STATE OF NEW MEXICO
ENERGY, MINERALS and NATURAL
RESOURCES DEPARTMENT

Oil Conservation Div.
2040 Pacheco St.
Santa Fe, NM 87505

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. OPERATOR: The Wiser Oil Company

ADDRESS: P. O. Box 2568, Hobbs, NM 88241

CONTACT PARTY: Mike Jones PHONE: (505) 392-9797

III. WELL DATA: Complete the data required on the reverse side of this form for each well processed 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-10094 Caprock Maljamar Unit

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

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

VII. Attach data on the proposed operation, including:

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

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

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

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

NAME: Michael R. Burch, CPL TITLE: Agent

SIGNATURE: Michael R. Burch by [illegible] DATE: 9-30-98

* 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 circumstance 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 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, PO Box 2088, Santa Fe, NM 87504-2088 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.

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III. WELL DATA

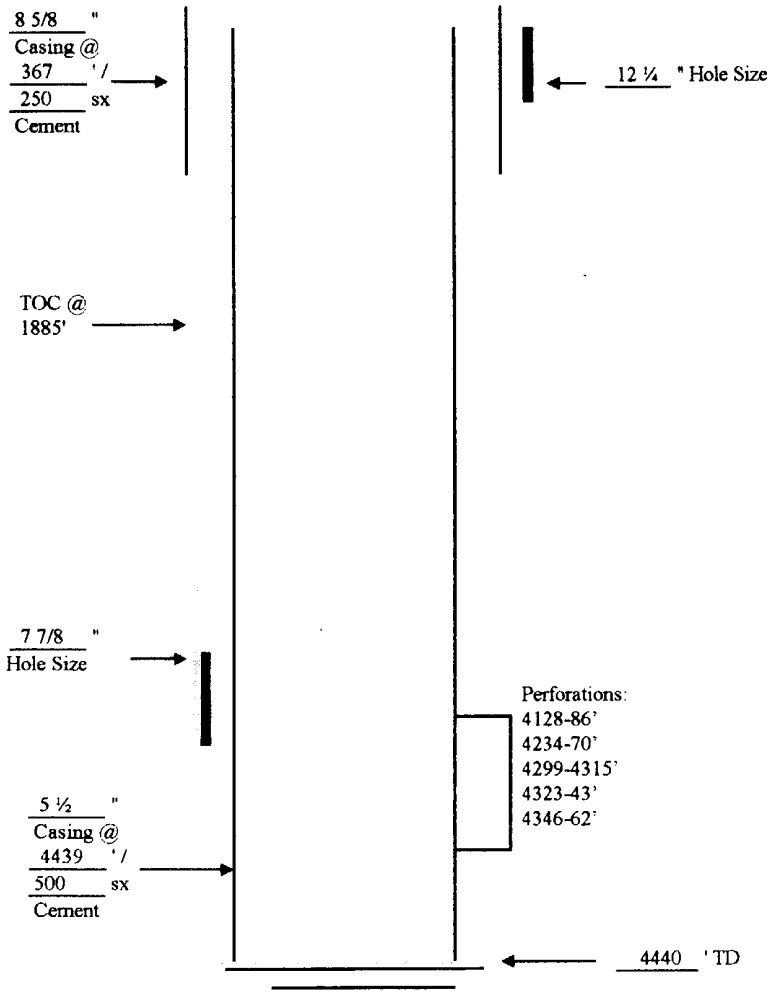
The following data sheets describe the 2 Water Injection Wells for which this application is submitted by The Wiser Oil Company.

INJECTION WELL DATA SHEET

OPERATOR: The Wiser Oil Company | LEASE: Caprock Maljamar Unit

WELL NO.: #98 | FOOTAGE LOCATION: 660' FSL, 660' FWL, Unit M | SECTION: 28 | TOWNSHIP: 17S | RANGE: 33E

Schematic



Well Construction Data

Surface Casing Set @ 367 '
Size 8 5/8 " Cemented with 250 sx.
TOC Surface feet determined by _____
Hole Size 12 ¼ "

Intermediate Casing Set @ _____ '
Size _____ " Cemented with _____ sx.
TOC _____ Feet determined _____
Hole Size _____ "

Long String Set @ 4439 '
Size 5 ½ " Cemented with 500 sx.
TOC 1885 feet determined by Calculation
Hole Size 7 7/8 "
Total Depth 4440 '

Injection Interval
_____ feet to _____ Feet
(perforated or open-hole; Indicate which)

Tubing Size 2 7/8 " lined with _____ Set in a
(type of internal coating)
_____ Packer at 4109 Feet
Other type of tubing / casing seal if applicable _____

Other Data

1. Is this a new well drilled for injection? _____ Yes X No
   If no, for what purpose was the well originally drilled?
   Oil Production
   The Wiser Oil Company plans to convert this well to WIW
2. Name of the Injection formation Grayburg-San Andres Vacuum
3. Name of Field or Pool (if applicable) Grybg Jackson 7-Rivers-QN-GB-SA
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e., sacks of cement or plug(s) used 4128-86', 4234-70', 4299-4362'
5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area. _____

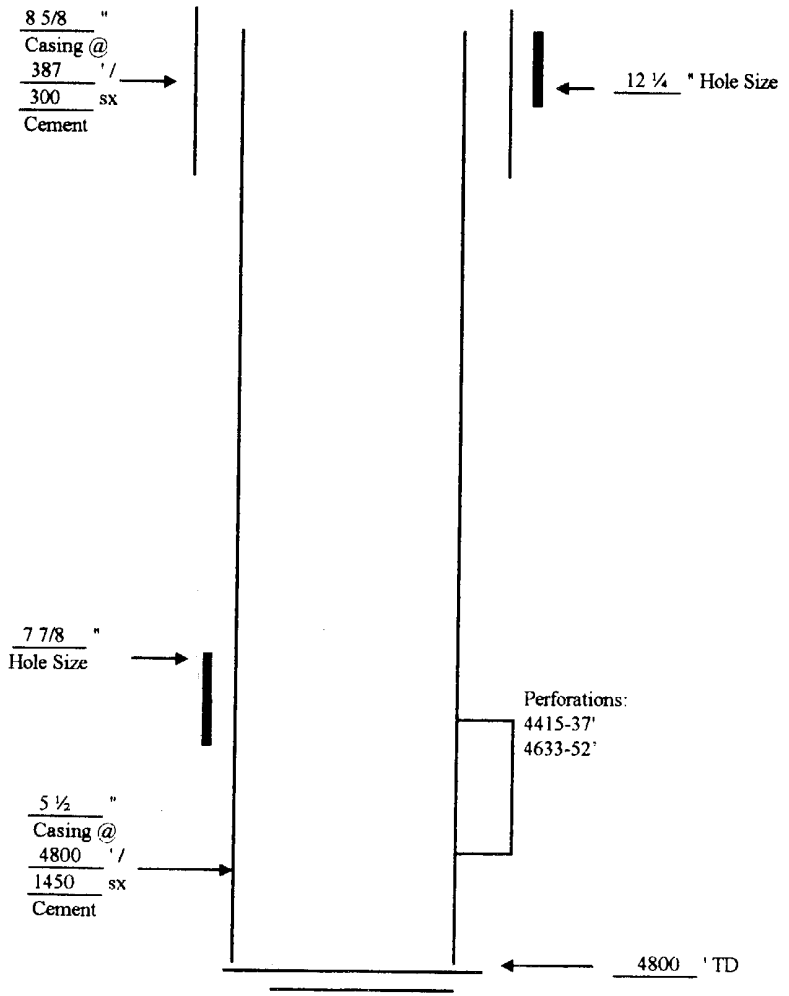
INJECTION WELL DATA SHEET

OPERATOR The Wiser Oil Company LEASE Caprock Maljamar Unit

WELL NO. #283 1033' FSL, 1975' FEL, Unit O 28 17S 33E

FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic



Well Construction Data

Surface Casing Set @ 387' '
Size 8 5/8 " Cemented with 300 sx.
TOC Surface feet determined by
Hole Size 12 ¼ "

Intermediate Casing Set @ '
Size " Cemented with sx.
TOC feet determined by
Hole Size "

Long String Set @ 4800 '
Size 5 ½ " Cemented with 1450 sx.
TOC feet determined by
Hole Size 7 7/8 "
Total Depth 4800 '

Injection Interval
feet to Feet
(perforated or open-hole; Indicate which)

Tubing Size 2 7/8 " lined with set in a
(type of internal coating)
packer at 4671 feet

Other type of tubing / casing seal if applicable

Other Data

1. Is this a new well drilled for injection? Yes X No
   If no, for what purpose was the well originally drilled?
   Oil Production
   The Wiser Oil Company plans to convert this well to WIW
2. Name of the Injection formation Grayburg-San Andres Vacuum
3. Name of Field or Pool (if applicable) Grybg Jackson 7-Rivers-QN-GB-SA
4. Has the well ever been perforated in any other zone(s)? List all such Perforated intervals and give plugging detail, i.e., sacks of cement or Plug(s) used 4415-37', 4633-52'
5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.

