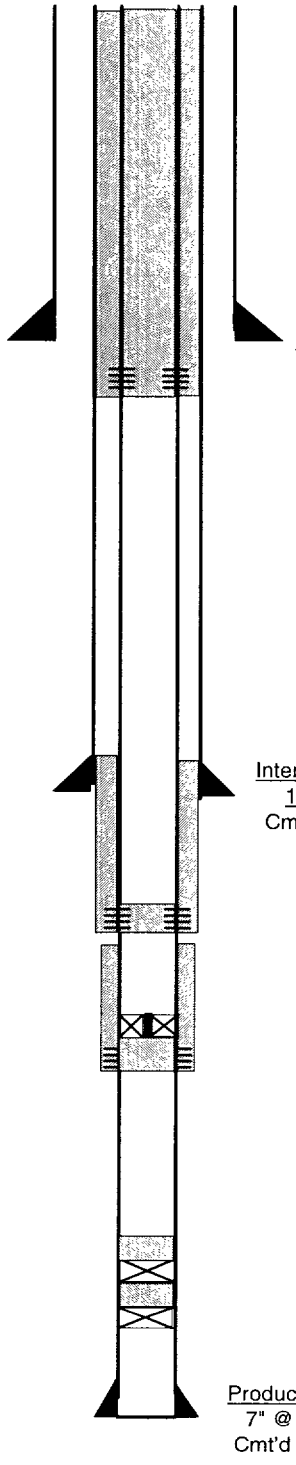
Intermediate Csg
8-5/8" @ 2,882'
Cmt'd w/850 sx

4-1/2" csg cut @ 3,068'

Production Csg
4-1/2" @ 8.779'
Cmt'd w/850 sx

State CB #5

1650' FNL & 1650' FEL, Unit G, Sec 32, T17S, R33E



Surface Csg
12-1/2" @ 210' Cmt'd w/unk sx

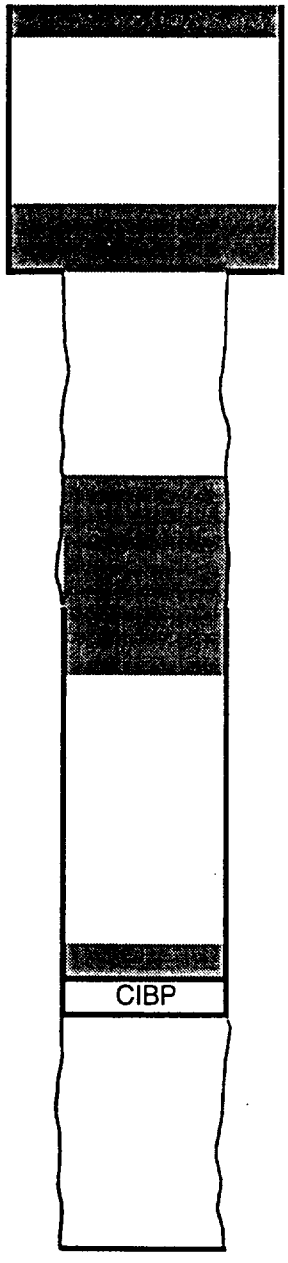
Intermediate Csg
10" @ 980'
Cmt'd w/unk sx

Production Csg
7" @ 3,917'
Cmt'd w/50 sx

Plugs Set as follows:

1. CIBP @ 3,500' w/25' cmt cap.
2. CIBP @ 3,475' w/7 sx cmt cap fr/3,475-3,440' (35').
3. Shot sqz holes @ 1,340'. Set CICR @ 1,305' & sqz'd w/500 sx.
4. Shot sqz holes @ 1,150' & sqz'd dwn csg w/500 sx.
5. Shot sqz holes @ 250' & sqz'd dwn csg w/375 sx. Left csg full & circ cmt.

WELL: SEMGSAU #904 (Tract 9 #4)
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 660' FNL, 660' FEL, UNIT A, SEC 32, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
9 5/8" @ 1350', CMT W/50 SX

