



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
Operator Lease & Well No. Unit S-T-R 32-175-33e

and my recommendations are as follows:

OR.

Protection of fresh water OK PZK

Yours very truly,

Chris Williams
Supervisor, District 1

/ed

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: 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? 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 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.

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 thereto for a period.

of 1

weeks.

Beginning with the issue dated

May 8 1999

and ending with the issue dated

May 8 1999

Jodi Nenson

Publisher

Sworn and subscribed to before

me this 7th day of

May 1999

Jodi Nenson

Notary Public.

My Commission expires
October 18, 2000

(Seal)

NOTARY

STATE OF NEW MEXICO

JODI NENSON

Notary Public

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

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
Santa Fe, NM 87501

#16603

01102696000 02527026

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

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.

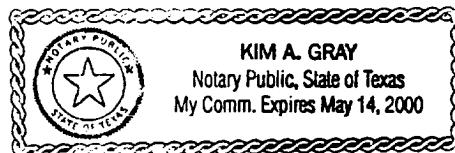
Ray F. Martin

Ray F. Martin
Operations Engineer

SWORN AND SUBSCRIBED TO before me this 20th day of May, 1999.
My Commission Expires: 5/14/00

Kim A. Gray

Notary Public



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

Z 208 789 666
US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Street Number	P. O. Box 1150	Post Office, State & Zip Code	Midland, TX 79702
Postage	\$		
Certified Fees			
Special Delivery Fee			
Restricted Delivery Fee			
Return Receipt Showing to Whom & Date Delivered			
Return Receipt Showing Return Date & Address			
TOTAL Postage & Fees	\$		
Postmark or Date			
PS Form 3800, April 1995	5/20/99		

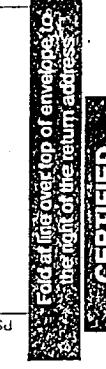


Z 208 789 666
US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Street & Number	Phillips Pet Co.	Street & Number	The Wiser Oil Co.
Post Office, State & Zip Code	5001 Penbrook	Post Office, State & Zip Code	815 Preston Rd., Suite 400
Midland, TX 79701	Odessa, TX 79762	Dallas, TX 75225	
Postage	\$	Postage	\$
Certified Fees		Certified Fees	
Special Delivery Fee		Special Delivery Fee	
Restricted Delivery Fee		Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered		Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing Return Date & Address		Return Receipt Showing Return Date & Address	
TOTAL Postage & Fees	\$	TOTAL Postage & Fees	\$
Postmark or Date		Postmark or Date	
PS Form 3800, April 1995	5/20/99	PS Form 3800, April 1995	5/20/99



Street & Number	Sent to	Street & Number	US Postal Service Receipt for Certified Mail No Insurance Coverage Provided. Do not use for International Mail (See reverse)
Post Office, State & Zip Code	Phillips Pet Co.	Post Office, State & Zip Code	No Insurance Coverage Provided. Do not use for International Mail (See reverse)
Midland, TX 79701	Odessa, TX 79762	Midland, TX 79710-0000	
Postage	\$	Postage	\$
Certified Fees		Certified Fees	
Special Delivery Fee		Special Delivery Fee	
Restricted Delivery Fee		Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered		Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing Return Date & Address		Return Receipt Showing Return Date & Address	
TOTAL Postage & Fees	\$	TOTAL Postage & Fees	\$
Postmark or Date		Postmark or Date	
PS Form 3800, April 1995	5/20/99	PS Form 3800, April 1995	5/20/99



Street & Number	Sent to	Street & Number	US Postal Service Receipt for Certified Mail No Insurance Coverage Provided. Do not use for International Mail (See reverse)
Post Office, State & Zip Code	Pennzoil E&P Co.	Post Office, State & Zip Code	No Insurance Coverage Provided. Do not use for International Mail (See reverse)
Midland, TX 79710-0000	Midland, TX 79710-0000	Midland, TX 79710-0000	
Postage	\$	Postage	\$
Certified Fees		Certified Fees	
Special Delivery Fee		Special Delivery Fee	
Restricted Delivery Fee		Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered		Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing Return Date & Address		Return Receipt Showing Return Date & Address	
TOTAL Postage & Fees	\$	TOTAL Postage & Fees	\$
Postmark or Date		Postmark or Date	
PS Form 3800, April 1995	5/20/99	PS Form 3800, April 1995	5/20/99



