STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

WFX

FORM C-108 Revised 7-1-81

10/17/97

731

RECEIVED
DEC - 4 1997
OIL CONSERVATION DIVISION

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: Cross Timbers Operating Company

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

Contact party: Darrin Steed 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? [XX] 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: Darrin Steed Title Operations Engineer

Signature: Darrin Steed Date: 11/06/97

* 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.

CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: CROSS TIMBERS Well: SEMGSA UNIT - 6 WELLS

Contact: DARRIN STEED Title: OP. ENG. Phone: 915-682-8873

DATE IN 12-4-97 RELEASE DATE 12-19-97 DATE OUT 2-10-98

Proposed Injection Application is for: X **WATERFLOOD** X Expansion ___ Initial

Original Order: R- 3134 ___ Secondary Recovery ___ Pressure Maintenance

SENSITIVE AREAS ___ **SALT WATER DISPOSAL** ___ Commercial Well

___ WIPP ___ Capitan Reef

Data is complete for proposed well(s)? YES Additional Data Req'd _____

AREA of REVIEW WELLS

100 Total # of AOR

23 # of Plugged Wells

YES Tabulation Complete

YES Schematics of P & A's

YES Cement Tops Adequate

NO AOR Repair Required

INJECTION FORMATION

Injection Formation(s) GRAYBURG Compatible Analysis YES

Source of Water or Injectate AREA PRODUCTION + MAKE-UP

PROOF of NOTICE

YES Copy of Legal Notice

YES Information Printed Correctly

YES Correct Operators

YES Copies of Certified Mail Receipts

NO Objection Received

___ Set to Hearing _____ Date

NOTES: _____

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL? YES

COMMUNICATION WITH CONTACT PERSON:

1st Contact:	X Telephoned	___ Letter	2-9-98 Date	Nature of Discussion VERBAL APP - WFX-731
2nd Contact:	___ Telephoned	___ Letter	_____ Date	Nature of Discussion _____
3rd Contact:	___ Telephoned	___ Letter	_____ Date	Nature of Discussion _____

CROSS TIMBERS OPERATING COMPANY

SEMGSAU #15 - 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: 15

   Location: 500' FNL & 330' FWL, Unit D
   Section 32, T-17-S, R-33-E
   Lea County, NM

2. Casing: Surface - 8 5/8", 23# @ 417', cmt'd w/275 sxs., circ 59 sxs to surface.

   Production - 5 1/2", 15.5# @ 4359', cmt'd w/1350 sxs., circ 243 sxs to surface.

3. Tubing: 2 3/8", 4.7#, J-55, internally plastic coated set @ 4262'.

4. Packer: Baker Model AD-1 set @ 4262'.

B. Other well information

1. Injection formation: Grayburg
   Field: Maljamar Grayburg San Andres 4218

2. Existing cased hole perforated from 4322' - 4395'.

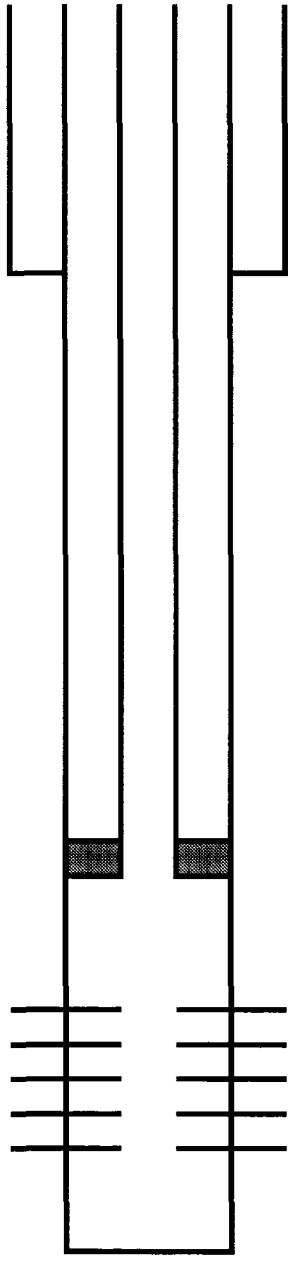
3. Originally drilled for oil and gas production.

4. There are no other perforated or tested zones.

5. There are no upper productive zones. The San Andres formation is productive at about 4300' and is included in this pool. The Abo formation is productive at about 8600'.

WELL: SEMGSAU #15
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 500' FNL, 330' FWL, UNIT D, SEC 32, T17S, R33E, LEA COUNTY, NM
API #: 30-025-33615

PROPOSED INJECTOR



12 1/4" Hole

SURFACE CASING:
8 5/8", 23# @ 417', CMT W/275 SXS. CIRC 59 SXS.

TBG: 2 3/8", 4.7#, J-55, IPC set @ 4262'.

PKR: BAKER MODEL AD-1 set @ 4262'.

PERFS: 4322 - 4395

7 7/8" Hole

PRODUCTION CASING:
5 1/2", 15.5# @ 4359', CMT W/1350 SXS. CIRC 243 SXS.

PBTD: 4444
TD:4510

CROSS TIMBERS OPERATING COMPANY

SEMGSAU #106 - 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: 106

   Location: 1040' FSL & 420' FEL, Unit P
   Section 30, T-17-S, R-33-E
   Lea County, NM

2. Casing: Surface - 8 5/8", 23# @ 392', cmt'd w/250 sxs., circ 79 sxs to surface.

   Production - 5 1/2", 15.5# @ 4417', cmt'd w/950 sxs., circ 225 sxs to surface.

3. Tubing: 2 3/8", 4.7#, J-55, internally plastic coated set @ 4158'.

4. Packer: Baker Model AD-1 set @ 4158'.

B. Other well information

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

2. Existing cased hole perforated from 4218' - 4279'.

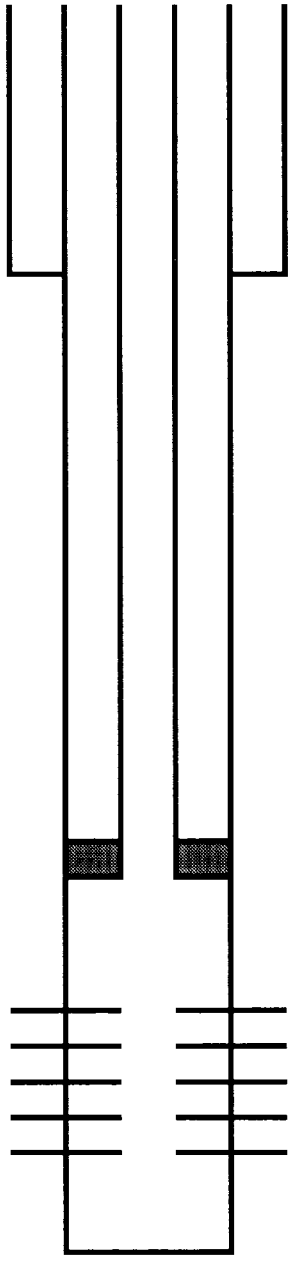
3. Originally drilled for oil and gas production.

4. There are no other perforated or tested zones.

5. There are no upper productive zones. The San Andres formation is productive at about 4300' and is included in this pool. The Abo formation is productive at about 8600'.

WELL: SEMGSAU #106
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 1040' FSL, 420' FEL, UNIT P, SEC 30, T17S, R33E, LEA COUNTY, NM
API #: 30-025-33353

PROPOSED INJECTOR



12 1/4" Hole

7 7/8" Hole

SURFACE CASING:
8 5/8", 23# @ 392', CMT W/250 SXS. CIRC 79 SXS.

TBG: 2 3/8", 4.7#, J-55, IPC set @ 4158'.

PKR: BAKER MODEL AD-1 set @ 4158'.

PERFS: 4218 - 4279

PRODUCTION CASING:
5 1/2", 15.5# @ 4417', CMT W/950 SXS. CIRC 225 SXS.

PBTD: 4369
TD:4418

CROSS TIMBERS OPERATING COMPANY

SEMGSAU #610 - 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: 610

   Location: 1310' FSL & 750' FWL, Unit M
   Section 29, T-17-S, R-33-E
   Lea County, NM

2. Casing: Surface - 8 5/8", 23# @ 348', cmt'd w/250 sxs., circ 17 sxs to surface.

   Production - 5 1/2", 15.5# @ 4397', cmt'd w/900 sxs., TOC ~ 300' by Temp Survey.

3. Tubing: 2 3/8", 4.7#, J-55, internally plastic coated set @ 4192'.

4. Packer: Baker Model AD-1 set @ 4192'.

B. Other well information

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

2. Existing cased hole perforated from 4252' - 4278'.

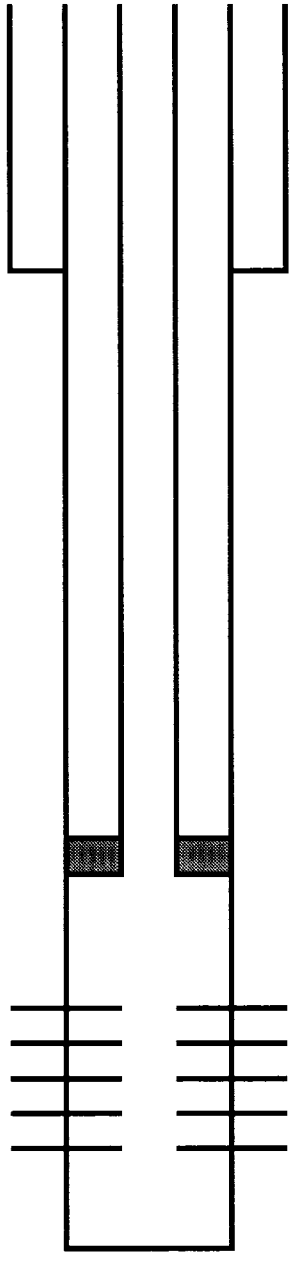
3. Originally drilled for oil and gas production.

4. There are no other perforated or tested zones.

5. There are no upper productive zones. The San Andres formation is productive at about 4300' and is included in this pool. The Abo formation is productive at about 8600'.

WELL: SEMGSAU #610
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 1310' FSL, 750' FWL, UNIT M, SEC 29, T17S, R33E, LEA COUNTY, NM
API #: 30-025-32888

PROPOSED INJECTOR



12 1/4" Hole

7 7/8" Hole

PBTD: 4351
TD:4397

SURFACE CASING:
8 5/8", 23# @ 348', CMT W/250 SXS. CIRC 17 SXS.

TBG: 2 3/8", 4.7#, J-55, IPC set @ 4192'.

PKR: BAKER MODEL AD-1 set @ 4192'.

PERFS: 4252 - 4278

PRODUCTION CASING:
5 1/2", 15.5# @ 4397', CMT W/900 SXS. TOC ~ 300' by Temp Survey.

CROSS TIMBERS OPERATING COMPANY

SEMGSAU #614 - 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: 614

   Location: 1070' FSL & 1888' FWL, Unit N
   Section 29, T-17-S, R-33-E
   Lea County, NM

2. Casing: Surface - 8 5/8", 23# @ 357', cmt'd w/250 sxs., circ 84 sxs to surface.

   Production - 5 1/2", 15.5# @ 4394', cmt'd w/850 sxs., circ 34 sxs to surface.

3. Tubing: 2 3/8", 4.7#, J-55, internally plastic coated set @ 4190'.

4. Packer: Baker Model AD-1 set @ 4190'.

B. Other well information

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

2. Existing cased hole perforated from 4250' - 4308'.

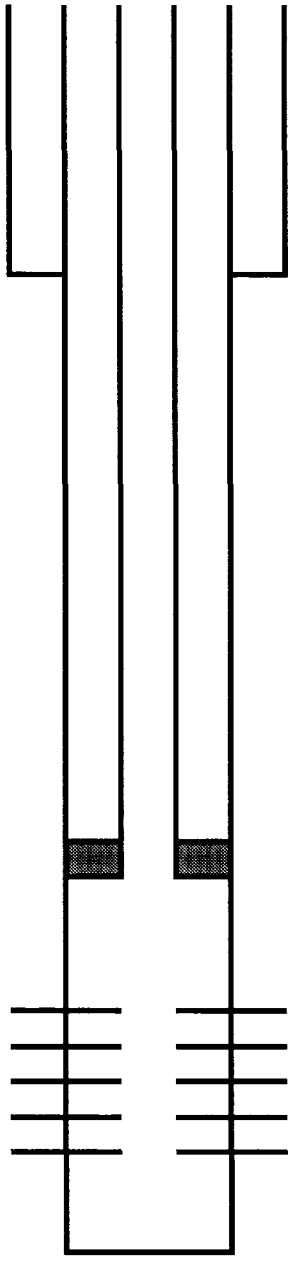
3. Originally drilled for oil and gas production.

4. There are no other perforated or tested zones.

5. There are no upper productive zones. The San Andres formation is productive at about 4300' and is included in this pool. The Abo formation is productive at about 8600'.

WELL: SEMGSAU #614
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 1070' FSL, 1888' FWL, UNIT N, SEC 29, T17S, R33E, LEA COUNTY, NM
API #: 30-025-33337

PROPOSED INJECTOR



12 1/4" Hole

7 7/8" Hole

SURFACE CASING:
8 5/8", 23# @ 357', CMT W/250 SXS. CIRC 84 SXS.

TBG: 2 3/8", 4.7#, J-55, IPC set @ 4190'.

PKR: BAKER MODEL AD-1 set @ 4190'.

PERFS: 4250 - 4308

PRODUCTION CASING:
5 1/2", 15.5# @ 4394', CMT W/850 SXS. Circ 34 sxs.

PBTD: 4350
TD:4395

CROSS TIMBERS OPERATING COMPANY

SEMGSAU #710 - 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: 710

   Location: 1165' FSL & 2010' FEL, Unit O
   Section 29, T-17-S, R-33-E
   Lea County, NM

2. Casing: Surface - 8 5/8", 23# @ 404', cmt'd w/250 sxs., circ 50 sxs to surface.

   Production - 5 1/2", 15.5# @ 4394', cmt'd w/850 sxs., circ 80 sxs to surface.