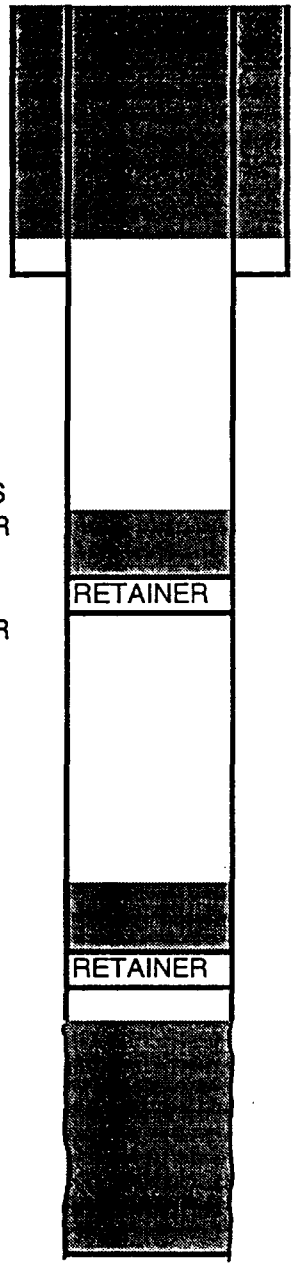
PLUGS SET AS FOLLOWS:

1. SET CIBP @ 3891 W/7 SXS
   3846 - 3891
2. PULLED 2215' OF 7"
3. 2165 - 2265 W/45 SXS
4. 1250 - 1350 W/45 SXS
5. 0 - 30 W/15 SXS

PRODUCTION CASING:
7" @ 3943', CMT W/100 SX

TD:4312

WELL: SEMGSAU #803 (Tract 8, Well #3)
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 660' FNL, 1980' FEL, UNIT B, SEC 32, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
8 5/8" @ 1280', CMT W/50 SX

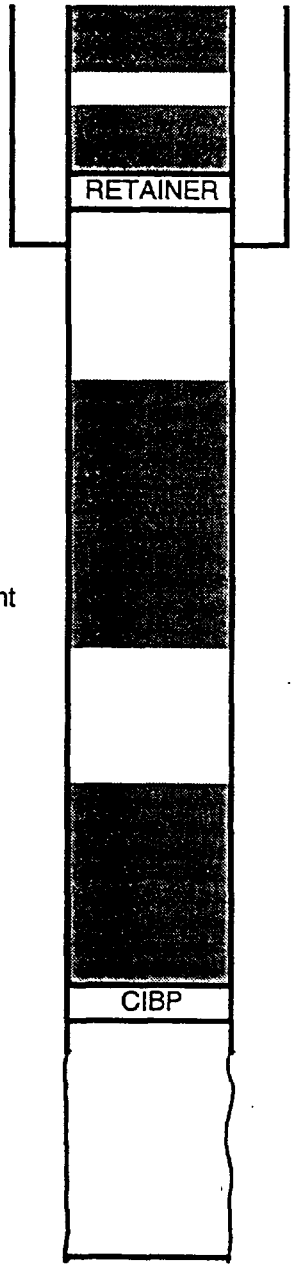
PLUGS SET AS FOLLOWS:

1. SQZ OH 4045 - 4300 W/150 SXS
2. DUMPED 37 SXS ON RETAINER @ 3947.
3. SQZ PERF @ 2800 W/500 SXS
4. DUMPED 37 SXS ON RETAINER @ 2697.
5. SQZ PERF @ 1200 W/250 SXS
6. 0 - 50 W/15 SXS

PRODUCTION CASING:
7" @ 4045', CMT W/102 SX

TD:4325

WELL: SEMGSAU 10-04 (Tract 10, Well #4)
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 330' FNL, 2310' FWL, UNIT C, SEC 32, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
7" @ 1231', CMT W/50 SX

PLUGS SET AS FOLLOWS:

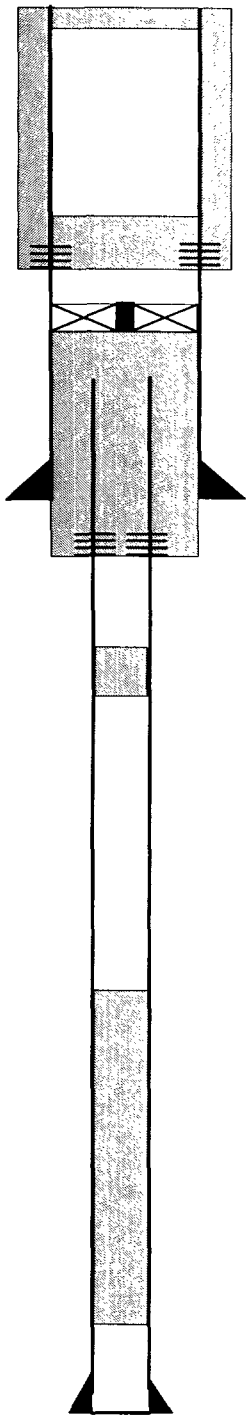
1. CIBP @ 4039 W/50 SXS CMT, Top of plug @ 3426,
2. 1986 - 2599 W/50 SXS.
3. Perf 1230 & pmp 150 sxs, circ cmt
4. Retainer @ 1091.
5. 785 - 1091 W/25 SXS.
6. 0 - 214 W/15 SXS.