Z 206 789 664

**US Postal Service
Receipt for Certified Mail**No Insurance Coverage Provided.
Do not use for International Mail (See reverse)Sent to:
Mr. Mike NewellStreet Number
P. O. Drawer 1599
Post Office, State & Zip Code
Lovington, NM 88260

Postage \$

PS Form 3800, April 1995
Z 206 789 663

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 & Address of Return Address	
TOTAL Postage & Fees	\$
Postmark or Date	5/20/99

PS Form 3800, April 1995
Z 206 789 664

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 & Address of Return Address	
TOTAL Postage & Fees	\$
Postmark or Date	5/20/99

CERTIFIED**CERTIFIED****CERTIFIED**Z 206 789 664
MAIL**MAIL****MAIL****MAIL**

Z 206 789 663

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

Sent to:

Eric Dixon

Street Number
P. O. Box 575Post Office, State & Zip Code
Portales, NM 88130

Postage \$

PS Form 3800, April 1995
Z 206 789 663

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 & Address of Return Address	
TOTAL Postage & Fees	\$
Postmark or Date	5/20/99

PS Form 3800, April 1995
Z 206 789 664

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 & Address of Return Address	
TOTAL Postage & Fees	\$
Postmark or Date	5/20/99

CERTIFIED**CERTIFIED****CERTIFIED**

Z 557 885 187

**US Postal Service
Receipt for Certified Mail**No Insurance Coverage Provided.
Do not use for International Mail (See reverse)Sent to:
Caviness Cattle Co.Street & Number
Star RoutePost Office, State & Zip Code
Calisay, NY 88113

Postage \$

PS Form 3800, April 1995
Z 557 885 187

Street & Number	Star Route
Post Office, State & Zip Code	Calisay, NY 88113
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date & Address of Return Address	
TOTAL Postage & Fees	\$
Postmark or Date	5/20/99

PS Form 3800, April 1995
Z 557 885 187

Street & Number	Star Route
Post Office, State & Zip Code	Calisay, NY 88113
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date & Address of Return Address	
TOTAL Postage & Fees	\$
Postmark or Date	5/20/99

CERTIFIED**CERTIFIED****CERTIFIED**Z 557 885 187
MAIL**MAIL****MAIL**

Z 557 885 250

Z 557 885 249

Z 557 885 252

Z 557 885 248

US Postal Service
Receipt for Certified MailNo Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Sent to