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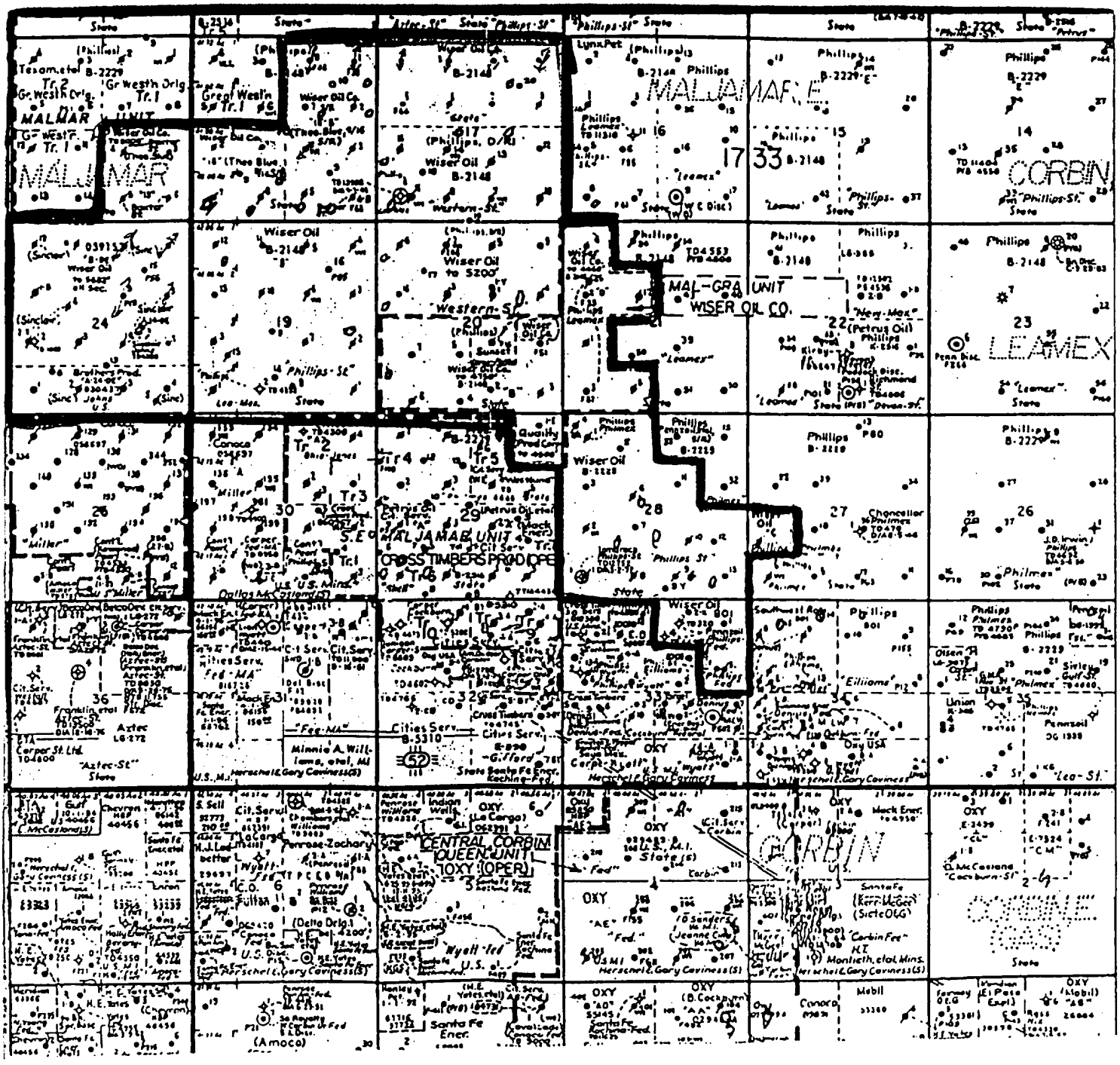
V. AREA OF REVIEW

The attached maps show all wells and leases within two miles of the proposed injection wells with a one-half mile radius circle drawn around each proposed injection well.


MALJAMAR UNIT
MAL-GRA UNIT
WISER OIL CO.
CROSS TIMBERS PROD DPE
CENTRAL CORBIN QUEEN UNIT
CORBIN
LEAMEX
Phillips-St
Aztec-St
Western-St
Leo-St
Lea-St
Leamex
Wiser Oil
Phillips
State
Cit.Serv.
Cities Serv.
Oxy
Mobil
Conoco
Amoco
Santa Fe
Gulf
Chevron
Penrose-Zachary
Wyatt-Fed
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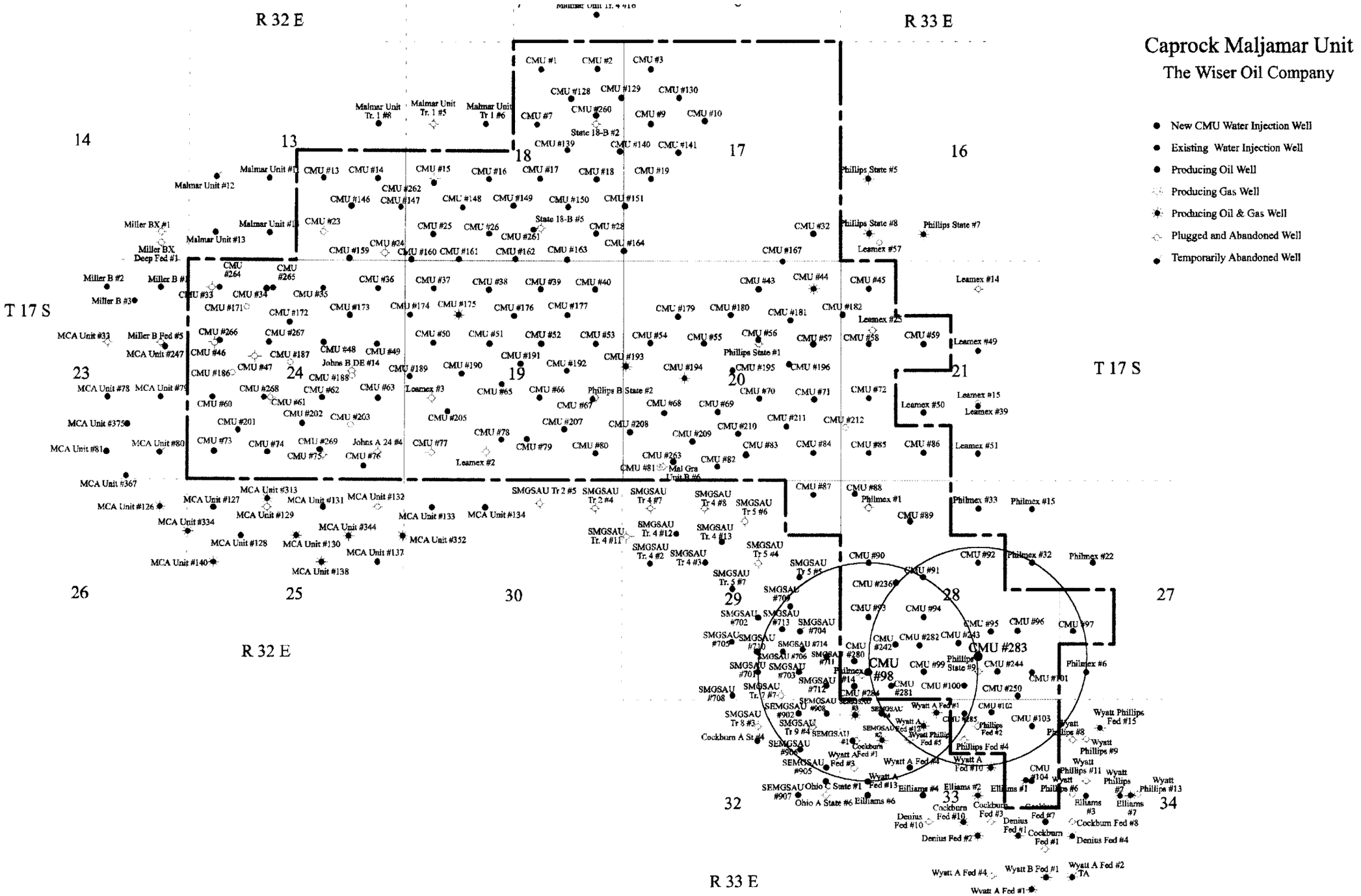
Caprock Maljamar Unit
The Wiser Oil Company
New CMU Water Injection Well
Existing Water Injection Well
Producing Oil Well
Producing Gas Well
Producing Oil & Gas Well
Plugged and Abandoned Well
Temporarily Abandoned Well
R 32 E
R 33 E
T 17 S
R 32 E
R 33 E
T 17 S

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VI. HALF MILE WELLS

The following is a table showing data for all wells which penetrate the proposed injection zone and which lie within the area of review.