PRODUCTION CASING:
5 1/2" @ 4096', CMT W/120 SX

TD:4298

Wyatt "A" Federal #3

1650' FNL & 330' FWL, Unit E, Sec 33, T17S, R33E



Cut 5-1/2" csg @ 1025'

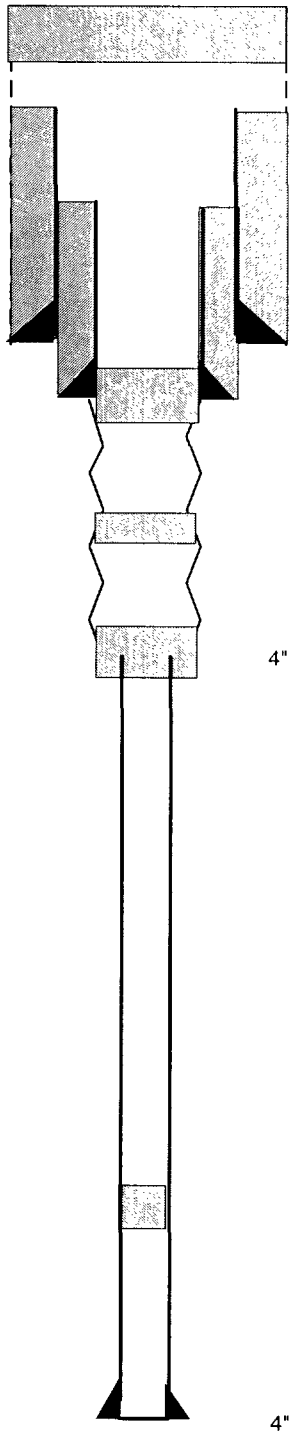
Surface Csg
7" @ 1330' Cmt'd w/50 sx

Plugs Set as follows:
1. 3,546'-2,200' - 209 sx
2. 1,960' -1,860' - 15 sx
3. Shot sqz holes @ 1,485'. Set CICR @ 945' & sqz'd 170 sx
4. Perf sqz holes @ 900'. Sqz'd w/40 sx
5. 10 sx surface plug.

Production Csg
5-1/2" @ 3,716'
Cmt'd w/50 sx

Wyatt-Phillips #5

990' FNL & 1650' FWL, Unit C, Sec 33, T17S, R33E



8-5/8" csg cut @ 410'

7" csg cut @ 858'

Surface Csg
8" @ 1,200' Cmt'd w/100 sx

Intermediate Csg
7" @ 1,220' Cmt'd w/50 sx

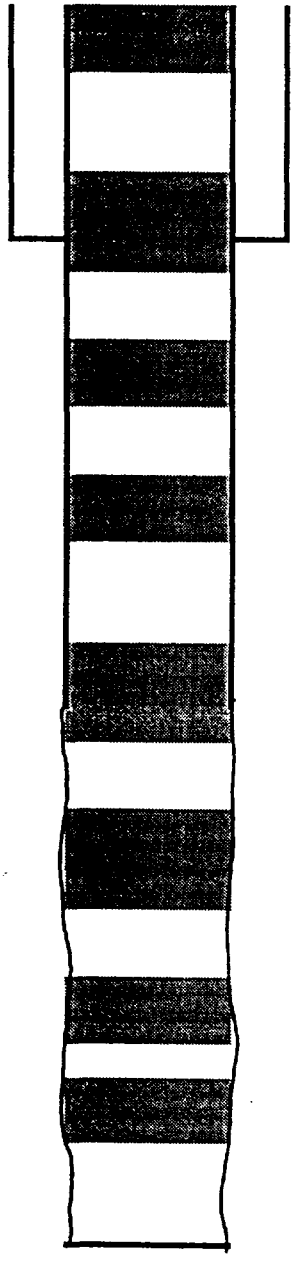
4" csg cut @ 2,013"

Production Csg:
4" @ 4,305' Cmt'd w/100 sx

Plugs Set as follows:

1. 3,671'-3,591'.
2. 2,025'-1,950'.
3. 1,540'-1,465'.
4. 1,240-1,165'
5. 12'-0'

WELL: Cockburn #1
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 990' FNL, 380' FWL, UNIT D, SEC 33, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
13 3/8" @ 309', CMT W/340 SX

PLUGS SET AS FOLLOWS:

1. 6210 W/50 SXS.
2. 5600 W/50 SXS.
3. 5000 W/50 SXS.
4. 4620 W/50 SXS.
5. 3000 W/50 SXS.
6. 1500 W/75 SXS.
7. 360 W/75 SXS.
8. 0 - 75 W/50 SXS.