ENRD / OCD

Street & Number
1625 N. French Dr.Post Office, State, & Zip Code
Hobbs, NM 88240

Postage

\$

Postmark or Date

5/20/99

PS Form 3800, April 1995

Street & Number
2040 S. PachecoPost Office, State, & Zip Code
Santa Fe, NM 87505

\$

Certified Fee

\$

Special Delivery Fee

\$

Restricted Delivery Fee

\$

Return Receipt Showing to
Whom & Date Delivered

\$

Return Receipt Showing to Whom
Date & Addressed, Actual Date

\$

TOTAL Postage & Fees

\$

Postmark or Date

5/20/99

PS Form 3800, April 1995

Return Receipt Showing to
Whom & Date Delivered

\$

Return Receipt Showing to Whom
Date & Addressed, Actual Date

\$

TOTAL Postage & Fees

\$

Postmark or Date

5/20/99

PS Form 3800, April 1995

CERTIFIED

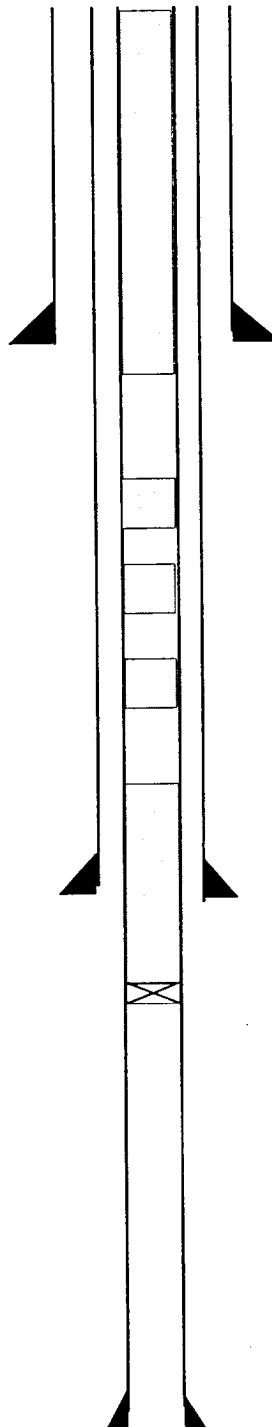
NAME	OPERATOR	LOCATION	COMPL DATE	TYPE	TD	CSG SIZE	DEPTH SET	SX CMT	PERFS	COMMENTS
CMU #98	The Wiser Oil Co.	660' FSL, 660' FWL, Unit M, Sec. 28, T17S, R33E	11/29/77	Oil	4439	8 5/8"	367	250	4128-4337	Converted to WIW
						5 1/2"	4439	200		5/94
CMU #284	The Wiser Oil Co.	330' FSL & 330' FWL, Unit M, Sec. 28, T17S, R33E	1/7/98	Oil	4550	8 5/8"	396	300	4291-4333	Active Prod.
Phillips State #8	Pennzoil	660' FSL & 1980' FWL, Unit N, Sec. 28, T17S, R33E	1/24/57	Inj	4450	8 5/8"	357	125	4281-4356	Active WIW
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
Philimex #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
CMU #281	The Wiser Oil Co.	330' FSL, 1210' FWL, Unit M, Sec 28, T17S, R33E	1/31/97	Oil	4775	8 5/8"	4747	750		
						5 1/2"	6609	1650		
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	4273-4454	Active Prod.
						5 1/2"	4827	850		4492-4521
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	4200-4383	Active Prod.
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	4611-4649	
SEMGSAU #709	Cross Timbers Oper.	2250' FSL, 1225' FEL, Unit I, Sec 29, T17S, R33E	10/31/81	Oil	4450	8 5/8"	4450	900	4272-4324	Active Prod.
						5 1/2"	3950	1000		
SEMGSAU #704	Cross Timbers Oper.	1650' FSL, 990' FEL, Unit I, Sec 29, T17S, R33F	11/1/54	Oil	4360	8 5/8"	297	300	4282-4332	Active WIW
						5 1/2"	4246	800		4246-4360 Conv to inj 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.
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.
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
						7"	4034	300		Active WIW
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
						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.
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
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
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.
State CB #2	Cities Service Oil	2310' FNL & 1700' FEL, Unit G, Sec 32, T17S, R33E	10/18/65	Oil	8780	13 3/8"	333	250	8750-8758	P&A 11/83
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	
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.
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.
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
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.
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.
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)						7"	4045	102		
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
Ohio-State C #1	Chevron	1980' FNL & 330' FEL, Sec. 32, T17S, R33E	11/24/60	Oil	8826	13 3/8"	311	340	8615-8650	Active Prod
Ohio-State "A" #6	Chevron	2310' FNL & 330' FEL, Sec. 32, T17S, R33E	11/10/53	Oil	3769	8 5/8"	3168	800	3735-3769	SI
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	TYPE	TD	CSG	DEPTH	SX	PERFS	COMMENTS
			DATE		SIZE	SET	CMT			
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
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	3995-4592	Active Prod
SEMGSAU #1	Cross Timbers Oper.	990' FNL, 330' FWL, Unit D, Sec 33, T17S, R33E	9/5/53	Oil	4448	7"	3995	150	4278-4448	Active Prod.
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.
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.
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
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
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 W/W
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
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.
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
Williams-Fed#6	Phillips 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
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