Immediately following the table are schematics for the 9 wells within the area of review which have been plugged and abandoned as noted on the table.

NAME	OPERATOR	LOCATION	SEC	TSHP	RG	COMPL DATE	TYPE	TD	HOLE SIZE	CSG SIZE	DEPTH SET	SX CMT	TOC	PERFS	TUBI/ PKR	COMMENTS	LEASE
Township 17 South, Range 33 East **Section 27**																	
CMU #97	The Wiser Oil Co.	1650' FSL, 330' FWL, Unit L	27	17S	33E	2-17-58	WIW	4610'	12 ¼" 7 ¾"	8 5/8" 5 ½"	351' 4427'	175 100	3900', Calc		2" @ 4430'	Converted to WIW 12-17-68	State B-2229
Philmex #6	Phillips Petroleum Company	660' FSL, 660' FWL, Unit M	27	17S	33E	6-13-56	WIW	4555'	11" 7 7/8"	8 5/8" 5 ½"	1490' 4460'	100 100	255', T.S.	4250-60' 4294-4306' 44004420'	2 1/16" @ 4100'		State B-2229
Township 17 South, Range 33 East **Section 28**																	
CMU #90	The Wiser Oil Co.	1980' FNL, 660' FWL, Unit E	28	17S	33E	12-15-57	WIW	4690'	11" 7 7/8"	8 5/8" 5 ½"	1407' 4525'	500 225	3915', Calc	4240-46' 4313-15' 4406-09' 4471-81'	2 1/16" @ 4198'	Converted to WIW 11-15-96	State B-2229
CMU #236	The Wiser Oil Co.	2460' FNL, 1308' FWL, Unit E	28	17S	33E	9-17-96	O	4900'	12 ¼" 7 7/8"	8 5/8" 5 ½"	365' 4900'	325 1150				APD expires 7-10-97.	State B-2229
CMU #91	The Wiser Oil Co.	2310' FNL, 1980' FWL, Unit F	28	17S	33E	1-7-58	WIW	4512'	12 ¼" 7 7/8"	8 5/8" 5 ½"	347' 4511'	175 500	3865', Calc	4232-48' 4286-4303' 4368-78' 4408-16' 4433-48' 4454-68'	2" @ 4475'	Converted to WIW 4-19-67.	State B-2229
CMU #92	The Wiser Oil Co.	1980' FNL, 1980' FEL, Unit G	28	17S	33E	12-8-57	O&G	4627'	11" 7 7/8"	8 5/8" 5 ½"	355' 4260'	150 100	3749', Calc	none	2" @ 4461'		State B-2229
Philmex #32	Phillips Petroleum Co.	1980' FNL, 660' FEL, Unit H	28	17S	33E	7-21-88	O	4800'	12 ¼" 7 7/8"	8 5/8" 5 ½"	1489' 4800'	1000 1825		4524-4532' 4541-4546' 4561-4565' 4275-4280' 4333-4335' 4391-4397' 4426-4430' 4459-4463'	2 7/8" @ 4568'		State B-2229-1
CMU #96	The Wiser Oil Co.	1650' FSL, 990' FEL, Unit I	28	17S	33E	1-6-58	WIW	4500'	12 ¼" 7 7/8"	8 5/8" 5 ½"	351' 4499'	175 500	3810', Calc	4463-78' 4222-4432'	2 3/8" @ 4158'	Converted to WIW 2-12-97	State B-2229
CMU #95	The Wiser Oil Co.	1650' FSL, 1650' FEL, Unit J	28	17S	33E	12-27-57	WIW	4548'	12 ¼" 7 7/8"	8 5/8" 5 ½"	345' 4547'	175 300	3710', Calc	4404-4428'	2" @ 4440'	Converted to WIW 5-1-67.	State B-2229
CMU #243	The Wiser Oil Co.	1384' FSL, 2453' FEL, Unit J	28	17S	33E	2-29-96	O	4950'	12 ¼" 7 7/8"	8 5/8" 5 ½"	1285' 4950'	550 1550		4406-24' 4750-55' 4666-95' 4615-54'	2 7/8" @ 4713'		State B-2229
CMU #94	The Wiser Oil Co.	1980' FSL, 1980' FWL, Unit K	28	17S	33E	12-15-57	WIW	4450'	11" 7 7/8"	8 5/8" 5 ½"	346' 4450'	150 450	3740', Calc	4194-4201' 4258-60' 4273-75' 4287-90' 4306-10' 4312-16' 4332-50'	2 3/8" @ 4142'	Converted to WIW 10-3-96	State B-2229

NAME	OPERATOR	LOCATION	SEC	TSHP	RG	COMPL DATE	TYPE	TD	HOLE SIZE	CSG SIZE	DEPTH SET	SX CMT	TOC	PERFS	TUBI/ PKR	COMMENTS	LEASE
Section 28 (Continued)																	
CMU #242	The Wiser Oil Co.	1330' FSL, 1330' FWL, Unit K	28	17S	33E	4-4-96	O	4803'	12 ¼" 7 7/8"	8 5/8" 5 ½"	496' 4803'	300 1350		4277-79' 4303-21'	2 7/8" @ 4255'		State B-2229
CMU #93	The Wiser Oil Co.	1980' FSL, 660' FWL, Unit L	28	17S	33E	12-8-57	WIW	4460'	11" 7 7/8"	8 5/8" 5 ½"	347' 4459'	150 450	3815', Calc	4200-08' 4257-63' 4286-91' 4308-16' 4336-38' 4346-52'	2" @ 4379'	Converted to WIW 4-19-67.	State B-2229
Philmex 14	Phillips Oil Co. 4001 Penbrook St. Odessa, TX 79762	569' FSL, 507' FWL, Unit M	28	17S	33E		P&A		12 ¼" 11" 7 7/8"	11 ¾" 8 5/8" 5 ½"	350' 4500' 12,500	400 500 400				P&A 4-18-95 (See attached)	State B-2229
CMU #280	The Wiser Oil Co.	932' FSL, 330' FWL, Unit M	28	17S	33E	4-5-97	O	4827'	12 ¼" 7 7/8"	8 5/8" 5 ½"	444' 4827'	325 1100		4200-13' 4327-83' 4431-75' 4501-40' 4611-49'	2 7/8" @ 4698'		State B-2229
CMU #281	The Wiser Oil Co.	330' FSL, 1210' FWL, Unit M	28	17S	33E	1-31-97	O	4775'	12 ¼" 7 7/8"	8 5/8" 5 ½"	391' 4775'	325 1150		4273-85' 4301-55' 4367-87' 4445-54' 4492-98' 4500-21' 4556-83' 4591-98' 4602-13'	2 7/8" @ 4229'		State B-2229
CMU #284	The Wiser Oil Co.	330' FSL, 330' FWL, Unit M	28	17S	33E	12-24-97	O	4550'	12 ¼" 7 7/8"	8 5/8" 5 ½"	396' 4550'	300 1250		4291-99' 4301-33'	2 7/8" @ 4374'		State B-2229
CMU #99	The Wiser Oil Co.	660' FSL, 1980' FWL, Unit N	28	17S	33E	11-28-57	WIW	4450'	11" 7 7/8"	8 5/8" 5 ½"	357' 4449'	125 450	4450', Calc	4281-84' 4316-25' 4324-33' 4338-56'	2" @ 4333'	Converted to WIW 4-19-67.	State B-2229
CMU #282	The Wiser Oil Co.	1310' FSL, 1892' FWL, Unit N	28	17S	33E	10-8-97	O	4800'	12 ¼" 7 7/8"	8 5/8" 5 ½"	371' 4800'	300 1350		4312-29' 4531-77'	2 7/8" @ 4620'		State B-2229
CMU #100	The Wiser Oil Co.	330' FSL, 2310' FEL. Unit O	28	17S	33E	3-31-58	WIW	4650'	12 ¼" 7 ¾"	8 5/8" 5 ½"	375' 4440'	175 450	3723', Calc	4138-79' 4211-92' 4305-77' 4403-14' 4510-12' 4476-88'	2 3/8" @ 4088'	Converted to WIW 10-26-97	State B-2229
CMU #244	The Wiser Oil Co.	682' FSL, 1475' FEL, Unit O	28	17S	33E	8-30-96	O	4900'	12 ¼" 7 7/8"	8 5/8" 5 ½"	498' 4900'	350 1350		4372-91' 4400-61' 4488-4540' 4573-4618'	2 7/8" @ 4482'		State B-2229

