DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO
06/02/14		PRG	06/06/14	WFX ~~SWD~~	DEH1415752500

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

Cross Timbers Energy LLC
Southeast Maljamar (GB-SA) Unit
#105
30-025-26512
#617
30-025-37897
#906
30-025-31444

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
■ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify R-3134

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ■ Offset Operators, Leaseholders or Surface Owner

[C] ■ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ■ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Robbie A Grigg	Robbie A. Grigg	Reg Compliance	6/2/2014
Print or Type Name	Signature	Title	Date

rgrigg@mspartners.com
e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. OPERATOR: Cross Timbers Energy, LLC

ADDRESS: 400 W. 7th St, Fort Worth, TX 76102

CONTACT PARTY: Robbie Grigg PHONE: (817) 334-7800

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? __x__ Yes _____ No
If yes, give the Division order number authorizing the project: R-3134

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

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

VII. Attach data on the proposed operation, including:

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

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Robbie A Grigg TITLE: Regulatory Compliance

SIGNATURE: Robbie A. Grigg DATE: 05/13/2014

E-MAIL ADDRESS: rgrigg@mspartners.com

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

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

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;

(3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, 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.

Item VII
Additional Operational Data

1. Proposed average daily rate – 200 BWPD (per well).
   Proposed maximum daily rate – 400 BWPD (per well).

2. Closed system.

3. Proposed average and maximum pressure:

Well	Avg Press (psig)	Max Press (psig)
SEMGSAU #105	1900	1948
SEMGSAU #617	1900	1989
SEMGSAU #906	1900	2135

30-025-26512
30-025-37897
30-025-31444

4. Injection fluid is primarily produced water from within the SEMGSAU augmented with fresh water purchased from ConocoPhillips and is used extensively in this area for secondary recovery purposes.

5. Injection is not for disposal purposes.

Item VIII
Geologic Data

Formation Name: Grayburg/San Andres
Lithology: Sandstone/Limestone
Thickness: 640' (gross), 70' (net)
Depth: 3,884' (shallowest)
Drinking Water Sources: There are no drinking water sources within 1 mile of the project area. ✓

Item IX
Stimulation Program

Acidize each well with ~ 5,000 gallons 15% NEFE HCl if necessary.

Item X
Logging and Test Data

Log have been previously submitted with well completion reports. No tests have been conducted.

Item XI
Fresh Water Data

There are no fresh water wells within 1 mile of the project area.

Item XII
Disposal Data

Injection is for secondary recovery purposes and not disposal purposes.

Historical Orders for SEMGSAU

Prior WFX orders

WFX-361
WFX-731
WFX-820

IPI (in Area)

IPI-204 Well # 106
IPI-157 Well # 908
IPI-143 Well # ~~908~~ yes 908

Southeast Maljamar (Grayburg-San Andres) Unit
Form C-108 Section IIIA Well Data

Well No.	105	617 *	906
Sec	30	29	32
TWP	17S	17S	17S
RGE	33E	33E	33E
Unit Ltr	I	K	A
Footage 1	2,490' FSL	1,704' FSL	1,200' FNL
Footage 2	1,595' FWL	1,998' FWL	950' FEL
Surf Csg Size (inches)	8.625"	8.625"	8.625"
Surf Csg Depth (ft)	1,300'	1,225'	306'
Surf Csg Cmt (sx)	660	630	250
Surf Hole Size (inches)	12.25"	12.25"	12.25"
TOC	Surf	Surf	Surf
Determination	Circ	Circ	Circ
Prod Csg Size (inches)	5.5"	5.5"	5.5"
Prod Csg Depth (feet)	4,233'	4,450'	4,546'
Prod Csg Cmt (sx)	1,960'	770	1,300
Prod Hole Size (inches)	7.875"	7.875"	7.875"
TOC	Surf	Surf	Surf
Determination	Circ	Circ	Circ
Tubing Size (inches)	2.375"	2.375"	2.375
Tubing Lining Material	Powder-Epoxy	Powder-Epoxy	Powder-Epoxy
Setting Depth	3,800'	4,155'	4,170'
Packer Make	Baker	Baker	Baker
Packer Model	Lok-Set (or Eq)	Lok-Set (or Eq)	Lok-Set (or Eq)
Packer Depth	3,800'	4,155'	4,170'

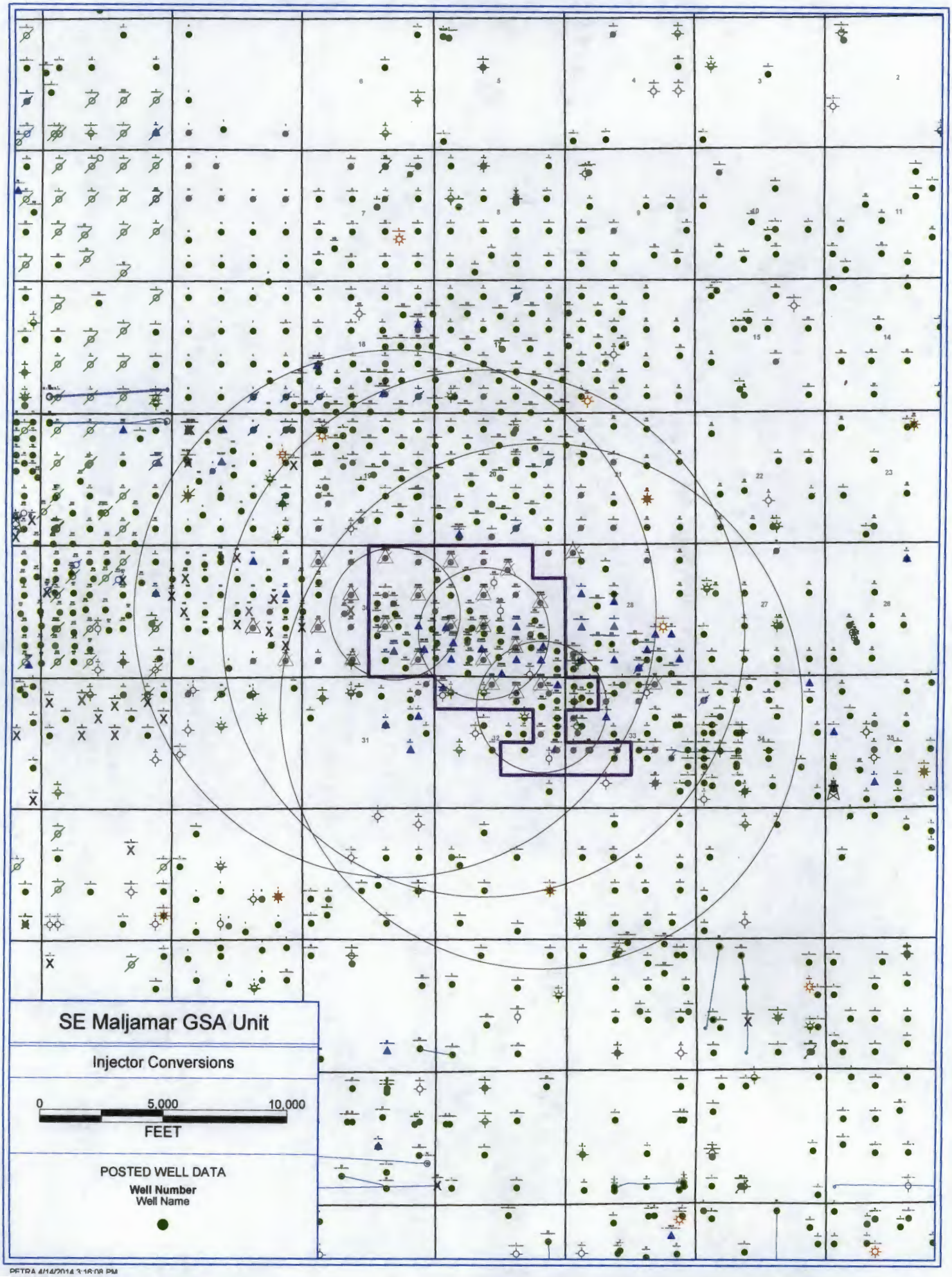
NMOSE Info

SW/4 / Sec. 4 / 18S / 33W
Exploratory: TD at 250'; no water
1991

Misc. 2-2-58
El Paso NG [East Maljamar Plant]
NE'/4 / NE'/4 / NE'/4 of Sec. 29
1958 Compl. — DTW · 204'
Perf. 168' to 244' / 228' to 244'
Sand & red clay

Southeast Maljamar (Grayburg-San Andres) Unit
Form C-108 Section IIIB Well Data

Well No.	105	617	906
Injection Formation	Grayburg/San Andres	Grayburg/San Andres	Grayburg/San Andres
Injection Interval	3,897'-4,308'	3,978'-4,368'	4,270'-4,460'
Perforated?	yes	yes	yes
Open Hole	no	no	no
Original Purpose	Oil	Oil	Oil
Other Perforated Intervals	None	None	None
Other oil or gas zones?	None	None	None


SE Maljamar GSA Unit
Injector Conversions
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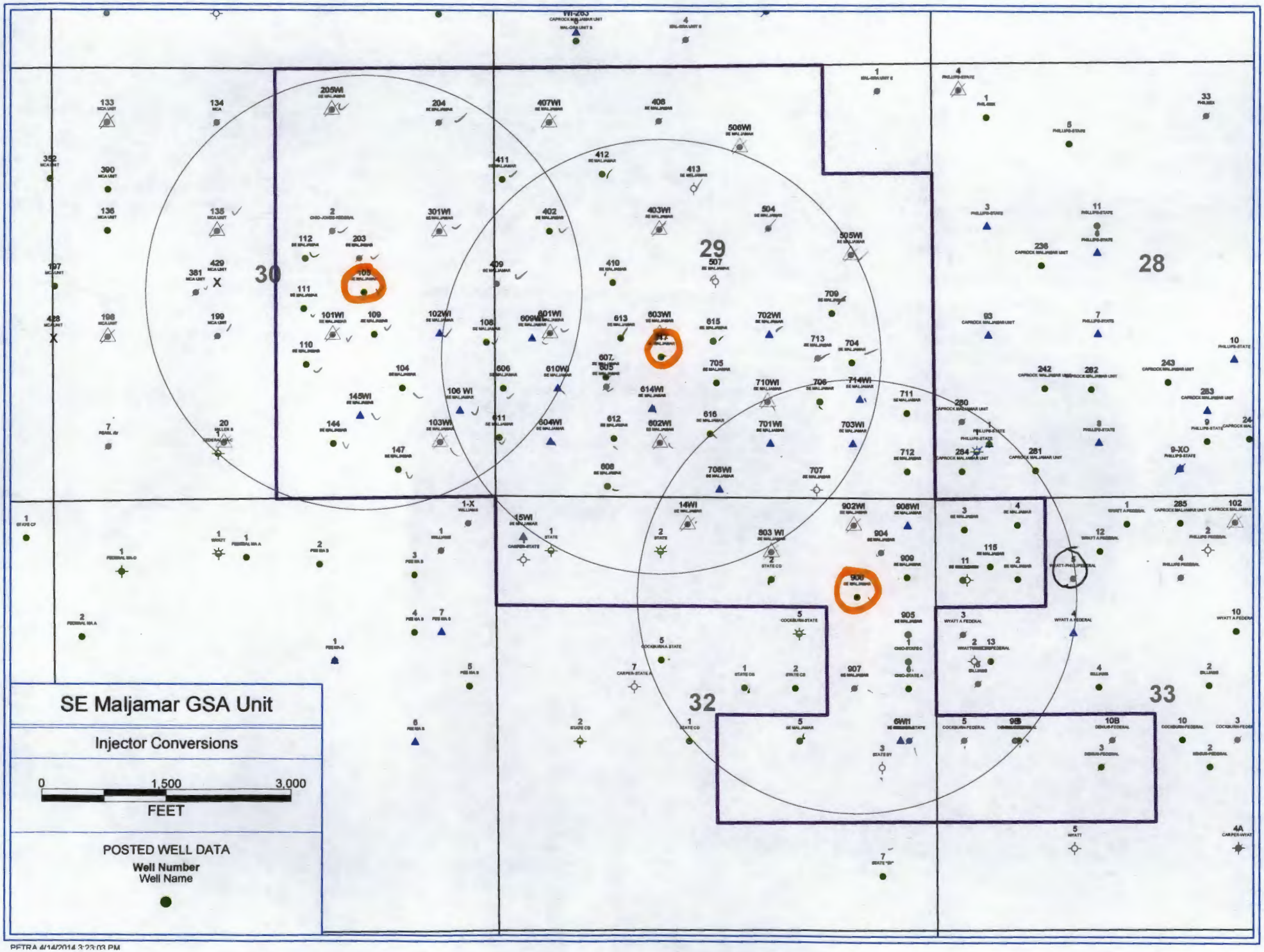
5,000
10,000
FEET
POSTED WELL DATA
Well Number
Well Name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Injector Conversions
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1,500
3,000
FEET
POSTED WELL DATA
Well Number
Well Name
30
29
28
32
33
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Southeast Maljamar Grayburg/SanAndres Unit
Waterflood Expansion Wells within 2 Mile Area of Review

UWI/API	WELLNAME	WELLNO	OPER	LOCATION	STATUS	COMP DATE	TD	SURF CSG DEPTH	SURF CSG SIZE	SURF CSG CMT	PROD CSG DEPTH	PROD CSG SIZ	PROD CSG CMT	PERFORATIONS	COMMENTS
30025013480000	COCKBURN STATE	2	BARNEY COCKBURN	660' FNL, 1,980' FWL, C, SEC 32, T17S, R33E	DHSO&G	9/1/1950	5200	1,280	8-5/8"	50 SX	4,663	7"	50 SX	OH 4,663'-5,200'	RE-PLUGGED 4/80
30025013510000	COCKBURN-STATE	5	BARNEY COCKBURN	1650' FNL, 1650' FEL, G, SEC 32, T17S, R33E	DHSO&G	8/1950	4500	205	13"	0 SX	3,912	7"	100sx	OH 3,912'-4,200'	RE-PLUGGED 2/80
30025015590000	SE MAJAMAR UNIT	202	CITIES SERVICE	1980' FNL, 1980' FEL, G, SEC 30, T17S, R33E	PAOW	10/14/1944	4303	1,175	8-5/8"	50 sx	3,937	7"	100 sx	OH 3,937'-4,303'	
30025242500000	SE MAJAMAR UNIT	707	CITIES SERVICE	100' FSL, 1430' FEL, O, SEC 29, T17S, R33E	DRY	3/12/1973	4430	810	8-5/8"	350 sx	4,429	5-1/2"	435 sx	4,272'-4,284'	
30025013490000	SE MAJAMAR UNIT	803WI	CITIES SERVICE	660' FNL, 1980' FEL, B, SEC 32, T17S, R33E	PLUGINJ	5/12/1944	4325	1,280	8-5/8"	50 sx	4,045	7"	100 sx	OH 4,045'-4,300'	
30025212090000	STATE CB	2	CITIES SERVICE	2310' FNL, 1700' FEL, G, SEC 32, T17S, R33E	PAOW	10/18/1965	8780	333	13-3/8"	250 sx	8,779	4-1/2"	850 sx	8,750'-8,758'	
30025013830000	EILLIAMS	6	CONOCOPHILLIPS	2310' FNL, 659' FWL, E, SEC 33, T17S, R33E	PAOW	7/3/1961	8788	332	13-3/8"	350 SX	8,787	5-1/2"	361 SX	8,562'-8,734'	
30025015640000	MCA UNIT	135	CONOCOPHILLIPS	1980' FNL, 1980' FWL, F, SEC 30, T17S, R33E	PLUGINJ	9/11/1943	4287	30	10"	20 sx	3,947	7"	200 sx	OH 4,111'-4,287'	
30025015630000	MCA UNIT	199	CONOCOPHILLIPS	1980' FSL, 1980' FWL, K, SEC 30, T17S, R33E	PAOW	6/30/1943	4265	20	10-3/4"	20 sx	3,950	7"	200 sx	OH 3,950'-4,265'	
30025303480000	MCA UNIT	381	CONOCOPHILLIPS	2515' FSL, 1720' FWL, K, SEC 30, T17S, R33E	PAOW	8/29/1988	4400	1,210	13-3/8"	750 sx	4,400	5-1/2"	2500 sx	4,081'-4,332'	
30025083380000	PEARL B	3	CONOCOPHILLIPS	685' FSL, 2050' FWL, N, SEC 30, T17S, R33E	PLUGINJ	8/4/1948	4860	20	10"	15 sx	3,986	7"	200 sx	OH 3,986'-4,857'	
30025013670000	WYATT A FEDERAL	4	CONOCOPHILLIPS	1650' FNL, 1650' FWL, F, SEC 33, T17S, R33E	INJ	12/21/1952	4750	1,350	8"	50 sx	4,750	4-1/2"	450 sx	4,492'-4,542'	
30025013630000	WYATT A FEDERAL	13	CONOCOPHILLIPS	1980' FNL, 660' FWL, E, SEC 33, T17S, R33E	OIL	8/26/1947	4582	26	10"	25 sx	3,995	7"	150 sx	OH 3,995'-4,582'	
30025013580000	SE MAJAMAR UNIT	1	CROSS TIMBERS ENERGY	990' FNL, 330' FWL, D, SEC 33, T17S, R33E	OIL	9/5/1953	4303	1,427	7"	0 sx	4,278	5-1/2"	100 sx	OH 4,278'-4,448'	
30025013590000	SE MAJAMAR UNIT	2	CROSS TIMBERS ENERGY	990' FNL, 990' FWL, D, SEC 33, T17S, R33E	OIL	7/22/1953	4302	1,306	8-5/8"	50 sx	4,104	7"	100 sx	OH 4,104'-4,447'	
30025332200000	SE MAJAMAR UNIT	3	CROSS TIMBERS ENERGY	380' FNL, 350' FWL, D, SEC 33, T17S, R33E	OIL	5/3/1996	4480	394	8-5/8"	250 sx	4,470	5-1/2"	950 sx	4,258'-4,399'	
30025339210000	SE MAJAMAR UNIT	4	CROSS TIMBERS ENERGY	330' FNL, 990' FWL, D, SEC 33, T17S, R33E	OIL	6/8/1997	4505	428	8-5/8"	250 sx	4,505	5-1/2"	850 sx	4,308'-4,381'	
30025013410000	SE MAJAMAR UNIT	5	CROSS TIMBERS ENERGY	2310' FSL, 1650' FEL, J, SEC 32, T17S, R33E	OIL	1/20/1954	4705	1,372	8-5/8"	50 sx	3,793	7"	100 sx	4,568'-4,680'	
30025013780000	SE MAJAMAR UNIT	9	CROSS TIMBERS ENERGY	2310' FSL, 940' FWL, L, SEC 33, T17S, R33E	PAOW	9/19/1961	4750	324	8-5/8"	200 sx	4,750	4-1/2"	850 sx	4,612'-4,630'	
30025253190000	SE MAJAMAR UNIT	104	CROSS TIMBERS ENERGY	1355' FSL, 1135' FEL, I, SEC 30, T17S, R33E	OIL	1/16/1977	4350	1,305	8-5/8"	650 sx	4,350	5-1/2"	550 sx	4,184'-4,306'	
30025265120000	SE MAJAMAR UNIT	105	CROSS TIMBERS ENERGY	2490' FSL, 1595' FEL, J, SEC 30, T17S, R33E	OIL	4/17/1980	4350	1,300	8-5/8"	660 sx	4,350	5-1/2"	1960 sx	3,897'-4,308'	
30025334080000	SE MAJAMAR UNIT	108	CROSS TIMBERS ENERGY	1900' FSL, 104' FEL, I, SEC 30, T17S, R33E	OIL	6/20/1996	4405	395	8-5/8"	250 sx	4,303	5-1/2"	850 sx	4,223'-4,282'	
30025336540000	SE MAJAMAR UNIT	109	CROSS TIMBERS ENERGY	1980' FSL, 1470' FEL, J, SEC 30, T17S, R33E	OIL	12/17/1996	4355	416	8-5/8"	275 sx	4,355	5-1/2"	700 sx	4,181'-4,218'	
30025339050000	SE MAJAMAR UNIT	110	CROSS TIMBERS ENERGY	1650' FSL, 2310' FEL, J, SEC 30, T17S, R33E	OIL	5/14/1997	4377	394	8-5/8"	250 sx	4,377	5-1/2"	950 sx	4,210'-4,266'	
30025375730000	SE MAJAMAR UNIT	111	CROSS TIMBERS ENERGY	2304' FSL, 2330' FEL, J, SEC 30, T17S, R33E	OIL	4/6/2006	4345	1,219	8-5/8"	630 sx	4,345	5-1/2"	635 sx	4,194'-4,280'	
30025403010000	SE MAJAMAR UNIT	112	CROSS TIMBERS ENERGY	2310' FNL, 2310' FEL, G, SEC 30, T17S, R33E	OIL	1/25/2012	4351	1,260	8-5/8"	625 sx	4,351	5-1/2"	575 sx	4,140'-4,196'	
30025375740000	SE MAJAMAR UNIT	115	CROSS TIMBERS ENERGY	832' FNL, 660' FWL, D, SEC 33, T17S, R33E	OIL	2/28/2006	4510	1,210	8-5/8"	670 sx	4,510	5-1/2"	800 sx	4,334'-4,420'	
30025228740000	SE MAJAMAR UNIT	144	CROSS TIMBERS ENERGY	660' FSL, 1980' FEL, O, SEC 30, T17S, R33E	OIL	2/22/1969	4381	355	9-5/8"	350 sx	4,381	4-1/2"	125 sx	4,250'-4,350'	
30025386130000	SE MAJAMAR UNIT	147	CROSS TIMBERS ENERGY	334' FSL, 1180' FEL, P, SEC 30, T17S, R33E	OIL	6/13/2009	4420	1,171	8-5/8"	600 sx	4,420	5-1/2"	800 sx	4,272'-4,353'	
30025015570000	SE MAJAMAR UNIT	203	CROSS TIMBERS ENERGY	2310' FNL, 1650' FEL, G, SEC 30, T17S, R33E	PAOW	7/29/1953	4278	1,195	8"	50 sx	3,931	7"	100 sx	4,132'-4,189'	
30025015550000	SE MAJAMAR UNIT	204	CROSS TIMBERS ENERGY	660' FNL, 660' FEL, A, SEC 30, T17S, R33E	PAOW	1/1/1957	4407	1,241	8-5/8"	50 sx	4,039	5-1/2"	100 sx	4,194'-4,252'	
30025015440000	SE MAJAMAR UNIT	402	CROSS TIMBERS ENERGY	1980' FNL, 660' FWL, E, SEC 29, T17S, R33E	OIL	10/12/1943	4320	1,122	9-5/8"	650 sx	4,290	5"	200 sx	3,944'-4,240'	5" liner top @ 3,766', tied into 7" int.
30025260250000	SE MAJAMAR UNIT	409	CROSS TIMBERS ENERGY	2615' FNL, 25' FWL, L, SEC 29, T17S, R33E	PAOW	10/14/1978	4359	1,300	8-5/8"	650 sx	4,359	5-1/2"	3350 sx	4,296'-4,326'	
30025260260000	SE MAJAMAR UNIT	410	CROSS TIMBERS ENERGY	2615' FNL, 1420' FWL, K, SEC 29, T17S, R33E	OIL	12/6/1978	4377	1,316	8-5/8"	650 sx	4,343	5-1/2"	2350 sx	3,948'-4,340'	
30025275700000	SE MAJAMAR UNIT	411	CROSS TIMBERS ENERGY	1345' FNL, 100' FWL, E, SEC 29, T17S, R33E	OIL	2/20/1982	4073	1,299	8-5/8"	900 sx	3,900	7-7/8"	1200 sx	OH 3,900'-4,073'	
30025275710000	SE MAJAMAR UNIT	412	CROSS TIMBERS ENERGY	1295' FNL, 1295' FWL, D, SEC 29, T17S, R33E	OIL	2/3/1982	4425	1,305	8-5/8"	800 sx	4,424	4"	75 sx	4,081'-4,088'	4" liner top @ 3,654, tied into 5-1/2"
30025275650000	SE MAJAMAR UNIT	413	CROSS TIMBERS ENERGY	1485' FNL, 2400' FWL, F, SEC 29, T17S, R33E	TA	2/2/1982	4450	1,312	8-5/8"	800 sx	3,907	5-1/2"	1000 sx	4,118'-4,236'	
30025015520000	SE MAJAMAR UNIT	504	CROSS TIMBERS ENERGY	1980' FNL, 1980' FEL, G, SEC 29, T17S, R33E	PAOW	9/25/1944	4440	1,290	9-5/8"	400 sx	4,356	5-1/2"	90 sx	4,200'-4,306'	
30025264620000	SE MAJAMAR UNIT	507	CROSS TIMBERS ENERGY	2615' FNL, 2615' FEL, G, SEC 29, T17S, R33E	TA	3/4/1980	4380	1,300	8-5/8"	660 sx	3,888	5-1/2"	800 sx	4,305'-4,354'	Premier sqzd (4,172'-4,278')
30025015430000	SE MAJAMAR UNIT	605	CROSS TIMBERS ENERGY	1335' FSL, 1335' FWL, K, SEC 29, T17S, R33E	PAOW	11/14/1947	4276	20	10"	15 sx	4,035	7"	240 sx	4,189'-4,370'	
30025243420000	SE MAJAMAR UNIT	606	CROSS TIMBERS ENERGY	1310' FSL, 100' FWL, L, SEC 29, T17S, R33E	OIL	2/5/1973	4292	833	8-5/8"	400 sx	4,292	5-1/2"	435 sx	4,170'-4,268'	
30025269570000	SE MAJAMAR UNIT	607	CROSS TIMBERS ENERGY	1455' FSL, 1330' FWL, K, SEC 29, T17S, R33E	OIL	10/28/1980	4360	1,302	8-5/8"	660 sx	3,900	5-1/2"	800 sx	4,177'-4,326'	
30025314710000	SE MAJAMAR UNIT	608	CROSS TIMBERS ENERGY	125' FSL, 1345' FWL, N, SEC 29, T17S, R33E	OIL	1/4/1992	4550	309	8-5/8"	250 sx	4,550	5-1/2"	1170 sx	4,257'-4,382'	
30025328890000	SE MAJAMAR UNIT	611	CROSS TIMBERS ENERGY	710' FSL, 50' FWL, M, SEC 29, T17S, R33E	OIL	5/29/1995	4463	357	8-5/8"	250 sx	4,463	5-1/2"	800 sx	4,234'-4,324'	
30025328900000	SE MAJAMAR UNIT	612	CROSS TIMBERS ENERGY	710' FSL, 1425' FWL, N, SEC 29, T17S, R33E	OIL	6/4/1995	4473	333	8-5/8"	250 sx	4,473	5-1/2"	1000 sx	4,228'-4,339'	
30025333360000	SE MAJAMAR UNIT	613	CROSS TIMBERS ENERGY	1930' FSL, 1516' FWL, K, SEC 29, T17S, R33E	OIL	6/3/1996	4325	394	8-5/8"	250 sx	4,324	5-1/2"	850 sx	3,956'-4,285'	
30025335910000	SE MAJAMAR UNIT	615	CROSS TIMBERS ENERGY	1900' FSL, 2630' FWL, K, SEC 29, T17S, R33E	OIL	12/12/1996	4400	418	8-5/8"	275 sx	4,400	5-1/2"	950 sx	4,278'-4,296'	
30025338650000	SE MAJAMAR UNIT	616	CROSS TIMBERS ENERGY	775' FSL, 2590' FWL, N, SEC 29, T17S, R33E	OIL	5/3/1997	4359	394	8-5/8"	250 sx	4,358	5-1/2"	950 sx	4,254'-4,300'	
30025378970000	SE MAJAMAR UNIT	617	CROSS TIMBERS ENERGY	1704' FSL, 1998' FWL, K, SEC 29, T17S, R33E	OIL	9/12/2006	4451	1,225	8-5/8"	630 sx	4,450	5-1/2"	770 sx	4,255'-4,368'	
30025015500000	SE MAJAMAR UNIT	704	CROSS TIMBERS ENERGY	1650' FSL, 990' FEL, I, SEC 29, T17S, R33E	OIL	11/1/1954	4360	297	8-5/8"	300 sx	4,246	5-1/2"	800 sx	4,021'-4,045', 4,246'-4,360' OH	
30025238900000	SE MAJAMAR UNIT	705	CROSS TIMBERS ENERGY	1395' FSL, 2615' FEL, J, SEC 29, T17S, R33E	OIL	12/12/1971	4450	369	8-5/8"	300 sx	4,448	5-1/2"	355 sx	4,178'-4,300'	
30025242030000	SE MAJAMAR UNIT	706	CROSS TIMBERS ENERGY	1155' FSL, 1385' FEL, O, SEC 29, T17S, R33E	OIL	8/22/1972	4350	354	8-5/8"	200 sx	4,350	5-1/2"	435 sx	4,244'-4,322'	
30025275550000	SE MAJAMAR UNIT	709	CROSS TIMBERS ENERGY	2250' FSL, 1225' FEL, I, SEC 29, T17S, R33E	OIL	12/9/1981	4450	1,314	8-3/8"	735 sx	4,449	4"	104 sx	4,218'-4,414'	4" liner top @ 3,678', tied into 5-1/2"
30025335920000	SE MAJAMAR UNIT	711	CROSS TIMBERS ENERGY	1040' FSL, 330' FEL, P, SEC 29, T17S, R33E	OIL	12/15/1996	4405	407	8-5/8"	275 sx	4,404	5-1/2"	800 sx	4,299'-4,355'	
30025336950000	SE MAJAMAR UNIT	712	CROSS TIMBERS ENERGY	330' FSL, 330' FEL, P, SEC 29, T17S, R33E	OIL	1/1/1997	4500	405	8-5/8"	275 sx	4,499	5-1/2"	850 sx	4,301'-4,371'	
30025338680000	SE MAJAMAR UNIT	713	CROSS TIMBERS ENERGY	1700' FSL, 1400' FEL, J, SEC 29, T17S, R33E	PAOW	5/9/1997	4390	388	8-5/8"	250 sx	4,389	5-1/2"	850 sx	4,264'-4,311'	
30025013570000	SE MAJAMAR UNIT	904	CROSS TIMBERS ENERGY	660' FNL, 660' FEL, A, SEC 32, T17S, R33E	PAOW	8/24/1946	4271	1,300	8"	50 sx	3,943	7"	100 sx	OH 3,943'-4,312'	
30025013520000	SE MAJAMAR UNIT	905	CROSS TIMBERS ENERGY	1650' FNL, 330' FEL, H, SEC 32, T17S, R33E	OIL	9/8/1950	4476	1,446	8-5/8"	50 sx	4,474	4-1/2"	50 sx	4,298'-4,390'	4-1/2" liner top @ 3,416', tied into 7"
30025314440000	SE MAJAMAR UNIT	906	CROSS TIMBERS ENERGY	1200' FNL, 950' FEL, A, SEC 32, T17S, R33E	OIL	1/5/1992	4575	307	8-5/8"	250 sx	4,545	5-1/2"	1300 sx	4,270'-4,460'	