PRODUCTION CASING:
8 5/8" @ 4557', CMT W/1900 SX

TD:8940

AUG 29 1997

REBCO

CHEMICAL SPECIALTIES FOR PETROLEUM & DRILLING
P.O. BOX 69337
ODESSA, TX 79769
(915) 381-2595

LABORATORY WATER ANALYSIS

COMPANY:	CROSS TIMBERS	PH:	6.520
LEASE:	SEMGSAU	SULFIDE AS H2S:	26
WELL NO:	TRIPLEX DISCHARGE	CARBON DIOXIDE:	
FORMATION:			
COUNTY, STATE:		SPECIFIC GRAVITY:	1.086
DATE SAMPLED:	08-26-97	DISSOLVED OXYGEN:	
SAMPLED BY:	BOBBY CARNES	WATER B/D:	
ATTENTION:	RAY MARTIN		

CATIONS	Mg/L	ME/L	ANIONS	Mg/L	ME/L
Calcium	4,800	240	Bicarbonate	74.42	1.22
Magnesium	244	20	Sulfate	5,300	110
Sodium	48,030	2,088	Chloride	79,400	2,237
Total Hardness	13,000				
Barium	0	0.01			
Iron	3.75	0.13			

Dissolved Solids:137,852 Conductivity 180,000 micromhos/cm

CaCO3 Scaling Tendency:

Stability index @:	80°F	-0.52
	100°F	-0.30
	120°F	.00
	160°F	0.81

CaSO4 Scaling Tendency:

Ksp Temperature Used: 90 °F

Calculated Saturation: 16.35 ME/L

C a S O 4 I S I N D I C A T E D .

Performance Chemicals

WATER ANALYSIS REPORT

Lab ID No. : 012791.002 Analysis Date: January 29, 1992

Company : Cross Timbers
Field :
Lease/Unit : SEMGSAU
Well ID. : Fresh Water
Sample Loc.: Water Tank Inlet

Sampled By : J. L. Enriquez
Sample Date: 8-December-1991
Salesperson: Clyde Wilhoit
Formation : San Andres
Location : Lovington, N. M.

CATIONS	MG/L	MEQ/L	ANIONS	MG/L	MEQ/L
Calcium as Ca++	54	3	Hydroxyl as OH-	0	0
Magnesium as Mg++	17	1	Carbonate as CO3=	0	0
Sodium as Na+ (Calc)	28	1	Bicarbonate as HCO3-	195	3
Barium as Ba++	Not Determined		Sulfate as SO4=	34	1
Oil Content	0		Chloride as Cl-	50	1

Total Dissolved Solids, Calculated: 378 mg/L.

Calculated Resistivity: 0.213 ohm-meters
mg/L. Hydrogen Sulfide: 0
mg/L. Carbon Dioxide: 8
mg/L. Dissolved Oxygen: 5.5

pH: 8.300
Specific Gravity 60/60 F.: 0.998
Saturation Index @ 80 F.: -0.404
@ 140 F.: +0.496

Total Hardness: 205 mg/L. as CaCO3
Total Iron: 0.05 mg/L. as Fe++

Calcium Sulfate Scaling Potential
Not Present

Estimated Temperature of Calcium Carbonate Instability is 105 F.

Analyst 10:44 AM

PROBABLE MINERAL COMPOSITION

COMPOUND	MG/L	MEQ/L
Ca(HCO3)2	220	2.7
CaSO4	0	0.0
CaCl2	0	0.0
Mg(HCO3)2	35	0.5
MgSO4	43	0.7
MgCl2	9	0.2
NaHCO3	0	0.0
Na2SO4	0	0.0
NaCl	71	1.2

AD - 31-119

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

GOVERNOR

5/24/99

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(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:

Cross Timbers Operating Co SEMGSAU # 908-A 32-17s-33e
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK.
Protection of fresh water OK BSK

Yours very truly,

Chris Williams

Chris Williams
Supervisor, District 1

/ed