NAME	OPERATOR	LOCATION	SEC	TSHP	RG	COMPL DATE	TYPE	TD	HOLE SIZE	CSG SIZE	DEPTH SET	SX CMT	TOC	PERFS	TUBI/ PKR	COMMENTS	LEASE
Section 28 (Continued)																	
Phillips State #9	Zapata Petroleum Corp.	660' FSL, 1980' FEL, Unit O	28	17S	33E	12-23-57	P&A	4542'	11" 7 7/8"	8 5/8" 5 ½"	350' 4500'	150 250	3725', Calc	4468-4480'	2" @ 4495'	P&A approx 1-20-59 (See attached)	State B-2229
CMU #101	The Wiser Oil Co.	660' FSL, 660' FEL, Unit P	28	17S	33E	12-22-57	WIW	4540'	11" 7 7/8"	8 5/8" 5 ½"	325' 4359'	150 450	2060', Calc	4218-40' 4341-53' 4420-40'	2" @ 4375'	Converted to WIW 5-1-67.	State B-2229
CMU #250	The Wiser Oil Co.	105' FSL, 991' FEL, Unit P	28	17S	33E	4-13-96	O	4950'	12 ¼" 7 7/8"	8 5/8" 5 ½"	499' 4950'	375 1300		4716-52' 4676-97'	2 7/8" @ 4810'		State B-2229
Township 17 South, Range 33 East																	
Section 29																	
SMGSAU #704	CrossTimbers Operating Co.	1650' FSL, 990' FEL, Unit I	29	17S	33E	11-1-54	WIW TA	4360'	11" 7 7/8"	8 5/8" 5 ½"	297' 4246'	300 800	159', Calc		2" @ 4311'	This well was converted to WIW 10-13-72 It has been temporarily abandoned since but there is no record of exactly when. (See attached)	State B-2516
SMGSAU Tr. 709	Cross Timbers Opeating Co.	2250' FSL, 1225' FEL,, Unit I	29	17S	33E	12-9-81	O	4450'	12 ½" 7 7/8" 4 ¾"	8 5/8" 5 ½" 4" Liner	1314' 3950' 3678-4449'	735 1000 250		4340-4343' 4348-4350' 4352-4360' 4370-4380' 4385-4387' 4390-4394' 4398-4404' 4408-4414' 4218-4221' 4226-4229' 4246-4248' 4259-4261' 4271-4273' 4279-81' 4296-4306'			State B-2516
SMGSAU #713	Cross Timbers Operating Co.	1700' FSL, 1400' FEL, Unit J	29	17S	33E	5-1-97	O	4390'	12 ¼" 7 7/8"	8 5/8" 5 ½"	388' 4389'	250 850	710', Calc	4264-4311'	2 3/8" @ 4188'		State B-2516
SMGSAU #701	Cross Timbers Operating Co.	660' FSL, 1980' FEL, Unit O	29	17S	33E	12-29-71	WIW	4440'	14" 8 ½"	10 ¾" 7"	1300' 4070'	1000 300	1976', Calc	4222-4322'	2 3/8" @ 4124'		State B-2516
SMGSAU #706	Cross Timbers Operating Co.	1155' FSL, 1385' FEL, Unit O	29	17S	33E	8-12-72	O	4355'	11" 7 7/8"	8 5/8" 5 ½"	354' 4355'	200 435	2420', Calc	4244-4254' 4267-4278' 4281' 4285' 4286' 4294-4322'	2 7/8" @ 4248'		State B-2516

NAME	OPERATOR	LOCATION	SEC	TSHP	RG	COMPL DATE	TYPE	TD	HOLE SIZE	CSG SIZE	DEPTH SET	SX CMT	TOC	PERFS	TUBI/ PKR	COMMENTS	LEASE
Section 29 (Continued)																	
SMGSAU Tr 7 #7	Cities Service Oil Company	100' FSL, 1430' FEL, Unit O	29	17S	33E	11-26-72	P&A	4430'	11" 7 7/8"	8 5/8" 5 ½"	810' 4429'	350 435		4272-4284'	2 7/8" @ 4272	P&A 7-10-73 (See attached)	State B-2516
SMGSAU #710	Cross Timbers Operating Co.	1165' FSL, 2010' FEL, Unit O	29	17S	33E	6-4-96	WIW	4400'	12 ¼" 7 7/8"	8 5/8" 5 ½"	404' 4394'	250 850	52', Calc	4272-4324'	2 3/8" @ 4225'		State B-2516
SMGSAU #703	Cross Timbers Operating Co.	660' FSL, 990' FEL, Unit P	29	17S	33E	1-16-53	O	4340'	11" 7 7/8"	8 5/8" 5 ½"	1257' 4287'	550 300	2755', Calc		2"		State B-2516
SMGSAU #711	Cross Timbers Opeating Co.	1040' FSL, 330' FEL, Unit P	29	17S	33E	11-24-96	O	4405'	12 ¼" 7 7/8"	8 5/8" 5 ½"	407' 4404'	275 800	317', Calc	4299-4355'	2 3/8" @ 4311'		State B-2516
SMGSAU #712	Cross Timbers Opeating Co.	330' FSL, 330' FEL, Unit P	29	17S	33E	12-21-96	O	4500'	12 ¼" 7 7/8"	8 5/8" 5 ½"	405' 4499'	275 850	157', Calc	4301-71'	2 3/8" @ 4273'		State B-2516
SMGSAU #714	Cross Timbers Opeating Co.	1200' FSL, 900' FEL, Unit P	29	17S	33E	5-6-97	WIW	4450'	12 ¼" 7 7/8"	8 5/8" 5 ½"	383' 4450'	250 900	680', Calc	4282-4332'	2 3/8" @ 4191'		State B-2516
Township 17 South, Range 33 East																	
Section 32																	
SEMGSAU #902	Cross Timbers Opeating Co.	330' FNL, 990' FEL, Unit A	32	17S	33E	5-10-51	WIW	4313'	12 ¼" 7 7/8"	8 5/8" 5 ½"	1257' 4050'	50 100	1100', Calc	4264-4313'	2 3/8" @ 3966'		State B-5310-19
SMGSAU Tr 9 #4	Cities Service Oil Company	660' FNL, 660' FEL, Unit A	32	17S	33E	7-24-46	P&A	4306'		8 5/8" 7"	1300' 3943'	50 100		4025-87' 4170-4270' 4301-4306'		P&A 7-10-73 (See attached)	State B-5310-19
SEMGSAU #906	Cross Timbers Opeating Co.	1200' FNL, 950' FEL, Unit A	32	17S	33E	12-31-91	O	4545'	12 ¼" 7 7/8"	8 5/8" 5 ½"	307' 4545'	250 1300		4270-4374' 4448-60'	2 3/8" @ 4481'		State B-5310-19
SEMGSAU #908	Cross Timbers Opeating Co.	330' FNL, 330' FEL, Unit A	32	17S	33E	11-23-96	O	4450'	12 ¼" 7 7/8"	8 5/8" 5 ½"	415' 4417'	275 900		4261-4399'	2 3/8" @ 4175'		State B-5310-19
SEMGSAU #905	Cross Timbers Opeating Co.	1650' FNL, 330' FEL, Unit H	32	17S	33E	10-24-64	O	4476'	9 5/8" 8" 6 ¼"	8 5/8" 7" 4 ½"	1346' 3523' 4474'	50 50 50	3685', Calc	4298-4407'	2 7/8"		State B-5310-19
Township 17 South, Range 33 East																	
Section 33																	
CMU #103	The Wiser Oil Co.	660' FNL, 660' FEL, Unit A	33	17S	33E	12-6-57	O	4570'		8 5/8" 5 ½"	352" 4569"	150 767 + 350	1730', Calc	4420-30' 4440-64'	2" @ 4495'		Federal NM 801
CMU #102	The Wiser Oil Co.	330' FNL, 1650' FEL, Unit B	33	17S	33E	12-26-57	WIW	4560'		8 5/8" 5 ½"	328' 4559'	175 525 + 329 + 350	2010', Calc	4416-26' 4434-60'	2" @ 4451'	Converted to WIW 4-27-67.	Federal LC 060967
Phillips Federal #2	Zapata Petroleum Corp.	660' FNL, 1980' FEL, Unit B	33	17S	33E	11-25-57	P&A			8 5/8"	334'	175				P&A approx. 12-11-57 (See attached)	Federal LC 060967
CMU #285	The Wiser Oil Company	330' FNL, 2310' FEL, Unit B	33	17S	33E	1-30-98	O	4622'	12 ¼" 7 7/8"	8 5/8" 5 ½"	405' 4616'	300 1150		4421-67'	2 7/8" @ 4512'		Federal NM-801