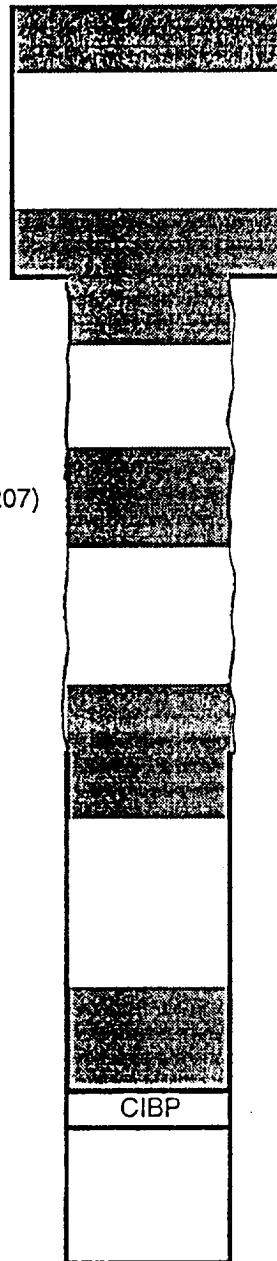
Plugs Set as follows:

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:

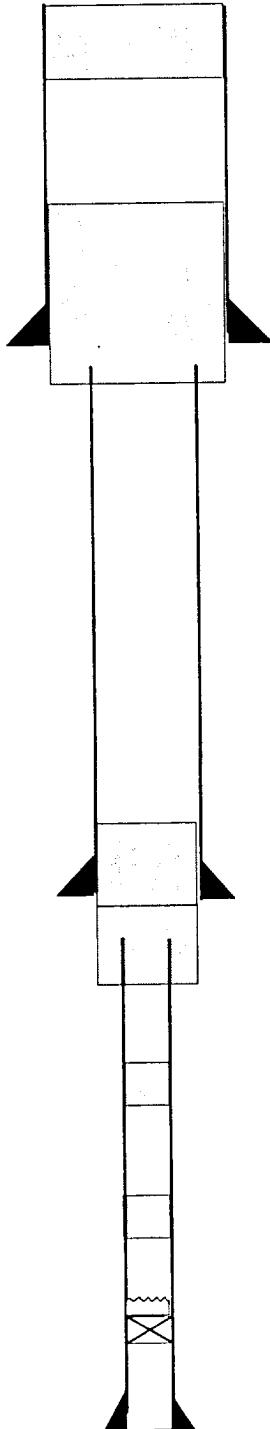
1. CIBP @ 4207 W/5 SXS (4167-4207)
2. PULLED 1738 OF 5 1/2".
3. 1688 - 1788 W/25 SXS
4. 1280 - 1380 W/40 SXS
5. 740 - 840 W/ 30 SXS
6. 0 - 30 W/10 SXS