Southeast Maljamar Grayburg/SanAndres Unit
Waterflood Expansion Wells within 2 Mile Area of Review

UWI/API	WELLNAME	WELLNO	OPER	LOCATION	STATUS	COMP DATE	TD	SURF CSG DEPTH	SURF CSG SIZE	SURF CSG CMT	PROD CSG DEPTH	PROD CSG SIZ	PROD CSG CMT	PERFORATIONS	COMMENTS
30025314450000	SE MALJAMAR UNIT	907	CROSS TIMBERS ENERGY	2310' FNL, 990' FEL, H, SEC 32, T17S, R33E	PAOW	1/9/1992	4600	338	8-5/8"	200 sx	4,600	5-1/2"	1450 sx	4,316'-4,457'	
30025373860000	SE MALJAMAR UNIT	909	CROSS TIMBERS ENERGY	944' FNL, 330' FEL, A, SEC 32, T17S, R33E	OIL	3/10/2006	4540	1,150	8-5/8"	630 sx	4,540	5-1/2"	725 sx	4,308'-4,408'	
30025083390000	SE MALJAMAR UNIT	101WI	CROSS TIMBERS ENERGY	1980' FSL, 1980' FEL, J, SEC 30, T17S, R33E	PLUGINJ	12/22/1943	4282	1,200	8-5/8"	600 sx	3,927	5-1/2"	300 sx	4,179'-4,249'	
30025083370000	SE MALJAMAR UNIT	102WI	CROSS TIMBERS ENERGY	1980' FSL, 660' FEL, I, SEC 30, T17S, R33E	INJ	2/13/1944	4267	1,235	8-5/8"	550 sx	4,363	4"	350 sx	4,114'-4,226'	4" liner top @ 3,626', tied into 5-1/2"
30025083350000	SE MALJAMAR UNIT	103WI	CROSS TIMBERS ENERGY	660' FSL, 660' FEL, P, SEC 30, T17S, R33E	PLUGINJ	3/25/1944	4355	1,235	8"	550 sx	3,965	5-1/2"	250 sx	4,220'-4,324'	
30025333530000	SE MALJAMAR UNIT	106WI	CROSS TIMBERS ENERGY	1040' FSL, 420' FEL, P, SEC 30, T17S, R33E	INJ	5/15/1996	4418	392	8-5/8"	250 sx	4,417	5-1/2"	950 sx	4,218'-4,279'	
30025266680000	SE MALJAMAR UNIT	145WI	CROSS TIMBERS ENERGY	990' FSL, 1650' FEL, O, SEC 30, T17S, R33E	INJ	4/28/1980	4500	1,265	8-5/8"	570 sx	4,449	5-1/2"	950 sx	4,226'-4,425'	
30025013500000	SE MALJAMAR UNIT	14WI	CROSS TIMBERS ENERGY	330' FNL, 2310' FWL, C, SEC 32, T17S, R33E	PLUGINJ	11/12/1951	4298	1,223	7"	50 sx	4,102	5-1/2"	100 sx	4,096'-4,298'	
30025220930000	SE MALJAMAR UNIT	205WI	CROSS TIMBERS ENERGY	500' FNL, 1980' FEL, B, SEC 30, T17S, R33E	PLUGINJ	5/1/1967	4300	353	8-5/8"	350 sx	4,300	4-1/2"	300 sx	4,166'-4,182'	
30025015580000	SE MALJAMAR UNIT	301WI	CROSS TIMBERS ENERGY	1980' FNL, 660' FEL, H, SEC 30, T17S, R33E	PLUGINJ	3/29/1944	4291	1,163	8-5/8"	100 sx	3,950	7"	150 sx	4,114'-4,192'	
30025015450000	SE MALJAMAR UNIT	403WI	CROSS TIMBERS ENERGY	1980' FNL, 1980' FWL, F, SEC 29, T17S, R33E	PLUGINJ	7/28/1944	4300	1,210	8"	550 sx	4,015	5-1/2"	300 sx	4,185'-4,277'	
30025015530000	SE MALJAMAR UNIT	505WI	CROSS TIMBERS ENERGY	2310' FNL, 990' FEL, H, SEC 29, T17S, R33E	PLUGINJ	2/9/1959	4490	254	8-5/8"	100 sx	4,490	5-1/2"	125 sx	4,137'-4,472'	
30025015390000	SE MALJAMAR UNIT	601WI	CROSS TIMBERS ENERGY	1980' FSL, 660' FWL, L, SEC 29, T17S, R33E	PLUGINJ	10/31/1943	4272	1,265	8"	50 sx	3,969	7"	75 sx	4,253'-4,272'	4" Liner 3,809'-4,253'.
30025015400000	SE MALJAMAR UNIT	602WI	CROSS TIMBERS ENERGY	660' FSL, 1980' FWL, N, SEC 29, T17S, R33E	PLUGINJ	7/31/1943	4319	1,300	8"	25 sx	4,060	7"	100 sx	OH 4,060'-4,312'	
30025015410000	SE MALJAMAR UNIT	603WI	CROSS TIMBERS ENERGY	1980' FSL, 1980' FWL, K, SEC 29, T17S, R33E	PLUGINJ	11/4/1943	4300	1,265	8-5/8"	100 sx	3,950	7"	75 sx	4,115'-4,300'	4-1/2" Liner 3,742'-4,115'.
30025015420000	SE MALJAMAR UNIT	604WI	CROSS TIMBERS ENERGY	660' FSL, 660' FWL, M, SEC 29, T17S, R33E	INJ	12/14/1943	4302	1,260	8-5/8"	50 sx	3,963	5"	215 sx	4,236'-4,326'	5" liner top @ 3,759', tied into 7"
30025314460000	SE MALJAMAR UNIT	609WI	CROSS TIMBERS ENERGY	1920' FSL, 450' FWL, L, SEC 29, T17S, R33E	INJ	1/15/1992	4420	1,248	9-5/8"	650 sx	4,420	5-1/2"	1375 sx	4,153'-4,278'	
30025328880000	SE MALJAMAR UNIT	610WI	CROSS TIMBERS ENERGY	1310' FSL, 750' FWL, L, SEC 29, T17S, R33E	INJ	5/30/1995	4397	348	8-5/8"	250 sx	4,397	5-1/2"	900 sx	4,252'-4,278'	
30025333370000	SE MALJAMAR UNIT	614WI	CROSS TIMBERS ENERGY	1070' FSL, 1888' FWL, N, SEC 29, T17S, R33E	INJ	6/16/1996	4395	357	8-5/8"	250 sx	4,390	5-1/2"	850 sx	4,250'-4,308'	
30025013420000	SE MALJAMAR UNIT	6WI	CROSS TIMBERS ENERGY	2310' FSL, 430' FEL, I, SEC 32, T17S, R33E	INJ	12/4/1961	4748	325	8-5/8"	300 sx	4,744	4-1/2"	250 sx	4,602'-4,645	
30025015480000	SE MALJAMAR UNIT	701WI	CROSS TIMBERS ENERGY	660' FSL, 1980' FEL, O, SEC 29, T17S, R33E	INJ	3/11/1944	4440	1,286	10-3/4"	500 sx	4,439	5"	100 sx	4,222'-4,343'	5" liner top @ 3,736', tied into 7"
30025083340000	SE MALJAMAR UNIT	702WI	CROSS TIMBERS ENERGY	1980' FSL, 1980' FEL, J, SEC 29, T17S, R33E	INJ	3/11/1944	4400	1,246	8-5/8"	400 sx	4,399	5"	80 sx	4,192'-4,302'	5" liner top @ 3,709', tied into 7"
30025015490000	SE MALJAMAR UNIT	703WI	CROSS TIMBERS ENERGY	660' FSL, 990' FEL, P, SEC 29, T17S, R33E	INJ	2/1/1953	4340	1,260	8-5/8"	550 sx	4,290	5-1/2"	300 sx	4,280'-4,290', 4,290'-4,340' OH	
30025243910000	SE MALJAMAR UNIT	708WI	CROSS TIMBERS ENERGY	100' FSL, 2590' FEL, O, SEC 29, T17S, R33E	INJ	4/10/1973	4316	819	8-5/8"	500 sx	4,316	5-1/2"	435 sx	4,255'-4,292'	
30025333380000	SE MALJAMAR UNIT	710WI	CROSS TIMBERS ENERGY	1165' FSL, 2010' FEL, O, SEC 29, T17S, R33E	PLUGINJ	6/20/1996	4400	404	8-5/8"	250 sx	4,394	5-1/2"	850 sx	4,272'-4,324'	
30025338690000	SE MALJAMAR UNIT	714WI	CROSS TIMBERS ENERGY	1200' FSL, 900' FEL, P, SEC 29, T17S, R33E	INJ	5/17/1997	4450	383	8-5/8"	250 sx	4,450	5-1/2"	900 sx	4,282'-4,332'	
30025013530000	SE MALJAMAR UNIT	902WI	CROSS TIMBERS ENERGY	330' FNL, 990' FEL, A, SEC 32, T17S, R33E	PLUGINJ	5/10/1951	4314	1,257	8-5/8"	50 sx	4,050	5-1/2"	100 sx	OH 4,050'-4,500'	
30025335930000	SE MALJAMAR UNIT	908WI	CROSS TIMBERS ENERGY	330' FNL, 330' FEL, A, SEC 32, T17S, R33E	INJ	12/13/1996	4450	415	8-5/8"	275 sx	4,417	5-1/2"	900 sx	4,261'-4,399'	
30025013610000	COCKBURN-FEDERAL	5	DENIUS, HR ET AL	2310' FSL, 330' FWL, L, SEC 33, T17S, R33E	PAOW	1/10/1954	3880	1,380	8-5/8"	50 sx	3,880	5-1/2"	250 sx	3,840'-3,862'	P&A Queen only
30025013680000	WYATT-PHILLIPS FEDERAL	5	DENIUS, HR ET AL	990' FNL, 1650' FWL, C, SEC 33, T17S, R33E	PAOW	1/28/1955	4305	1,200	8"	100 sx	4,305	4"	100 sx	OH 4,258'-4,305'	
30025013660000	WYATT A FEDERAL	3	DUNAGAN	1650' FNL, 330' FWL, E, SEC 33, T17S, R33E	PAOW	6/18/1952	4432	1,318	7"	50 sx	3,718	5-1/2"	50 sx	4,300'-4,325'	4" Liner 3,509'-4,430'
30025013730000	COCKBURN	1	DUNIGAN, JAMES P	990' FNL, 380' FWL, D, SEC 33, T17S, R33E	DRY	4/5/1961	8940	308	13-3/8"	340 sx	4,557	8-5/8"	1950 sx	None	Re-plugged 1/85.
														6,846'-6,866'	
30025013550000	GIFFORD A STATE	1	LATIGO PETROLEUM	2310' FSL, 330' FEL, I, SEC 32, T17S, R33E	PAOW	9/22/1961	8829	314	11-3/4"	225 sx	8,823	4-1/2"	1500 sx	8,561'-8,644'	
30025341940000	CAPROCK MALJAMAR UNIT	284	LINN	330' FSL, 330' FWL, M, SEC 28, T17S, R33E	OIL	1/7/1998	4550	396	8-5/8"	300 sx	4,550	4-1/2"	1350 sx	4,268'-4,344'	
30025015250000	PHILLIPS-STATE	1	LINN	660' FSL, 660' FWL, M, SEC 28, T17S, R33E	INJ	12/21/1957	4440	354	8-5/8"	250 sx	4,635	4-1/2"	150 sx	4,302'-4,605'	CTI
30025013770000	DENIUS-FEDERAL	6	LRE	2310' FSL, 990' FWL, L, SEC 33, T17S, R33E	OIL	3/25/1961	8809	315	13-3/8"	325 sx	8,809	4-1/2"	1650 sx	8.605'-8,660'	
30025252860000	COCKBURN A STATE	5	MACK	1980' FNL, 1980' FWL, F, SEC 32, T17S, R33E	OIL	9/12/1976	13705	456	13-3/8"	475 sx	10,817	5-1/2"	2235 sx	8,645'-8,615'	
30025013450000	STATE CD	3	MACK	2310' FNL, 2310' FEL, G, SEC 32, T17S, R33E	PAOW	1/7/1962	4810	329	8-5/8"	300 sx	4,810	4-1/2"	250 sx	4,345'-4,492'	
30025216620000	STATE CD	2	MACK	990' FNL, 1980' FEL, B, SEC 32, T17S, R33E	PAOW	3/28/1966	8820	334	13-3/8"	320 sx	8,819	4-1/2"	700 sx	8,600'-8,695'	
30025013560000	OHIO-STATE C	1	OXY USA INC	1980' FNL, 330' FEL, H, SEC 32, T17S, R33E	OIL	11/24/1960	8825	311	13-3/8"	340 sx	8,825	4-1/2"	1600 sx	8,626'-8,661'	
														4,830'-5,210'	
														5,944'-5,982'	
30025239880000	PHILMEX	14	PHILLIPS PETROLEUM	569' FSL, 507' FWL, M, SEC 28, T17S, R33E	PASWD	3/2/1972	12752	376	11-3/4"	480 sx	6,600	5-1/2"	1650 sx	6,132'-6,450'	
30025337730000	CAPROCK MALJAMAR UNIT	280	WISER	932' FSL, 330' FWL, M, SEC 28, T17S, R33E	PAOW	4/5/1997	4827	444	8-5/8"	325	4,827	5-1/2"	850 sx	4,200'-4,649'	P&A'd 6/10/02
30025013400000	STATE BY	3	XTO ENERGY	1980' FSL, 660' FEL, I, SEC 32, T17S, R33E	PAOW (3)	12/17/1952	4715	1,370	8-5/8"	50 sx	3,813	7"	100 sx	3,813'-3,936' OH	Drilled to 4715, set cmt plug and produced Queen

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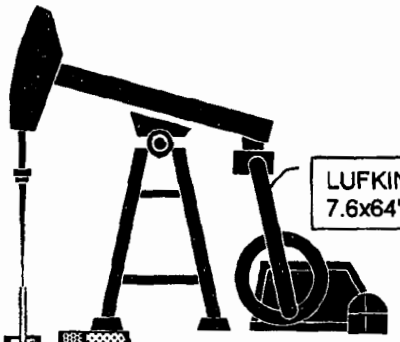
2/4/43

SEMGSAU #105
Existing Wellbore Diagram



ELEV: KB 4,061'
GL 4,050'
CORR 11'

LUFKIN C-160-230-64 w/25 HP MTR.
7.6x64" SPM.

12¼" HOLE

8⅝", 24#, K-55, STC CSG @ 1,300'. CMTD w/460 SX HLC w/2% $CaCl_2$ & ¼#/SX CF & 200 SX CL "C" CMT w/2% $CaCl_2$. CIRC 125 SX CMT TO SURF.

7⅞" HOLE

RODS: 1½"x22' PR, 1-2' & 1-6' x ⅞" D-78 PONY RODS, 160 – ⅞" D-78 RODS, 8 -1¼" SB's, 4' x ⅞" ROD GUIDE.
PUMP: 2½"x1½"x24' RHBC w/1"x12' GAC.

TBG: 128 JTS 2⅞ ", 6.5#, J-55, EUE, 8rd TBG, TAC, 8 JTS 2⅞ ", 6.5#, J-55, EUE, 8rd TBG, 1 JT 2⅞ ", 6.5#, J-55, EUE, 8rd IPC TBG, SN, 4' PERF'd SUB, 1 JT 2⅞ ", 6.5#, J-55, EUE, 8rd TBG), BP. LANDED @ 4,301'. SN @ 4,265'. TAC @ 3,976'.

DV TOOL @ 3,757' (CCL). CMT'd 2ND STG w/1,600 SX HLC w/15#/SX SALT & ¼#/SX CF & 200 SX CL "C" w/2% $CaCl_2$. CIRC 200 SX TO SURF.

LYNES ECP @ 3,808' (CCL)

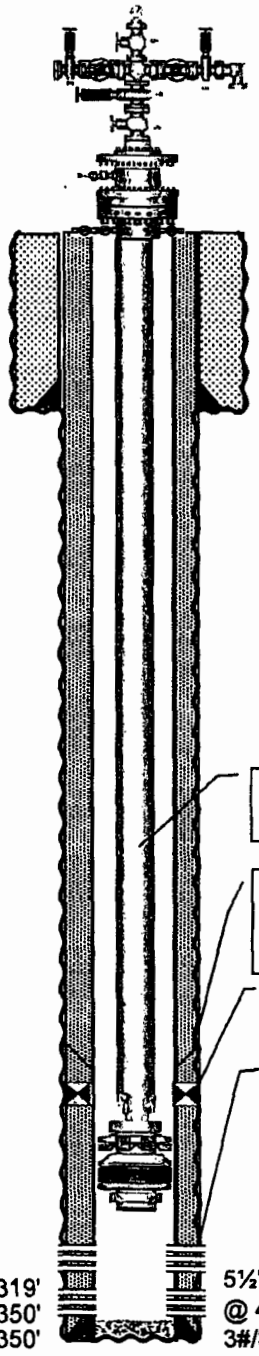
PREMIER: 3,897', 3,901', 03', 08', 15', 17', 19', 71', 73', 75', 77', 4,019', 21', 23', 28', 30', 32', 47', 49', 51' & 53',4,118'-32', 4,148'-52', 4,160'-4164', 4,168'-72', 4,180'-86', 4,198'-4,213' (115 HOLES).
SAN ANDRES: 4230'-38', 4248'-58' & 4284'-4308' (84 HOLES). 3/14/80

FILL @ 4,319'
PBTD: 4,350'
TD: 4,350'

5½" 15.5#, K-55 (SURF-3,498') & 17#, N-80 (3,498'-4,350') CSG @ 4,350'. CMT'D 1ST STG W/160 SX CL "H" CMT w/3#/SX SALT, 3#/SX GILSONITE & 3#/SX SD.

SEMGSAU #105
Proposed Wellbore Diagram

ELEV: KB 4,061'
GL 4,050'
CORR 11'



12¼" HOLE

8⅝", 24#, K-55, STC CSG @ 1,300'. CMTD w/460 SX HLC w/2% $CaCl_2$ & ¼#/SX CF & 200 SX CL "C" CMT w/2% $CaCl_2$. CIRC 125 SX CMT TO SURF.

7⅞" HOLE

TBG: ~122 JTS 2⅜", 4.7#, J-55, EUE, 8rd, IPC TBG, SN, 5½" ENP, IPC PKR. LANDED @ ~3,830'.

DV TOOL @ 3,757' (CCL). CMT'd 2ND STG w/1,600 SX HLC w/15#/SX SALT & ¼#/SX CF & 200 SX CL "C" w/2% $CaCl_2$. CIRC 200 SX TO SURF.

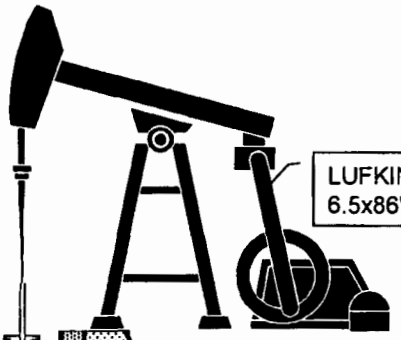
LYNES ECP @ 3,808' (CCL)

PREMIER: 3,897', 3,901', 03', 08', 15', 17', 19', 71', 73', 75', 77', 4,019', 21', 23', 28', 30', 32', 47', 49', 51' & 53',4,118'-32', 4,148'-52', 4,160'-4164', 4,168'-72', 4,180'-86', 4,198'-4,213' (115 HOLES).
SAN ANDRES: 4230'-38', 4248'-58' & 4284'-4308' (84 HOLES). 3/14/80

FILL @ 4,319'
PBTD: 4,350'
TD: 4,350'

5½" 15.5#, K-55 (SURF-3,498') & 17#, N-80 (3,498'-4,350') CSG @ 4,350'. CMT'D 1ST STG W/160 SX CL "H" CMT w/3#/SX SALT, 3#/SX GILSONITE & 3#/SX SD.