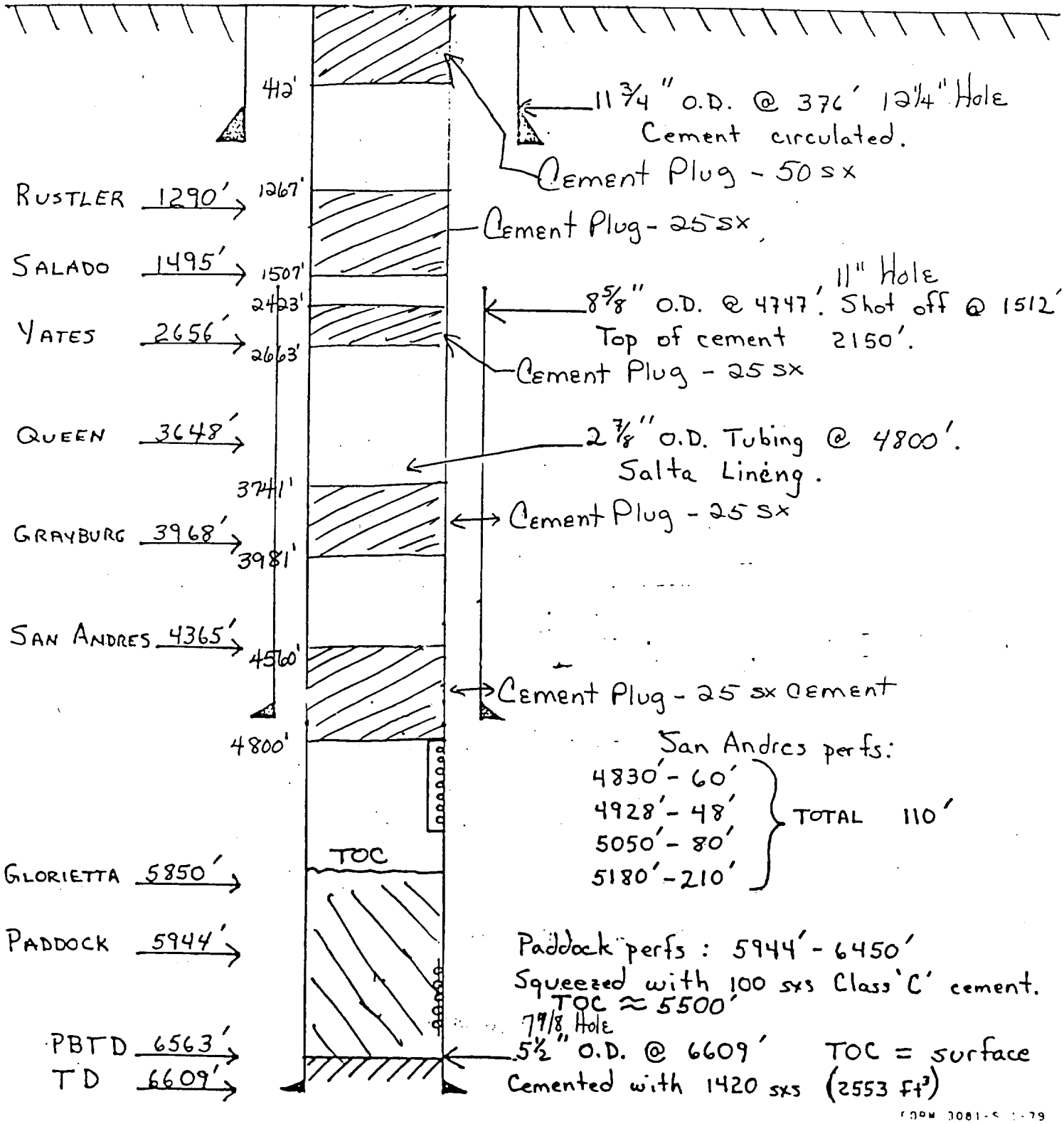
NAME	OPERATOR	LOCATION	SEC	TSHP	RG	COMPL DATE	TYPE	TD	HOLE SIZE	CSG SIZE	DEPTH SET	SX CMT	TOC	PERFS	TUBI/ PKR	COMMENTS	LEASE
Section 33 (Continued)																	
Phillips Federal #4	Pennzoil Company	990' FNL, 2310' FEL, Unit B	33	17S	33E	5-20-78	P&A	4490'	17 ½" 7 7/8"	12 ¾" 5 3/8"	355' 4490'	475 1200		4472-79' 4442-60' 4416-32'	2 3/8" @ 4250'	P&A 8-12-80 (See Attached)	Federal NM 801
Wyatt "A" Federal #1	Phillips Petroleum Co.	330' FNL, 2310' FWL, Unit C	33	17S	33E	3-26-62	O&G	4506'		11 ¾" 4 ½"	314' 4506'	250 1200		4377'	2 3/8" @ 4380'		Federal LC 060967
Wyatt "A" Federal #12	Phillips Petroleum Co.	660' FNL, 1980' FWL,, Unit C	33	17S	33E	1-15-56	O&G	4305'		8 5/8" 5 ½"	224.79 4188	50 600		Open Hole			Federal NM 801
Wyatt-Phillips Fed. #5	H.R. Denius, et al.	990' FNL, 1650' FWL, Unit C	33	17S	33E	1-28-55	P&A	4305'		8 5/8" 7" 4 ½"	1170' 1231' 4258'	166 50 100		None		P&A 11-2-59 (See attached)	Federal LC 060967C
SEMGSAU #4	Cross Timbers Operating Co.	330' FNL, 990' FWL, Unit D	33	17S	33E	6-1-97	O	4505'	12 ¼" 7 7/8"	8 5/8" 5 ½"	428' 4505'	250 850	163', Calc		2 3/8" @ 4239'		Federal NM-010388
SEMGSAU #1 (f/k/a U.S. Minerals #1)	Cross Timbers Operating Co.	990' FNL, 330' FWL, Unit D	33	17S	33E	9-5-53	O	4448'		7" 5 ½"	1427' 4278'	50 100			2"		Federal NM-010388
Cockburn Fed #1	Phillips Petroleum Company	990' FNL, 380' FWL, Unit D	33	17S	33E	4-5-61	P&A	8940'		13 3/8" 8 5/8"	309' 4557'	340 1900				P&A 2-12-85 (See attached)	Federal NM-010388
SEMGSAU #2 (f/k/a U.S. Minerals #2)	Cross Timbers Operating Co.	990' FNL, 990' FWL, Unit D	33	17S	33E	7-22-53	O&G	4452'		8 5/8" 7"	1305' 4104'	50 100			2"		Federal NM 010388
SEMGSAU #3 (f/k/a U.S. Minerals #3)	Cross Timbers Operating Co. P.O. Box 52070 Midland 79710-2070	380' FNL, 350' FWL, Unit D	33	17S	33E	5-2-96	O&G	4480'	12 ¼" 7 7/8"	8 5/8" 5 ½"	394' 4470'	250 950			2 3/8" @ 4429'		Federal NM 010388
Wyatt A Fed #3	Phillips Petroleum Co.	1650' FNL, 330' FWL, Unit E	33	17S	33E	6-18-52	P&A	4432'		7" 5 ½"	1318' 3718'	50 50		4270-4325' 4354-81'	2" @ 4175'	P&A 12-22-92 (See attached)	Federal NM-801
Wyatt A Fed #13	Phillips Petroleum Co.	1980' FNL, 660' FWL, Unit E	33	17S	33E	1-17-88	O	4582'	NR 8 ¾"	10" 7"	20' 3995'	5 1150	1220'	3695-3720' 3995-4327'	2 3/8" @ 4263'	Commingled Queen & Grayburg-San Andres per Order #DHC-662	Federal NM-801
Wyatt "A" Federal #4	Phillips Petroleum Co.	1650' FNL, 1650' FWL, Unit F	33	17S	33E	12-21-52	WIW	3735'		8 5/8" 7"	1350' 3675'	50 100		None	2" @ 3635'	Converted to WIW 11-28-83.	Federal NM 801
Wyatt A Federal #10	Phillips Petroleum Company	1650' FNL, 1650' FEL, Unit G	33	17S	33E	4-1-55	O&G	4400'		8 5/8" 7" 5 ½"	1398' 3756' 4358'	50 100 50		4261-4312'	2 3/8" @ 4296		Federal NM-801