3. Tubing: 2 3/8", 4.7#, J-55, internally plastic coated set @ 4212'.

4. Packer: Baker Model AD-1 set @ 4212'.

B. Other well information

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

2. Existing cased hole perforated from 4272' - 4324'.

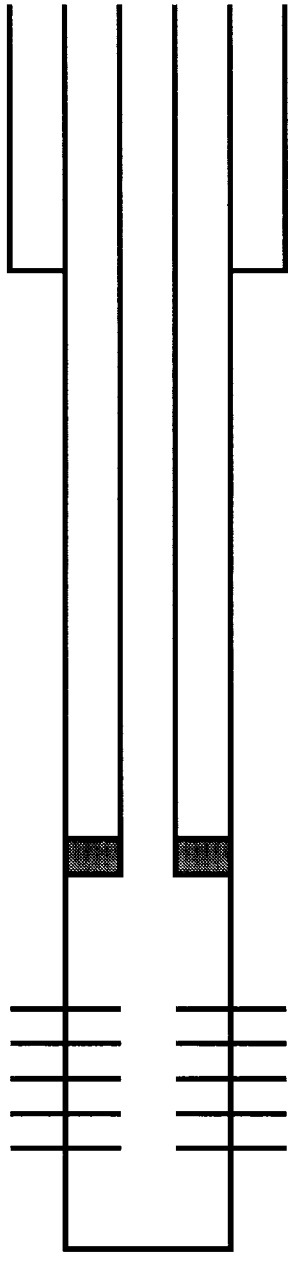
3. Originally drilled for oil and gas production.

4. There are no other perforated or tested zones.

5. There are no upper productive zones. The San Andres formation is productive at about 4300' and is included in this pool. The Abo formation is productive at about 8600'.

WELL: SEMGSAU #710
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 1165' FSL, 2010' FEL, UNIT O, SEC 29, T17S, R33E, LEA COUNTY, NM
API #: 30-025-33338

PROPOSED INJECTOR



12 1/4" Hole

SURFACE CASING:
8 5/8", 23# @ 404', CMT W/250 SXS. CIRC 50 SXS.

TBG: 2 3/8", 4.7#, J-55, IPC set @ 4212'.

PKR: BAKER MODEL AD-1 set @ 4212'.

PERFS: 4272 - 4324

7 7/8" Hole

PRODUCTION CASING:
5 1/2", 15.5# @ 4394', CMT W/850 SXS. CIRC 80 SXS.

PBTD: 4350
TD:4400

CROSS TIMBERS OPERATING COMPANY

SEMGSAU #714 - 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: 714

   Location: 1200' FSL & 900' FEL, Unit P
   Section 29, T-17-S, R-33-E
   Lea County, NM

2. Casing: Surface - 8 5/8", 23# @ 340', cmt'd w/250 sxs., circ 93 sxs to surface.

   Production - 5 1/2", 15.5# @ 4450', cmt'd w/900 sxs., TOC ~ 680' by Temp Survey.

3. Tubing: 2 3/8", 4.7#, J-55, internally plastic coated set @ 4222'.

4. Packer: Baker Model AD-1 set @ 4222'.

B. Other well information

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

2. Existing cased hole perforated from 4282' - 4332'.

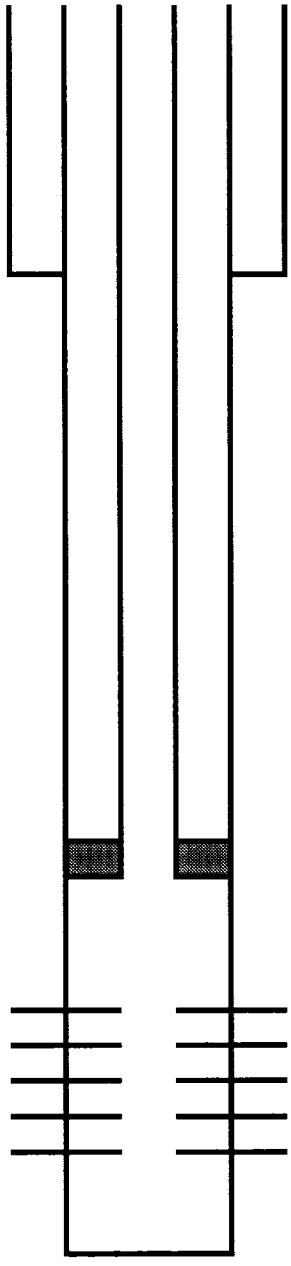
3. Originally drilled for oil and gas production.

4. There are no other perforated or tested zones.

5. There are no upper productive zones. The San Andres formation is productive at about 4300' and is included in this pool. The Abo formation is productive at about 8600'.

WELL: SEMGSAU #714
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 1200' FSL, 900' FEL, UNIT P, SEC 29, T17S, R33E, LEA COUNTY, NM
API #: 30-025-33869

PROPOSED INJECTOR



12 1/4" Hole

7 7/8" Hole

SURFACE CASING:
8 5/8", 23# @ 340', CMT W/250 SXS. CIRC 93 SXS.

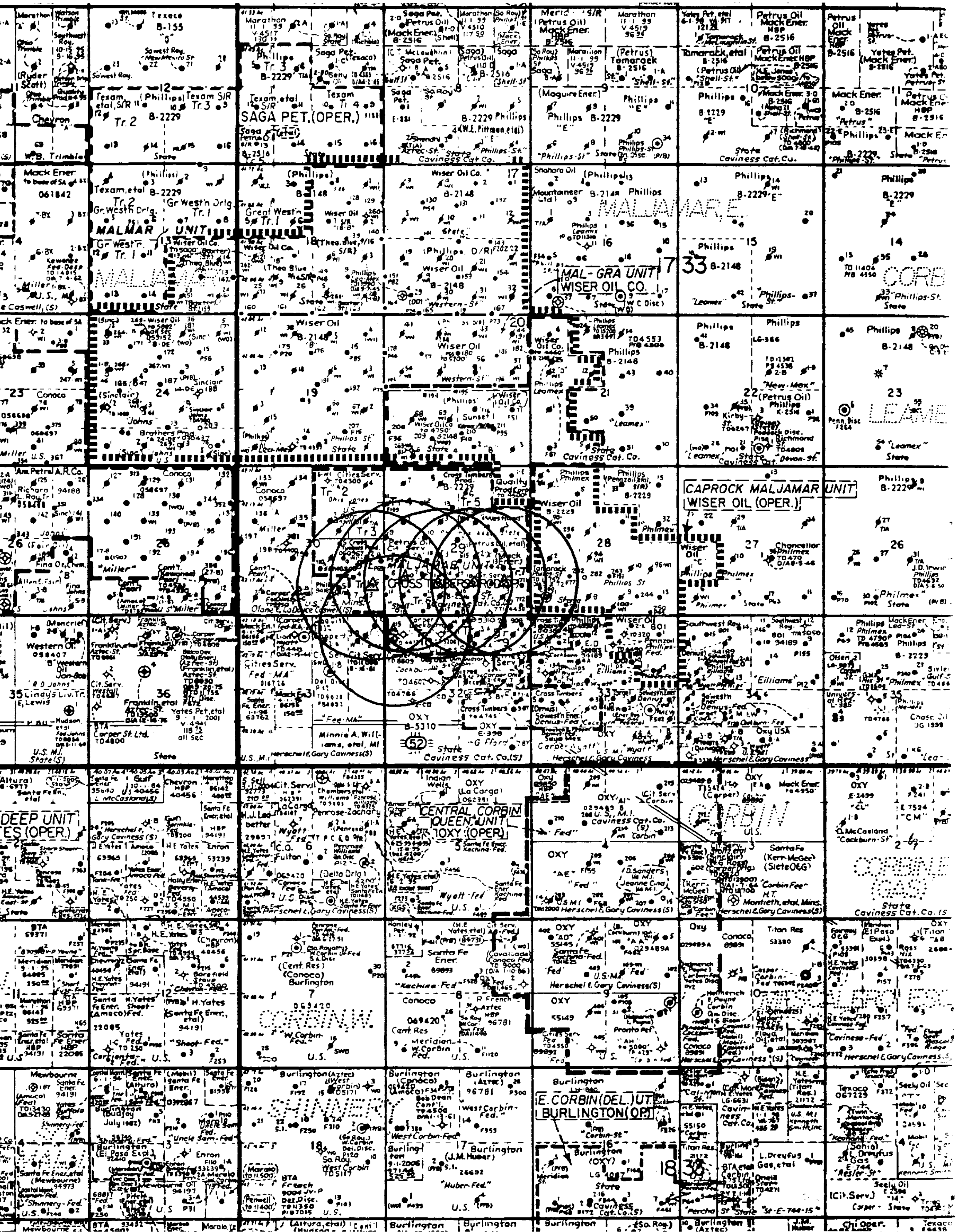
TBG: 2 3/8", 4.7#, J-55, IPC set @ 4222'.

PKR: BAKER MODEL AD-1 set @ 4222'.

PERFS: 4282 - 4332

PRODUCTION CASING:
5 1/2", 15.5# @ 4450', CMT W/900 SXS. TOC ~ 680' by Temp Survey.

PBTD: 4404
TD:4450


SAGA PET.(OPER.)
MALMAR UNIT
MALJAMAR
MALJAMAR,E.
MAL-GRA UNIT
WISER OIL CO.
CORB
LEAME
CAPROCK MALJAMAR UNIT
WISER OIL (OPER.)
CROSS TIMBERS OPER.
DEEP UNIT
ES (OPER.)
CENTRAL CORBIN
QUEEN UNIT
OXY (OPER.)
CORBIN
CORBIN,W.
E. CORBIN (DEL.) UT.
BURLINGTON (OP.)
Caviness Cat. Co.
Phillips
Wiser Oil
Burlington
State
U.S.

NAME	OPERATOR	LOCATION	COMPL DATE	TYPE	TD	CSG SIZE	DEPTH SET	SX CMT	PERFS	COMMENTS
CMU #90	The Wiser Oil Co.	1980' FNL, 660' FWL, Unit E, Sec 28, T17S, R33E	18/28/57	OIL	4765	8 5/8"	1407'	500	4531-4631'	Est. TOC @ 3376'
						5 1/2"	4525'	225	4707-4743'	
CMU #236	The Wiser Oil Co.	2460' FNL, 1308' FWL, Unit E, Sec 28, T17S, R33E	101/4/96	OIL	4900	8 5/8"	365	325	4224-4698	Active Prod.
						5 1/2"	4900	1150		
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		
CMU #98	The Wiser Oil Co.	660' FSL, 660' FWL, Unit M, Sec 28, T17S, R33E	12/21/57	OIL	4440	8 5/8"	354	250	4299-4337	WO in 12/77
						5 1/2"	4439	500		
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	Plugged back
						8 5/8"	4747	750		to 6609
						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 #411	Cross Timbers Oper.	1345' FNL, 100' FWL, Unit E, Sec 29, T17S, R33E	2/21/82	OIL	4073	8 5/8"	1299	900	3900-4073	P&A 4/15/83
						5 1/2"	3900	1200		
SEMGSAU #412	Cross Timbers Oper.	1295' FNL, 1295' FWL, Unit D, Sec 29, T17S, R33E	2/2/82	OIL	4425	8 5/8"	1305	800	4081-4276	CIBP @ 4250
						5 1/2"	3900	1200	4344-4357	CIBP @ 4325
						4"	3654-4424	75		Active Prod.
SEMGSAU #402	Cross Timbers Oper.	1980' FNL, 660' FEL, Unit E, Sec 29, T17S, R33E	7/16/43	OIL	4320	9 5/8"	1120	650	4051-4204	Active Prod.
						7"	4017	250		
						5"	3924-4234	200		
SEMGSAU #403	Cross Timbers Oper.	1980' FNL, 1980' FWL, Unit F, Sec 29, T17S, R33E	6/1/44	OIL	4300	8 5/8"	1214	550	4185-4277	Conv to inj 9/85
				INJ		5 1/2"	4019	300		TA 12/93
						4"	3696-4432	50		
SEMGSAU #409	Cross Timbers Oper.	2615' FNL, 25' FWL, Unit E, Sec 29, T17S, R33E	10/14/78	OIL	4359	8 5/8"	1300	650	4296-4326	P&A 12/83
						5 1/2"	4359	3350		