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

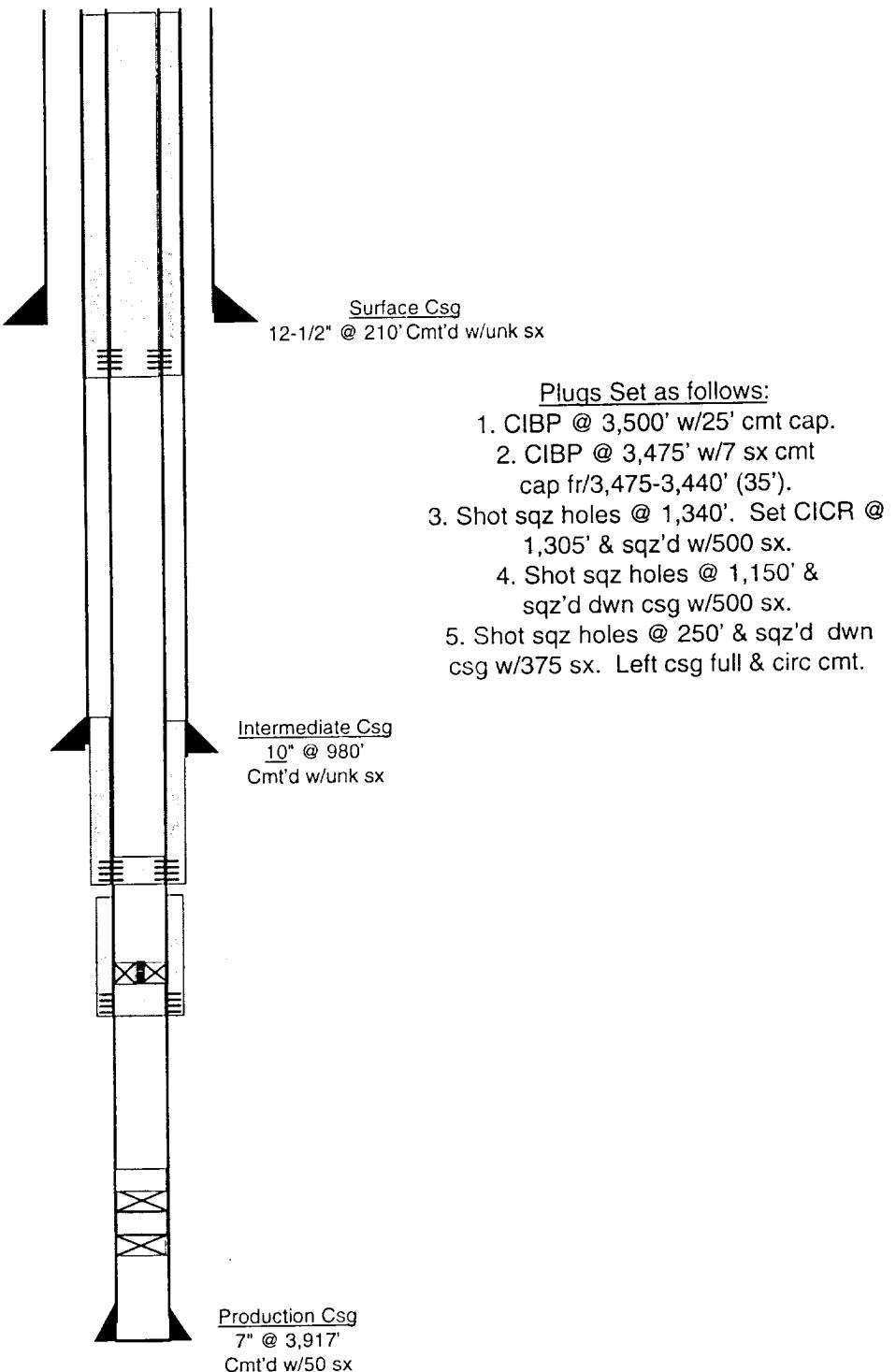


Plugs Set as follows:

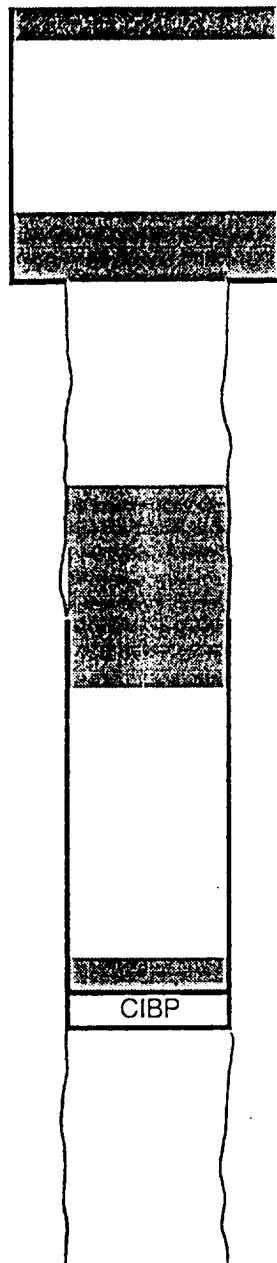
1. CIBP @ 8,630' w/5 sx cmt cap.
2. 6,234'-5,985' - 25 sx
3. 3,993'-3,743' - 25 sx
4. 3,219'-3,019' - 50 sx
5. 3,019'-2,719' - 75 sx
6. 443' - 143' - 120 sx
7. 56' - 0' - 40 sx