PHILLIPS PETROLEUM COMPANY

PHILMEX WELL NO. 14

Maljamar Grayburg - San Andres Pool, Lea County, New Mexico

P+A 4/95

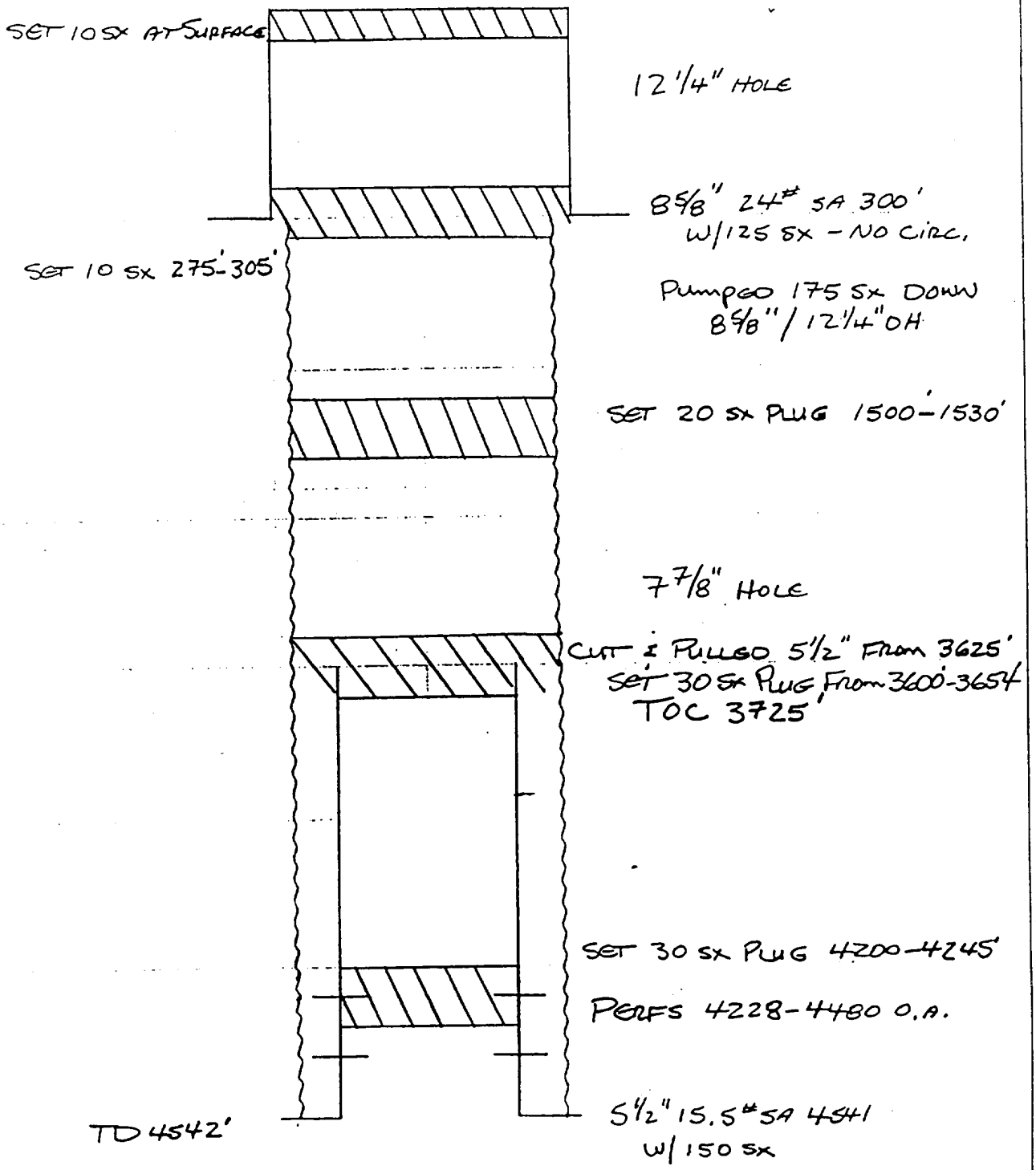


FORM 3081-S 1-79

Phillips State #9

28"0"-17S-32E

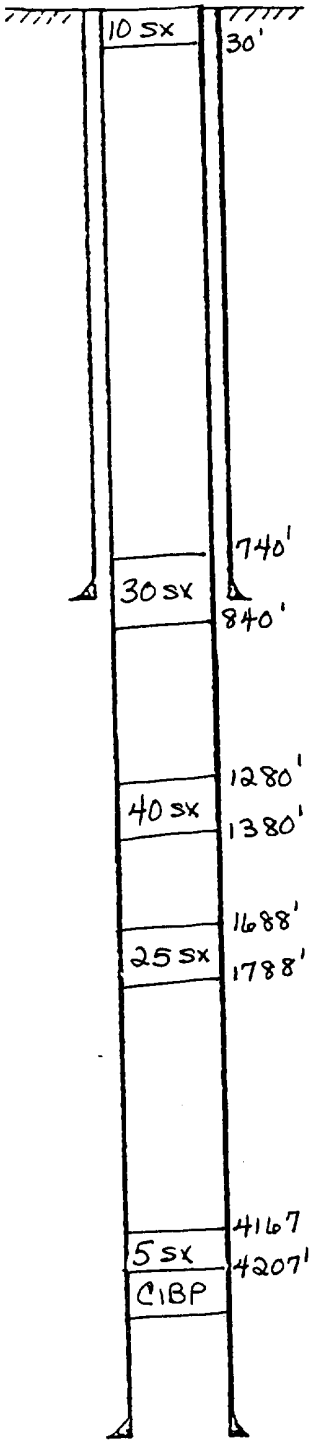
12/12/57



P & A 3/58

6/29/94

OPERATOR			DATE
Cities Service Oil Company			7-10-73
LEASE	WELL No.	LOCATION	
SMGSAU Tr. 7	#7	100' FSL, 1430' FEL, Unit O Sec. 29, 17S-33E	



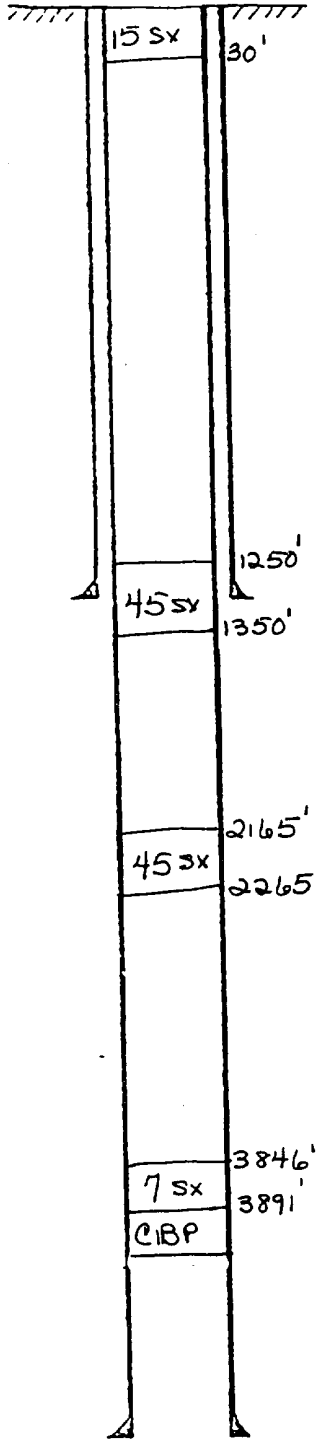
8 5/8" casing set at 810' with 350 sx of _____ cem

Hole size 11"

5 1/2" casing set at 4429' with 435 sx of _____ ce

Total Depth 4430' Hole size 7 7/8"

OPERATOR Cities Service Oil Company		DATE 7-10-73
LEASE SMGSAU Tr. 9	WELL No. #4	LOCATION 660' FNL, 660' FEL, Unit A, Sec. 32, 17S-33E



8 5/8 " casing set at 1300 ' with 50 sx of _____ cem

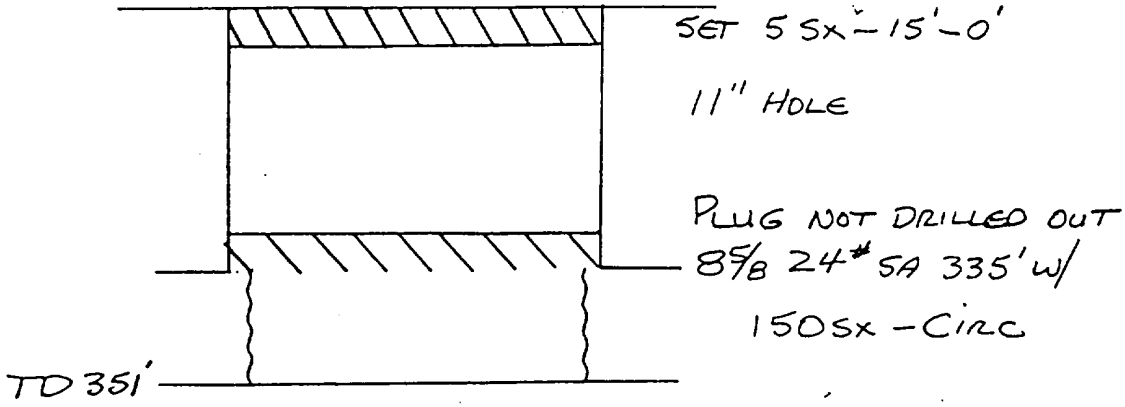
Hole size unknown"