SEMGSAU #617
Existing Wellbore Diagram



ELEV: KB 4,075'
GL 4,058'
CORR 17'

LUFKIN M-160-200-86 w/15 HP MTR.
6.5x86" SPM.

12¼" HOLE

8⅝", 24#, J-55, STC CSG @ 1,225'. CMT'd w/430 SX CL "C" CMT w/4% GEL, 2% $CaCl_2$ & ¼#/SX CF (13.5 PPG, 1.75 FT^3/SX) FOLLOWED BY 200 SX CL "C" w/2% $CaCl_2$ (14.8 PPG, 1.34 FT^3/SX). CIRC 155 SX CMT TO SURF.

7⅞" HOLE

RODS: 1½"x26' SMPR, 2-4' & 1-8' x 1" GR "D" PONY RODS, 56 – 1", 70 - ⅞" & 40 – ¾" GR "D" (N-78) RODS, 6 – 1 ½" SB's, 1"x4' ROD GUIDE
PUMP: 2½"x1½"x24'x4' RXBC w/1¼"x8' GAC.

TBG: 124 JTS 2⅞", 6.5#, J-55, EUE, 8rd TBG, TAC, 12 JTS 2⅞", 6.5#, J-55, EUE, 8rd TBG, 1 JT 2⅞", 6.5#, J-55, EUE, 8rd, IPC TBG, SN, 4' PERF'd SUB, 1 JT 2⅞", 6.5#, J-55, EUE, 8rd TBG w/BP. LANDED @ 4,394'. SN @ 4,357'. TAC @ 3,942'.

PREMIER: 4,255'-4,268' (13', 13 HOLES) & 4,272'-4,289' (17', 17 HOLES).

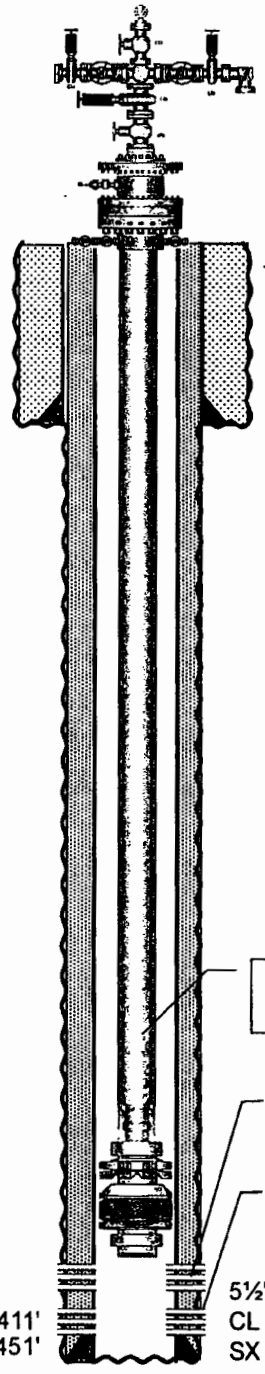
SAN ANDRES: 4,344'-46', 4,349'-51' & 4,366'-68' 6 HOLES.

5½", 17#, J-55, LTC CSG @ 4,450'. CMT'D w/570 SX INTERFILL CL "C" w/¼#/SX CF (11.9 PPG, 2.45 FT^3/SX) FOLLOWED w/200 SX CLASS "C" (14.8 PPG, 1.37 FT^3/SX). CIRC 10 SX TO SURF.

PBTD: 4,411'
TD: 4,451'

SEMGSAU #617
Proposed Wellbore Diagram

ELEV: KB 4,075'
GL 4,058'
CORR 17'



12¼" HOLE

8⅝", 24#, J-55, STC CSG @ 1,225'. CMT'd w/430 SX CL "C" CMT w/4% GEL, 2% $CaCl_2$ & ¼#/SX CF (13.5 PPG, 1.75 FT^3/SX) FOLLOWED BY 200 SX CL "C" w/2% $CaCl_2$ (14.8 PPG, 1.34 FT^3/SX). CIRC 155 SX CMT TO SURF.

7⅞" HOLE

TBG: 2⅜", 4.7#, J-55, EUE, 8rd, IPC TBG, SN, 5 ½", ENP, IPC INJECTION PKR (@ ~4,200')

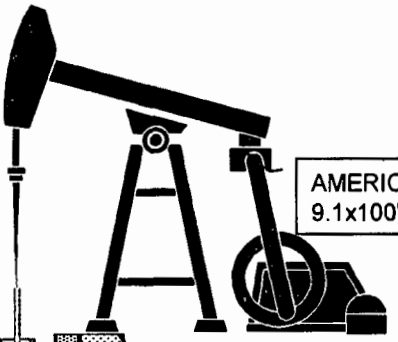
PREMIER: 4,255'-4,268' (13', 13 HOLES) & 4,272'-4,289' (17', 17 HOLES).

SAN ANDRES: 4,344'-46', 4,349'-51' & 4,366'-68' 6 HOLES.

5½", 17#, J-55, LTC CSG @ 4,450'. CMT'D w/570 SX INTERFILL CL "C" w/¼#/SX CF (11.9 PPG, 2.45 FT^3/SX) FOLLOWED w/200 SX CLASS "C" (14.8 PPG, 1.37 FT^3/SX). CIRC 10 SX TO SURF.

PBTD: 4,411'
TD: 4,451'

SEMGSAU #906
Existing Wellbore Diagram



ELEV: KB 4,064'
GL 4,051'
CORR 13'

AMERICAN C-228-213-100 w/25 HP MTR.
9.1x100" SPM.

12¼" HOLE

8⅝", 24.55#, X-42, STC @ 306'. CMT'd w/250 SX CL "C" CMT w/2% $CaCl_2$ (14.8 PPG, 1.32 FT^3/SX). CIRC 48 SX TO SURF.

7⅞" HOLE

RODS: 1¼"x22' PR, 12'x⅞" PONY ROD, 67 - ⅞", 85 - ¾", 22 - ⅞" GR "D" RODS, 4'x⅞" ROD GUIDE, RHBO BOX
PUMP: 2"x1¼"x24'x5' RXBC w/8' GAC..

TBG: 133 JTS 2⅜", 4.7#, J-55, EUE, 8rd TBG, TAC, 6 JTS 2⅜", 4.7#, J-55, EUE, 8rd TBG, 1 JT 2⅜", 4.7#, J-55, EUE, 8rd, IPC TBG, SN, 4' PERF'd SUB, 32' 2⅜" BPMA. LANDED @ 4,462'. SN @ 4,425'. TAC @ 4,208'.

GRAYBURG: 4,270'-72', 4,278'-4,304', 4,328'-34', 4,350'-58', 4,366'-74', 1 JSPF, 55 HOLES.

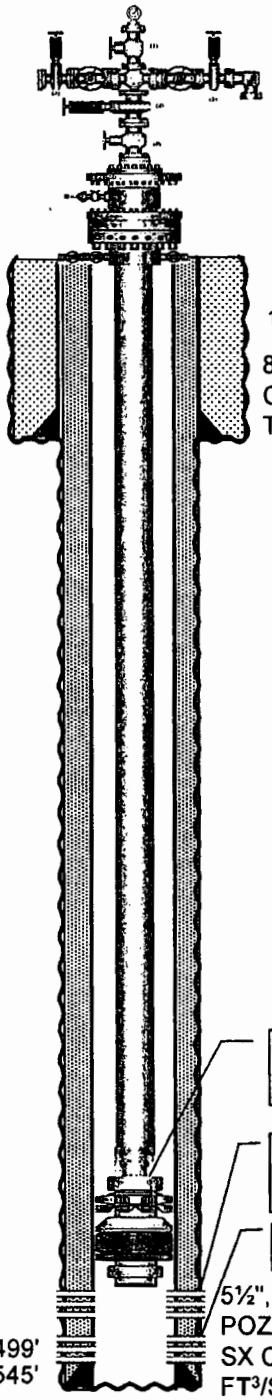
SAN ANDRES: 4,448'-4,460', 1 JSPF, 13 HOLES.

5½", 17#, K-55, LTC CSG @ 4,545'. CMT'D w/1,050 SX 35/65 POZ/C w/8% GEL & 5# SALT/SX (12.7 PPG, 2.04 FT^3/SX) & 250 SX CLASS "C" w/5# SALT/SX & 3# SD/SX (14.8 PPG, 1.33 FT^3/SX). CIRC 52 SX CMT TO SURF.

PBTD: 4,499'
TD: 4,545'

SEMGSAU #906
Proposed Wellbore Diagram

ELEV: KB 4,064'
GL 4,051'
CORR 13'



12¼" HOLE

8⅝", 24.55#, X-42, STC @ 306'. CMT'd w/250 SX CL "C" CMT w/2% $CaCl_2$ (14.8 PPG, 1.32 FT^3/SX). CIRC 48 SX TO SURF.

7⅞" HOLE

TBG: 2⅜", 4.7#, J-55, EUE, 8rd, IPC TBG, SN, 5½" ENP, IPC INJECTION PKR. LANDED @ ~4,200'

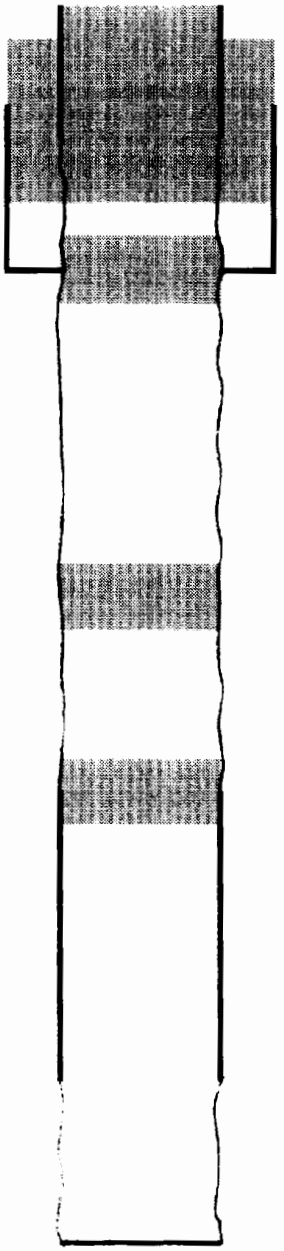
GRAYBURG: 4,270'-72', 4,278'-4,304', 4,328'-34', 4,350'-58', 4,366'-74', 1 JSPF, 55 HOLES.

SAN ANDRES: 4,448'-4,460', 1 JSPF, 13 HOLES.

5½", 17#, K-55, LTC CSG @ 4,545'. CMT'D w/1,050 SX 35/65 POZ/C w/8% GEL & 5# SALT/SX (12.7 PPG, 2.04 FT^3/SX) & 250 SX CLASS "C" w/5# SALT/SX & 3# SD/SX (14.8 PPG, 1.33 FT^3/SX). CIRC 52 SX CMT TO SURF.

PBTD: 4,499'
TD: 4,545'

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'

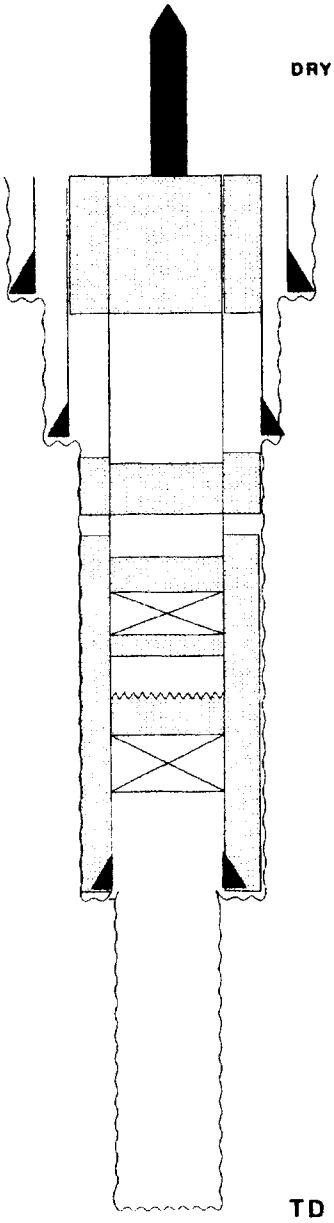
PRODUCTION CASING:
7" @ 4663', CMT W/50 SX

TD:5200

CITIES SERVICE
STATE "CB" #5

(P&A 2/80)

AKA Cockburn-State #5



DRY HOLE MARKER

13 3/8" @ 205' W/ 0 SX.
PERF @ 250'. SQZ W/ 375 SX.
CIRC. 6 SX TO SURF.

10 3/4" 34# CSG @ 856' W/ 0 SX.
TOC 926'

PERF @ 1150'. SQZ W/ 500 SX.
DISPLACE TO 1050'
TOC 1250'

RETAINER @ 1305'. SQZ W/ 500 SX.

CIBP @ 3475' W/ 7 SX.

SQZ @ 3275' W/ 15 SX.
PERF 3685'-3700'

7" 20# CSG @ 3912' W/ 100 SX.

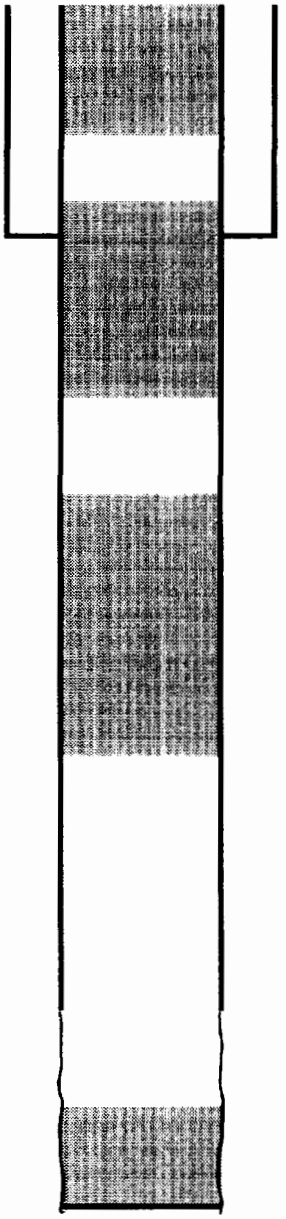
TD 4500'

1650' FNL, 1650' FEL, SEC 32, T17S, R33E

OHIO JONES FEDERAL #2

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

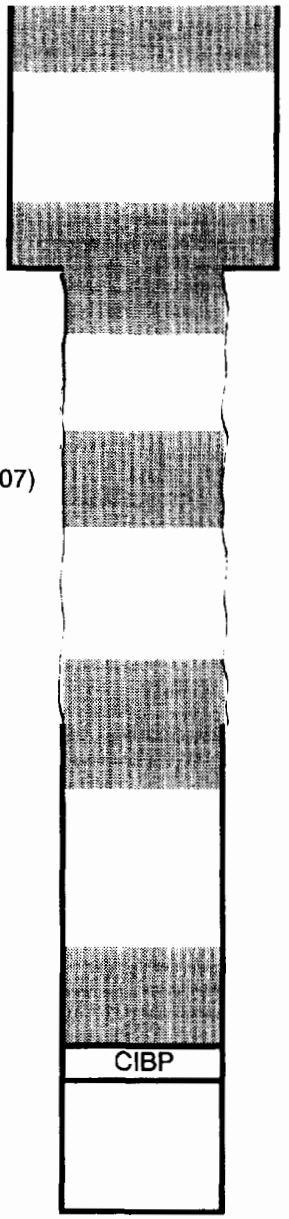
PLUGS SET AS FOLLOWS:

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 #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

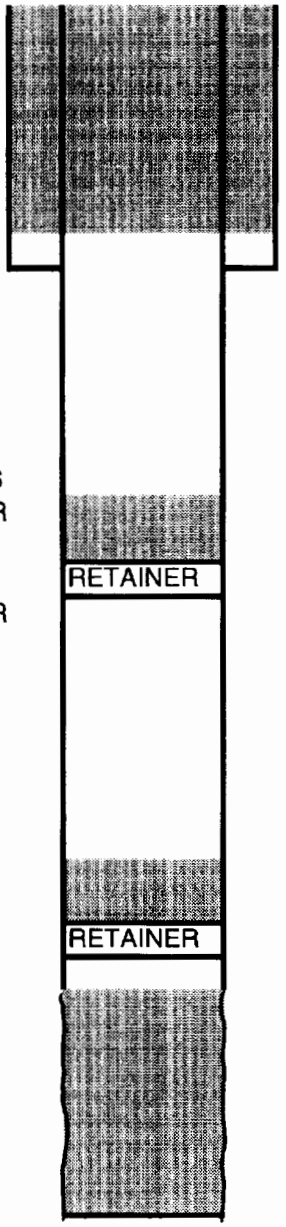
PLUGS SET AS FOLLOWS:

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 #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

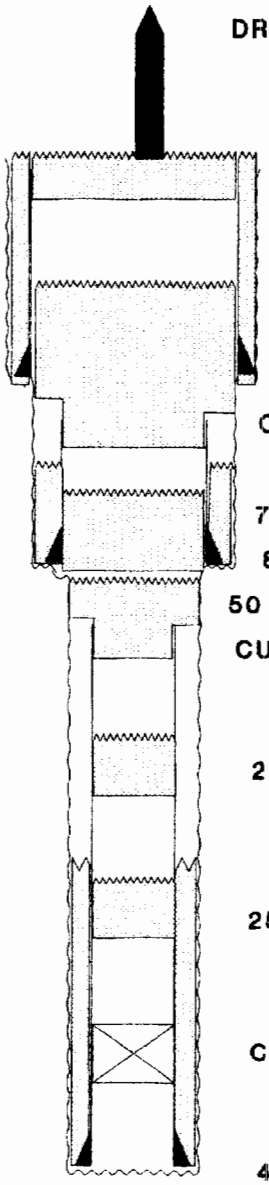
PLUGS SET AS FOLLOWS:

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

CITIES SERVICE
STATE "CB" #2



DRY HOLE MARKER

40 SX 56'-SURF.

120 SX 443'-143'.

13 3/8" @ 331' W/ 250 SX.

CUT OFF 8 5/8" @ 386'.

75 SX 3019'-2719'.

8 5/8" 24# @ 2897' W/ 500 SX.

50 SX 3219'-3019'

CUT OFF 4 1/2" CSG @ 3068'

25 SX 3993'-3743'

25 SX 6234'-5985'.

CIBP @ 8630' W/ 5 SX.

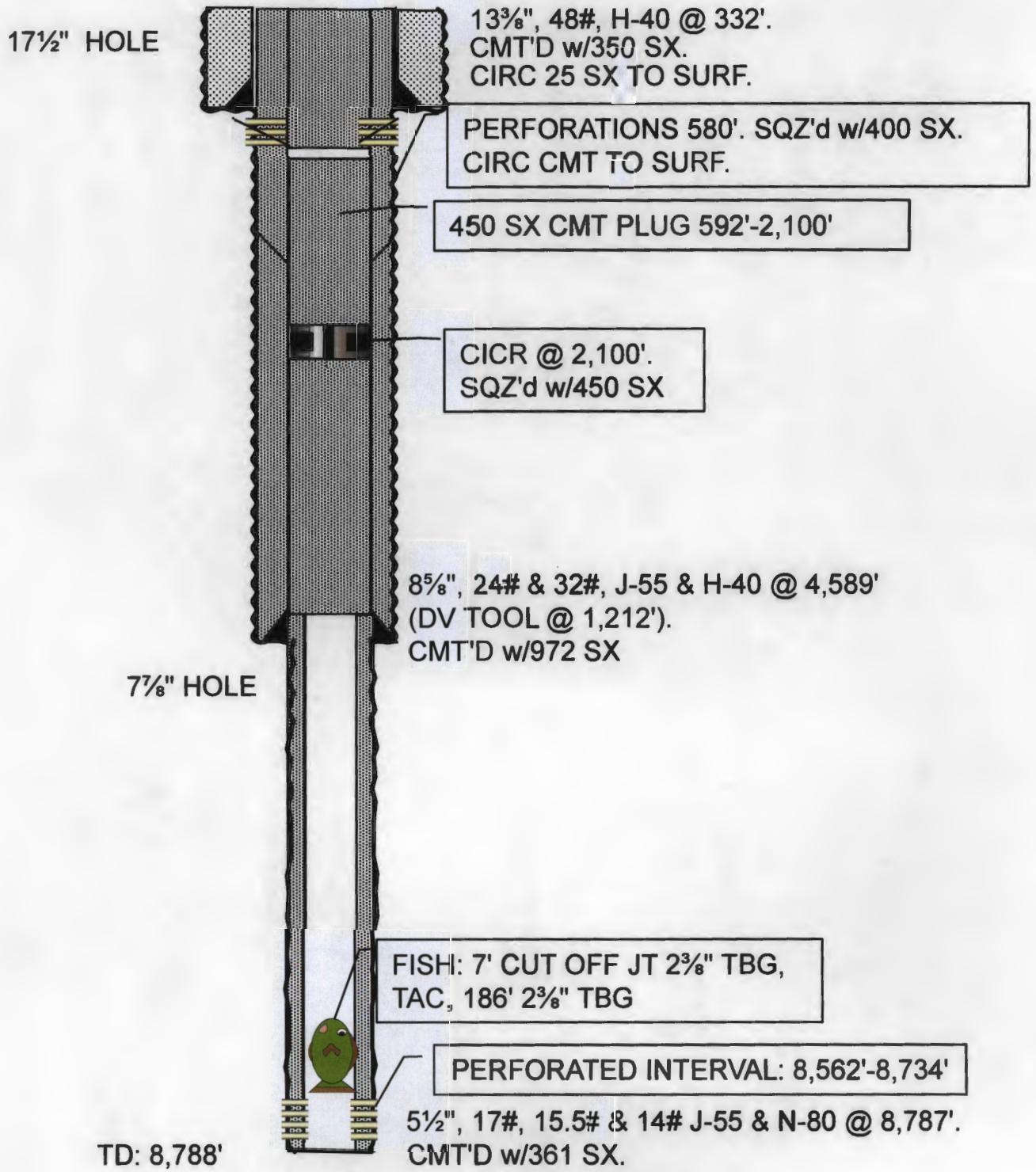
PERFS 8750'-8758'

4 1/2" 11.6# @ 8799' W/ 850 SX.

2310' FNL, 1700' FEL, SEC 32, T17S, R33E

EILLIAMS #6
2,311' FNL, 659' FWL
UNIT E, SEC 33 T17S R33E
LEA CO., NM
API #30-025-01383
P & A'd

ELEV: KB 4,071'
GL 4,058'
CORR 13'

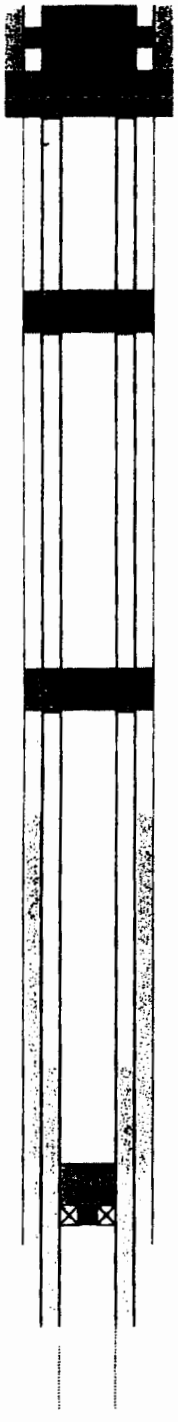


PLUGGED WELLBORE SKETCH

ConocoPhillips Company -- Permian Basin Business Unit

Date: September 28, 2004

RKB @ _____
DF @ _____
GL @ 4062'



30 sx C cmt 70' to surface, perf/sqz

10" OD csg @ 20' cmt'd w/ 24 sx to surface
70 sx C cmt 250 - 130', perf/sqz, TAGGED
45 sx C cmt 400 - 250', perf/sqz, TAGGED

45 sx C cmt 1,440 - 1,335', perf/sqz, TAGGED
Top of Salt @ 1,440'

Base of Salt @ 2,170'

45 sx C cmt 2,270 - 2,125', perf/sqz, TAGGED

TOC 7" csg @ 2,764' (Est.)

TOC 4-1/2" @ 3,500'

25 sx C cmt on CICR 3,881 - 3,518'
on top of CICR @ 3,881' (unable to pump under CICR @ 1,500 psi)

7" OD 22# casing @ 3,954'
Cmt'd w/250 sx; TOC @ 2,764' (Est.)