NAME	OPERATOR	LOCATION	COMPL DATE	TYPE	TD	CSG SIZE	DEPTH SET	SX CMT	PERFS	COMMENTS
SEMGSAU #410	Cross Timbers Oper.	2615' FNL, 1420' FWL, Unit F, Sec 29, T17S, R33E	12/6/78	OIL	4377	8 5/8"	1316	650	4083-4088	TA 5/95
						5 1/2"	4343	2350	4168-4340	
SEMGSAU #504	Cross Timbers Oper.	1980' FNL, 1980' FEL, Unit G, Sec 29, T17S, R33E	10/4/58	OIL	4440	8 5/8"	1270	400	4200-4306	Conv to inj 12/80
						5 1/2"	4356	85		P&A 5/83
						4"	3742-4439	150		
SEMGSAU #505	Cross Timbers Oper.	2310' FNL, 990' FEL, Unit H, Sec 29, T17S, R33E	9/4/58	OIL	4485	8 5/8"	254	250	4137-4472	Conv to inj 10/67
				INJ		5 1/2"	4485	150		TA 12/93
SEMGSAU #507	Cross Timbers Oper.	2615' FNL, 2615' FEL, Unit G, Sec 29, T17S, R33E	3/5/80	OIL	4380	8 5/8"	1300	660	4305-4354	TA 5/95
						5 1/2"	3888	800		
						4"	3696-4379	50		
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 #702	Cross Timbers Oper.	1980' FSL, 1980' FEL, Unit J, Sec 29, T17S, R33E	3/1/44	OIL	4400	8 5/8"	1246	400	4192-4302	Conv to inj 9/67
				INJ		7"	4042	180		Active WIW
						5"	3703-4399	80		
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 #705	Cross Timbers Oper.	1395' FSL, 2615' FEL, Unit J, Sec 29, T17S, R33E	12/14/71	OIL	4450	8 5/8"	369	300	4178-4300	Active Prod.
						5 1/2"	4448	335		
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"	4316	435		
SEMGSAU #615	Cross Timbers Oper.	1900' FSL, 2630' FWL, Unit K, Sec 29, T17S, R33E	11/26/96	OIL	4400	8 5/8"	418	275	4278-4297	Active Prod.
						5 1/2"	4400	950		
SEMGSAU #603	Cross Timbers Oper.	1980' FSL, 1980' FWL, Unit K, SEc 29, T17S, R33E	4/14/49	OIL	4300	8 5/8"	1260	50	4115-4300	Conv to inj 12/71
				INJ		7"	3950	75		P&A 7/93
						4 1/2"	3724-4115	400		
SEMGSAU #613	Cross Timbers Oper.	1930' FSL, 1516' FWL, Unit K, Sec 29, T17S, R33E	5/23/96	OIL	4325	8 5/8"	394	250	4250-4277	Active Prod.
						5 1/2"	4324	850		
SEMGSAU #601	Cross Timbers Oper.	1980' FSL, 660' FEL, Unit L, Sec 29, T17S, R33E	10/31/43	OIL	4253	8 5/8"	1265	50	4253-4272	Conv to inj 8/67
				INJ		7"	3960	75		P&A 12/84
						4	3809-4253	200		
SEMGSAU #609	Cross Timbers Oper.	450' FWL, 1920' FSL, Unit L, Sec 29, T17S, R33E	1/10/92	OIL	4420	9 5/8"	1248	650	4153-4278	CIBP @ 4315
				INJ		5 1/2"	4422	1375		Active WIW
SEMGSAU #606	Cross Timbers Oper.	1310' FSL, 100' FWL, Unit M, Sec 29, T17S, R33E	2/6/73	OIL	4294	8 5/8"	833	400	4170-4271	Active Prod.
						5 1/2"	4292	435		
SEMGSAU #607	Cross Timbers Oper.	1455' FSL, 1330' FWL, Unit K, Sec 29, T17S, R33E	10/28/80	OIL	4360	8 5/8"	1302	660	4177-4265	Active Prod.
						5 1/2"	3900	800	4302-4326	
						4"	3728-4360	485		
SEMGSAU #605	Cross Timbers Oper.	1330' FSL, 1330' FWL, Unit K, Sec 29, T17S, R33E	11/15/47	OIL	4320	10"	20	150	4189-4370	P&A 10/80
						7"	4008	90		
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		
SEMGSAU #602	Cross Timbers Oper.	660' FSL, 1980' FWL, Unit N, Sec 29, T17S, R33E	8/18/43	OIL	4312	8 1/4"	1300	25	4060-4312	Conv to inj 12/67
				INJ		7"	4060	200		P&A 3/82

NAME	OPERATOR	LOCATION	COMPL DATE	TYPE	TD	CSG SIZE	DEPTH SET	SX CMT	PERFS	COMMENTS
SEMGSAU #612	Cross Timbers Oper.	710' FSL, 1425' FWL, Unit N, Sec 29, T17S, R33E	5/31/95	OIL	4473	8 5/8"	333	250	4280-4339	Active Prod.
						5 1/2"	4473	1000		
SEMGSAU #604	Cross Timbers Oper.	660' FSL, 660' FWL, Unit M, Sec 29, T17S, R33E	12/15/43	OIL	4444	8 5/8"	1260	50	4236-4326	Conv to inj 10/81
				INJ		7"	3939	75		Active WIW
						5"	3759-4444	75		
SEMGSAU #611	Cross Timbers Oper.	710' FSL, 50' FWL, Unit M, Sec 29, T17S, R33E	5/24/95	OIL	4463	8 5/8"	357	250	4234-4324	Active Prod.
						5 1/2"	4463	800		
SEMGSAU #608	Cross Timbers Oper.	125' FSL, 1345' FWL, Unit N, Sec 29, T17S, R33E	12/31/91	OIL	4550	8 5/8"	309	250	4257-4382	Active Prod.
						5 1/2"	4550	1070		
SEMGSAU #202	Cross Timbers Oper.	1980' FNL, 1980' FEL, Unit G, Sec 30, T17S, R33E	10/14/44	OIL	4303	8 5/8"	1175	275	4027-4285	P&A 6/80
						7"	3937	100		
SEMGSAU #203	Cross Timbers Oper.	2310' FNL, 1650' FEL, Unit G, Sec 30, T17S, R33E	7/29/53	OIL	4278	8 5/8"	1181	50	4132-4189	P&A 6/83
						7"	3927	100		
						5"	3798-4227	40		
SEMGSAU #301	Cross Timbers Oper.	1980' FNL, 660' FEL, Unit H, Sec 30, T17S, R33E	3/12/44	OIL	4285	8 5/8"	1160	100	4114-4192	Conv to inj 7/80
				INJ		7"	3915	150		TA 7/93
						5"	3567-4359	100		
SEMGSAU #105	Cross Timbers Oper.	2490' FSL, 1595' FEL, Unit I, Sec 30, T17S, R33E	4/15/80	OIL	4350	8 5/8"	1300	660	4118-4213	Active Prod.
						5 1/2"	4350	160	4230-4308	
SEMGSAU #101	Cross Timbers Oper.	1980' FSL, 1980' FEL, Unit J, Sec 30, T17S, R33E	12/10/43	OIL	4281	8 5/8"	1215	600	4179-4249	Conv to inj 9/67
				INJ		5 1/2"	3927	300		P&A 1/86
						4"	3740-4281	100		
SEMGSAU #110	Cross Timbers Oper.	1650' FSL, 2310' FEL, Unit J, Sec 30, T17S, R33E	5/8/97	OIL	4377	8 5/8"	394	250	4213-4266	Active Prod.
						5 1/2"	4377	950		
SEMGSAU #109	Cross Timbers Oper.	1980' FSL, 1470' FEL, Unit J, Sec 30, T17S, R33E	12/12/96	OIL	4355	8 5/8"	416	275	4181-4218	Active Prod.
						5 1/2"	4355	700		
SEMGSAU #102	Cross Timbers Oper.	1980' FSL, 660' FEL, Unit I, Sec 30 T17S, R33E	2/8/44	OIL	4364	8 5/8"	1215	550	4114-4226	Conv to inj 4/73
				INJ		5 1/2"	3959	350		TA 10/95
						4"	3626-4363			
SEMGSAU #108	Cross Timbers Oper.	1900' FSL, 104' FEL, Unit I, Sec 30, T17S, R33E	6/8/96	OIL	4405	8 5/8"	395	250	4223-4282	Active Prod.
						5 1/2"	4403	850		

NAME	OPERATOR	LOCATION	COMPL DATE	TYPE	TD	CSG SIZE	DEPTH SET	SX CMT	PERFS	COMMENTS
SEMGSAU #104	Cross Timbers Oper.	1355' FSL, 1135' FEL, Unit P, Sec 30, T17S, R33E	1/5/77	OIL	4350	8 5/8"	1305	650	4186-4252	Active Prod.
						5 1/2"	4349	550	4276-4306	
SEMGSAU #103	Cross Timbers Oper.	660' FSL, 660' FEL, Unit P, Sec 30, T17S, R33E	3/4/44	OIL	4355	8 5/8"	1235	550	4220-4324	Conv to inj 10/67
				INJ		5 1/2"	3951	300		P&A 3/86
						4"	3666-4355	100		
US Minerals #4	Phillips Petr.	660' FSL, 1980' FEL, Unit O, Sec 30, T17S, R33E	1/30/69	OIL	4381	9 5/8"	355	350	4250-4350	
						4 1/2"	4381	145		
US Minerals #5	Phillips Petr.	990' FSL, 1650' FEL, Unit O, Sec 30, T17S, R33E	4/28/81	OIL	4500	8 5/8"	1265	570	4226-4268	CIBP @ 4400
						5 1/2"	4449	950		
Williams #1		660' FNL, 660' FEL, Unit A, Sec 31, T17S, R33E	1/25/44	OIL	4290	8 5/8"	1274	75	4235-4305	P&A 5/80
						7"	4050	100		
Williams #1-X		330' FNL, 330' FEL, Unit A, Sec 31, T17S, R33E	7/11/50	OIL	4314	8 5/8"	1340	150	4200-4290	P&A 6/59
						7"	4015	100		
Fee MA "B" #3	OXY USA	950' FNL, 990' FEL, Unit A, Sec 31, T17S, R33E	2/7/61	OIL	8870	13 3/8"	297	250	8668-8722	
						8 5/8"	2799	950		
						5 1/2"	8869	1175		
Fee MA "B" #2	OXY USA	800' FNL, 2145' FEL, Unit B, Sec 31, T17S, R33E	6/23/60	OIL	8935	13 3/8"	297	225	8654-8692	
						8 5/8"	2799	950		
						5 1/2"	8930	1195		
Fee MA "B" #1	Agua, Inc.	1980' FNL, 1980' FEL, Unit G, Sec 31, T17S, R33E	3/31/60	SWD	9020	13 3/8"	296	225	4720-4780	
						8 5/8"	2879	500		
						5 1/2"	4894	175		
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
						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		

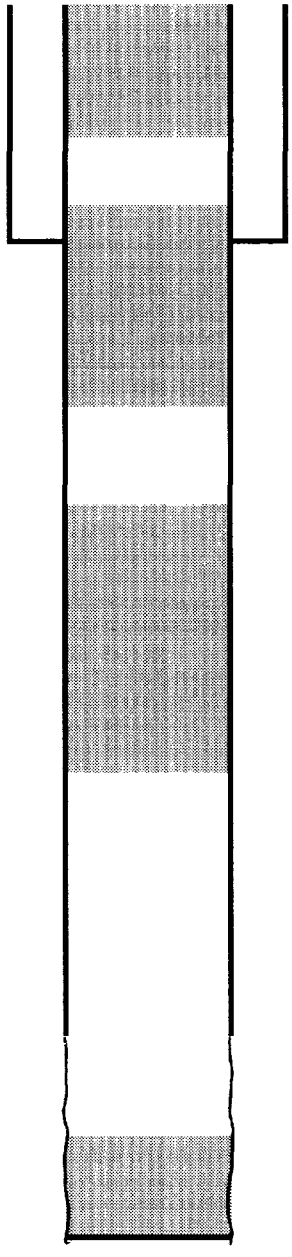
64/15

NAME	OPERATOR	LOCATION	COMPL DATE	TYPE	TD	CSG SIZE	DEPTH SET	SX CMT	PERFS	COMMENTS
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
				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
Carper State #1		777' FNL, 330' FWL, Unit D, Sec 32, T17S, R33E	7/10/61	DH	8809	11 3/4"	314	275		P&A 7/61
						8 5/8"	2915	250		
Cockburn State #1		660' FNL, 660' FWL, Unit D, Sec 32, T17S, R33E	3/1/44	DH	4473	8 5/8"	1262	50		Re P&A 3/18/80
						7"	4028	100		
Cockburn State #2		660' FNL, 1980' FEL, Unit C, Sec 32, T17S, R33E	7/28/44	DH	5200	8 5/8"	1280	50		P&A 4/80
						7"	4663	50		
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	
						8 5/8"	2899	500		
						4 1/2"	8819	700		
Carper State #7-A		2310' FNL, 1650' FWL, Unit F, Sec 32, T17S, R33E	6/15/62	DH	4601	8 5/8"	1402	300		P&A 6/62
Corbin State "A" 5	OXY USA	1980' FNL, 1980' FEL, Unit F, Sec 32, T17S, R33E	5/24/88	OIL	13705	13 3/8"	456	475	4362-4447	Re-entry
						9 5/8"	5270	1800		
State CD #2		2310' FNL, 990' FWL, Unit L, Sec 32, T17S, R33E	1/20/66	DH	4766	8 5/8"	328	300		P&A 12/66
						4 1/2"	4760	550		
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		
Cockburn #1		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		

77/23

23 SCHEMATICS CHECK O.K.

WELL: SEMGSAU #202
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 1980' FNL, 1980' FEL, UNIT G, SEC 30, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
8 5/8" @ 1175', CMT W/275 SX

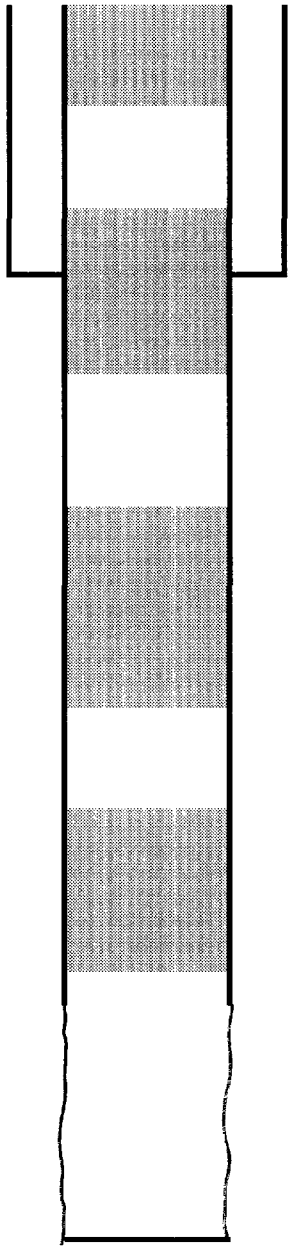
PLUGS SET AS FOLLOWS:

1. 4253 - 4303 W/10 SX.
2. 2209 - 2453 W/100 SX.
3. 1000 - 1270 W/100 SX
4. 0 - 346 W/120 SX.