State CB #5

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



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

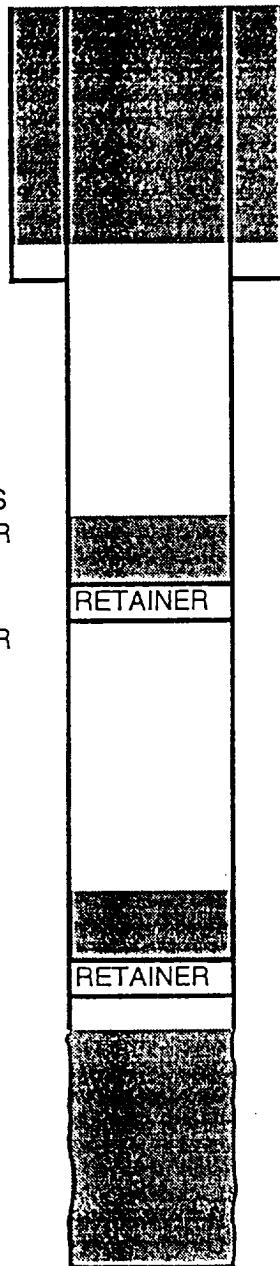
PLUGS SET AS FOLLOWS:

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

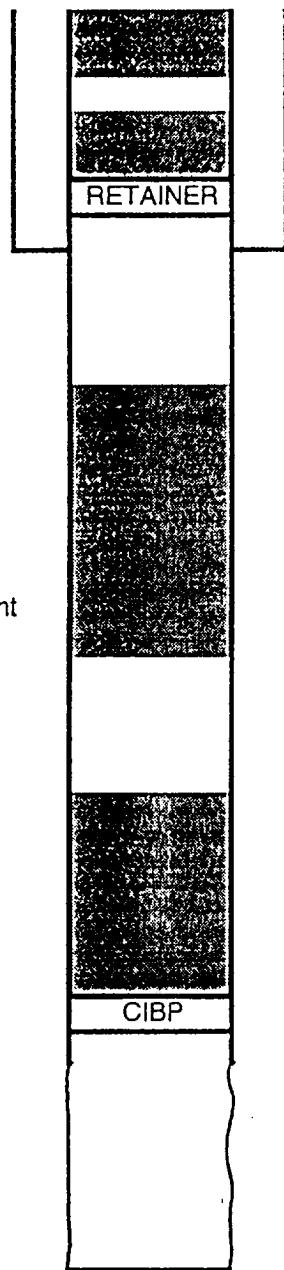
PLUGS SET AS FOLLOWS:

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



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.