4-1/2" 9.5# J-55 @ 4,111'
Cmt w/35 sx; TOC @ 3,500'

OH 4,111' - 4,260'
Cmt plug 4,260 - 4,287'

PBTD: 4260'
TD: 4287'

Subarea :	Maljamar
Lease & Well No. :	MCA Unit No. 135
Legal Description :	1980' FNL & 1980' FWL, SE/4 NW/4 Sec. 30, T-17-S, R-33-E
County :	Lea State :
Field :	Maljamar (Grayburg-San Andres)
Date Spudded :	July 16, 1943 IPP:
API Number :	30-025-01564
Status:	PLUGGED 09/13/04

Drilled as Pearl Miller B No. 18

Stimulation History:

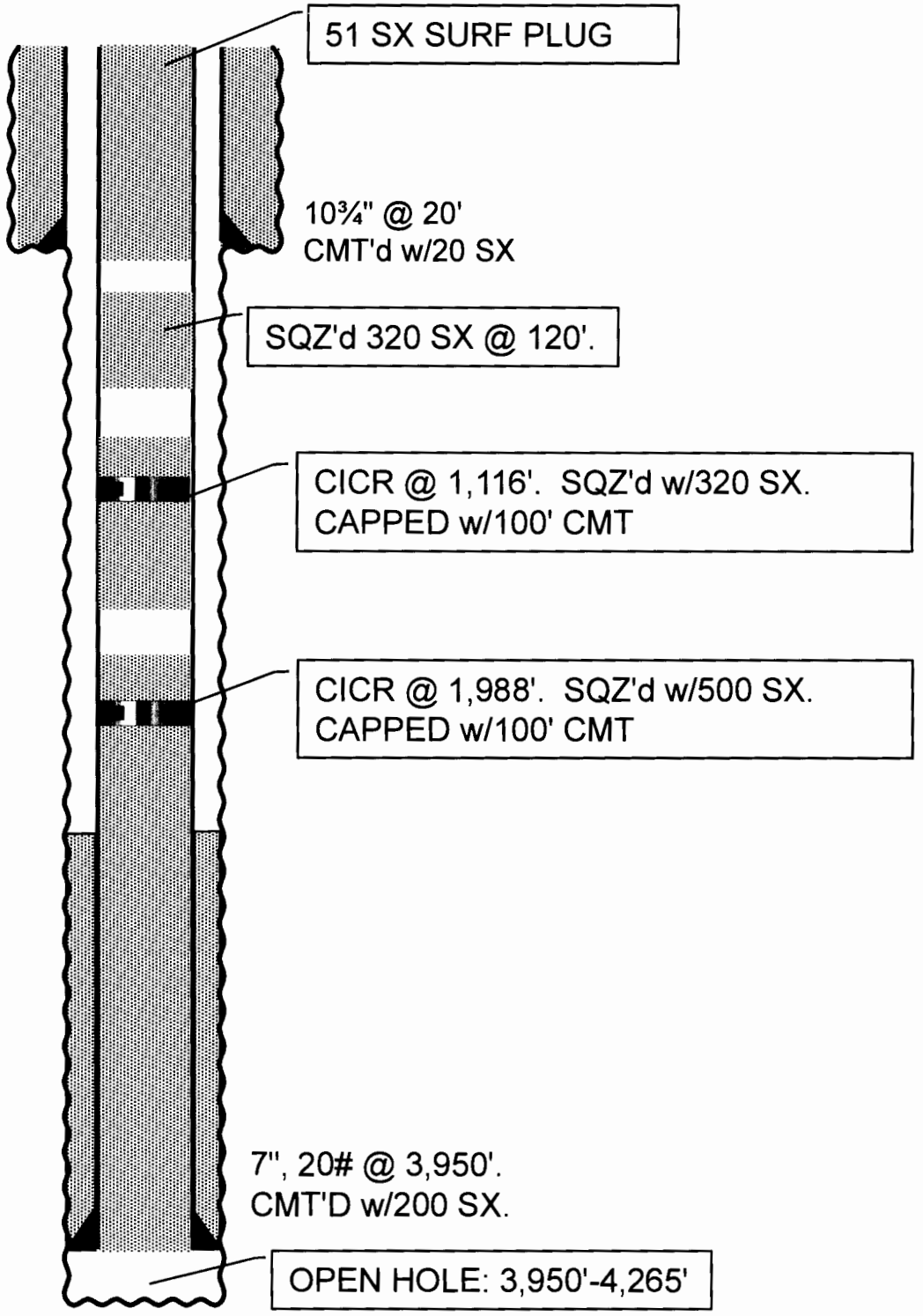
Interval	Date	Type	Gals	Lbs. Sand	Max Press	ISIP	Max Rate	Down
4150-4250	9/9/43	Nitro	200 Quarts					
4250-4287	9/9/43	Nitro	140 Quarts					
	5/1/63	Effective w/unitization renumbered MCA No. 135.						
	5/28/64			13,700	6400			
4020-4190	6/2/64	Crude	7,500	1500# beads				
				5500# sand	4800	2500	15.0	
		Hole in csg 2' below wellhead; repair						
	5/30/67	convert to water injection @ 200 BWPD						
	9/9/67	holes in 7" csg 706' and 737' from surface and 61' and 92' from surface						
	9/23/67	Free point 7" csg stuck @ 354', free @ 340'						
	9/26/67	4-1/2" 9.5# J-55 @ 4,111' cmt'd w/35 sx; TOC 3500'						
	7/14/86	SI due to high surface injection pressure						
	12/5/86	placed back on injection						
	5/23/91	CO to 4255', Otis Interlock packer @ 3880'; test OK.						
	8/12/91	Ran tracer and temperature survey. Losses 4,114 - 4,185', no indication of channel or packer leak.						
	12/1/92	Flowline leaks - shut-in						
	1/12/94	Returned to injection						
	8/1/98	Status change inactive						
		BLM Sundry Notice expires 11/4/04.						
	8/1/04	Prepare Application for Abandonment of Well.						

ACTUAL PLUGS

TRIPLE N SERVICES INC. MIDLAND, TX

1) 25 sx C cmt on CICR 3,881 - 3,518'
2) 45 sx C cmt 2,270 - 2,125', perf/sqz, TAGGED
3) 45 sx C cmt 1,440 - 1,335', perf/sqz, TAGGED
4) 45 sx C cmt 400 - 250', perf/sqz, TAGGED
5) 70 sx C cmt 250 - 130', perf/sqz, TAGGED
6) 30 sx C cmt 70' to surface, perf/sqz

MCA UNIT #199
1,980' FSL, 1,980' FWL
UNIT K, SEC 30 T17S R33E
LEA CO., NM
API #30-025-01563
P & A'd



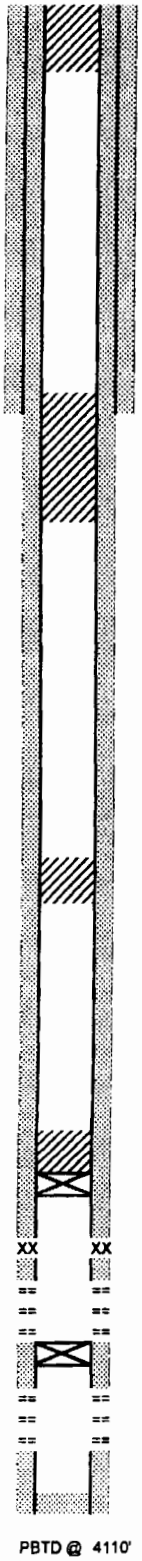
TD:4,265'

PLUGGED WELLBORE SKETCH

ConocoPhillips Company -- Permian Basin Business Unit

Date: January 15, 2007

RKB @ 4064'
DF @ 4063'
GL @ 4050.4'



25 sx C cmt 100' to surface, circulated

17-1/2" Hole

13-3/8" 61# @ 1,210' w/ 750 sx, circ 320 sx

Top Salt @ 1,300' estimated

55 sx C cmt 1,555 - 1,140', TAGGED

Base Salt @ 2,600' estimated
25 sx C cmt 2,603 - 2,349' TAGGED

25 sx C cmt 4,127 - 3,837' TAGGED

5-1/2" RBP @ 4110'

Grayburg 5th Zone
4081 4083 4085 4087 – **Sqz'd w/150 sx**
Grayburg 6th
4172-4174 4178-4180
4199-4201 4203-4218
4222-4240 4244-4256
CIBP @ 4280'
San Andres 7th
4302-4308 - 14 holes
4315-4324 - 20 holes
4328-4332 - 10 holes

7-7/8" Hole
5-1/2" 17# K-55 @ 4400'
Cmt'd w/2500 sx Cl C & H, circ 335 sx
TOC @ Surface

PBTD @ 4110'
TD @ 4400'

Subarea : Hobbs
Lease & Well No. : MCA Unit No. 381
Legal Description : 2515' FSL & 1720' FWL, Sec. 30, T-17-S, R-33-E
County : Lea State : New Mexico
Field : Maljamar (Grayburg-San Andres)
Date Spudded : May 30, 1988 Rig Released: June 8, 1988
API Number : 30-025-30348
Status: PLUGGED 01/03/07 Lease Serial No. LC-058697-B
Agreement No. 8920003410

Stimulation History:

Interval	Date	Type	Gals	Lbs. Sand	Max Press	ISIP	Max Rate	Down
	6/30/88	Perforate 4302-4332' (select fire)						
	7/6/88	**Set 5-1/2" CIBP @ 4280'**						
	7/8/88	Perforate 4081-4256 (select fire)						
	7/7/88	Squeeze 40801-4087 w/150 sx cmt						
4172-4256	7/14/88	15% NEFE HCl	59 Bbls	46 BS	2450	1586		
	8/9/88	Set 5-1/2" Lok-Set RBP @ 4110'						
	3/27/90	Set packer @ 4104', press 500 psi for 30 min, OK.						

TRIPLE N SERVICES INC. MIDLAND, TX

PLUGS SET 12/29/06 thru 01/03/07

1) 25 sx C cmt 4,127 - 3,837' TAGGED
2) 25 sx C cmt 2,603 - 2,349' TAGGED
3) 55 sx C cmt 1,555 - 1,140', TAGGED
4) 25 sx C cmt 100' to surface, circulated

Capacities

5½" 17# csg:	7.663	ft/ft3	0.1305	ft3/ft
7-7/8"openhole:	2.9565	ft/ft3	0.3382	ft3/ft
8⅝" 20# csg:	2.733	ft/ft3	0.3659	ft3/ft
8⅝" 24# csg:	2.797	ft/ft3	0.3575	ft3/ft
13⅜" 61# csg:	1.711	ft/ft3	0.8542	ft3/ft

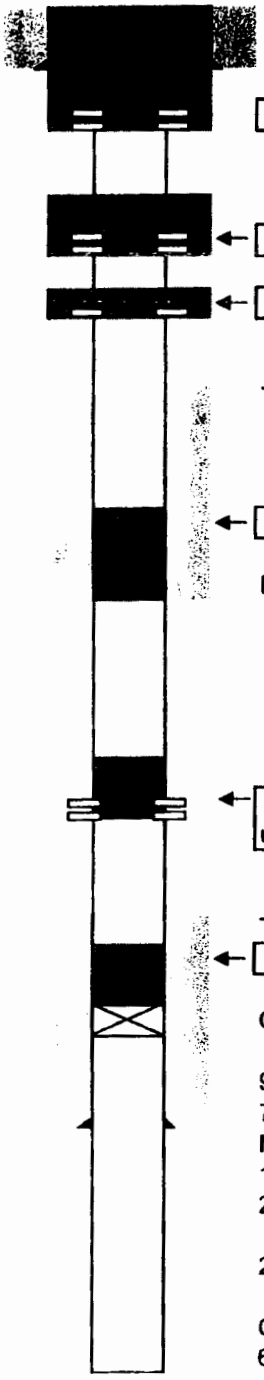
NOTE: Hit water flow at 4157' while drilling.

Formation Tops:

Rustler	1290'
Top Salt	
Tansill	2490'
Yates	2653'
Seven Rivers	3076'
Queen	3540'
Grayburg	3720'
Grayburg 6th	4167'
San Andres	4306'

ConocoPhillips - Permian Basin
February 4, 2004
Plugged Wellbore Diagram

TRIPLE N SERVICES INC. MIDLAND, TX



10", 32# csg @ 20' w/ 15 sx

65 sx C cmt sqzd 60' to surface

60 sx C cmt sqzd 400 - 270' TAG

60 sx C cmt sqzd @ 900-775' TAG

TOC unknown.

25 sx C cmt plug @ 1,372 - 1,230'

Multi-stage tool at 1372'.

45 sx C cmt 2,670-2,430' **TAGGED** unable to pump into perfs @ 1,500#

TOC unknown.

25 sx C cmt plug @ 3,870 - 3,728'

CIBP @ 3870'

9 7/8" hole.
7", 17# casing set at 3986'.
Multi-stage tool at 1372'.
1st stage: Cmtd w/ 100 sx.
2nd stage: Cmtd w/ 100 sx.

25 sk cmt plug from 4380-4420'.

Open hole:
6 1/2" 3986-4857'

PBTD: 4380'
TD: 4857'

Lease & Well No.: **Pearl B #3** (Originally Miller B #20)

Well Category: One — Status: TA'd
Area: New Mexico
Subarea: Maljamar — Field: Maljamar G-SA
API Number: 30-025-08338
Legal Description: 685' FSL & 2050' FWL
Sec. 30, T-17-S, R-33-E
Lea County, New Mexico
Spudded: 07/17/1947
Completed: 10/29/1947

Well History:

9/47 Drilled OH 3986-4857' w/ cable tool. Encountered water flow at 4265-4300'. TD reached on 10/29/47.

11/47 Lost drilling tools in hole. Unable to recover tools. Plugged back w/ plastic plug at 4260-4300' to shut off water flow.

8/48 Temporarily abandoned on 8/4/48.

1/70 Ran 6 1/4" cable tool bit. CO from 4212-4260'. Ran imp block. Block ind it was going down beside fish in hole. Ran 6 1/4" cable tool bit. CO to 4270'. Ran wash pipe & 4 DC's on 2 7/8" tbg. Milled on junk from 4271-81'. Ran junk mill. Tagged junk at 4267'. Milled to 4277'. Fell through at 4277' & washed down to 4304'. Rec wire rope & iron pieces. CO to 4431'. Ran 6 1/4" flat btm mill. Tagged fill at 4420'. CO to 4431'. Ran GR-N log from 4424-3686'. Spotted 25 sk cmt plug from 4420-4370'. Ran Lynes OH pkr. Spotted 175 gal 15% LSTNE HCl from 4355-4250'. Set pkr at 4202'. Frac'd OH 4202-4380' w/ 30,000 gal 40# gelled wtr & 45,000# 20-40 mesh sand in two equal stages using 2000# rock salt. Tagged top of cmt plug at 4380' w/ sinker bar on wireline. IPP 58 bo & 216 bw / 24 hrs on 4/15/70.

8/73 CO to 4380'. Acdzd OH 3986-4380' w/ 1200 gal 28% NE HCl. Ran 7" Baker AD-1 tension pkr on 2 3/8" cement lined tbg. Set pkr at 3508'. SI pending completion of water inj line.

11/73 Placed on water injection on 11/26/73.

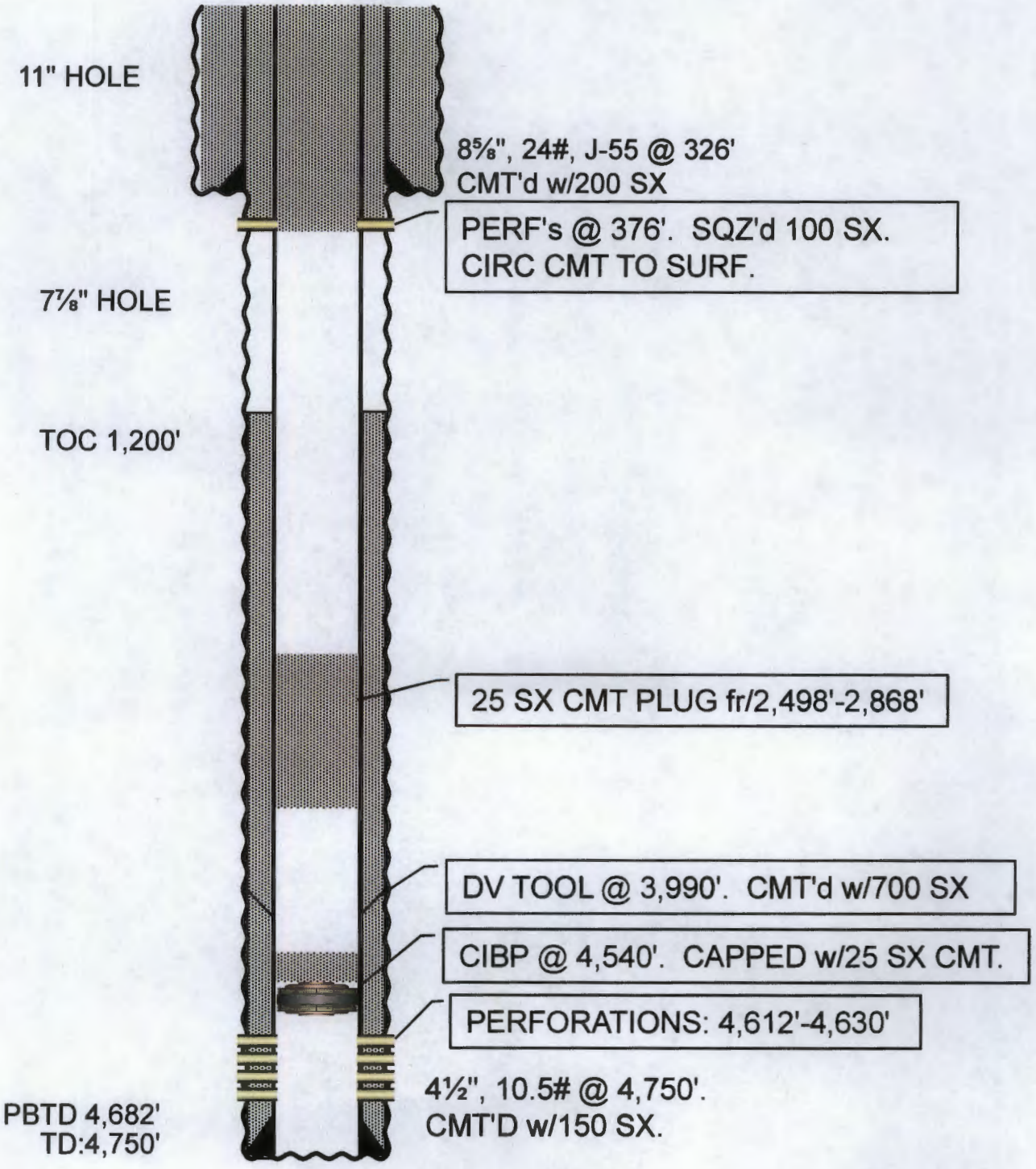
12/89 Set CIBP at 3870'. Circ well w/ 10# brine & pkr fluid. Tested csg to 500 psig for 15 min. Held. TA'd on 12/13/89.

10/95 Performed MIT on 10/25/95. Tested to 550# for 30 min. Held.

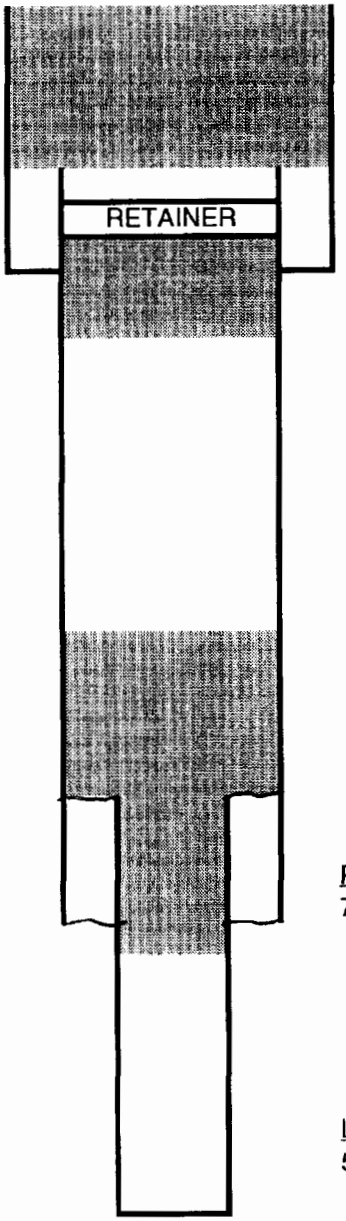
8/97 Performed MIT on 8/27/97. Tested to 600# for 30 min. Held.

8/02 Performed MIT on 8/28/02. Tested to 500# for 30 min. Held.

SEMGSAU #9
2,310' FSL, 940' FWL
UNIT L, SEC 33 T17S R33E
LEA CO., NM
API #30-025-01378
P & A'd



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:

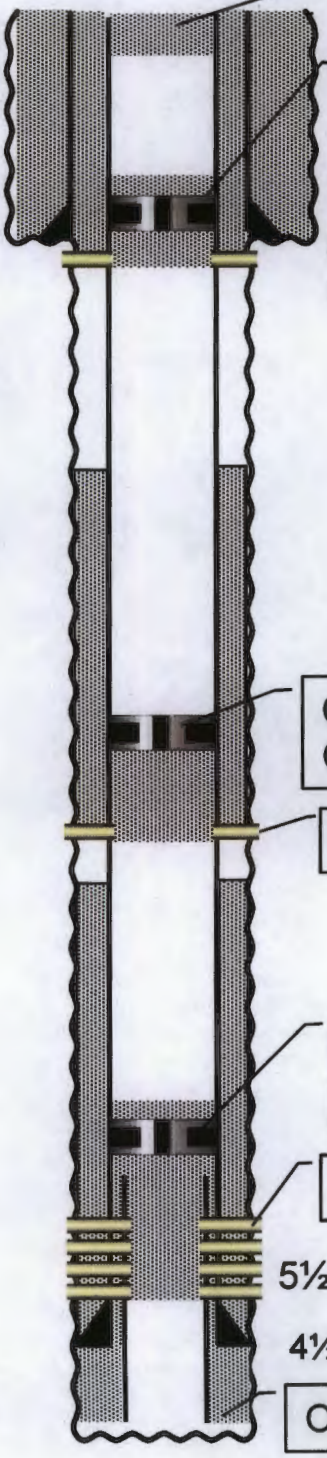
1. CMT PLUG @ 3800
2. 3660 - 3800 W/100 SXS
3. RETAINER @ 1096 W/100 SXS
4. SQZ PERF @ 1185 W/350 SXS
5. CUT CSG @ 872'
6. 0 - 880 W/260 SXS

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

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

TD:4278

SEMGSAU #204
660' FNL, 660' FEL
UNIT A, SEC 30 T17S R33E
LEA CO., NM
API #30-025-01555
P & A'd



21 SX CMT PLUG fr/210'-SURF

11" HOLE

CICR @ 1,127'. CAPPED w/20 SX CMT.
PERF's @ 1,245'. SQZ'd 350 SX.
CIRC CMT TO SURF.

8⅝", 24# @ 1,241'
CMT'd w/50 SX

7⅞" HOLE

TOC 1,200'

CICR @ 2,692'. SQZ'd w/280 SX CMT.
CAPPED w/20 SX CMT.

PERF's @ 2,800'.

CICR @ 3,845'. SQZ'd w/100 SX CMT.
CAPPED w/15 SX (150') CMT.

PERFORATIONS fr/4,194'-4,252'

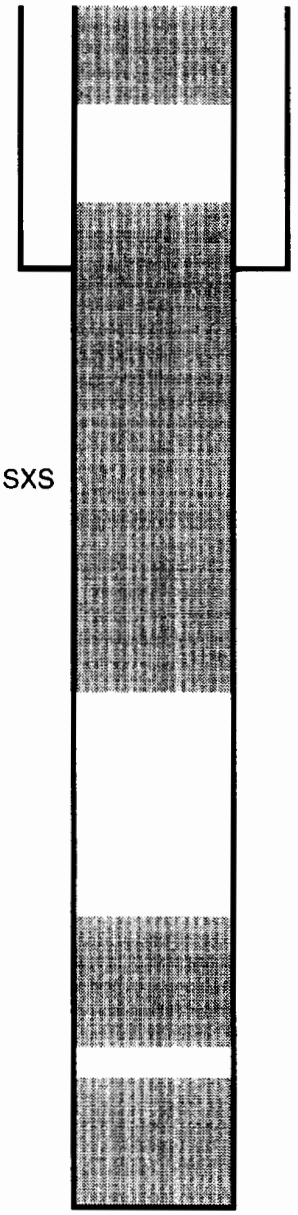
5½", 14# @ 4,039'. CMT'D w/100 SX.