PRODUCTION CASING:
7" @ 3937', CMT W/100 SX

TD:4303

WELL: SEMGSAU #411
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 1345' FNL, 100' FWL, UNIT E, SEC 29, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
8 5/8" @ 1299', CMT W/900 SX

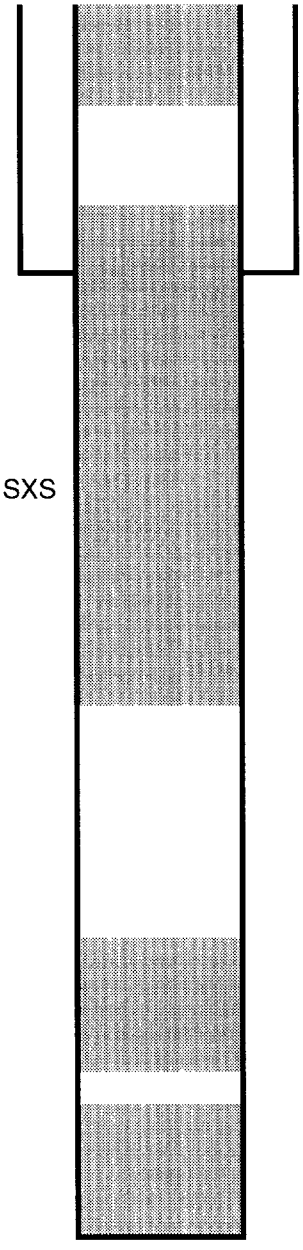
PLUGS SET AS FOLLOWS:

1. 3500 - 3800 W/30 SXS
2. 2612 - 2912 W/30 SXS
3. 926 - 1426 W/50 SXS
4. 0 - 221 W/20 SXS

PRODUCTION CASING:
5 1/2" @ 3900', CMT W/1200 SX

TD:4073

WELL: SEMGSAU #409
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 2615' FNL, 25' FWL, UNIT E, SEC 29, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
8 5/8" @ 1300', CMT W/650 SX

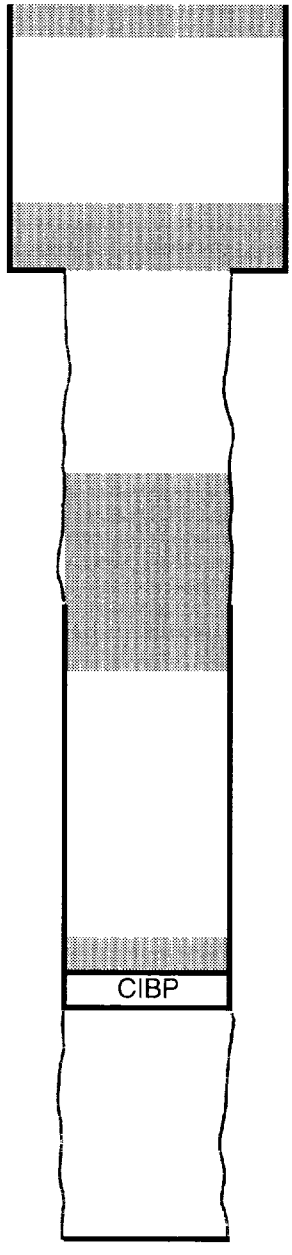
PLUGS SET AS FOLLOWS:

1. SQZ PERFS 4296 - 4326 W200 SXS
2. 3693 - 4163 W/47 SXS
3. SQZ PERF 2650 W/565 SXS
4. 1100 - 2232 W/115 SXS
5. 0 -200 W/20 SXS

PRODUCTION CASING:
5 1/2" @ 4359', CMT W/3350 SX

TD:4359

WELL: SEMGSAU #904
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

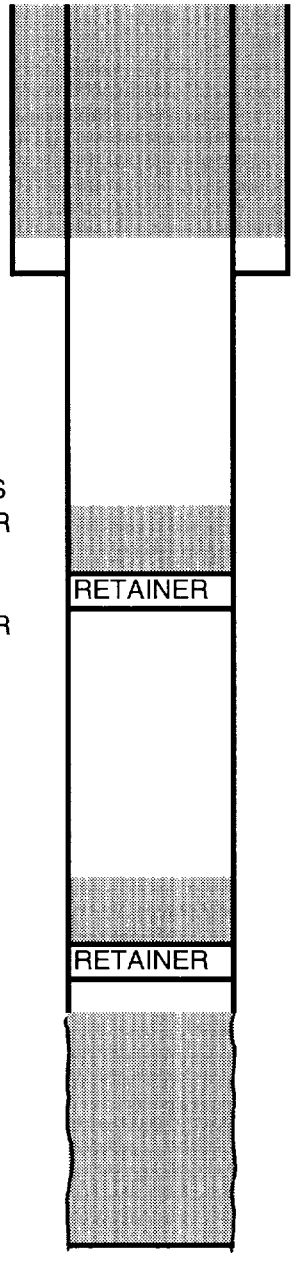
PLUGS SET AS FOLLOWS:

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
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

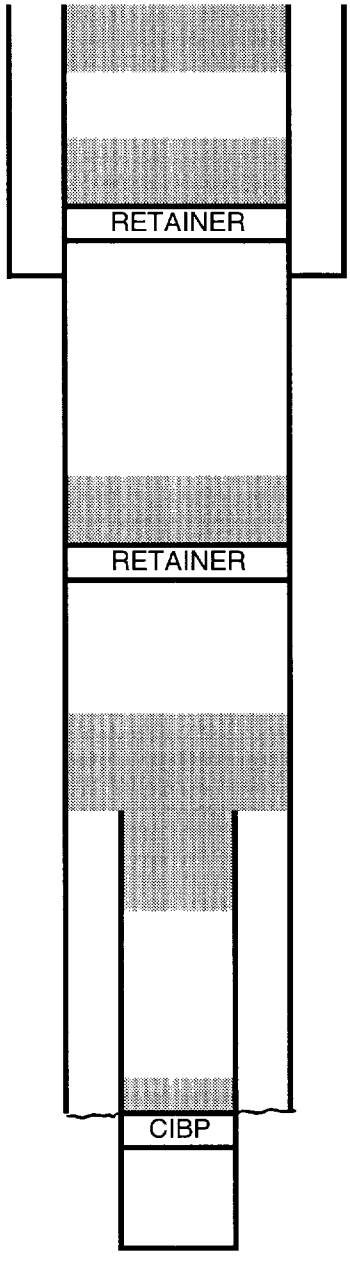
PLUGS SET AS FOLLOWS:

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 #504
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 1980' FNL, 1980' FEL, UNIT G, SEC 29, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
8 5/8" @ 1270', CMT W/400 SX

PLUGS SET AS FOLLOWS:

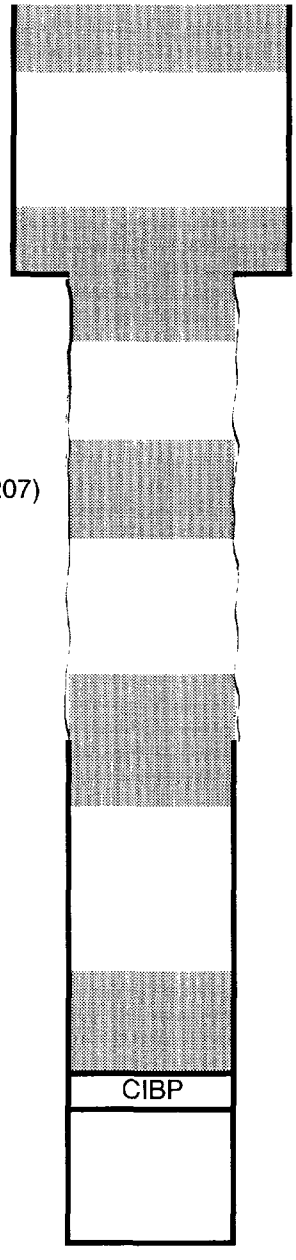
1. CIBP @ 4130 W/10 SXS
2. 3600 - 3900 W/25 SXS
3. SQZ PERF 2900 W/300 SXS
4. RETAINER @ 2863 W/16 SXS
5. RETAINER @ 1189 W/15 SXS
6. 0 - 282 W/ 30 SXS.

LINER CASING:
4" @ 3742 - 4439, CMT W/150 SXS

PRODUCTION CASING:
5 1/2" @ 4356', CMT W/85 SX

TD:4440

WELL: SEMGSAU #707
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

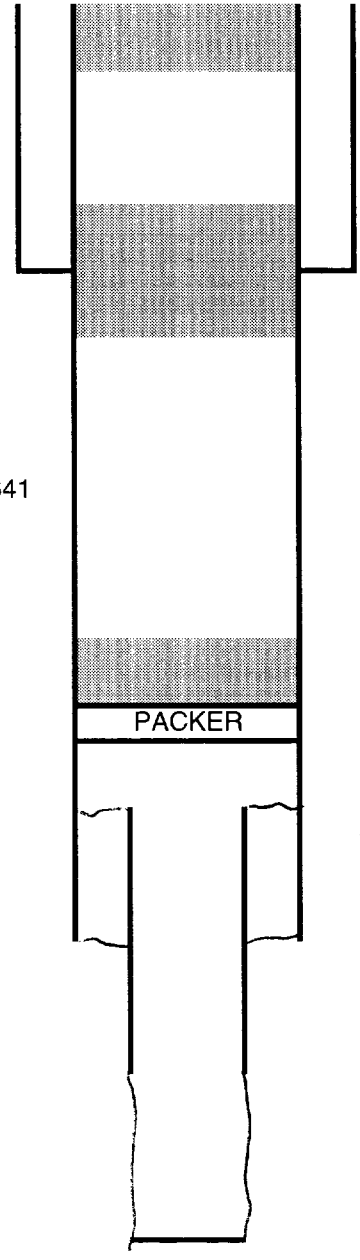
PLUGS SET AS FOLLOWS:

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

WELL: SEMGSAU #603
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 1980' FSL, 1980' FWL, UNIT K, SEC 29, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
8 5/8" @ 1260', CMT W/50 SX

PLUGS SET AS FOLLOWS:

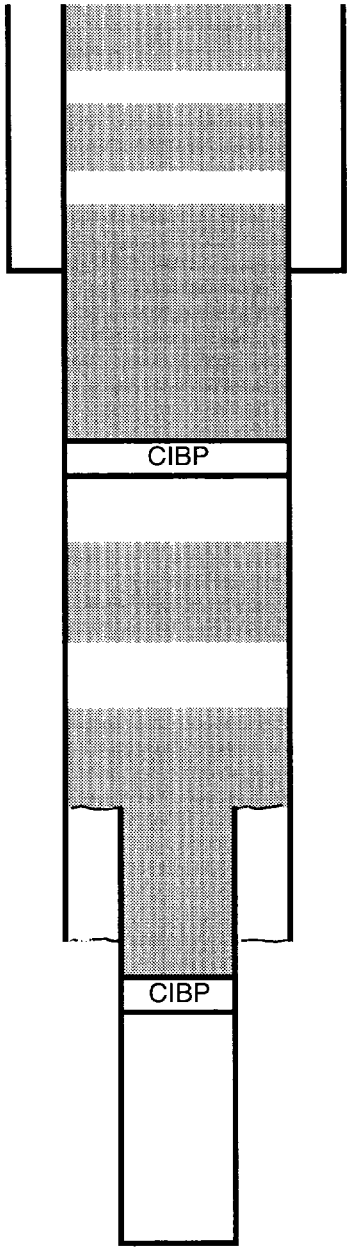
1. SPOTTED 25 SX ON PKR @ 3641
2. SPOTTED 25 SX @ 1300
3. SPOTTED 10 SX @ SURF

LINER CASING:
4 1/2" @ 3742 - 4115, CMT W/400 SXS

PRODUCTION CASING:
7" @ 3950', CMT W/75 SX

TD:4300

WELL: SEMGSAU #601
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 1980' FSL, 660' FWL, UNIT L, SEC 29, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
8 5/8" @ 1265', CMT W/50 SX

PLUGS SET AS FOLLOWS:

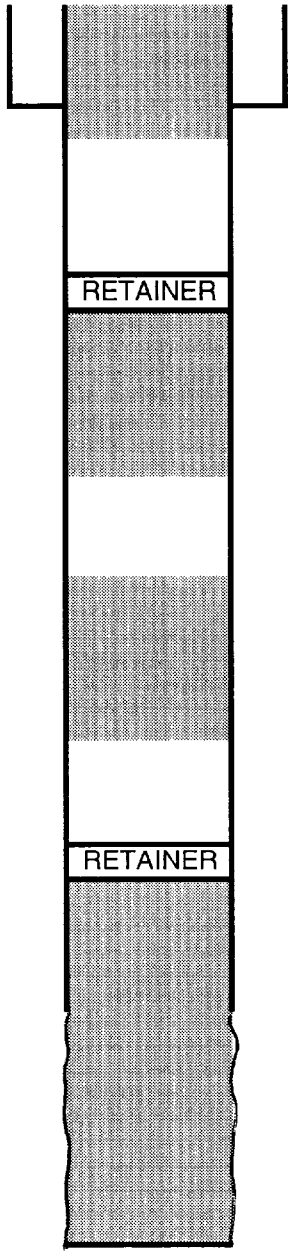
1. CIBP @ 4019
2. 3705 - 4019 W/30 SXS
3. 2420 - 3104 W/100 SXS
4. CIBP @ 2204
5. 897 - 2204 W/220 SXS
6. 657 - 806 W/25 SXS
7. 0 - 122 W/25 SXS

PRODUCTION CASING:
7" @ 3960', CMT W/75 SX

LINER CASING:
4" @ 3809 - 4253, CMT W/200 SXS

TD:4253

WELL: SEMGSAU #605
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 1330' FSL, 1330' FWL, UNIT K, SEC 29, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
10" @ 20', CMT W/150 SX

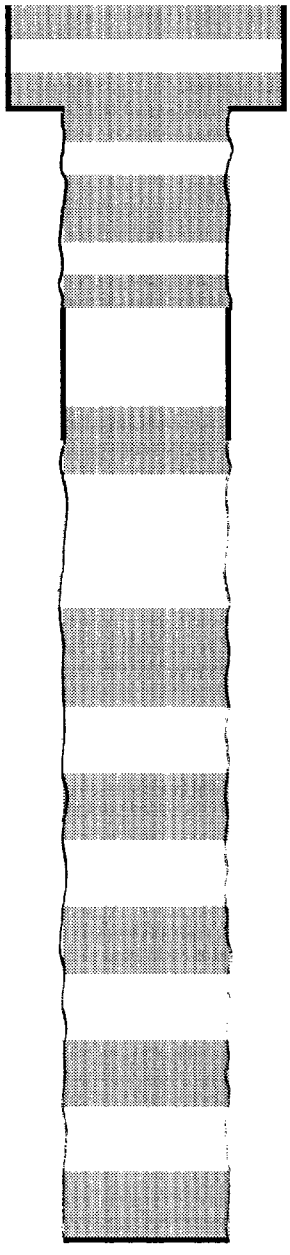
PLUGS SET AS FOLLOWS:

1. RETAINER @ 3809 W/100 SXS
2. PUT 500 SXS BELOW RET.
3. 2043 - 3148 W/125 SXS
4. RETAINER @ 961
5. PUT 500 SXS BELOW RET.
6. 0 - 30 W/10 SXS

PRODUCTION CASING:
7" @ 4008', CMT W/90 SX

TD:4320

WELL: CARPER STATE #1
FIELD: CORBIN ABO
LOCATION: 777' FNL, 330' FWL, UNIT D, SEC 32, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
11 3/4" @ 315', CMT W/275 SX

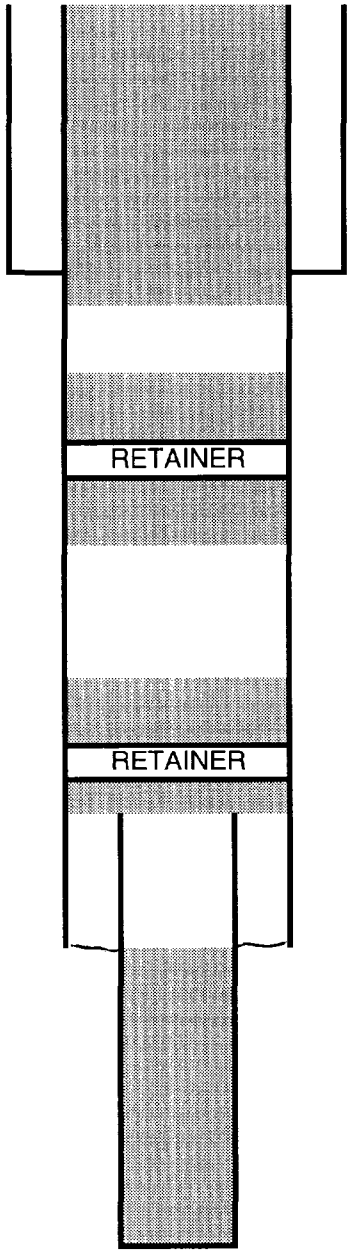
PRODUCTION CASING:
8 5/8" @ 2915', CMT W/250 SX
PULLED CSG TO 2010

PLUGS SET AS FOLLOWS:

1. 8729 - 8809 W/25 SXS
2. 8420 - 8640 W/25 SXS
3. 6870 - 6950 W/25 SXS
4. 5820 - 5900 W/25 SXS
5. 4120 - 4200 W/25 SXS
6. 2860 - 2940 W/25 SXS
7. 1970 - 2010 W/25 SXS
8. 1160 - 1200 W/25 SXS
9. 290 - 330 W/25 SXS
10. 0 - 20 W/10 SXS

TD:8809

WELL: SEMGSAU #101
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 1980' FSL, 1980' FEL, UNIT J, SEC 30, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
8 5/8" @ 1215', CMT W/600 SX

PLUGS SET AS FOLLOWS:

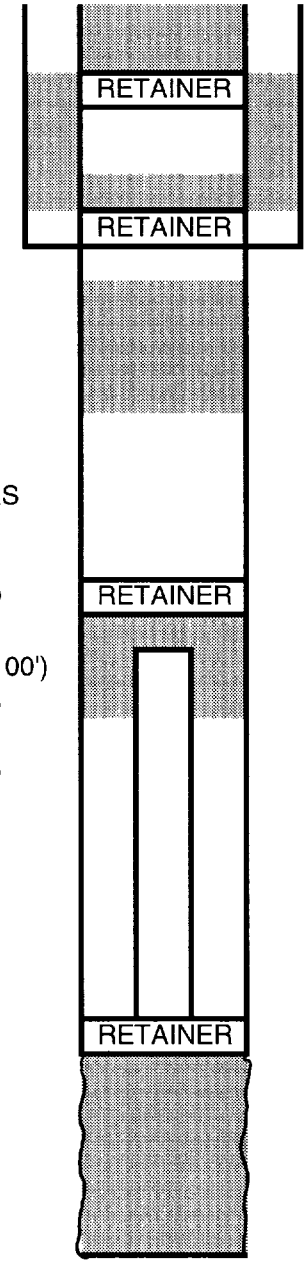
1. RETAINER @ 3708 W/26 SXS
   SQZ PERFS W/300 SXS.
2. SQZ PERF @ 2700 W/300 SXS
   RETAINER @ 2593 W/20 SXS
3. 0 - 1303 W/135 SXS

PRODUCTION CASING:
5 1/2" @ 3927', CMT W/300 SX

LINER CASING:
4" @ 3740 - 4281, CMT W/200 SXS

TD:4281

WELL: SEMGSAU #602
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 660' FSL, 1980' FWL, UNIT N, SEC 29, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
8 1/4" @ 1300', CMT W/25 SX

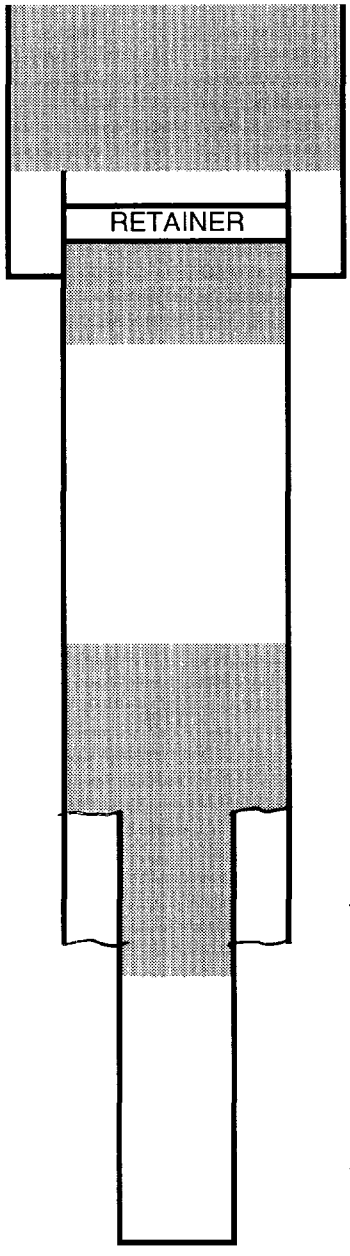
PLUGS SET AS FOLLOWS:

1. SQZ OH 4060 - 4312 W/500 SXS 7" CSG COLLAPSED @ 2162.
2. CUT TBG @ 2110.
3. SQZ 7" CSG LEAK @ 208 - 240 W/550 SXS.
4. RETAINER @ 2000 W/4 SXS (100')
5. SQZ PERF @ 2100 W/300 SXS
6. RETAINER @ 1265 W/25 SXS
7. SQZ PERF @ 1300 W/200 SXS
8. RETAINER @ 425 W/75 SXS
9. SQZ PERF @ 500 W/100 SXS

PRODUCTION CASING:
7" @ 4060', CMT W/200 SX

TD:4312

WELL: SEMGSAU #203
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 2310' FNL, 1650' FEL, UNIT G, SEC 30, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
8 5/8" @ 1181', CMT W/50 SX

PLUGS SET AS FOLLOWS:

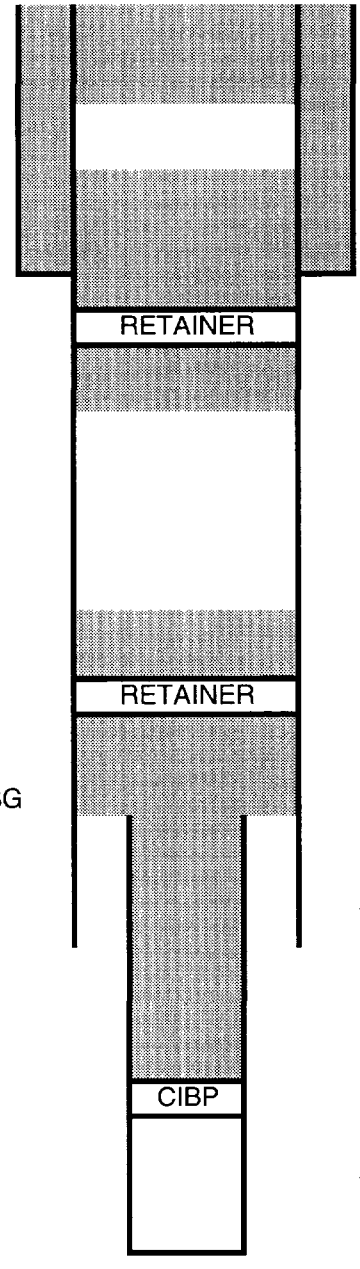
1. CMT PLUG @ 3800
2. 3660 - 3800 W/100 SXS
3. RETAINER @ 1096 W/100 SXS
4. SQZ PERF @ 1185 W/350 SXS
5. CUT CSG @ 872'
6. 0 - 880 W/260 SXS

PRODUCTION CASING:
7" @ 3927', CMT W/100 SX

LINER CASING:
5" @ 3798 - 4227, CMT W/40 SXS

TD:4278

WELL: SEMGSAU #103
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 660' FSL, 660' FEL, UNIT P, SEC 30, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
8 5/8" @ 1235', CMT W/550 SX

PLUGS SET AS FOLLOWS:

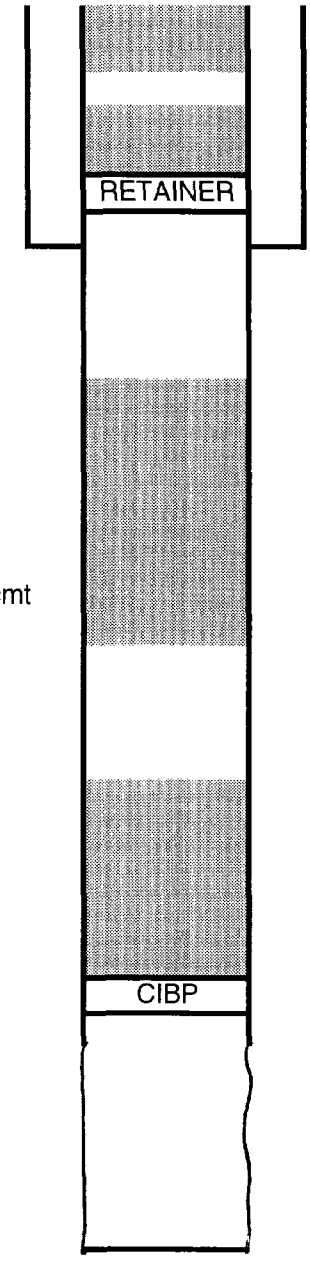
1. CIBP @ 4125 W/25 SXS
   3635 - 4125
2. RETAINER @ 3605 W/25 SXS
   3421 - 3605
3. RETAINER @ 1308
4. SQZ CSG LEAK 1393 - 1422
   W/450 SXS
5. SQZ SURF CSG @ 1235 - 1237
   W/150 SXS
6. PMP 250 SXS DOWN SURF CSG
   @ SURF.
7. 0 - 313 W/ 37 SXS

PRODUCTION CASING:
5 1/2" @ 3951', CMT W/300 SX

LINER CASING:
4" @ 3666 - 4355, CMT W/100 SXS

TD:4355

WELL: SEMGSAU 10-04
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

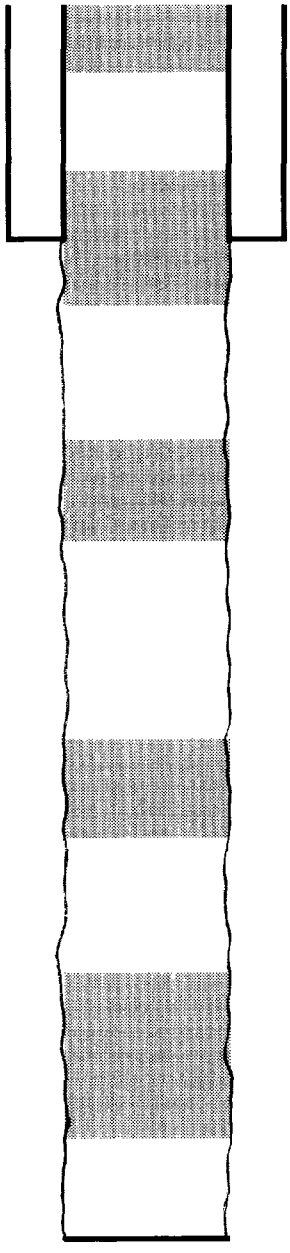
PLUGS SET AS FOLLOWS:

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

WELL: Carper State A #7
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 2310' FNL, 1650' FWL, UNIT F, SEC 32, T17S, R33E, LEA COUNTY, NM



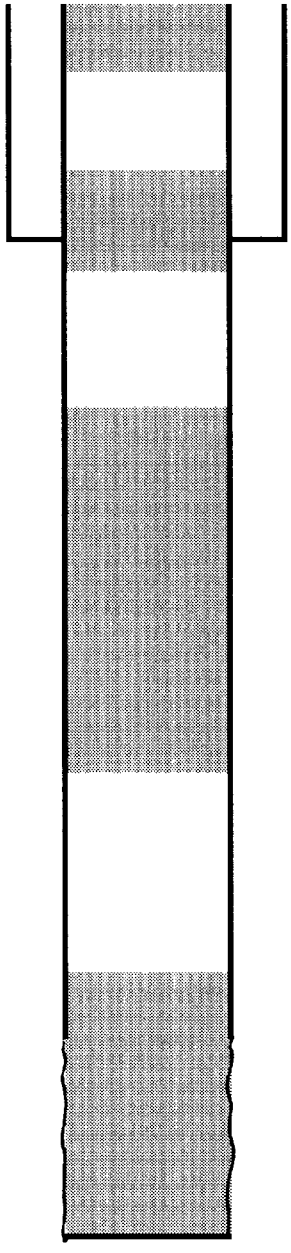
SURFACE CASING:
8 5/8" @ 1402', CMT W/350 SX

PLUGS SET AS FOLLOWS:

1. 4380 - 4420 W/15 SXS.
2. 3680 - 3720 W/15 SXS.
3. 2500 - 2540 W/15 SXS.
4. 1372 - 1428 W/20 SXS.
5. SURF W/10 SXS.