7 " casing set at 3943 ' with 100 sx of _____ cer

Total Depth 4306 ' Hole size Unknown"

ZAPATA • PHILLIPS FED'L #2

33"B" – 175 – 33E



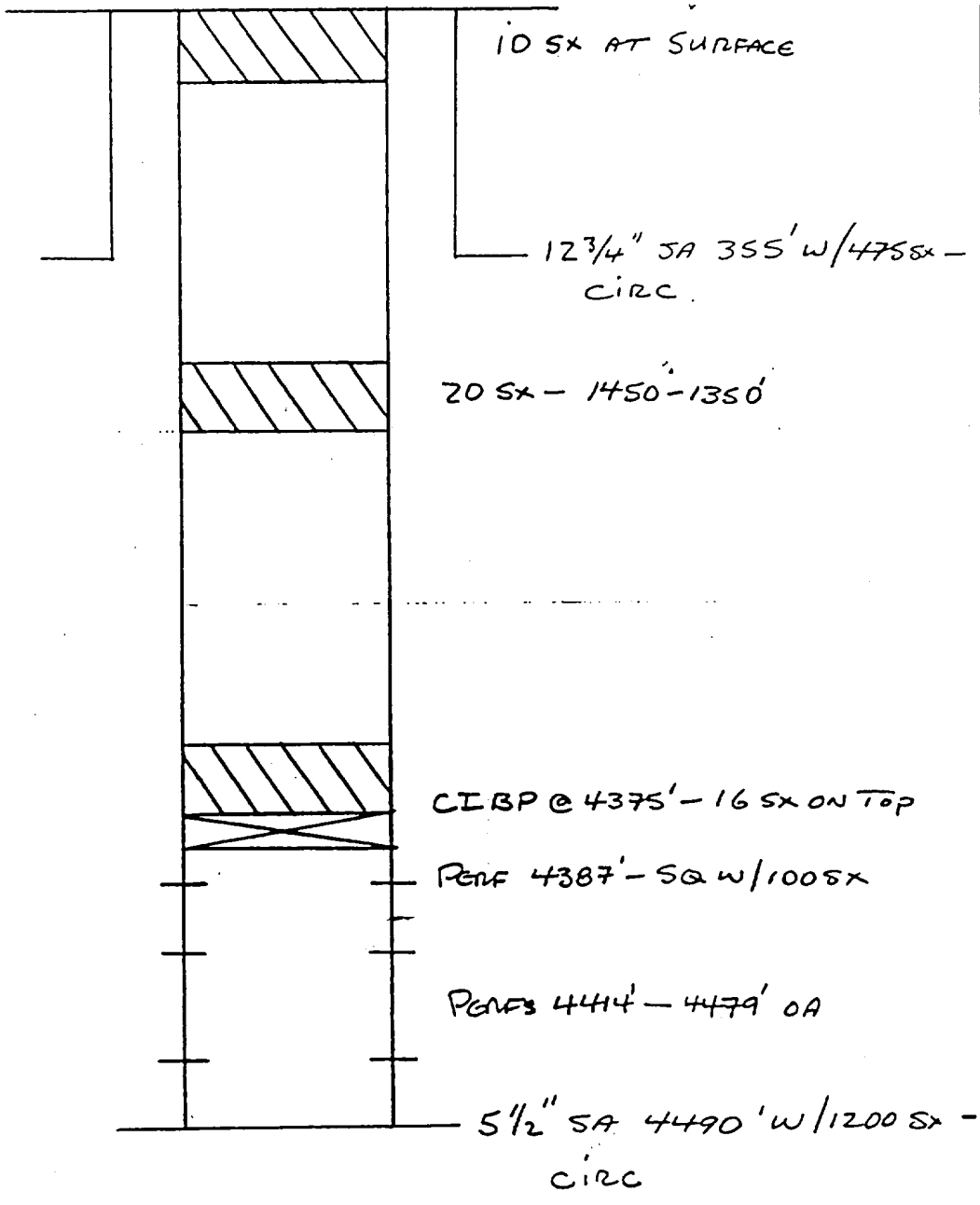
P & A 1/20/58

7/15/94

PENNZOIL PHILLIPS FED'L #4

33"B"-175-33E

5/20/78



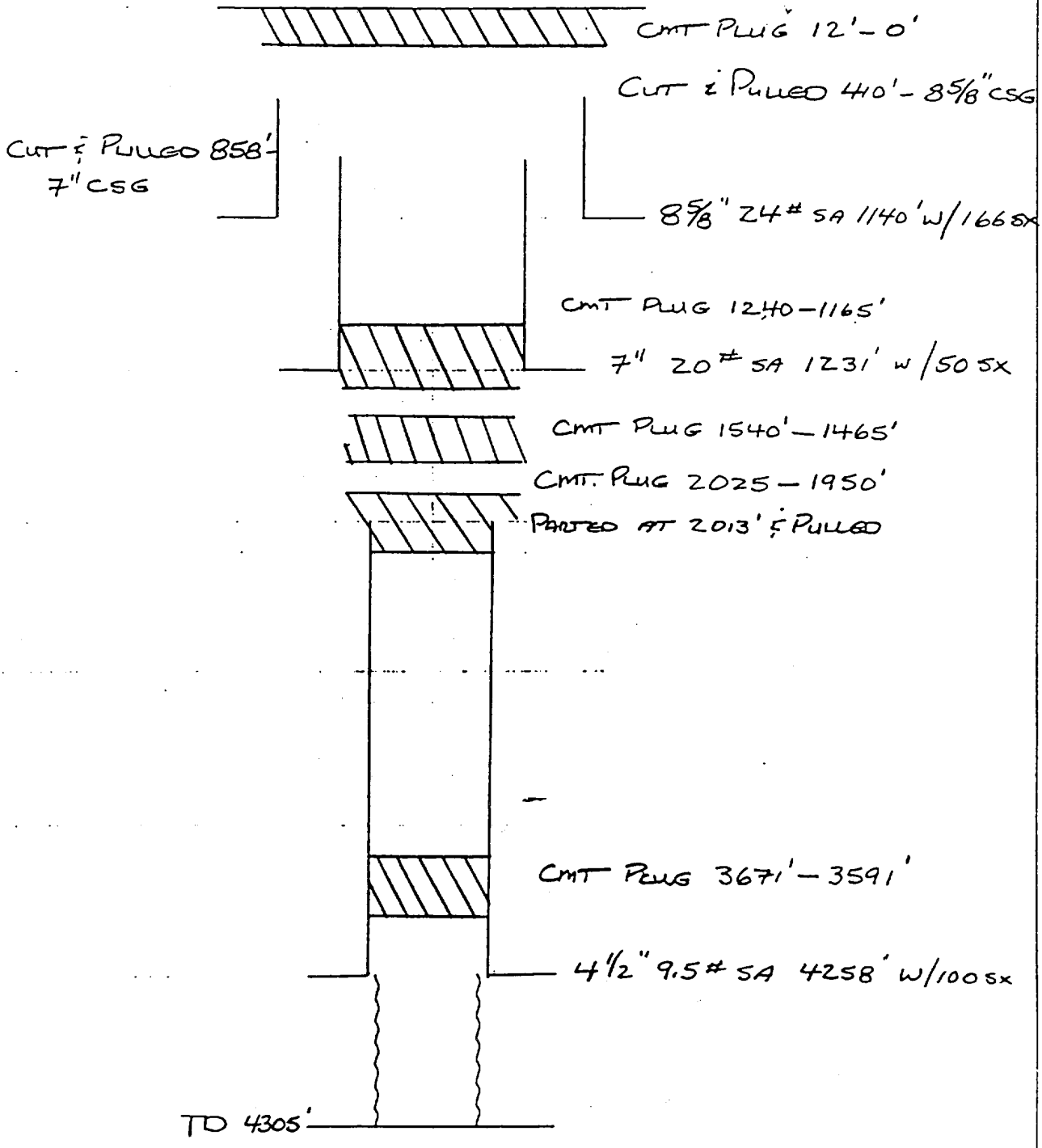
P&A 8/12/80

N 7/5/94

DENIUS WYATT PHILLIPS FED #5

33"C" – 175 – 33E

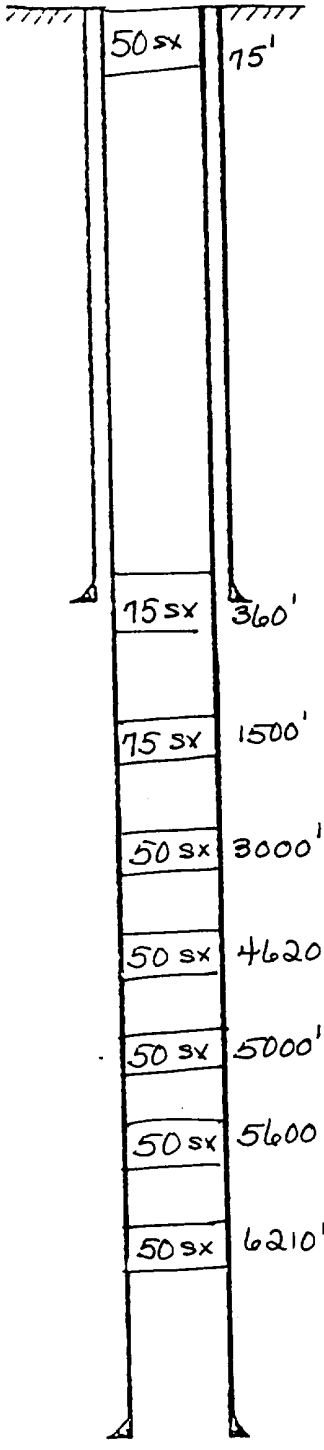
1/28/55



P&A 11/24/59

H 7/5/94

OPERATOR		DATE
Phillips Petroleum Company		2-12-85
LEASE	WELL No.	LOCATION
Cockburn Federal	#1	990' FNL, 380' FWL, Unit D, Sec. 33, 17S-33E



13 3/8" casing set at 309' with 340 sx of _____ cem

Hole size Unknown"

8 5/8" casing set at 4557' with 1900 sx of _____ cer

Total Depth 8940' Hole size Unknown"

CMU (Produced) Water

Exhibit VII A-1

Permian Treating Chemicals

WATER ANALYSIS REPORT

SAMPLE

Oil Co. : Wiser Oil Co.
Lease : CMU Battery 'A'
Well No.: Water Transfer Pump
Salesman:

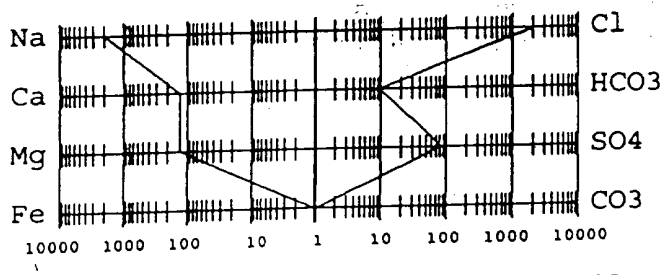
Sample Loc. :
Date Reported: 30-May-1996
Date Sampled : 30-May-1996

ANALYSIS

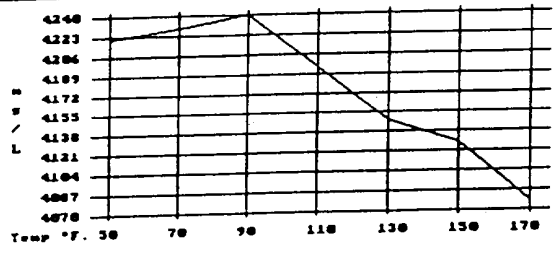
1.	pH		6.900		
2.	Specific Gravity 60/60 F.		1.092		
3.	$CaCO_3$ Saturation Index	@ 80 F.	+0.459		
		@ 140 F.	+1.339		

			MG/L	EQ. WT.	*MEQ/L
Dissolved Gasses					
4.	Hydrogen Sulfide		60		
5.	Carbon Dioxide		130		
6.	Dissolved Oxygen		0.4		
Cations					
7.	Calcium	(Ca^{++})	2,505	/ 20.1 =	124.63
8.	Magnesium	(Mg^{++})	1,520	/ 12.2 =	124.59
9.	Sodium	(Na^{+}) (Calculated)	44,953	/ 23.0 =	1,954.48
10.	Barium	(Ba^{++})	Not Determined		
Anions					
11.	Hydroxyl	(OH^{-})	0	/ 17.0 =	0.00
12.	Carbonate	($CO_3^{=}$)	0	/ 30.0 =	0.00
13.	Bicarbonate	(HCO_3^{-})	561	/ 61.1 =	9.18
14.	Sulfate	($SO_4^{=}$)	3,900	/ 48.8 =	79.92
15.	Chloride	(Cl^{-})	74,983	/ 35.5 =	2,112.20
16.	Total Dissolved Solids		128,422		
17.	Total Iron (Fe)		1	/ 18.2 =	0.05