4½", 11.34# LINER 3,945'-4,295'. CMT'd w/63 SX

PBTD 4,682'
TD:4,750'

ORIG OPEN HOLE: 4,039'-4,292'

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

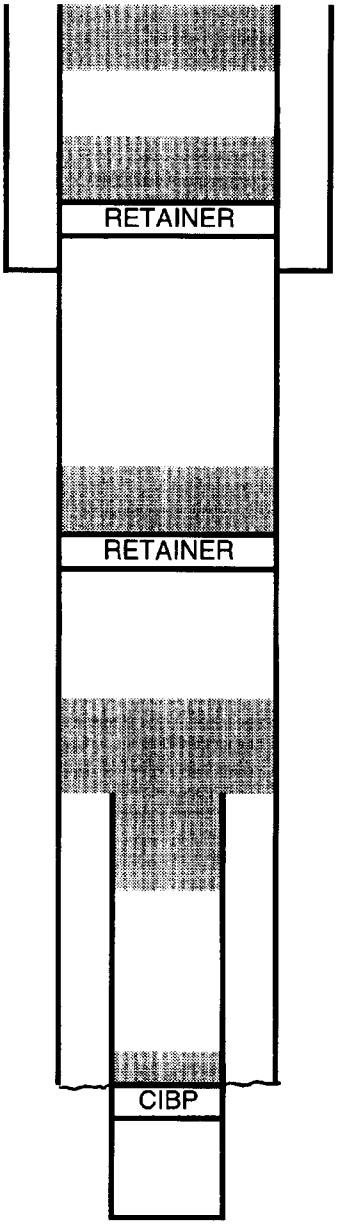
PLUGS SET AS FOLLOWS:

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 #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:

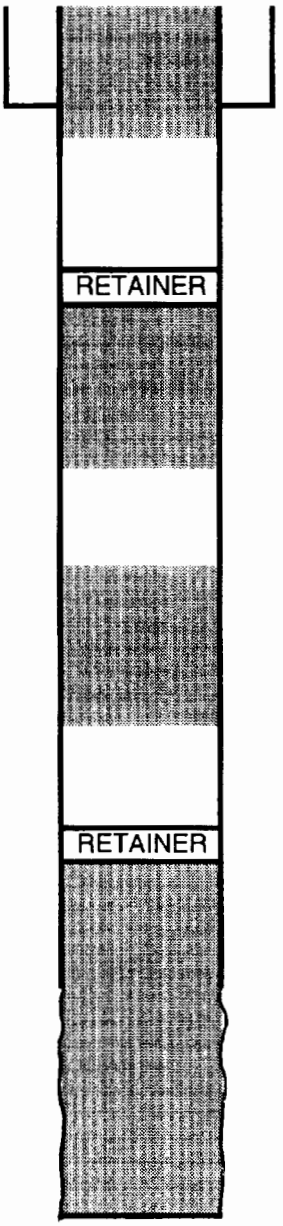
1. CIBP @ 4130 W/10 SXS
2. 3600 - 3900 W/25 SXS
3. SQZ PERF 2900 W/300 SXS
4. RETAINER @ 2863 W/16 SXS
5. RETAINER @ 1189 W/15 SXS
6. 0 - 282 W/ 30 SXS.

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

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

TD:4440

WELL: SEMGSAU #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

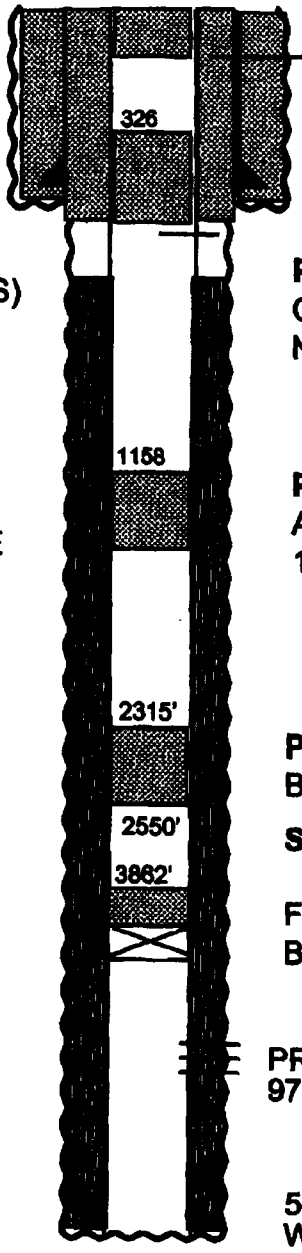
PLUGS SET AS FOLLOWS:

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

SOUTHEAST MALJAMAR GRAYBURG SAN ANDRES UNIT #713
P & A



PERF @50', CIRC TO SURF 50 SXS CL C

8-5/8" 24# J-55 CSG @ 388'. CMT'D W/250SX CL "C". CIRC TO SURF.

PERFD 4 JSPF @438': PMP 135 SX. COULD NOT EST CIRC, CALLED NMOCD, SQZ 50 SXS CMT PLUG

POH TO 1300': 25 SX ACROSS TOP SALT @ 1300'.

PUMPED 25 SX ACROSS BASE OF SALT @ 2550'.

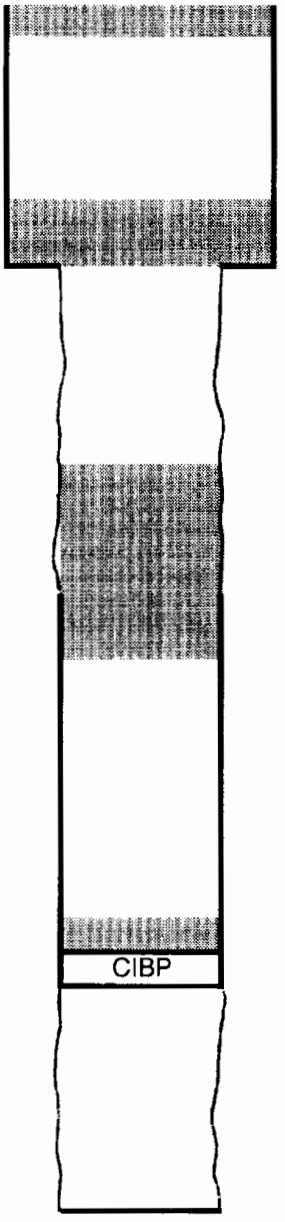
SET CIBP @ 4100' W/25 SX TOP.

FISH 4.5 JTS 2-3/8" TBG, SN, PS, BPMAJ. TOF @ 4113'.

PREMIER : 4264', 65', 66', 67', 90', 95', 97', 99', 4306', 10' & 11' (11 HOLES).

5-1/2" 15.5# J-55 LTC CSG @ 4389'. CMT'D W/850SX. TOC @ 710'.

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:

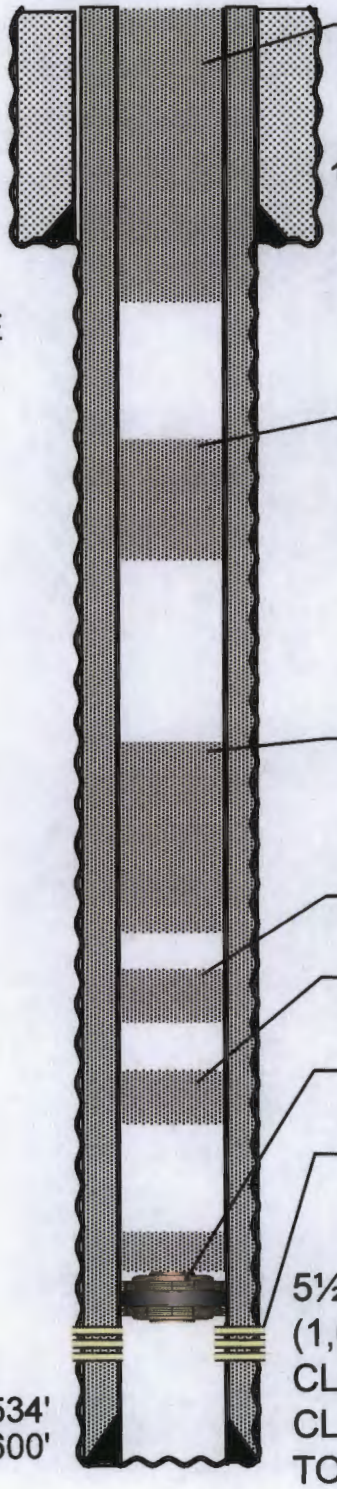
1. SET CIBP @ 3891 W/7 SXS
   3846 - 3891
2. PULLED 2215' OF 7"
3. 2165 - 2265 W/45 SXS
4. 1250 - 1350 W/45 SXS
5. 0 - 30 W/15 SXS

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

TD:4312

SEMGSAU #907
2,310' FNL, 990' FEL
UNIT H, SEC 32 T17S R33E
LEA CO., NM
API #30-025-31445
P & A'd

ELEV: KB 4,051'
GL 4,038'
CORR 13'



60 SX CMT PLUG SURF-504'

12¼" HOLE

8⅝", 24.55#, H-42, STC CSG @ 338'.
CMT'd w/200 SX CL "C" CMT w/2% $CaCl_2$.
CIRC 5 SX CMT TO SURF

7⅞" HOLE

25 SX CMT PLUG 1,250'-1,500'

65 SX CMT PLUG 2,230'-2,690'

25 SX CMT PLUG 2,832'-3,085'

40 SX CMT PLUG 3,500'-3,825'

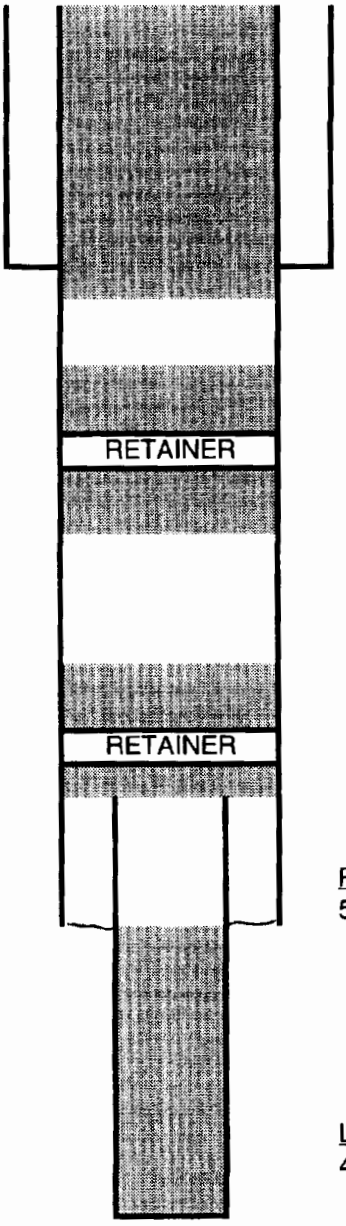
CIBP @ 4,240'. CAPPED w/25 SX CMT.

4,316'-19', 4,334'-76' & 4,449'-57', 1 JSPF, 56 HOLES (12/10/91)

5½", 15.5#, K-55, LTC (SURF-1,070') & 17#, K-55, LTC (1,088'-4,601') @ 4,601' (TALLY). CMT'D w/1,200 SX CLASS "C" CMT w/8% GEL & 5#/SX SALT & 250 SX CL "C" w/3#/SX SD & 5#/SX SALT. CIRC 250 SX CMT TO SURF.

PBTD:4,534'
TD:4,600'

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:

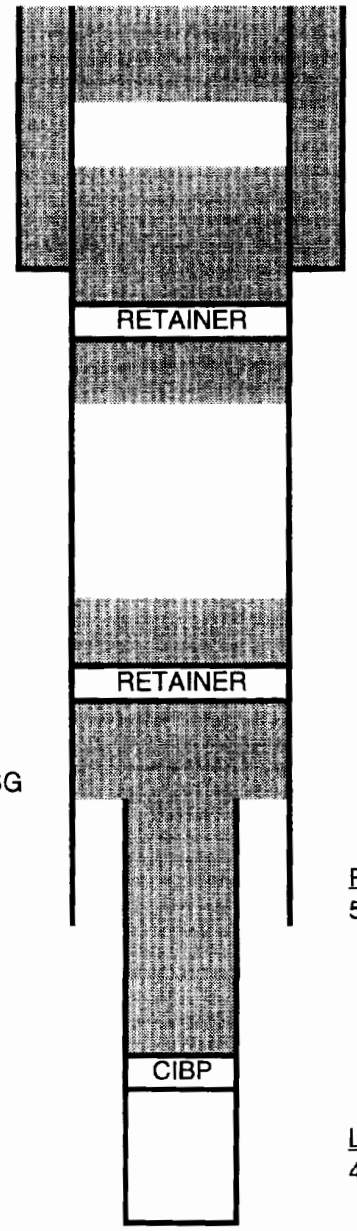
1. RETAINER @ 3708 W/26 SXS
   SQZ PERFS W/300 SXS.
2. SQZ PERF @ 2700 W/300 SXS
   RETAINER @ 2593 W/20 SXS
3. 0 - 1303 W/135 SXS

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

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

TD:4281

WELL: SEMGSAU #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:

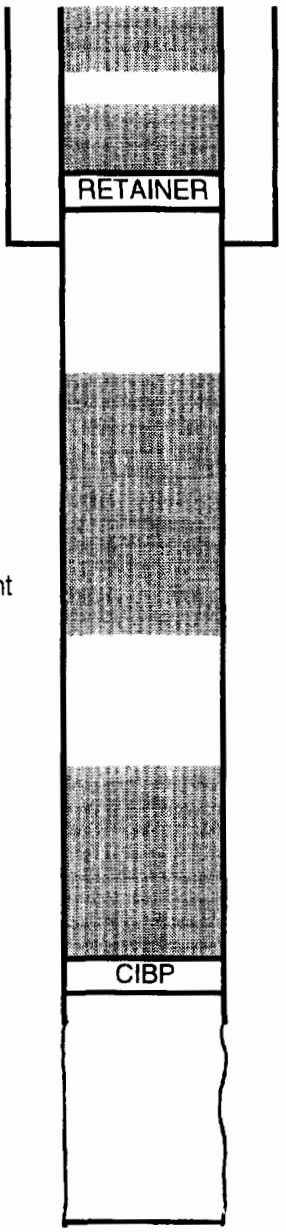
1. CIBP @ 4125 W/25 SXS
   3635 - 4125
2. RETAINER @ 3605 W/25 SXS
   3421 - 3605
3. RETAINER @ 1308
4. SQZ CSG LEAK 1393 - 1422
   W/450 SXS
5. SQZ SURF CSG @ 1235 - 1237
   W/150 SXS
6. PMP 250 SXS DOWN SURF CSG
   @ SURF.
7. 0 - 313 W/ 37 SXS

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 AKA #14 WI
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

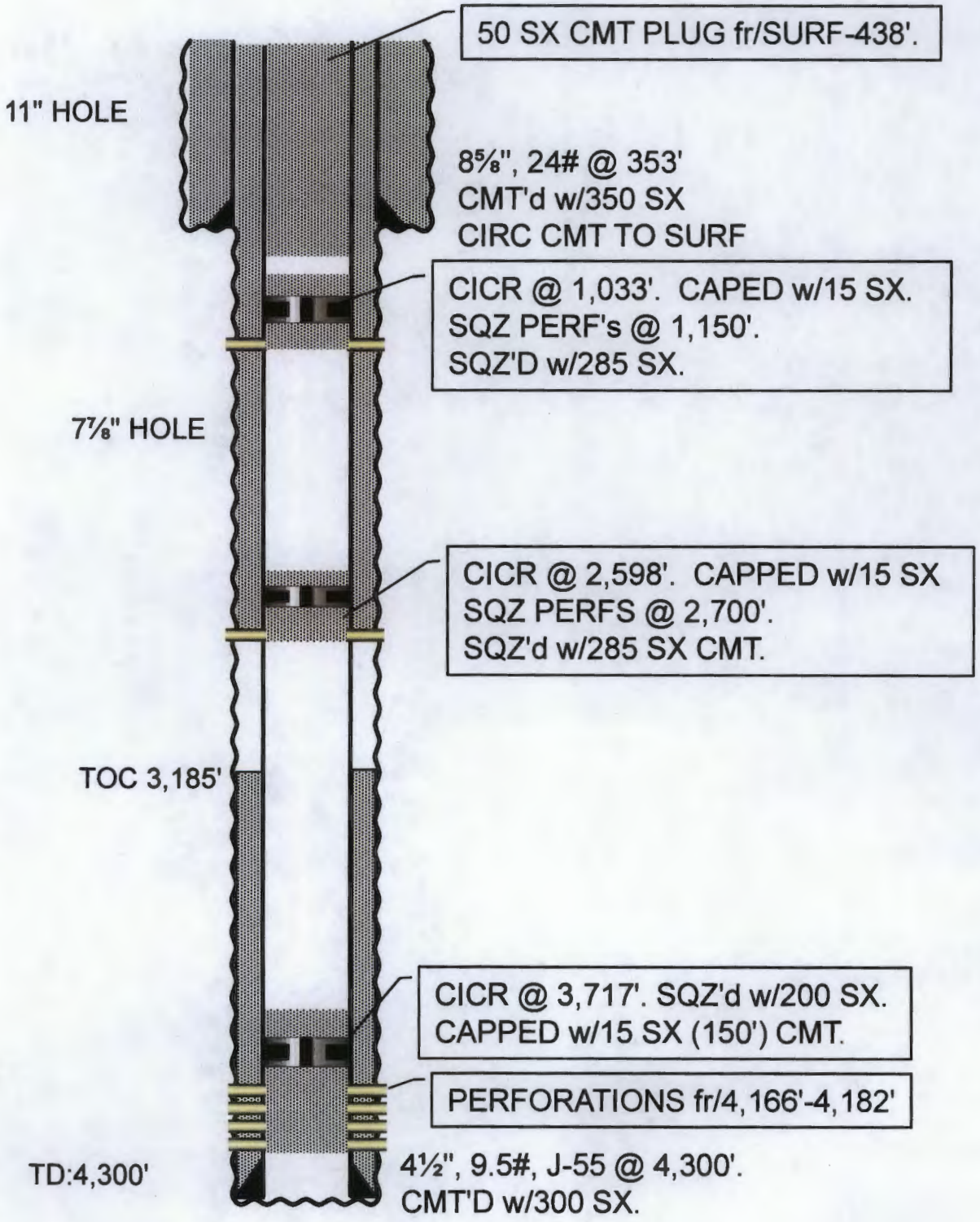
PLUGS SET AS FOLLOWS:

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

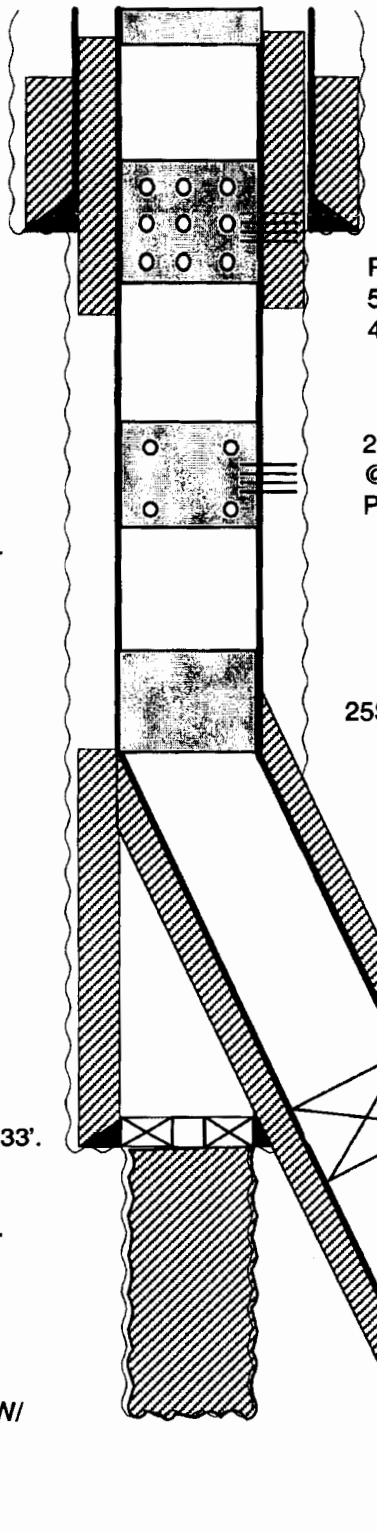
TD:4298

SEMGSAU #205
500' FNL, 1,980' FEL
UNIT B, SEC 30 T17S R33E
LEA CO., NM
API #30-025-22093
P & A'd



WELL: SEMGSAU #301
FIELD: MALJAMAR GRAYBURG SAN ANDRES
LOCATION: 1980' FNL, 660' FEL, UNIT H, SEC 30, T-17S, R-33E

ELEV: 4071'



10SX PLUG FR/0'-50'

8-5/8" 32# @ 1160'. CMT'D W/100SX.

35SX PLUG FR/1010'-1210'

PERF 1162' & SQZ W/800SX. RE-SQZD W/ 500SX. RE-SQZD W/500SX. RESQZD W/ 450SX. PUT 414SX INTO FMT.

25SX PLUG FR/2637'-2850'. 4 SQZ HOLES @ 2800'. COULDN'T PMP INTO @ 1800 PSIG.

LINER TOP @ 3567'.

25SX PLUG FR/3500'-3617'

CIBP @ 4015'

RETAINER @ 3833'.

7" 20# @ 3915'. CMT'D W/150SX.

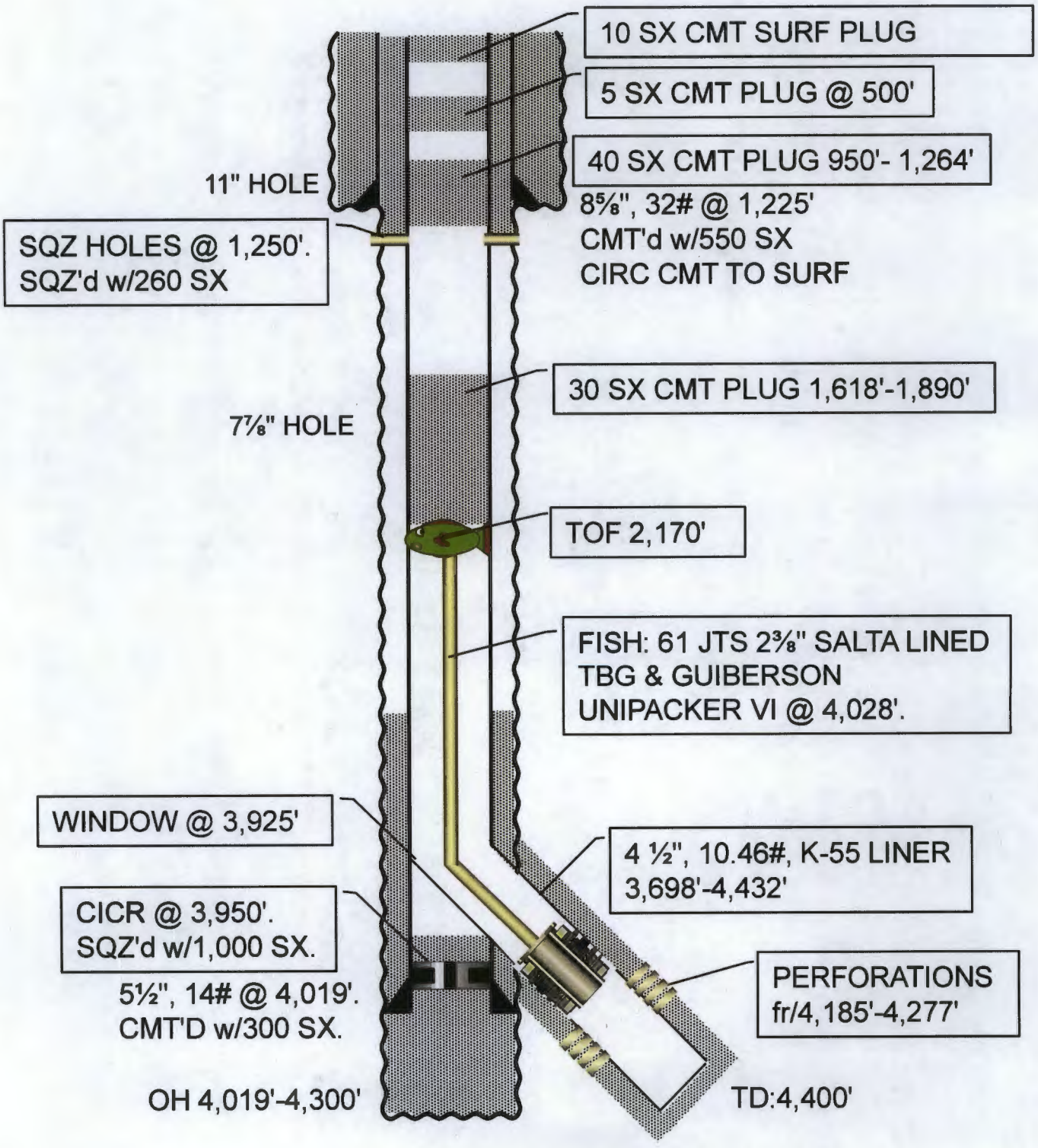
4114'-4192' (PREMIER)

5", 15#, N-80 LTC LINER FR/ 3567'-4359'.