TD:4601

WELL: Williams #1-X
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 330' FNL, 330' FEL, UNIT A, SEC 31, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
8 5/8" @ 1340', CMT W/150 SX

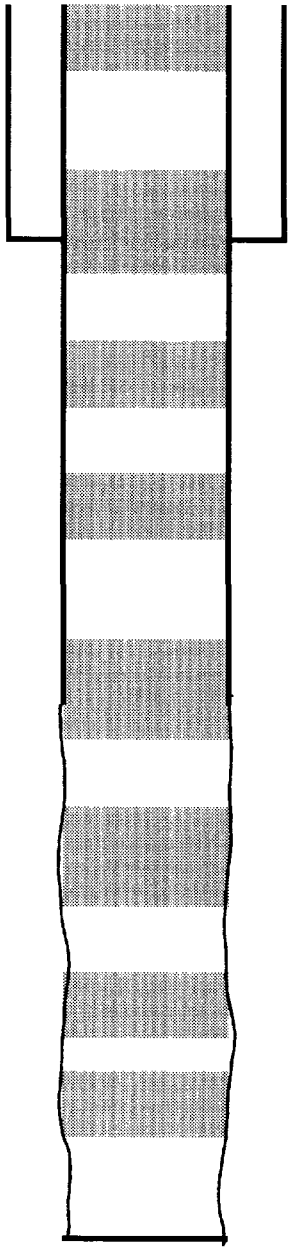
PLUGS SET AS FOLLOWS:

1. 3975 - 4314 W/20 SXS.
2. 1761 - 2100 W/20 SXS.
3. 1240 - 1320 W/20 SXS.
4. 0 - 75 W/15 SXS.

PRODUCTION CASING:
7" @ 4015', CMT W/100 SX

TD:4314

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

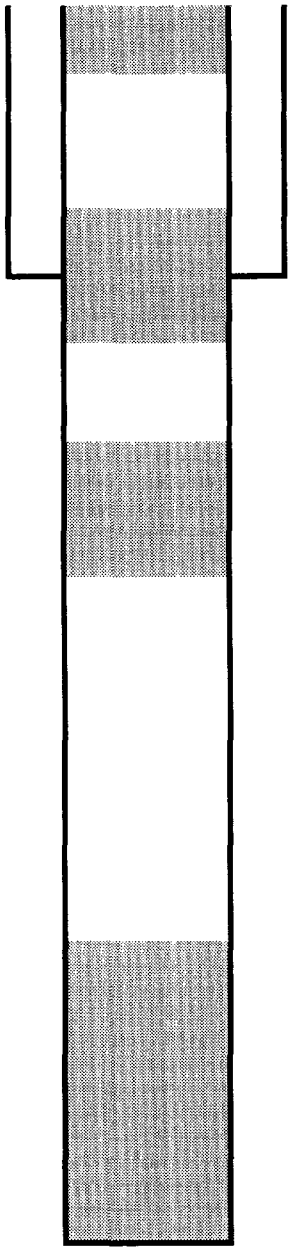
PLUGS SET AS FOLLOWS:

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

WELL: State CD #2
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 2310' FNL, 990' FWL, UNIT L, SEC 32, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
8 5/8" @ 328', CMT W/250 SX

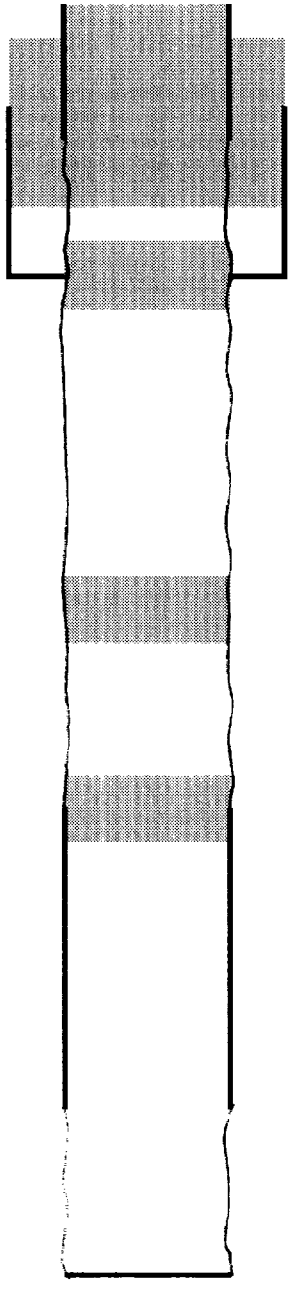
PLUGS SET AS FOLLOWS:

1. 4300 - 4468 W/25 SXS.
2. 1050 W/35 SXS.
3. 290 - 368 W/25 SXS.
4. 0 - 30 W/10 SXS.

PRODUCTION CASING:
4 1/2" @ 4760', CMT W/550 SX

TD:4766

WELL: Cockburn State #2
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 660' FNL, 1980' FEL, UNIT C, SEC 32, T17S, R33E, LEA COUNTY, NM



7" @ 207', CMT W/175 SXS.
TOC @ 23'

TOP OF 8 5/8" @ 210'.

SURFACE CASING:
8 5/8" @ 1262', CMT W/50 SX

PLUGS SET AS FOLLOWS:

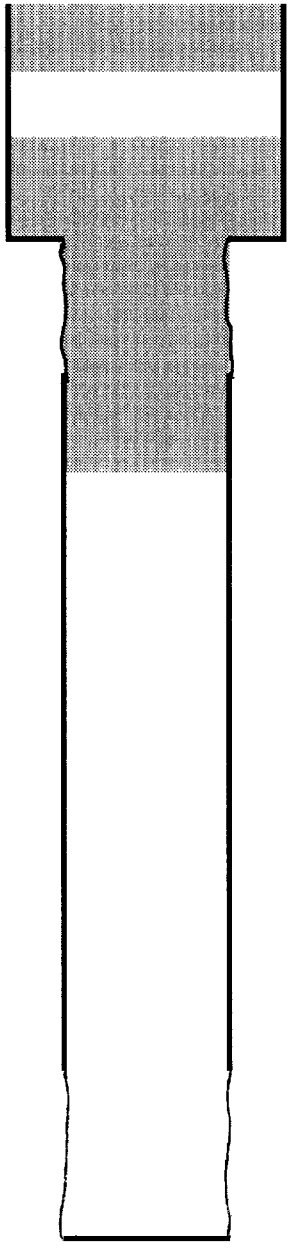
1. 3211 - 5200 W/MUD
2. 3211 CMT W/10 SXS.
3. MUD TO 2450.
4. 2450 CMT W/10 SXS.
5. MUD TO 1270.
6. 1270 CMT W/10 SXS.
7. 7" CSG RUN TO 207
8. 0 - 653 W/200 SXS.

7" CSG CUT AND PULLED 3211'

PRODUCTION CASING:
7" @ 4663', CMT W/50 SX

TD:5200

WELL: Cockburn State #1
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 660' FNL, 660' FWL, UNIT D, SEC 32, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
8 5/8" @ 1262', CMT W/50 SX

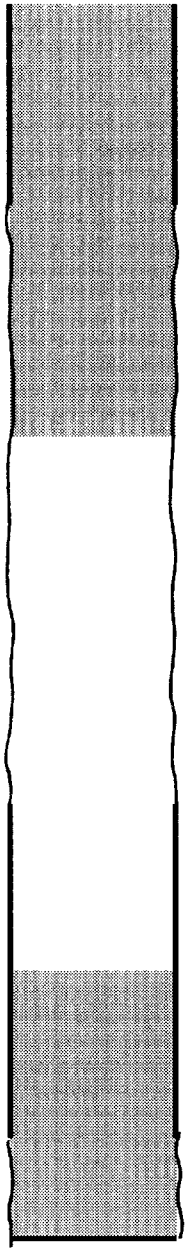
PLUGS SET AS FOLLOWS:

1. 1313 - 1675 W/ 200 SXS.
2. 956 - 1313 W/200 SXS.
3. 0 - 30 W/10 SXS.

PRODUCTION CASING:
7" @ 4028', CMT W/100 SX

TD:4473

WELL: Williams #1
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 660' FNL, 660' FEL, UNIT A, SEC 31, T17S, R33E, LEA COUNTY, NM



SURFACE CASING:
7" @ 355', CMT W/175 SX
(1980, TOC 30')

PLUGS SET AS FOLLOWS:

1. 4293 W/100 SXS.
2. 0 - 574 W/225 SXS.

7" CSG RUN TO 4050, CMT W/100 SXS.
CUT & PULLED UNKNOWN AMOUNT
(1950)

TD:4290

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 850 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. Chemical analysis of injection fluid will be produced water from the existing waterflood and any makeup water will be supplied by Conoco (see attached water analysis).

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.

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 .

BAKER
Performance Chemicals
WATER ANALYSIS REPORT

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

Company	: **Cross Timbers**	**Sampled By**	: **J. L. Enriquez**
Field	:	**Sample Date**	: **8-December-1991**
Lease/Unit	: **SEMGSAU**	**Salesperson**	: **Clyde Wilhoit**
Well ID.	: **Fresh Water**	**Formation**	: **San Andres**
Sample Loc.	: **Water Tank Inlet**	**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

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 wells were 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. See attached mailing list and registered mail certificates for Proof of Notice.

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
P. O. Box 1980
Hobbs, NM 88240

Mr. Olane Caswell
1702 Gillham
Brownfield, TX 79316

Caviness Cattle Company
Star Route
Causey, NM 88113

Darr Angell
P. O. Box 190
Lovington, NM 88260

Conoco Inc.
10 Desta Dr., Ste. 100W
Midland, TX 79705-4500

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

Devon Energy Corporation
20 N. Broadway, Ste. 1500
Oklahoma City, OK 73102-8260

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

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

Phillips Petroleum Company
4001 Penbrook
Odessa, TX 79762

Wiser Oil Company
8115 Preston Rd., Ste. 400
Dallas, TX 75225

Agua Inc.
P. O. Box 92090
Pasadena, CA 91109-2090

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

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

November 16 1997

and ending with the issue dated

November 16 1997

Kathi Bearden

Publisher

Sworn and subscribed to before me this 14th day of November 1997

Jodi Henson

Notary Public.

My Commission expires
October 18, 2000
(Seal)

LEGAL NOTICE
November 16, 1997

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

SEMGSAU #15	Sec. 32, T-17-S, R-33-E	Lea County, NM
SEMGSAU #106	Sec. 30, T-17-S, R-33-E	Lea County, NM
SEMGSAU #610	Sec. 29, T-17-S, R-33-E	Lea County, NM
SEMGSAU #614	Sec. 29, T-17-S, R-33-E	Lea County, NM
SEMGSAU #710	Sec. 29, T-17-S, R-33-E	Lea County, NM
SEMGSAU #714	Sec. 29, T-17-S, R-33-E	Lea County, NM

The formation to be injected into is the Grayburg at a depth of 4218' - 4395'. The maximum expected injection rate is 500 BWPD per well at a maximum injection pressure of 850 psig. Questions can be addressed to:

Cross Timbers Operating Company
3000 N. Garfield, Suite 175
Midland, Texas 79705
Attention: Darrin Steed
Phone: (915) 682-8873

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

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

#15552

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 01513838

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

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
Bureau of Land Management
P.O. Box 1778
Carlsbad, NM 88220

4a. Article Number: P 491 360 772

4b. Service Type:
☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery: 11-7-97

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
X

PS Form 3811, December 1994 Domestic Return Receipt

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
State of New Mexico
State Land Office
P.O. Box 1148
Santa Fe, NM 87504-1148

4a. Article Number: P 497 360 771

4b. Service Type:
☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery: SANTA FE NM NOV 10 1997

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
X

PS Form 3811, December 1994 Domestic Return Receipt

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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
Caviness Cattle Company
Star Route
Causey, NM 88113

4a. Article Number: P 497 360 774

4b. Service Type:
☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery: 11-8-97

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
X Hershel Caviness MEC

PS Form 3811, December 1994 Domestic Return Receipt

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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
Mr. Olane Caswell
1702 Grillham
Brownfield, TX 79316

4a. Article Number: P 497 360 773

4b. Service Type:
☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery: 11-7-97

5. Received By: (Print Name)
X Olane Caswell

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
X Olane Caswell

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- Complete items 3, 4a, and 4b.
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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
Conoco Inc
10 Desta Dr, Ste. 100W
Midland, TX 79705-4500

4a. Article Number: P 497 360 776

4b. Service Type:
☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery: 11-7-97

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
Anita Gonzales

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Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

P 497 360 775

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

Sent to: Barr Angell
Street & Number: Box 196
Post Office, State, & ZIP Code: Loving NM 88260

Postage	$ 2.16
Certified Fee	1.10
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.10
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$ 4.36

Postmark Here 11-7-97 3800

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
Devon Energy Corp.
20 N. Broadway, Ste. 1500
Oklahoma City, OK 73102-8260

4a. Article Number
P 497 360 778

4b. Service Type
☐ Registered ☑ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
11-12-97

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
X Betty J.