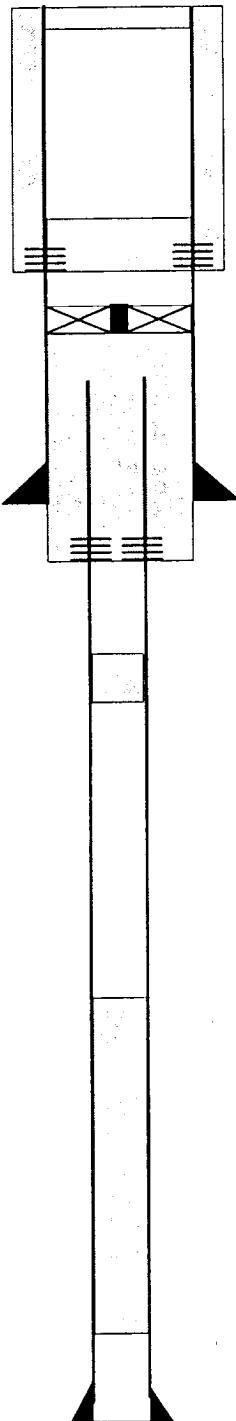
SURFACE CASING:
7" @ 1231', CMT W/50 SX

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

TD:4298

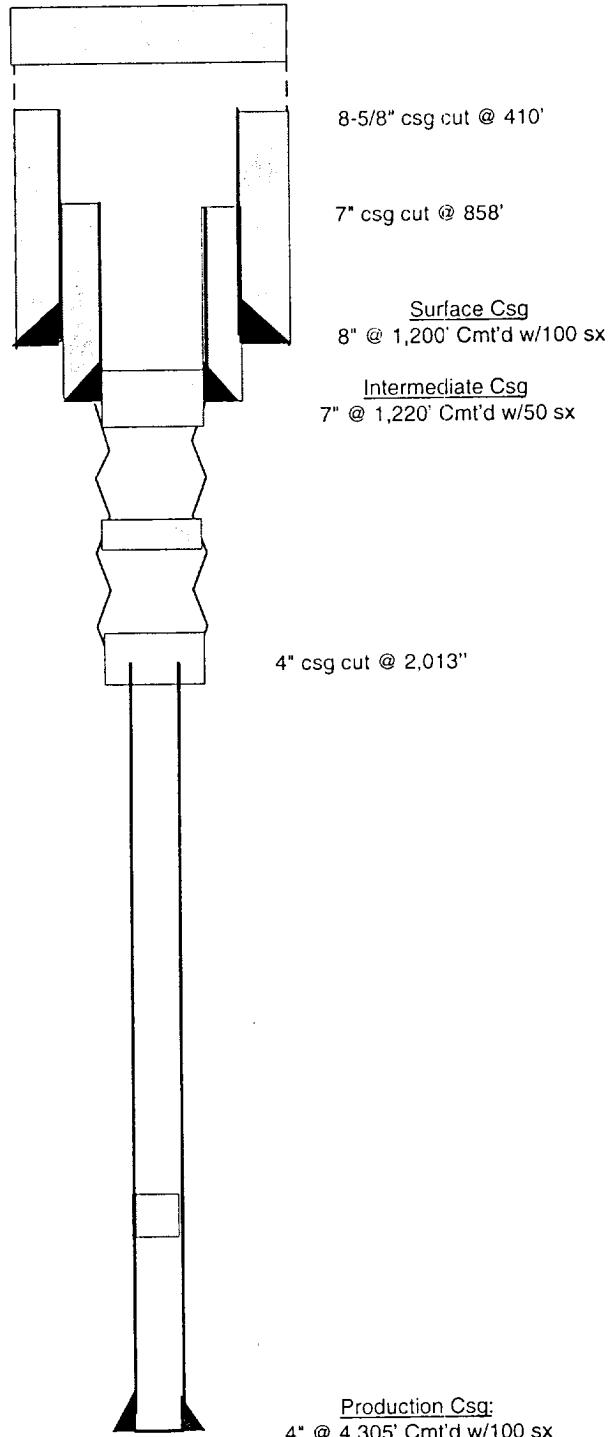
Wyatt "A" Federal #3

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



Wyatt-Phillips #5

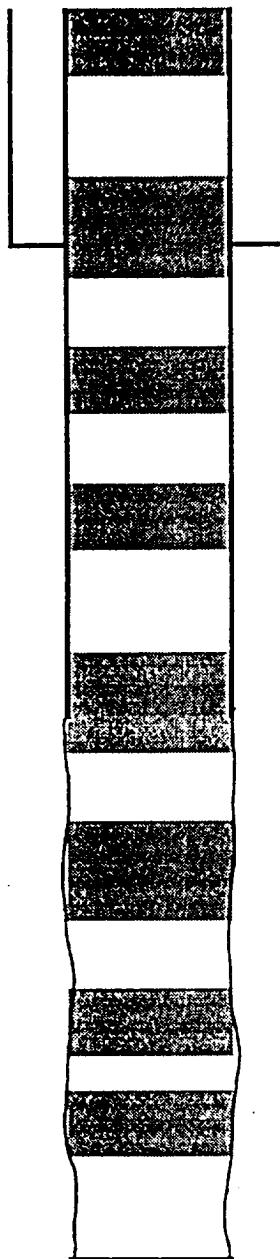
990' FNL & 1650' FWL, Unit C, Sec 33, T17S, R33E



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



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 .

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.

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

Analyst

10:44 AM