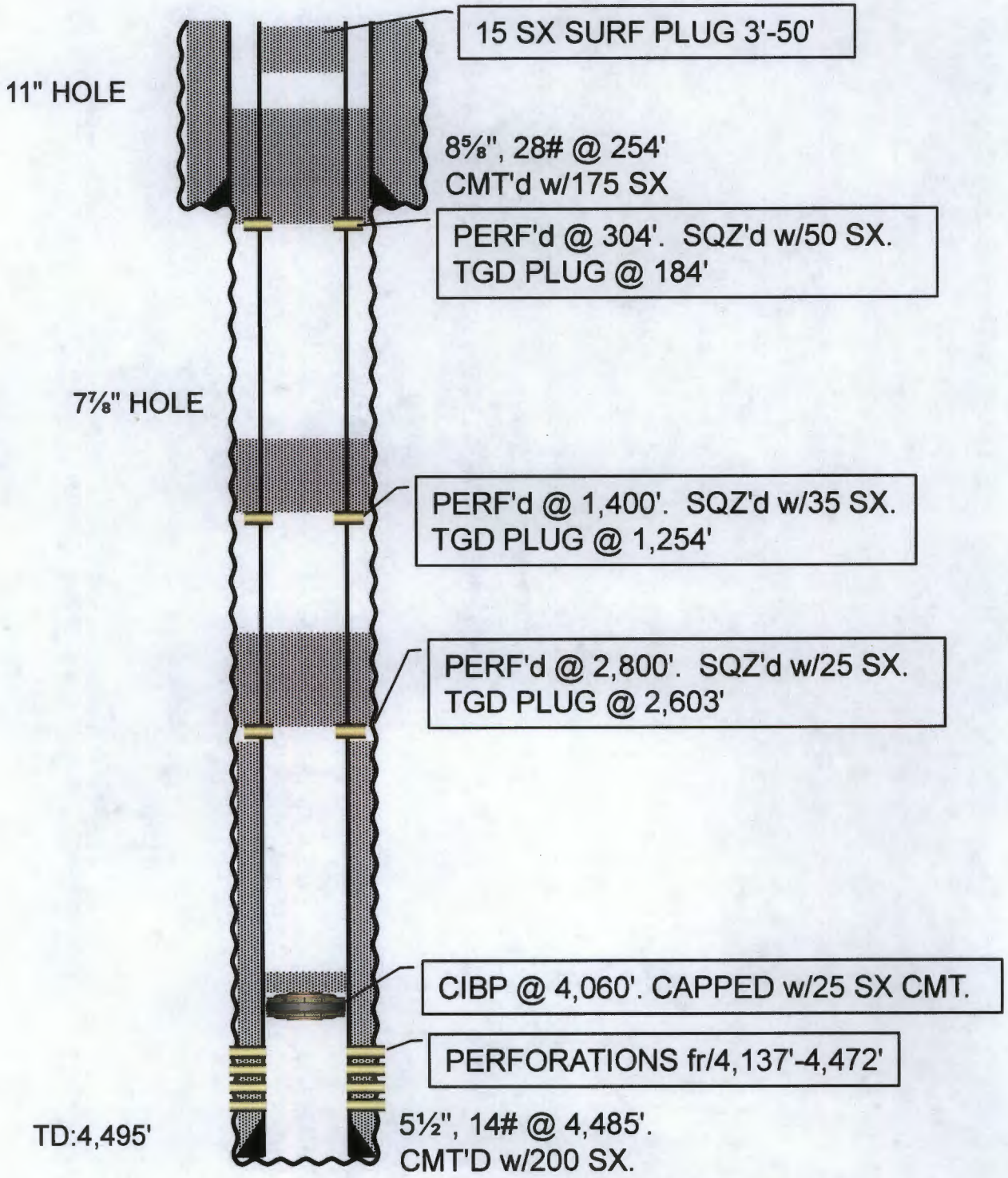
TD 4285' SHOT W/ 160 QTS NITRO.

PBTD: 4310'
TD: 4360'

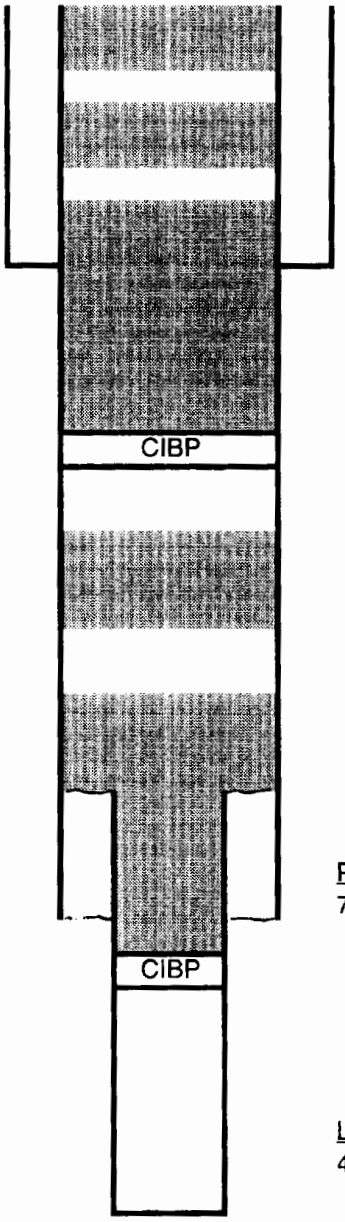
SEMGSAU #403
1,980' FNL, 1,980' FWL
UNIT F, SEC 29 T17S R33E
LEA CO., NM
API #30-025-05145
P & A'd



SEMGSAU #505
2,310' FNL, 990' FEL
UNIT H, SEC 29 T17S R33E
LEA CO., NM
API #30-025-01553
P & A'd



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:

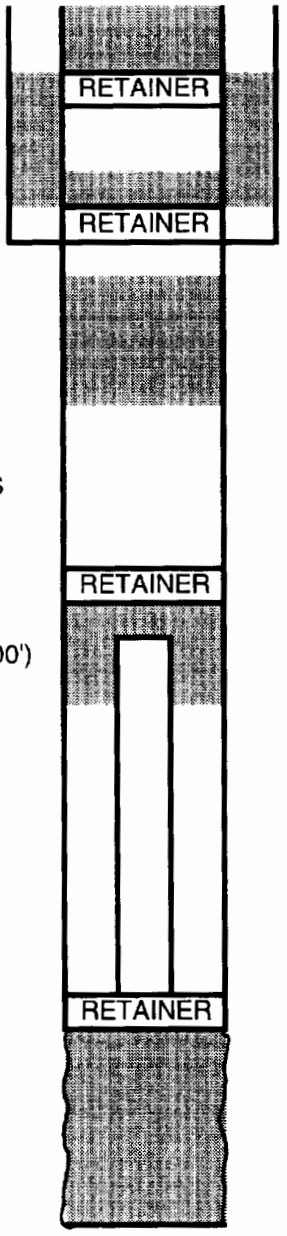
1. CIBP @ 4019
2. 3705 - 4019 W/30 SXS
3. 2420 - 3104 W/100 SXS
4. CIBP @ 2204
5. 897 - 2204 W/220 SXS
6. 657 - 806 W/25 SXS
7. 0 - 122 W/25 SXS

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

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

TD:4253

WELL: SEMGSAU #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

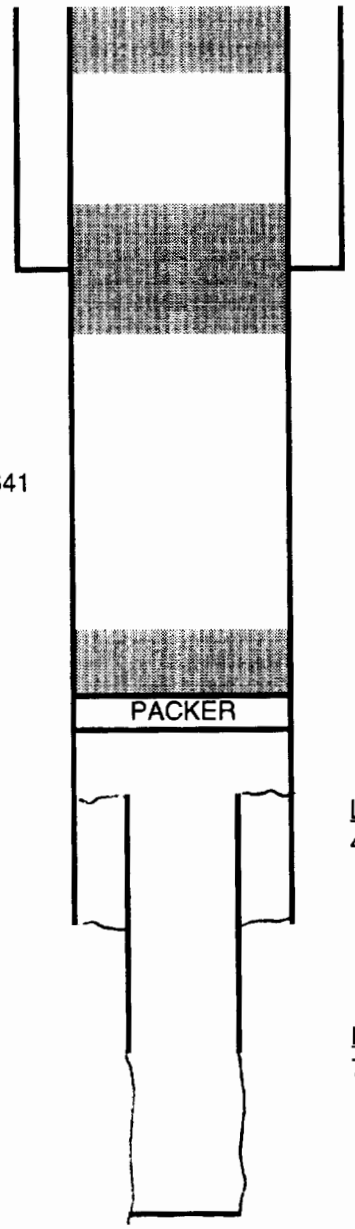
PLUGS SET AS FOLLOWS:

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 #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:

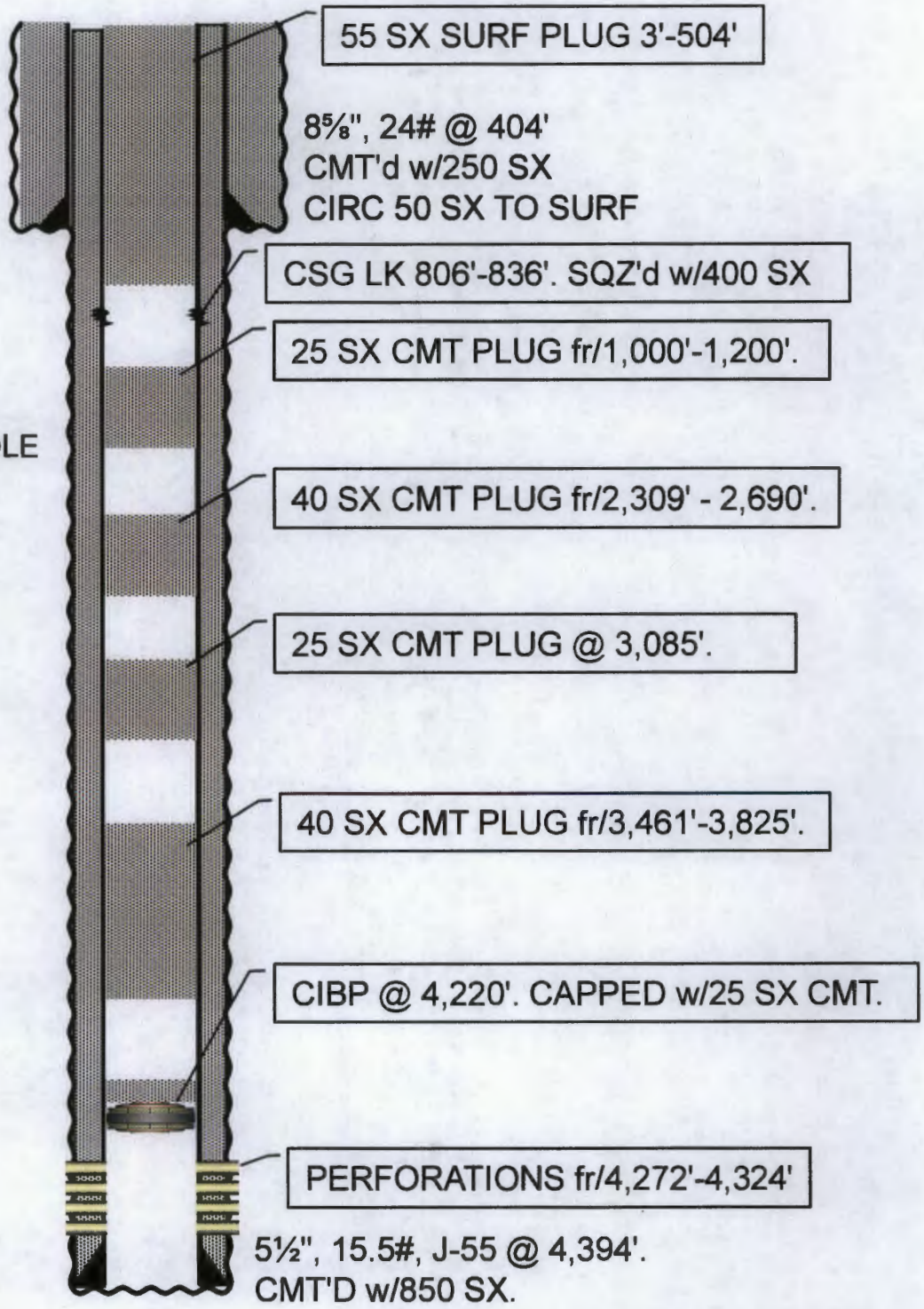
1. SPOTTED 25 SX ON PKR @ 3641
2. SPOTTED 25 SX @ 1300
3. SPOTTED 10 SX @ SURF

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

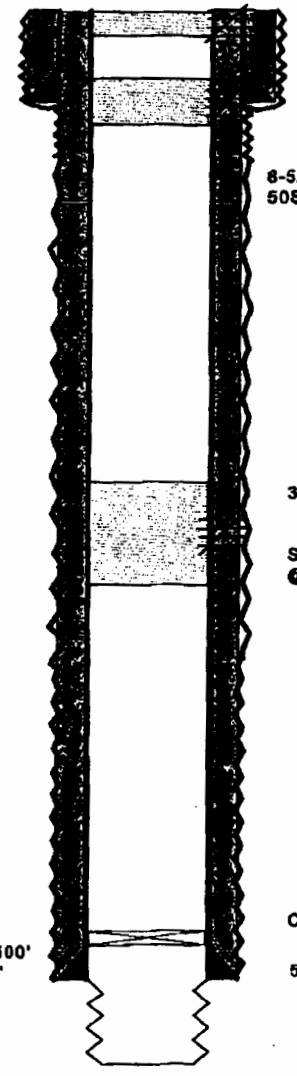
PRODUCTION CASING:
7" @ 3950', CMT W/75 SX

TD:4300

SEMGSAU #710
1,165' FSL, 2,010' FEL
UNIT O, SEC 29 T17S R33E
LEA CO., NM
API #30-025-33338
P & A'd



SEMGSAU #902 WIW
WELLBORE DIAGRAM



ELEV: KB: 4076': (EST)
GL: 4066'
CORR: 10' (EST)

SQZ'D HOLES @ 60'. CIRC CMT TO SURF & FILLED CSG W/CMT.

CSG LK FR/0'-1040'.
SQZ'D HOLES @ 1200'. SQZ'D W/50SX.
TAGGED @ 1060'.

8-5/8" 24# J-55 CSG @ 1257'. CMT'D W/ 50SX CMT.

30SX CMT FR/2650'-2850'.

SQZ'D HOLES @ 2800'. UNABLE TO EIR @ 1800 PSIG. 25SX CMT FR/3675'-3920'.

CIBP @ 3920'.

PBTD @ 4500'
TD @ 4500'

5-1/2" 14# J-55 CSG @ 4060'. CMT'D W/100SX.

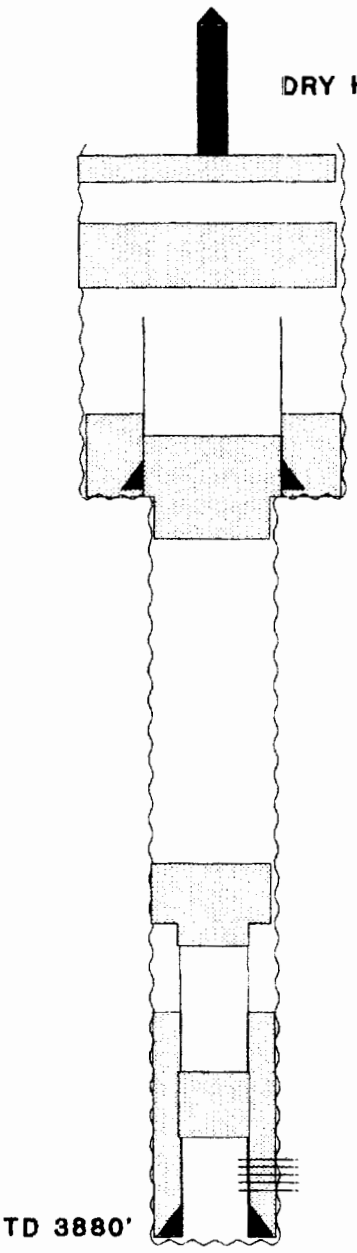
DATA

LOCATION: 3300' FNL & 990' FEL, SEC 32, T-17-S, R-33-E
COUNTY/STATE: LEA COUNTY, NEW MEXICO
FIELD: MALJAMAR (GRAYBURG/SAN ANDRES) 30-025-01353
FORMATION: GRAYBURG/SAN ANDRES
SPUD DATE: 2/13/51 **COMPLETION DATE:** 5/10/51 WFX-614
IP:
NMOCD LEASE #: 003355 **API #:** 30-025- **CTOC WELL #:** 450
PRODUCTION METHOD: PA'D

HISTORY

02/13/51: SPUDDED WELL.
05/10/51: COMPLETED WELL. SHOT 4289'-4313' W/85 QTS NITRO. IPP. 50 BOPD.
08/26/77: SET CIBP @ 4005' & DMP 4SX CMT.
08/27/77: RAN RODS, PMP & TBG BACK IN WELL. TA.
03/00/91: RE-ENTERED. TST CSG TO 500 PSIG. HELD OK. DO CIBP. WASH TO 4313' (OTD). DRL NEW 4-3/4" HOLE TO 4500'. SWAB 10 BWPH. NO SHOWS. TA W/1 JT TBG IN WELLHEAD.
11/20/91: CONVERT TO WIW.
08/21/92: RAN FALLOFF TEST.
09/09/94: RAN STEP RATE TEST. (TIGHT SPOTS @ 2703' & 3544').
10/05/94: NMOCD INCR MAX PRES TO 1825 PSIG.
06/21/96: A. W/1000 GALS 15% PENTOL – 150 @ 2.2 BPM & 2600 PSIG. ISIP 2010 PSIG. 15" SIP 1260 PSIG. BEFORE: INJ 220 BWPD @ 1350 PSIG. AFTER: INJ 285 BWPD @ 1300 PSIG.
10/10/96: TP 1200 PSIG. EIR INTO TCA @ 1.0 BPM & 300 PSIG. NMOCD WITNESSED. RWTI.
11/22/96: SWI PER NMOCD.
09/06/01: SITP 450 PSIG. SICP 0 PSIG. DN. FLWG .75 BPM.
09/06/01: POH W/INJ EQUIP. SET CIBP @ 3920'. PPD 25SX CMT FR/3675'-3920'. CSG LKS ISOLATED FR/0'-1040'. CSG TSTD FR/1040'-3673'. PERF'D SQZ HOLES @ 2800'. UNABLE TO EIR @ 1800 PSIG. PPD 30SX CMT FR/2650'-2850'.
09/07/01: TAGGED @ 2650'. PERF'D & SQZ'D HOLES @ 1200'. SQZ'D 50SX INTO SQZ HOLES. TAGGED @ 1060', PERF'D SQZ HOLES @ 60'. CIRC 35SX CMT FR/60' TO SURF. FILLED CSG W/CMT TO SURF.
09/11/01: CUT OFF WH & WELDED CAP 3' BELOW GL. INST P & A MARKER. BF PIT & CLEARED LOC. WELL IS PA'D.

H.R. DENIUS
COCKBURN FEDERAL #5
(P&A 6/16/61)



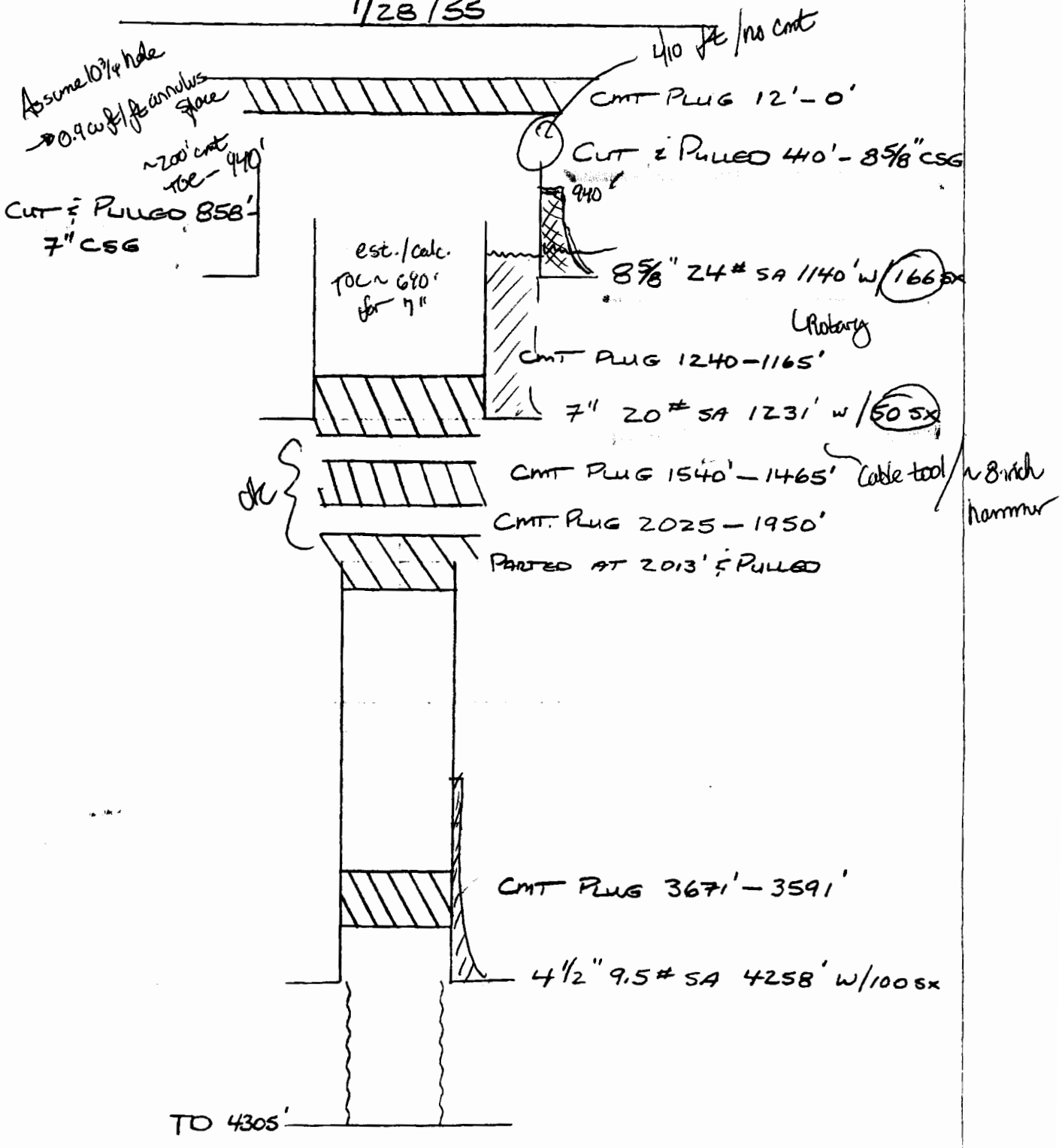
2310' FSL, 330' FWL, SEC 33, T17S, R33E, NMPM

30-025-01368

DENIUS WYATT PHILLIPS FED #5.

33"C"-175-33E

1/28/55



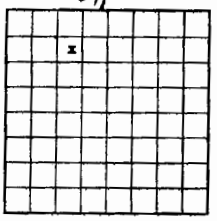
P&A 11/24/59

H 7/5/94

Form 9-330 Copy Lbt=F

Budget Bureau No. 42-R358.2.
Approval expires 12-31-60.

U. S. Land Office Las Cruces
Serial No. 060967
Lease or Permit to Prospect



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company HARVEY COUSINS, Address P.O.Box 105, Artesia, New Mexico
Lessor or Tract Wyatt-Phillips Field Maljamar State New Mexico
Well No. 5 Sec. 33 T. 17 R. 33E Meridian NMPM County Lea
Location 990 ft. {N./S.} of S Line and 1651 ft. {E./W.} of W Line of Sec. 33-17-33 Elevation
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date February 17, 1955 Title Agent

The summary on this page is for the condition of the well at above date.

Commenced drilling May 20, 1953, 19 Finished drilling January 26, 1955, 19

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4266 to 4298 No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from to No. 3, from to
No. 2, from to No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
8 5/8"	24			1140	Baker				
7"	20			1231	Baker				
4½"	9.5			4258	Baker				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	1140	66	Halliburton		
7"	1231	50	Denton		
4½"	4258	100	Denton		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Well was given Halliburton Hydrafrac process, using 7500 gallons gas oil and 10,000 pounds sand.						