PS Form 3811, December 1994 Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

SENDER:
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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
Chevron USA
P.O. Box 1150
Midland, TX 79702

4a. Article Number
P 497 360 777

4b. Service Type
☐ Registered ☑ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
NOV 07 97

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
X

PS Form 3811, December 1994 Domestic Return Receipt

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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
Pennzoil E&P Company
P.O. Box 50090
Midland TX 79710-0090

4a. Article Number
P 497 360 780

4b. Service Type
☐ Registered ☑ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
11-12

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
X

PS Form 3811, December 1994 Domestic Return Receipt

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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
OXY USA Inc
P.O. Box 50250
Midland, TX 79710

4a. Article Number
P 497 360 779

4b. Service Type
☐ Registered ☑ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
11-10-97

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
X

PS Form 3811, December 1994 Domestic Return Receipt

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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
Wiser Oil Company
8115 Preston Rd., Ste. 400
Dallas, TX 75225

4a. Article Number
P 497 360 782

4b. Service Type
☐ Registered ☑ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
11-10-97

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
X

PS Form 3811, December 1994 Domestic Return Receipt

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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
Phillips Petroleum Company
4001 Penbrook
Odessa TX 79762

4a. Article Number
P 497 360 781

4b. Service Type
☐ Registered ☑ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
11-7-97

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
X Kathy Thomas

PS Form 3811, December 1994 Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

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- Write *"Return Receipt Requested"* on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3 Article Addressed to:

Agua Inc
P.O. Box 92090
Pasadena CA 91109-2090

4a. Article Number
P 497 360 783

4b. Service Type

- ☐ Registered
- ☒ Certified
- ☐ Express Mail
- ☐ Insured
- ☐ Return Receipt for Merchandise
- ☐ COD

7. Date of Delivery
11/10/97

5. Received By: *(Print Name)*

8. Addressee's Address *(Only if requested and fee is paid)*

6. Signature: *(Addressee or Agent)*
X

PS Form 3811, December 1994 Domestic Return Receipt

Thank you for using Return Receipt Service.

January 8, 1998

Oil Conservation Division
2040 S. Pacheo Street
Santa Fe, New Mexico 87505

Reference: Cross Timbers Operating C-108 Application

Dear Mr. Stone,

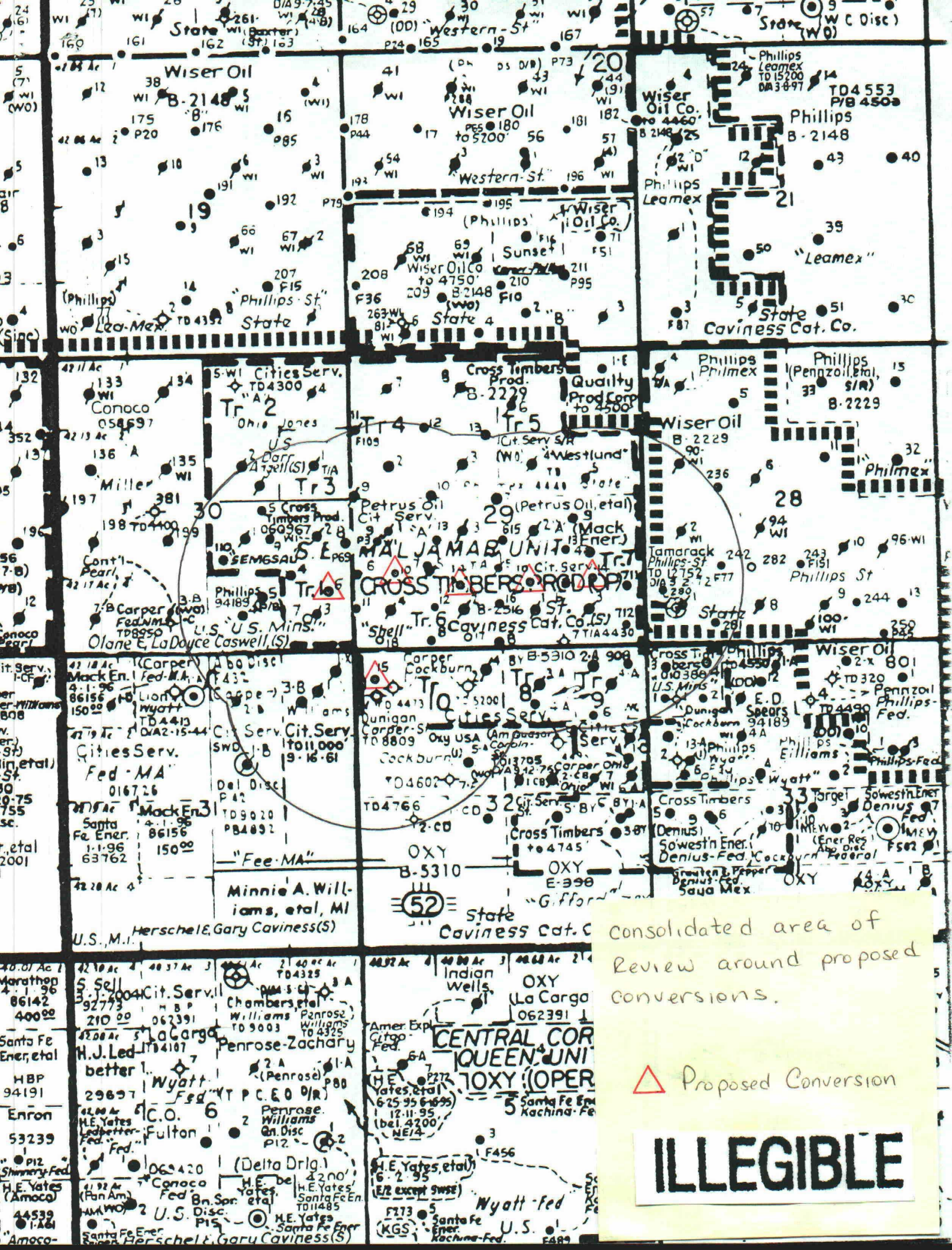
In reference to the our phone conversation, I have enclosed the maps you requested. Let me know if there is anything else you need.

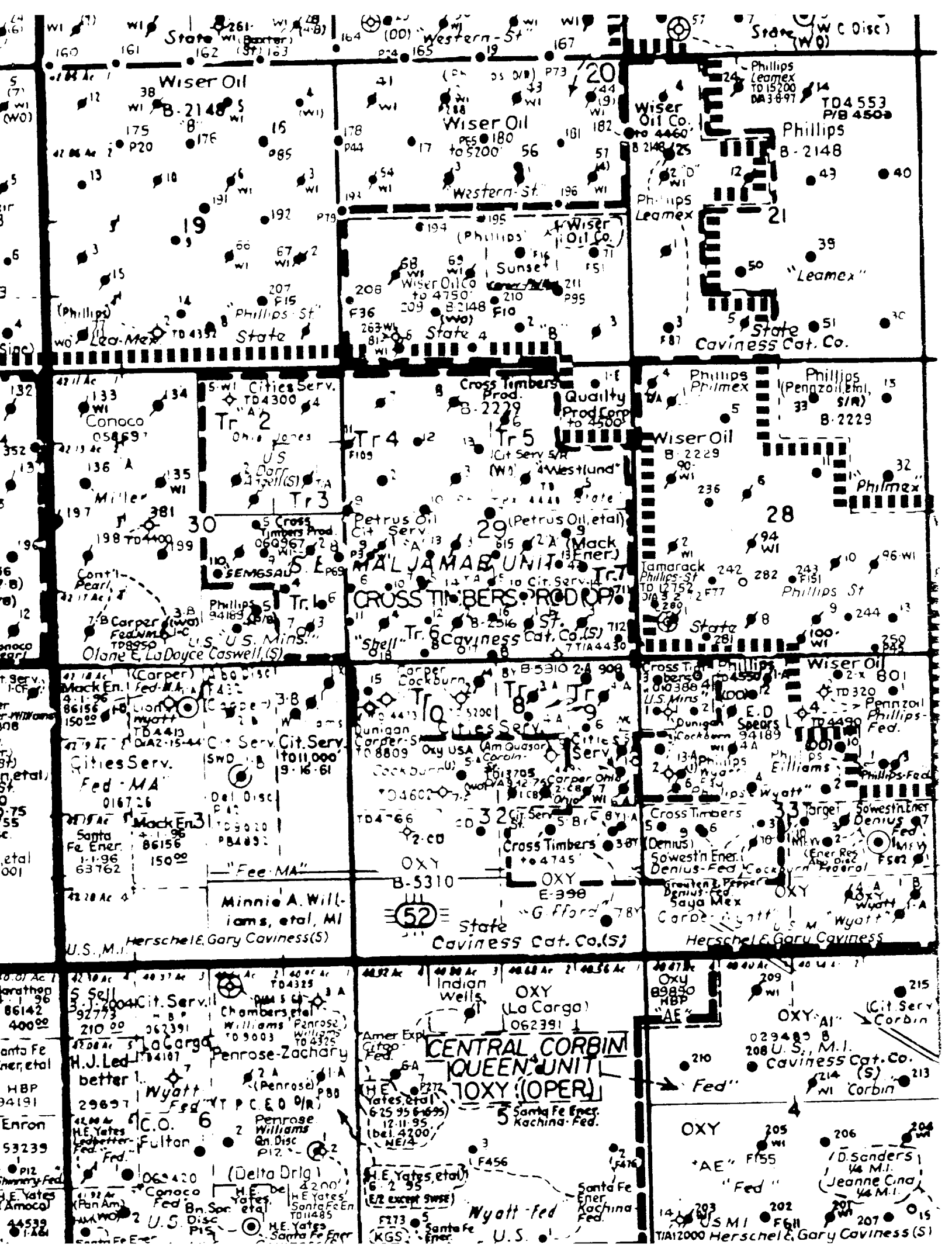
Respectfully yours,

Darrin Steed

CROSS TIMBERS OPERATING COMPANY
Darrin L. Steed
Operations Engineer

DLS
y:\word\ocd\ocdltr2


Wiser Oil
B-2148
Wiser Oil
Western St.
Phillips
Leamex
TD 15200
TD 4553
P/B 4503
Phillips
B-2148
Wiser Oil Co.
to 4460
Phillips
Leamex
21
"Leamex"
State
Caviness Cat. Co.
Cities Serv.
TD 4300
Tr 2
Ohio Jones
US
Darr
Axtell(S)
Tr 3
Tr 4
Tr 5
Cross Timbers Prod.
B-2229
Quality Prod Corp
to 4500
Cit. Serv S/R
Westlund
Conoco
058697
Miller
Cont'l Pearl
Carper
Fed NM
TD 8950
Olane E. LaDoyce Caswell (S)
U.S. Mins.
Cross Timbers Prod.
060967
SEMGSAU
S. E.
Phillips
94189
Tr 6
Petrus Oil
Cit Serv.
29
(Petrus Oil, etal)
(Mack Ener.)
MA'L JAMAR UNIT
CROSS TIMBERS PROD (OP)
B-2516
Tr. 6
Caviness Cat. Co. (S)
"Shell"
Phillips
Phillmex
Phillips
(Pennzoil, etal)
S/R)
B-2229
Wiser Oil
B-2229
28
"Phillmex"
Tamarack
Phillips-St
TD 12752
Phillips St
State
Mack En.
Lion
Wyatt
TD 4413
Cities Serv.
Fed-MA
016726
Santa Fe Ener.
63762
Mack En.
86156
150.00
Carper
Fed-MA
Cit. Serv.
to 11,000
9-16-61
Del Disc
P42
TD 9020
PB 4892
"Fee-MA"
Minnie A. Williams, etal, MI
Herschel E. Gary Caviness (S)
U.S., M.I.
Carper
Cockburn
Tr 10
Tr 8
Tr 9
Cities Serv.
Dunigan
Carper-S
TD 8809
Oxy USA
Cockburn
TD 4602
TD 4766
32
OXY
B-5310
52
State
Caviness Cat. C
Cross Timbers
to 4745
OXY
E-398
Cross Timbers
Phillips
Wiser Oil
801
TD 320
Penzoil
Phillips-Fed.
E.D. Spears
94189
Cockburn
Phillips
Williams
Phillips-Fed
Phillips
Wyatt"
Cross Timbers
33
Target
Sowest'n Ener.
Denius-Fed.
Cockburn
Federal
Grayson & Pepper
Denius-Fed.
Saga Mex
OXY
S. Sell
Cit. Serv.
92773
210.00
062391
Chambers, etal
Williams
TD 9003
Penrose
Williams
TD 4325
Penrose-Zachary
La Carga
H.J. Ledbetter
29697
Wyatt
Fed
6
C.O.
Fulton
Penrose
Williams
Qn. Disc
P12
(Delta Drlg.)
4200'
H.E. Yates
Santa Fe Ener.
TD 11485
Conoco
Fed
Bn. Spr.
Disc
P15
U.S.
Herschel E. Gary Caviness (S)
Indian Wells
OXY
(La Cargo)
062391
Amer. Exp.
Citgo
Fed.
CENTRAL COR
QUEEN UNI
OXY (OPER
5
Santa Fe Ener
Kachina-Fe
H.E. Yates, etal
6-25-95 6-1695
12-11-95
(bel. 4200')
NE/4
H.E. Yates, etal
6-2-95
(E/2 except 9wse)
Wyatt-Fed
U.S.
Santa Fe Ener.
Kachina-Fed.
Enron
53239
H.E. Yates
(Amoco)
44539
Amoco-
Santa Fe Ener, etal
HBP
94191
Marathon
86142
400.00
consolidated area of Review around proposed conversions.
Proposed Conversion
ILLEGIBLE


Wiser Oil
B-2148
19
20
Wiser Oil
Western St
Phillips
Leamex
TD 4553
P/B 4503
Wiser Oil Co.
to 4460
Phillips
B-2148
21
"Leamex"
State
Caviness Cat. Co.
Phillips St
Lea-Mex
TD 4352
Sunset
Wiser Oil Co
to 4750'
B-2148
(WO)
Conoco
05697
Miller
Cities Serv.
TD 4300
Tr 2
Tr 3
Tr 4
Tr 5
Cross Timbers Prod.
B-2229
Quality Prod Corp
to 4500'
Phillips
Phillmex
(Pennzoil, etal)
B-2229
Wiser Oil
B-2229
28
Phillmex
30
29
Petrus Oil
Cit Serv
(Petrus Oil, etal)
Mack Ener.
MALJAMAR UNIT
Tr 1
Tr 6
CROSS TIMBERS PROD (OP)
"Shell" Tr. 6
Caviness Cat. Co. (S)
Cont'l-Pearl
Olone E. LaDoyce Caswell, (S)
U.S. Mins.
Tamarack
Phillips-St
TD 12752
Phillips St
State
Carper
Mack En.
Lion
Wyatt
TD 4413
Cities Serv.
Fed-MA
0167 26
Mack En. 31
Santa Fe Ener.
1-1-96
63762
86156
150.00
Del Disc
TD 9020
PB 4892
"Fee-MA"
Minnie A. Williams, etal, MI
Herschel E. Gary Caviness (S)
U.S. M.I.
Cit Serv
TD 11,000
9-16-61
Tr 7
Tr 8
Tr 9
Tr 10
Cities Serv
Dunigan Carper-S
TD 8809
Oxy USA
Cockburn
TD 4602
Carper Ohio
TD 3705
32
Cross Timbers
TD 4745
OXY
B-5310
52
E-398
"Gifford"
State
Caviness Cat. Co. (S)
Cross Timbers
Phillips
TD 4550
Wiser Oil
801
TD 320
Penzoil
Phillips-Fed.
E.D. Spears
94189
Williams
Phillips-Fed
Wyatt
33
Target
Sowestn Ener
Denius Fed
Cross Timbers
(Denius)
Sowestn Ener.
Denius-Fed
Cockburn Federal
Saya Mex
OXY
Wyatt
Carper-Wyatt
Herschel E. Gary Caviness
Oxy
89850
HBP
"AE"
OXY-A
(Cit Serv
Corbin
Fed"
Caviness Cat. Co.
Corbin
S. Sell
Cit. Serv.
92773
210.00
La Carga
H.J. Ledbetter
29897
Wyatt
Fed
6
Fulton
Chambers, etal
Williams
TD 9003
Penrose
TD 4325
Penrose-Zachary
(Penrose)
T P C & O D/R
C.O.
Penrose
Williams
On Disc
(Delta Drlg)
4200'
H.E. Yates, etal
Santa Fe Ener
TD 11485
Conoco
Fed
U.S. Disc
P15
Indian Wells
OXY
(La Cargo)
062391
Amer Expl
Citgo
Fed
CENTRAL CORBIN
QUEEN UNIT
OXY (OPER)
5
Santa Fe Ener.
Kachina-Fed.
H.E. Yates, etal
(6-25-95 6-1695)
(bal. 4200')
NE/4
H.E. Yates, etal
6-2-95
(E/2 except SWSE)
Santa Fe Ener.
Kachina Fed.
Wyatt-Fed
U.S.
OXY
"AE"
F155
Fed"
D. Sanders
1/4 M.I.
(Jeanne Cina
1/4 M.I.
U.S.M.I.
Herschel E. Gary Caviness (S)

Phillips State
Mal-gra Unit
Philmex State
CONOCO
CITIES SERVICE OIL
CROSS TIMBERS
PENNZOIL
PHILLIPS
Mal gra
MCA Unit
CONOCO
PHILLIPS
TAMARACK
Abo
Pearl
U. S. Minerals
OXY
DUNIGAN
Carper-State
Cockburn State
Cockburn State "A"
COCKBURN
State
OXY
Carbin "A" St.
(AM. QUASAR)
(Carbin St.)
owwo
CARPER
State
State "CB"
Ohio State
DUNIGAN
Gifford-St.
CROSS TIMBERS
PHILLIPS
Eilliams-Federal
Wyatt "A" Federal
PENNZOIL
Phillips Federal
Denius-Federal
Cockburn Federal
B. COCKBURN Abo
Wyatt
Aqua Inc.
swd
Fed-Ma
State "CD"
State "BY"
Wyatt Federal
Semgsau
Williams
Wyatt
Cockburn
TA
SI
2/44
12/44
1/50
30
29
28
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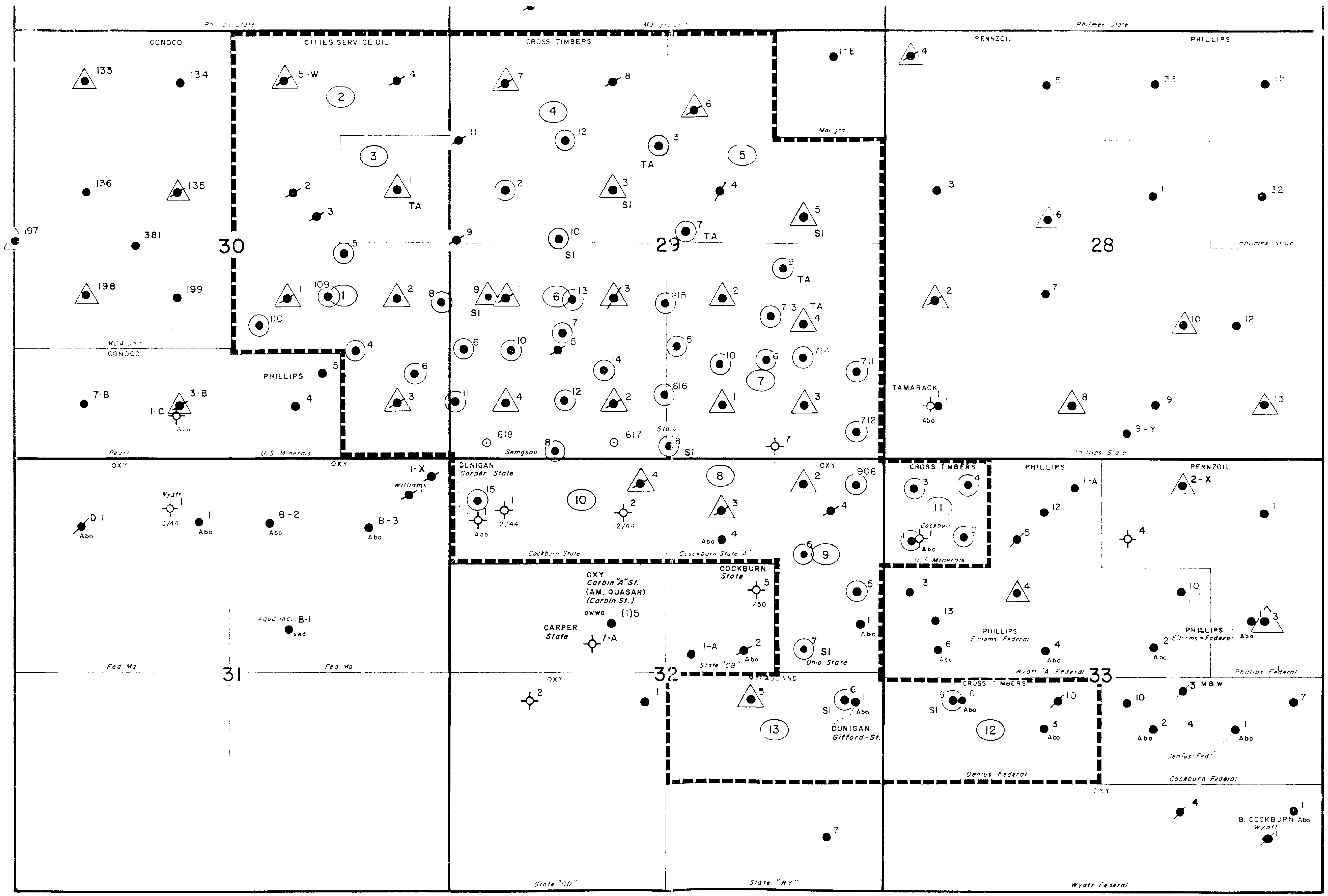
32
33



CONOCO
CITIES SERVICE OIL
CROSS TIMBERS
PENNZOIL
PHILLIPS
Phillips State
28
29
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33
TAMARACK
PHILLIPS
OXY
DUNIGAN
Carper-State
Semgsau
Cockburn State
Cockburn State "A"
COCKBURN
State
OXY
Carbin "A" St.
(AM. QUASAR)
(Carbin St.)
CARPER
State
State "CB"
Ohio State
U.S. Minerals
Wyatt "A" Federal
PHILLIPS
Ellliams-Federal
Phillips Federal
DUNIGAN
Gifford-St.
Denius-Federal
Denius Fed.
Cockburn Federal
B. COCKBURN
Wyatt
Wyatt Federal
State "CD"
State "BY"
Fed Ma
Aqua Inc. B-1
Williams
Pearl
MCA Unit

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 3462
Order No. R-3134

APPLICATION OF CITIES SERVICE OIL
COMPANY FOR A WATERFLOOD PROJECT,
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 28, 1966, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 14th day of October, 1966, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Cities Service Oil Company, seeks permission to institute a waterflood project in the Southeast Maljamar Grayburg-San Andres Unit Area, Maljamar (Grayburg-San Andres) Pool, by the injection of water into the Grayburg-San Andres formation through eleven injection wells in Sections 29, 30, and 32, Township 17 South, Range 33 East, NMPM, Lea County, New Mexico.

(3) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.

(4) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

(5) That the applicant further seeks the establishment of an administrative procedure whereby additional wells, within the said unit area, could be placed on water injection.

(6) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

IT IS THEREFORE ORDERED:

(1) That the applicant, Cities Service Oil Company, is hereby authorized to institute a waterflood project in the Southeast Maljamar Grayburg-San Andres Unit Area, Maljamar (Grayburg-San Andres) Pool, by the injection of water into the Grayburg-San Andres formation through the following-described wells in Township 17 South, Range 33 East, NMPM, Lea County, New Mexico:

Cities Service	Shell St. "A"	# 1	1980' FSL	660' FWL	Section 29
Cities Service	Shell St. "A"	# 2	660' FSL	1980' FWL	Section 29
Cities Service	Philmex St."A"	# 6	990' FNL	2310' FEL	Section 29
Cities Service	Philmex St."A"	# 5	2310' FNL	990' FEL	Section 29
Phillips	Philmex	# 3	1980' FNL	1980' FWL	Section 29
Phillips	Philmex	# 7	660' FNL	660' FWL	Section 29
Shell	State "A"	# 2	1980' FSL	1980' FEL	Section 29
Shell	State "A"	# 3	660' FSL	990' FEL	Section 29
Cities Service	Ohio Jones "A"	# 1	1980' FNL	660' FEL	Section 30
Phillips	U.S. Minerals	# 3	660' FSL	660' FEL	Section 30
Cities Service	Cockburn St."A"	# 3	660' FNL	1980' FEL	Section 32

(2) That the subject waterflood project is hereby designated the Southeast Maljamar Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations; provided, however, that the Secretary-Director of the Commission may approve the placing of additional wells, within the said unit area, on water injection as may be necessary to complete an efficient waterflood injection pattern.

(3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

JACK M. CAMPBELL, Chairman

GUYTON B. HAYS, Member

A. L. PORTER, Jr., Member & Secretary

S E A L

esr/

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 4750
Order No. R-3134-A

APPLICATION OF CITIES SERVICE
OIL COMPANY FOR AN UNORTHODOX
LOCATION, LEA COUNTY, NEW
MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 28, 1972, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 10th day of July, 1972, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Cities Service Oil Company, is the operator of the Southeast Maljamar Grayburg-San Andres Unit Waterflood Project, Maljamar Pool, Lea County, New Mexico.

(3) That the applicant seeks authority to drill a well at an unorthodox location 1155 feet from the South line and 1385 feet from the East line of Section 29, Township 17 South, Range 33 East, NMPM, Lea County, New Mexico, as a producing well in said Southeast Maljamar Grayburg-San Andres Unit Waterflood Project.

(4) That the proposed unorthodox location is necessary to provide an efficient oil producing pattern.

(5) That the applicant also seeks the establishment of an administrative procedure whereby the Secretary-Director of the Commission may authorize additional producing wells and injection wells at orthodox and unorthodox locations within said Southeast Maljarmar Grayburg-San Andres Unit Waterflood Project area as may be necessary to complete an efficient production and injection pattern.

(6) That approval of the requested administrative procedure will afford the applicant the opportunity to produce its just and equitable share of the oil in the Maljamar Pool, provided said wells are drilled no closer than 330 feet to the outer boundary of the above-described unit area nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary.

(7) That the subject waterflood project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations, provided however, that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

IT IS THEREFORE ORDERED:

(1) That the applicant, Cities Service Oil Company, is hereby authorized to drill a well at an unorthodox location 1155 feet from the South line and 1385 feet from the East line of Section 29, Township 17 South, Range 33 East, NMPM, Maljamar Pool, Lea County, New Mexico, as a producing well in its Southeast Maljamar Grayburg-San Andres Unit Waterflood Project.

(2) That Order (2) of Order No. R-3134 is hereby amended to read in its entirety as follows:

"(2) That the subject waterflood project shall continue to be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations;

PROVIDED HOWEVER, that the Secretary-Director of the Commission may approve such additional producing wells and injection wells at orthodox and unorthodox locations within the Southeast Maljamar Grayburg-San Andres Unit Waterflood Project area as may be necessary to complete an efficient production and injection pattern, provided said wells are drilled no closer than 330 feet to the outer boundary of the Southeast Maljamar Grayburg-San Andres Unit Area, nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary, and provided that the application therefor has been filed in accordance with Rule 701 B of the Commission Rules and Regulations, and provided that the application has been sent to all offset operators, if any there be, and no such operator has objected within 15 days. The showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection."

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

BRUCE KING, Chairman

ALEX J. ARMIJO, Member

A. L. PORTER, Jr., Member & Secretary

S E A L

dr/

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

GOVERNOR

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

RECEIVED
JAN - 2 [illegible]

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:

SEMGSAU #15	Sec. 32, T-17-S, R-33-E	Lea County, NM
SEMGSAU #106	Sec. 30, T-17-S, R-33-E	Lea County, NM
SEMGSAU #610	Sec. 29, T-17-S, R-33-E	Lea County, NM
SEMGSAU #614	Sec. 29, T-17-S, R-33-E	Lea County, NM
SEMGSAU #710	Sec. 29, T-17-S, R-33-E	Lea County, NM
SEMGSAU #714	Sec. 29, T-17-S, R-33-E	Lea County, NM

Cross Timbers Oper. Co

Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

I think they should re-submit their map w/ circle drawn around each individual well w/ a map for each well. The map is not readable.

Yours very truly,

Chris Williams

Chris Williams
Supervisor, District 1

/ed