TOOLS USED

Rotary tools were used from 0 feet to 1220 feet, and from feet to feet
Cable tools were used from 1220 feet to 4305 feet, and from feet to feet

DATES

, 19 Put to producing February 1, 19 55

The production for the first 24 hours was 35 barrels of fluid of which % was oil; % emulsion; % water; and % sediment. Gravity, °Bé. 35

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

Leo [illegible], Driller , Driller
F. D. McDaniel, Driller , Driller

FORMATION RECORD

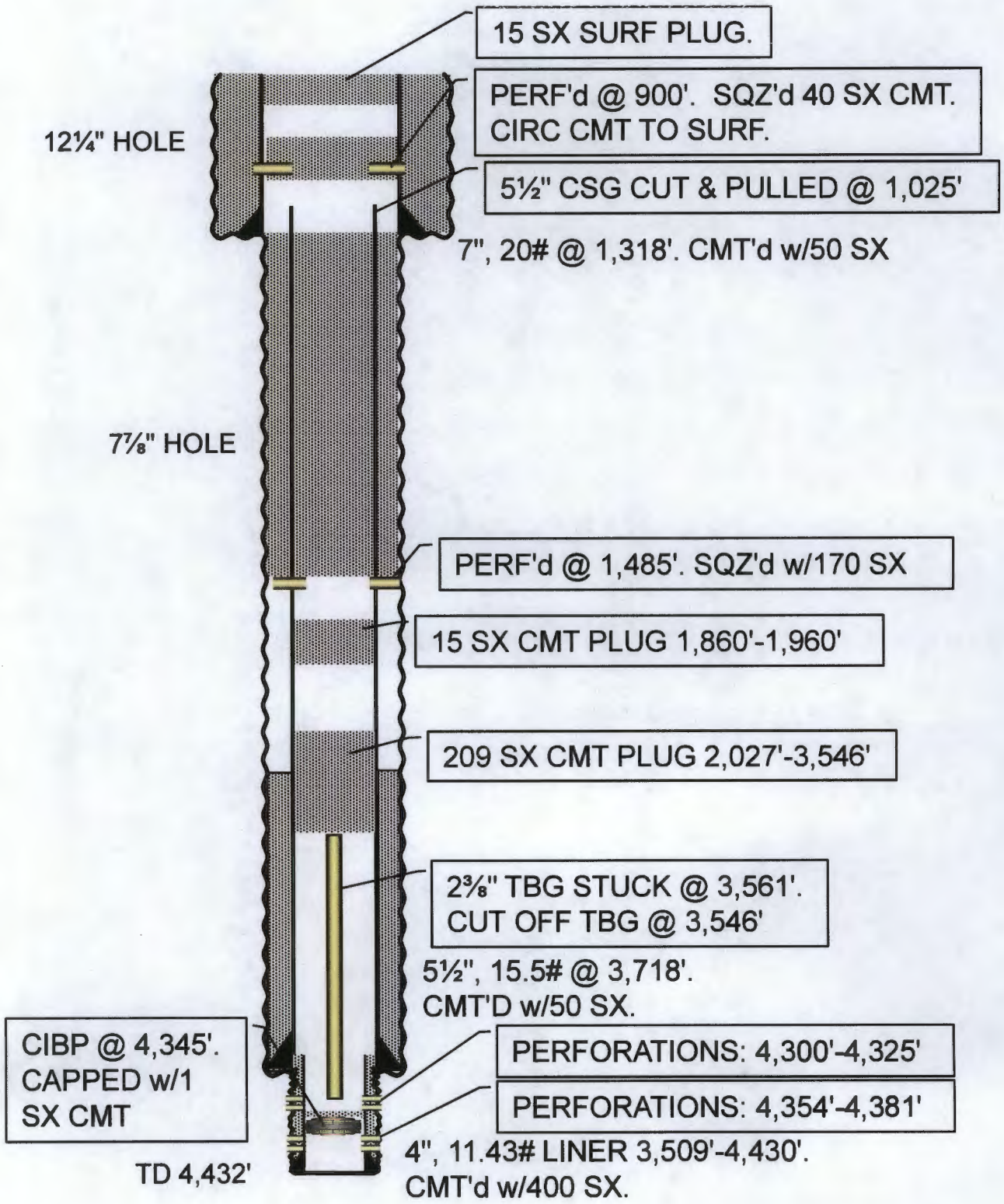
FROM—	TO—	TOTAL FEET	FORMATION
0	116	116	Sand and Shale
116	121	5	Gravel, Water
121	788	667	Red Bed, Shale
788	906	118	Red Bed, Shale, Shell
906	1092	186	Red Bed, Shell
1092	1244	152	Anhydrite
1244	1315	71	Red Bed.
1315	1480	165	Anhydrite,
1480	1540	60	Anhydrite, Red Bed, Salt.
1540	1740	200	Salt
1740	1860	120	Salt, Potash
1860	2005	145	Salt, Red Bed
2005	2360	355	Salt, Potash
2360	2410	50	Salt, Potash, Gysum
2410	2515	105	Salt & Potash
2515	2750	235	Anhydrite
2750	2770	20	Red Shale
2770	2840	70	Anhydrite Broken,
2840	3110	270	Anhydrite
3110	3185	75	Anhydrite, Lime
3185	3595	410	Anhydrite
3595	3630	35	Anhydrite, Lime
3630	3681	51	Anhydrite
3681	3690	9	Red Sand
3690	3695	5	Gray Lime
3695	3700	5	Sand, Lime

(OVER)

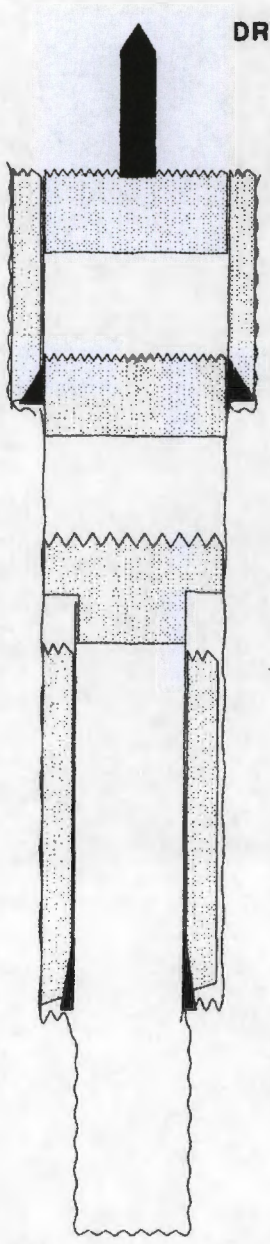
FOLD | MARK

FORMATION RECORD—Continued

WYATT A FEDERAL #3
1,650' FNL, 330' FWL
UNIT A, SEC 33 T17S R33E
LEA CO., NM
API #30-025-01366
P & A'd



JAMES P. DUNIGAN
COCKBURN #1



DRY HOLE MARKER

10 SX • SURF.

30 SX • 308'
13 3/8" • 308' W/ 340 SX.

30 SX • 1400'

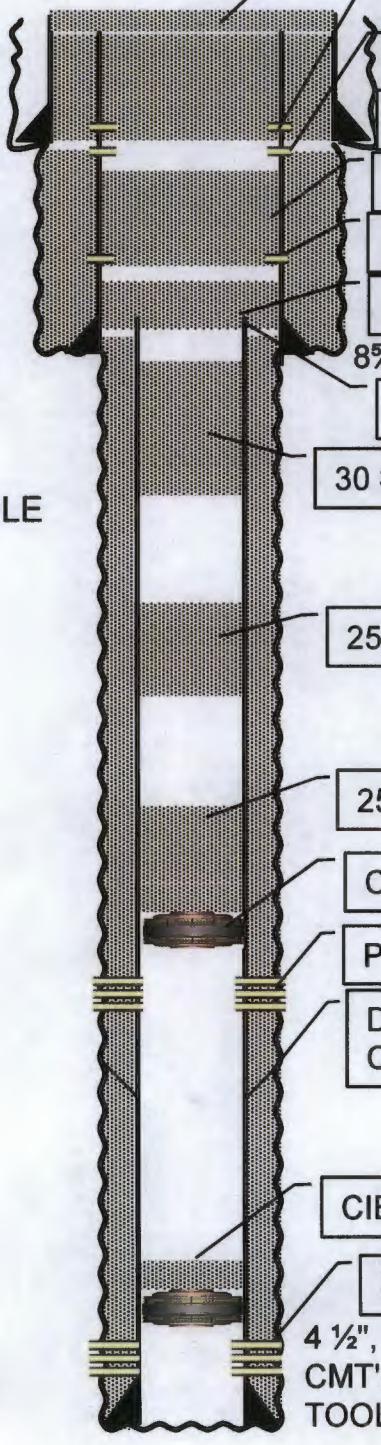
CUT OFF 8 5/8" • 1400'

8 5/8" • 4557' W/ 1950 SX.

TD 8940'

990' FNL, 430' FWL, SEC 33, T17S, R33E

GIFFORD A STATE #1
2,310' FSL, 330' FEL
UNIT I, SEC 32 T17S R33E
LEA CO., NM
API #30-025-01355
P & A'd



15 SX CMT SURF PLUG.

PERF @ 310'. SQZ'd w/156 SX.

17" HOLE

PERF @ 364'. COULD NOT EIR.

11¾", 28# @ 314'. CMT'd w/225 SX.

35 SX CMT PLUG fr/1,286'-1,420'.

PERF @ 1,370'. COULD NOT EIR.

25 SX CMT PLUG fr/2,450'-2,350'.

11" HOLE

8⅝", 24# & 32# @ 2,915'. CMT'd w/250 SX.

4½" CSG CUT & PULLED @ 2,400'.

30 SX CMT PLUG fr/2,980'-2,527'

7⅞" HOLE

25 SX CMT PLUG fr/3,839'-3,461'

25 SX CMT PLUG @ 6,738'.

CIBP @ 6,750'. CAPPED w/2 SX CMT.

PERFORATIONS 6,846'-6,866'.

DV TOOL @ 7,828'.
CMT'd 2ND STG w/1,250 SX

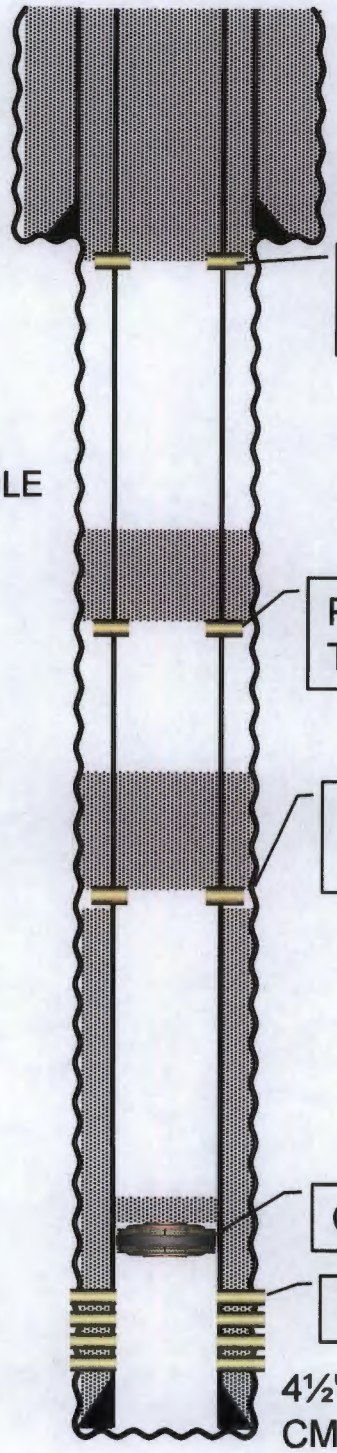
CIBP @ 8,502'. CAPPED w/2 SX CMT.

PERFORATIONS 8,651'-8,644'.

4 ½", 10.5# & 11.6# @ 8,829'.
CMT'D 1ST STG w/250 SX. CIRC 25 SX TO DV TOOL.

TD:8,829'

STATE CD #3
2,310' FNL, 2,310' FEL
UNIT G, SEC 29 T17S R33E
LEA CO., NM
API #30-025-01345
P & A'd



12¼" HOLE

8⅝", 24# @ 329'
CMT'd w/300 SX. CIRC CMT TO SURF.

PERF'd @ 379'. SQZ'd w/100 SX.
CIRC CMT TO SURF.

7⅞" HOLE

PERF'd @ 1,350'. SQZ'd w/35 SX.
TGD PLUG @ 1,198'

PERF'd @ 2,585'. SQZ'd w/35 SX.
TGD PLUG @ 2,390'

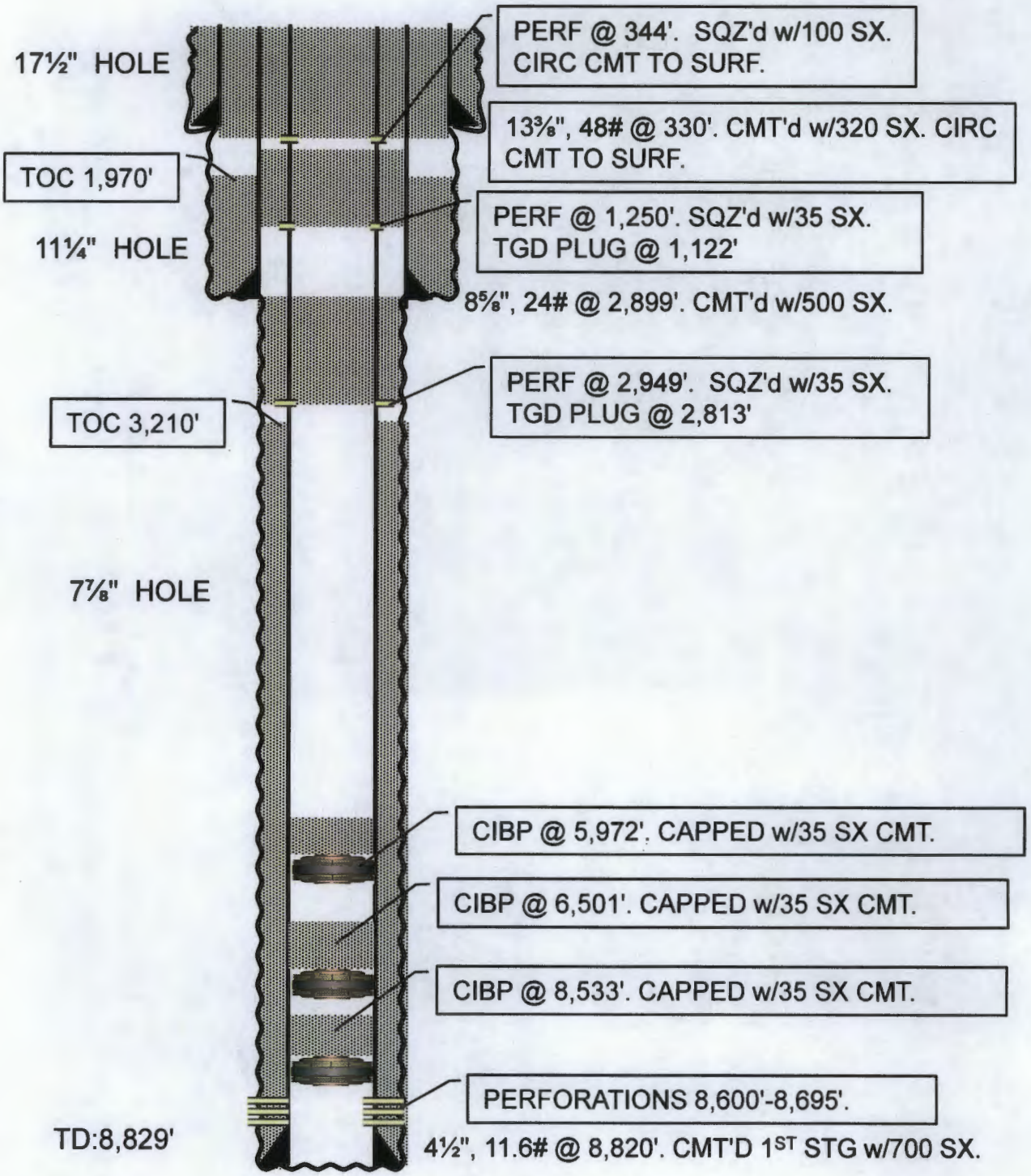
CIBP @ 4,245'. CAPPED w/35 SX CMT.

PERFORATIONS fr/4,345'-4,492'

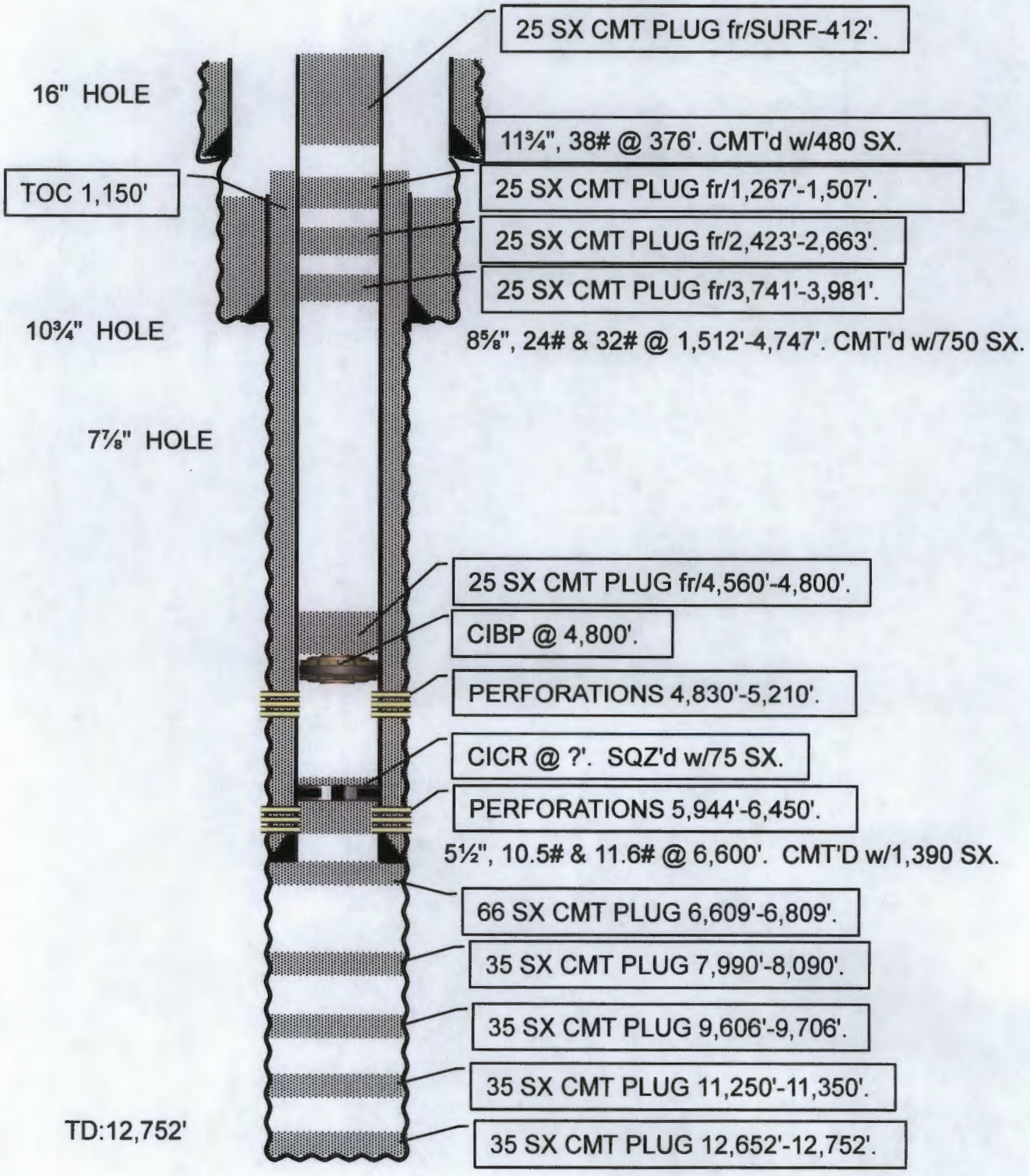
TD:4,810'

4½", 10.5# @ 4,809'.
CMT'D w/250 SX.

STATE CD #2
990' FNL, 1,980' FEL
UNIT B, SEC 32 T17S R33E
LEA CO., NM
API #30-025-21662
P & A'd



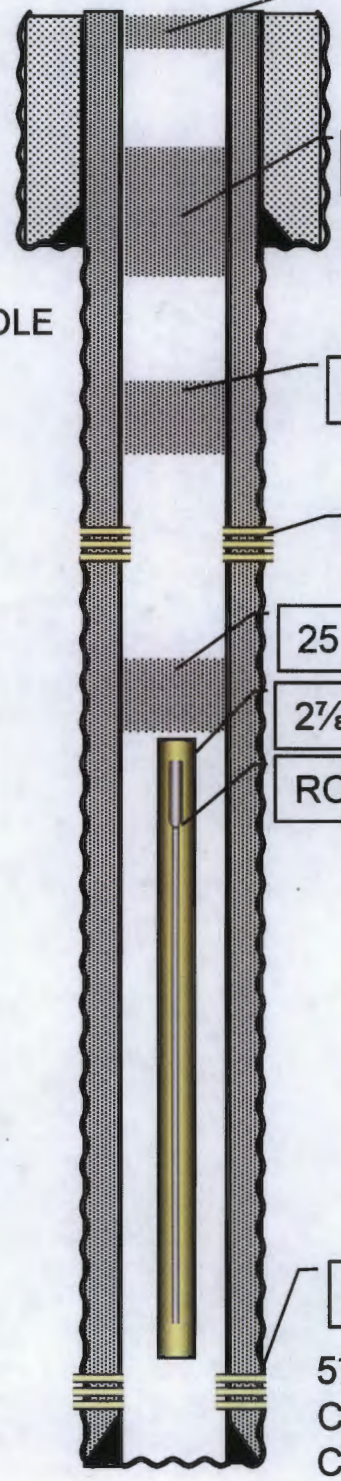
PHILMEX #14
(AKA PHILLIPS STATE #1)
560' FWL, 660' FSL
UNIT M, SEC 28 T17S R33E
LEA CO., NM
API #30-025-23988
P & A'd



CAPROCK MALJAMAR UNIT #280

932' FSL, 330' FWL
UNIT M, SEC 28 T17S R33E
LEA CO., NM
API #30-025-33773
P & A'd

ELEV: 4,088'



10 SX CMT PLUG @ SURF-60'.

25 SX CMT PLUG @ 212'-444'.

12¼" HOLE

8⅝", 20#, ISW-42 @ 444'.
CMT'd w/325 SX.
CIRC 67 SX.

7⅞" HOLE

25 SX CMT PLUG @ 1,423'-1,653'.

PERF @ 1,600'. PT TO 1,000 PSIG.

25 SX CMT PLUG @ 2,095'-2,325'.

2⅞" TBG CUT OFF @ 2,350'.

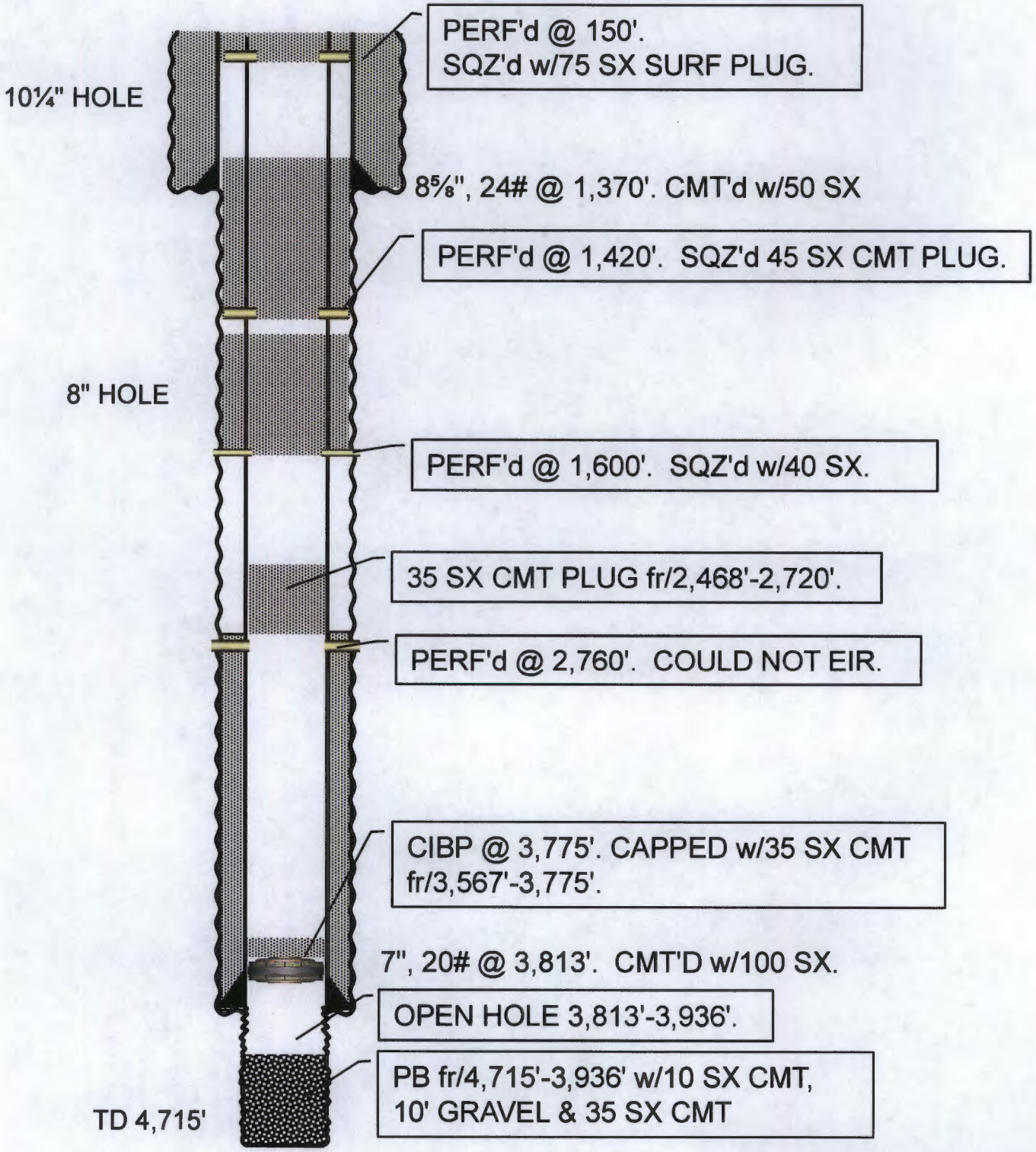
RODS PARTED @ 2,360'

PERFORATED INTERVAL: 4,200'-4,649'

5½", 17#, J-55 @ 4,827'.
CMT'D w/1,100 SX.
CIRC 112 SX CMT TO SURF.

PBTD:4,784'
TD:4,827'

STATE BY #3
1,980' FSL, 660' FEL
UNIT I, SEC 32 T17S R33E
LEA CO., NM
API #30-025-01340
P & A'd



Item VII
Additional Operational Data

1. Proposed average daily rate – 200 BWPD (per well).
   Proposed maximum daily rate – 400 BWPD (per well).

2. Closed system.

3. Proposed average and maximum pressure:

Well	Avg Press (psig)	Max Press (psig)
SEMGSAU #105	1900	1948
SEMGSAU #617	1900	1989
SEMGSAU #906	1900	2135

4. Injection fluid is primarily produced water from within the SEMGSAU augmented with fresh water purchased from ConocoPhillips and is used extensively in this area for secondary recovery purposes.

5. Injection is not for disposal purposes.

Item VIII
Geologic Data

Formation Name: Grayburg/San Andres
Lithology: Sandstone/Limestone
Thickness: 640' (gross), 70' (net)
Depth: 3,884' (shallowest)
Drinking Water Sources: There are no drinking water sources within 1 mile of the project area.

Item IX
Stimulation Program

Acidize each well with ~ 5,000 gallons 15% NEFE HCl if necessary.

Item X
Logging and Test Data

Log have been previously submitted with well completion reports. No tests have been conducted.

Item XI
Fresh Water Data

There are no fresh water wells within 1 mile of the project area.

Item XII
Disposal Data

Injection is for secondary recovery purposes and not disposal purposes.

Notification List

ConocoPhillips Company
4001 Penbrook St.
Odessa, TX, 79762

Lin Operating, Inc.
600 Travis St.
Suite 5100
Houston, TX 77002

LRE Operating, LLC
111 Bagby
Suite 4600
Houston TX 77002

Mack Energy Corp
PO Box 960
Artesia, NM 88211-0960

Oxy USA Inc.
PO Box 4294
Houston, TX 77210

Certified Mail Electronic Delivery Confirmation™

USPS CERTIFIED MAIL™

Cross Timbers Energy, LLC
400 W. 7th Street
FORT WORTH TX 76102-4701

US POSTAGE AND FEES PAID
FIRST CLASS
May 15 2014
Mailed from ZIP 76102
11 oz First Class Mail
Flats Rate

endicia.com

071S00777793

USPS CERTIFIED MAIL

9407 1102 0088 1187 2165 54

Mack Energy Corp.
Regulatory Compliance
PO Box 960
ARTESIA NM 88211-0960

Label Reference: RGRIGG

USPS Tracking Label Number: 9407110200881187216554

USPS Tracking History	Postal Facility	ZIP	Date	Time
ELECTRONIC SHIPPING INFO RECEIVED	FORT WORTH,TX	76102	5/15/2014	8:34AM
ACCEPT OR PICKUP	FORT WORTH,TX	76102	**5/15/2014**	12:45PM
DEPART POST OFFICE	FORT WORTH,TX	76102	5/15/2014	6:52PM
PROCESSED THROUGH USPS SORT FACILITY	COPPELL,TX	75099	**5/15/2014**	10:30PM
DEPART USPS SORT FACILITY	COPPELL,TX	75099	5/16/2014	1:12AM
PROCESSED THROUGH USPS SORT FACILITY	LUBBOCK,TX	79402	**5/16/2014**	6:47PM
DEPART USPS SORT FACILITY	LUBBOCK,TX	79402	5/16/2014	10:36PM
PROCESSED THROUGH USPS SORT FACILITY	LUBBOCK,TX	79402	**5/17/2014**	12:48AM
AVAILABLE FOR PICKUP	ARTESIA,NM	88211	5/17/2014	9:24AM
DELIVERED	**ARTESIA,NM**	**88210**	**5/19/2014**	**11:34AM**

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Cross Timbers Energy, LLC
400 W. 7th Street
FORT WORTH TX 76102-4701

US POSTAGE AND FEES PAID
FIRST CLASS
May 15 2014
Mailed from ZIP 76102
11 oz First Class Mail
Flats Rate

endicia.com

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USPS CERTIFIED MAIL

9407 1102 0079 3122 3687 57

Lin Operating, Inc.
Regulatory Compliance
Suite 5100
600 Travis St
HOUSTON TX 77002-3092

Label Reference: RGRIGG

USPS Tracking Label Number: 9407110200793122368757

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ACCEPT OR PICKUP	FORT WORTH,TX	76102	**5/15/2014**	12:45PM
DEPART POST OFFICE	FORT WORTH,TX	76102	5/15/2014	6:52PM
PROCESSED THROUGH USPS SORT FACILITY	COPPELL,TX	75099	**5/15/2014**	9:37PM
DEPART USPS SORT FACILITY	COPPELL,TX	75099	5/16/2014	1:12AM
PROCESSED THROUGH USPS SORT FACILITY	HOUSTON,TX	77201	**5/16/2014**	6:45PM
PROCESSED THROUGH USPS SORT FACILITY	HOUSTON,TX	77201	5/17/2014	3:47AM
DEPART USPS SORT FACILITY	HOUSTON,TX	77201	**5/17/2014**	4:10AM
SORTING/PROCESSING COMPLETE	HOUSTON,TX	77002	5/17/2014	9:01AM
ARRIVAL AT UNIT	HOUSTON,TX	77002	**5/17/2014**	4:03AM
OUT FOR DELIVERY	HOUSTON,TX	77002	5/17/2014	9:11AM
BUSINESS CLOSED	HOUSTON,TX	77002	**5/17/2014**	1:42PM
DELIVERED	**HOUSTON,TX**	**77002**	**5/19/2014**	**1:15PM**

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Cross Timbers Energy, LLC
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USPS CERTIFIED MAIL

9407 1102 0088 3210 5258 48

Oxy USA, Inc.
Regulatory Compliance
PO Box 4294
HOUSTON TX 77210-4294

Label Reference: RGRIGG

USPS Tracking Label Number: 9407110200883210525848

USPS Tracking History	Postal Facility	ZIP	Date	Time
ELECTRONIC SHIPPING INFO RECEIVED	FORT WORTH,TX	76102	5/15/2014	8:34AM
ACCEPT OR PICKUP	FORT WORTH,TX	76102	**5/15/2014**	12:45PM
DEPART POST OFFICE	FORT WORTH,TX	76102	5/15/2014	6:52PM
PROCESSED THROUGH USPS SORT FACILITY	COPPELL,TX	75099	**5/15/2014**	9:37PM
DEPART USPS SORT FACILITY	COPPELL,TX	75099	5/16/2014	1:12AM
PROCESSED THROUGH USPS SORT FACILITY	HOUSTON,TX	77201	**5/16/2014**	6:44PM
DELIVERED	**HOUSTON,TX**	**77210**	**5/19/2014**	**5:08AM**

Addressed To:

Name	LRE Operating, Inc.
Addressed To:	Regulatory Compliance
Address 1	1111 Bagby St
Address 2	LRE Operating, Inc.
City, ST ZIP	Houston TX 77002-
Your Reference Info:	RGRIGG

USPS Delivery Confirmation

Mail Class	Certified with Electronic Delivery Confirmation
USPS Certified Mail Article #	9407110200881187205671
Last Status	DEPART USPS SORT FACILITY
Post Office	HOUSTON,TX 77201
Date:	5/17/2014
Time:	4:10AM
USPS Destination ZIP	77002
USPS Facility Type	EF
USPS Dest Zip4	2559
Recorded	5/17/2014
Postage Paid Date:	5/15/2014
Has signature been returned by USPS yet?	No
Postage Label Archive	http://a4b90601d0fae76da63d-e4b28caa2a7af29719e3e9b86e8235cd.r45.cf2.rackcdn.com/9407110200881187205671-20140515.png
Electronic Delivery Confirmation	
Return Receipt Signature	

Addressed To:

Name	ConocoPhillips Company
Addressed To:	Regulatory Compliance
Address 1	4001 Penbrook St
Address 2	ConocoPhillips Company
City, ST ZIP	Odessa TX 79762-
Your Reference Info:	RGRIGG

USPS Delivery Confirmation

Mail Class	Certified with Electronic Delivery Confirmation
USPS Certified Mail Article #	9407110200882187274483
Last Status	DEPART POST OFFICE
Post Office	FORT WORTH,TX 76102
Date:	5/15/2014
Time:	6:52PM
USPS Destination ZIP	79762
USPS Facility Type	SF
USPS Dest Zip4	5976
Recorded	5/15/2014
Postage Paid Date:	5/15/2014
Has signature been returned by USPS yet?	No
Postage Label Archive	http://a4b90601d0fae76da63d-e4b28caa2a7af29719e3e9b86e8235cd.r45.cf2.rackcdn.com/9407110200882187274483-20140515.png
Electronic Delivery Confirmation	
Return Receipt Signature	

Notification List

ConocoPhillips Company
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Odessa, TX, 79762

Lin Operating, Inc.
600 Travis St.
Suite 5100
Houston, TX 77002

LRE Operating, LLC
111 Bagby
Suite 4600
Houston TX 77002

Mack Energy Corp
PO Box 960
Artesia, NM 88211-0960

Oxy USA Inc.
PO Box 4294
Houston, TX 77210

Affidavit of Publication

State of New Mexico,
County of Lea.

I, DANIEL RUSSELL
PUBLISHER
of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period

of 1 issue(s).
Beginning with the issue dated
May 08, 2014
and ending with the issue dated
May 08, 2014

PUBLISHER
Sworn and subscribed to before me
this 8th day of
May, 2014

Notary Public

My commission expires
January 29, 2015

(Seal)
OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico
Commission Expires 1-29-15

This newspaper is duly qualified to publish legal notices or advertisments 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, 2014

Cross Timbers Energy, LLC 400 W. 7th Street, Fort Worth, TX 76102 (817) 334-7800 (Robbie Grigg) is hereby giving notice of intent to inject produced and/or fresh water for the purpose of secondary recovery into the Grayburg/San Andres formation in the SEMGSAU #705 located 2,490' FSL & 1,595' FWL (Unit ltr I) Sec 30, T17S, R33E at a depth from 3,897' to 4,308' at an expected rate of 250 BWPD and 1,948 psig; the SEMGSAU #617 located 1,704' FSL & 1,998' FWL (Unit ltr K) Sec 29, T17S, R33E at a depth from 3,978' to 4,368' at an expected rate of 250 BWPD and 1,989 psig; and the SEMGSAU #906 located 1,200' FNL & 950' FEL (Unit ltr A) Sec 32, T17S, R33E at a depth from 4,270' to 4,460' at an expected rate of 250 BWPD and 2,135 psig. Interested persons objecting to this application must file a request for hearing with the Oil Conservation Division 1220 South Francis Dr., Santa Fe, NM 87505 within 15 days of this notice
#29014

67111631 00135919
ROBBIE GRIGG
CROSS TIMBERS ENERGY
400 W. 7TH ST
FORT WORTH, TX 76102

C-108 Review Checklist: Received _____ Add. Request: _____ Reply Date: _____ Suspended: _____ [Ver 13]

PERMIT TYPE: (WFX) PMX / SWD Number: _____ Permit Date: _____ Legacy Permits/Orders: _____

Well No. 105 Well Name(s): SEMGSAU

API : 30-0 25-26512 Spud Date: 12-17-79 New or Old: Old (*UIC Class II Primacy 03/07/1982*)

Footages 2490 FSL & 1545 FEL Lot ___ or Unit J Sec 30 Tsp 17S Rge 33E County Lea

General Location: MALJAMAR, Lea Co. Pool: MALJAMAR-GRAYBURG-SA Pool No.: 43329

BLM 100K Map: _____ Operator: CROSS TIMBERS ENERGY, LLC OGRID: 305763 Contact: Robbie Grigg

COMPLIANCE RULE 5.9: Total Wells: _____ Inactive: _____ Fincl Assur: _____ Compl. Order? _____ **IS 5.9 OK?** Y **Date:** 7-30-14

WELL FILE REVIEWED ◯ Current Status: _____

WELL DIAGRAMS: NEW: Proposed ◯ or **RE-ENTER:** Before Conv. ◯ After Conv. ◯ Logs in Imaging: _____

Planned Rehab Work to Well: _____

Well Construction Details:	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing __ **Surface**	12 1/4" / 8.625"	660'		660	Surface / Circ
Planned __or Existing __ **Interm/Prod**					
Planned __or Existing __ **Interm/Prod**					
Planned __or Existing __ **Prod/Liner**	7 7/8" 5 1/2"	4233'		1960	Surface/circ
Planned __or Existing __ **Liner**	2 3/4"	3800'			
Planned __or Existing __ **OH / (PERF)**			Inj Length 411		

Injection Stratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			
Confining Unit: Litho. Struc. Por.			
Proposed Inj Interval TOP:	3897	GRAYBURG	
Proposed Inj Interval BOTTOM:	4308	SAN ANDRES	
Confining Unit: Litho. Struc. (Por.)			
Adjacent Unit: Litho. Struc. (Por.)			

Completion/Operation Details:

Drilled TD 4350 PBTD 4349

NEW TD _____ NEW PBTD _____

NEW Open Hole ◯, or NEW Perfs ◯

Tubing Size 2 3/8 in. Inter Coated? Y

Proposed Packer Depth 3800 ft

Min. Packer Depth 3800 (100-ft limit)

Proposed Max. Surface Press. 1948 psi

Admin. Inj. Press. 760 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P ◯ *Noticed?* _____ **BLM Sec Ord** ◯ **WIPP** ◯ *Noticed?* _____ **SALT/SALADO** T: _____ B: _____ **CLIFF HOUSE** _____

FRESH WATER: Aquifer _____ Max Depth 140 **HYDRO AFFIRM STATEMENT By Qualified Person** ◯

NMOSE Basin: Lea **CAPITAN REEF:** thru ◯ adj ◯ NA (1) **No. Wells within 1-Mile Radius?** _____ FW Analysis ◯

Disposal Fluid: Formation Source(s) GRAYBURG-SA Analysis? _____ On Lease (1) Operator Only ◯ or Commercial ◯

Disposal Int: Inject Rate (Avg/Max BWPD): 200/400 Protectable Waters? _____ Source: _____ System: Closed ◯ or Open ◯

HC Potential: Producing Interval? X Formerly Producing? _____ Method: Logs/DST/P&A/Other _____ 2-Mile Radius Pool Map (1)

AOR Wells: 1/2-M Radius Map? _____ Well List? _____ Total No. Wells Penetrating Interval: _____ Horizontals? Ø

Penetrating Wells: No. Active Wells 54 Num Repairs? ___ on which well(s)? _____ Diagrams? _____

Penetrating Wells: No. P&A Wells 48 Num Repairs? ___ on which well(s)? _____ Diagrams? _____

NOTICE: Newspaper Date May 8 Mineral Owner Bum/State Surface Owner ConocoPhillips, LINN Operating, LEE Operating, Macheny & Xy N. Date _____

RULE 26.7(A): Identified Tracts? _____ Affected Persons: _____ N. Date May 15

Permit Conditions: **Issues:** Need SNT

Add Permit Cond: _____

C-108 Review Checklist: Received _____ Add. Request: _____ Reply Date: _____ Suspended: _____ [Ver 13]

PERMIT TYPE: (WFX) / PMX / SWD Number: _____ Permit Date: _____ Legacy Permits/Orders: _____

Well No. 617 Well Name(s): SEMGSAU

API: 30-0 25-37897 Spud Date: _____ New or (Old): _____ (**UIC Class II Primacy 03/07/1982**)

Footages 1704 FSL & 1998 FWL Lot ___ or Unit K Sec 29 Tsp 17S Rge 33E County Lea

General Location: MAL g AmAr Pool: MALJAMAR GRAYBURG-SA Pool No.: 43329

BLM 100K Map: _____ Operator: CROSS TIMBERS ENERGY, LLC OGRID: 305793 Contact: Robbie Griggs

COMPLIANCE RULE 5.9: Total Wells: _____ Inactive: _____ Fincl Assur: _____ Compl. Order? _____ **IS 5.9 OK?** Y **Date:** 7-3-14

WELL FILE REVIEWED ◯ Current Status: _____

WELL DIAGRAMS: NEW: Proposed ◯ or **RE-ENTER:** Before Conv. (X) After Conv. ◯ Logs in Imaging: _____

Planned Rehab Work to Well: _____

Well Construction Details:	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing __ **Surface**	12.25 / 8 5/8	1225		630	Sur / circ
Planned__or Existing __ **Interm/Prod**					
Planned__or Existing __ **Interm/Prod**					
Planned__or Existing __ **Prod/Liner**	7 7/8 / 5 1/2	4450		770	Sur/circ
Planned__or Existing __ **Liner**	2 3/8	4155			
Planned__or Existing __ **OH / (PERF)**			Inj Length 390		

Injection Stratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. (Por.)			
Confining Unit: Litho. Struc. Por.			
Proposed Inj Interval TOP:	3478	Grayburg	
Proposed Inj Interval BOTTOM:	4368	San Andres	
Confining Unit: Litho. Struc. (Por.)			
Adjacent Unit: Litho. Struc. (Por.)			

Completion/Operation Details:

Drilled TD _____ PBTD _____

NEW TD _____ NEW PBTD _____

NEW Open Hole ◯ or NEW Perfs ◯

Tubing Size 2 3/8 in. Inter Coated? Y

Proposed Packer Depth _____ ft

Min. Packer Depth 4155 (100-ft limit)

Proposed Max. Surface Press. 1900 psi

Admin. Inj. Press. 795 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P ◯ *Noticed?* _____ **BLM Sec Ord** ◯ **WIPP** ◯ *Noticed?* _____ **SALT/SALADO** T: _____ B: _____ **CLIFF HOUSE** _____

FRESH WATER: Aquifer _____ Max Depth _____ **HYDRO AFFIRM STATEMENT By Qualified Person** ◯

NMOSE Basin: Lea **CAPITAN REEF:** thru ◯ adj ◯ NA (X) **No. Wells within 1-Mile Radius?** _____ FW Analysis ◯

Disposal Fluid: Formation Source(s) MALJAMAR GRAYBURG-SA Analysis? _____ On Lease (X) Operator Only ◯ or Commercial ◯

Disposal Int: Inject Rate (Avg/Max BWPD): 200/400 Protectable Waters? _____ Source: _____ System: Closed ◯ or Open ◯

HC Potential: Producing Interval? X Formerly Producing? _____ Method: Logs/DST/P&A/Other _____ 2-Mile Radius Pool Map ◯

AOR Wells: 1/2-M Radius Map? _____ Well List? _____ Total No. Wells Penetrating Interval: _____ Horizontals? _____

Penetrating Wells: No. Active Wells 54 Num Repairs? ___ on which well(s)? _____ Diagrams? _____

Penetrating Wells: No. P&A Wells 48 Num Repairs? ___ on which well(s)? _____ Diagrams? _____

NOTICE: Newspaper Date May 8 Mineral Owner Bureau of Land Surface Owner CONOCO PHILLIPS, LINN OPERATING N. Date May 8

RULE 26.7(A): Identified Tracts? _____ Affected Persons: LINN Operating MACK ENERGY N. Date May 19

Permit Conditions: **Issues:** PACKER DEPTH BELOW PERFORATED INTERVAL IS NOT

Add Permit Cond: _____

C-108 Review Checklist: Received _____ Add. Request: _____ Reply Date: _____ Suspended: _____ [Ver 13]

PERMIT TYPE: WFX / PMX / SWD Number: _____ Permit Date: _____ Legacy Permits/Orders: _____

Well No. 906 Well Name(s): SEMGBSAU

API : 30-0 25-31444 Spud Date: November 15 1991 New or Old: _____ (***UIC Class II Primacy 03/07/1982***)

Footages 1200 FNL 950 E Lot ___ or Unit A Sec 32 Tsp 17S Rge 33E County Lea

General Location: MALJAMAR Pool: MALJAMAR GRAYBURG-SA Pool No.: 43329

BLM 100K Map: _____ Operator: CROSS TIMBERS ENERGY, LLC OGRID: 305753 Contact: Robbie Griggs

COMPLIANCE RULE 5.9: Total Wells: _____ Inactive: _____ Fincl Assur: _____ Compl. Order? _____ **IS 5.9 OK?** ___ **Date:** 7-31-14

WELL FILE REVIEWED ◯ Current Status: _____

WELL DIAGRAMS: NEW: Proposed ◯ or **RE-ENTER:** Before Conv. ◯ After Conv. ◯ Logs in Imaging: _____

Planned Rehab Work to Well: _____

Well Construction Details:	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing __ **Surface**	12 1/4" / 9 5/8"	306		250	Surf/circ
Planned __or Existing __ **Interm/Prod**					
Planned __or Existing __ **Interm/Prod**					
Planned __or Existing __ **Prod/Liner**	7 7/8" / 5 1/2"	4546		1300	Surf/circ
Planned __or Existing __ **Liner**	2.375"	4170			
Planned __or Existing __ **OH / PERF**			Inj Length 190		

Injection Stratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			
Confining Unit: Litho. Struc. Por.			
Proposed Inj Interval TOP:	4270		
Proposed Inj Interval BOTTOM:	4460		
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:

Drilled TD 4541 PBTD 4499

NEW TD _____ NEW PBTD _____

NEW Open Hole ◯ or NEW Perfs ◯

Tubing Size 2 3/4 in. Inter Coated? Y

Proposed Packer Depth 4170 ft

Min. Packer Depth 4170 (100-ft limit)

Proposed Max. Surface Press. 1400 psi

Admin. Inj. Press. 834 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P ◯ *Noticed?* _____ **BLM Sec Ord** ◯ **WIPP** ◯ *Noticed?* _____ **SALT/SALADO** T: _____ B: _____ **CLIFF HOUSE** _____

FRESH WATER: Aquifer _____ Max Depth _____ **HYDRO AFFIRM STATEMENT By Qualified Person** ◯

NMOSE Basin: Lea **CAPITAN REEF:** thru ◯ adj ◯ NA ◯ **No. Wells within 1-Mile Radius?** _____ FW Analysis ◯

Disposal Fluid: Formation Source(s) MALJAMAR GRAYBURG-SA Analysis? _____ On Lease ◯ Operator Only ◯ or Commercial ◯

Disposal Int: Inject Rate (Avg/Max BWPD): 200/400 Protectable Waters? _____ Source: _____ System: Closed ◯ or Open ◯

HC Potential: Producing Interval? X Formerly Producing? _____ Method: Logs/DST/P&A/Other _____ 2-Mile Radius Pool Map ◯

AOR Wells: 1/2-M Radius Map? _____ Well List? _____ Total No. Wells Penetrating Interval: _____ Horizontals? _____

Penetrating Wells: No. Active Wells 5 Num Repairs? ___ on which well(s)? _____ Diagrams? _____

Penetrating Wells: No. P&A Wells 48 Num Repairs? ___ on which well(s)? _____ Diagrams? _____

NOTICE: Newspaper Date May 8 Mineral Owner BLM NMSLO Surface Owner _____ N. Date May 6

RULE 26.7(A): Identified Tracts? _____ Affected Persons: CONOCOPHILLIPS, LINN ENERGY, LPE OPERATING, MACK ENERGY N. Date May 6

Permit Conditions: **Issues:** Need SRT

Add Permit Cond: _____

McMillan, Michael, EMNRD

From: Ian Petersen <ipetersen@mspartners.com>
Sent: Thursday, July 31, 2014 4:09 PM
To: McMillan, Michael, EMNRD
Cc: Robbie Grigg
Subject: RE: Cross Timbers SEMGSAU WFX application

Michael,

Per our phone conversation:

The SEMGSAU #617 top perf depth listed in the C-108 (3978') is a typo. The wellbore schematic and all other records indicate the top perf to be 4255', and the pkr setting depth will be within 100' (4155').

We agree to not inject over 0.2 psi/ft, but intend to perform a step-rate injection test and submit an IPI request immediately after approval of the WFX.

If I/we can help y'all with anything else, don't hesitate to ask! You'll probably find the same injection pressure issue with our WFX request in the North Vacuum Abo Unit. We can proceed the same there if that is agreeable to y'all (agree to inject at lower psi, then immediately submit IPI request w step-rate tests).

Thank you for your help, Michael and everyone at the Division. We know you're all hooked up like the rest of us.

Ian

Ian Petersen
MorningStar Partners, Cross Timbers Energy
Operations Engineer
O: 817-334-7708
C: 432-634-4922

From: McMillan, Michael, EMNRD [mailto:Michael.McMillan@state.nm.us]
Sent: Thursday, July 31, 2014 12:11 PM
To: Robbie Grigg
Subject: Cross Timbers SEMGSAU WFX application

Robbie:
I have looked at your WFX application for the SEMGSAU in Lea County.
I have a couple of concerns with your application.
First, the SEMBSAU #617 has a packer depth of 4155 feet and a perf interval of 3978-4368. The packer must be at a maximum of 100 feet above the top of the perforated interval.

Next, you applied for injection pressure of 1900 psi. However, the maximum pressure that can be administratively approved is .2psi/ft. or 779 psi for the #105; 792 psi for the 617; 854 psi for the #906.
Therefore. You must apply for an IPI for these wells. You would be allowed to use the data from previous IPI in your analysis; however, the OCD cannot approve a blanket pressure for the wells without more data.
Thank You

Michael A. McMillan

Engineering and Geological Services Bureau, Oil Conservation Division
1220 South St. Francis Dr., Santa Fe NM 87505
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