18.	Total Hardness As $CaCO_3$		12,511		
19.	Resistivity @ 75 F. (Calculated)		0.060 /cm.		

LOGARITHMIC WATER PATTERN
*meq/L.



Calcium Sulfate Solubility Profile



PROBABLE MINERAL COMPOSITION

COMPOUND	EQ. WT.	X *meq/L	= mg/L.
$Ca(HCO_3)_2$	81.04	9.18	744
$CaSO_4$	68.07	79.92	5,440
$CaCl_2$	55.50	35.53	1,972
$Mg(HCO_3)_2$	73.17	0.00	0
$MgSO_4$	60.19	0.00	0
$MgCL_2$	47.62	124.59	5,933
$NaHCO_3$	84.00	0.00	0
$NaSO_4$	71.03	0.00	0
NaCl	58.46	1,952.08	114,119

*Milli Equivalents per Liter

This water is slightly corrosive due to the pH observed on analysis. The corrosivity is increased by the content of mineral salts, and the presence of H2S, CO2, Oxygen in solution.

CMU PROJECT WATER Exhibit VII-A-2

Permian Treating Chemicals

WATER ANALYSIS REPORT

SAMPLE

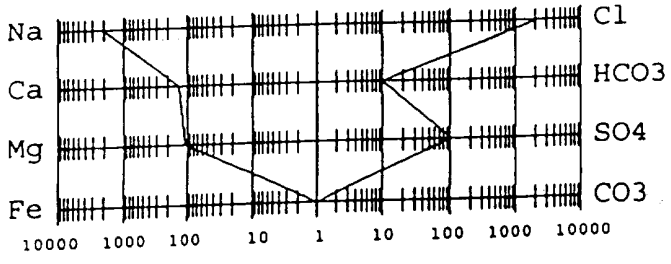
Oil Co. : Wiser Oil Co.
Lease : CMU Battery 'B'
Well No.: Water Transfer Pump
Salesman:

Sample Loc. :
Date Reported: 30-May-1996
Date Sampled : 30-May-1996

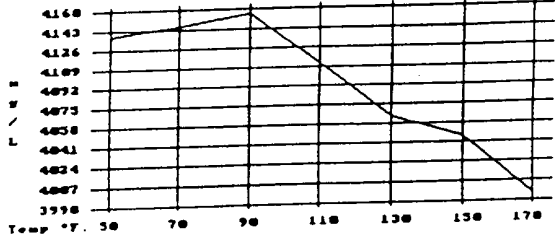
ANALYSIS

1.	pH		6.500		
2.	Specific Gravity 60/60 F.		1.091		
3.	$CaCO_3$ Saturation Index	@ 80 F.	+0.095		
		@ 140 F.	+0.975		
			MG/L	EQ. WT.	*MEQ/L
	Dissolved Gasses				
4.	Hydrogen Sulfide		60		
5.	Carbon Dioxide		150		
6.	Dissolved Oxygen		0.6		
	Cations				
7.	Calcium	(Ca^{++})	2,605	/ 20.1 =	129.60
8.	Magnesium	(Mg^{++})	1,276	/ 12.2 =	104.59
9.	Sodium	(Na^{+}) (Calculated)	45,740	/ 23.0 =	1,988.70
10.	Barium	(Ba^{++})	Not Determined		
	Anions				
11.	Hydroxyl	(OH^{-})	0	/ 17.0 =	0.00
12.	Carbonate	($CO_3^{=}$)	0	/ 30.0 =	0.00
13.	Bicarbonate	(HCO_3^{-})	586	/ 61.1 =	9.59
14.	Sulfate	($SO_4^{=}$)	4,800	/ 48.8 =	98.36
15.	Chloride	(Cl^{-})	74,983	/ 35.5 =	2,112.20
16.	Total Dissolved Solids		129,990		
17.	Total Iron (Fe)		2	/ 18.2 =	0.08
18.	Total Hardness As $CaCO_3$		11,760		
19.	Resistivity @ 75 F. (Calculated)		0.059 /cm.		

LOGARITHMIC WATER PATTERN
*meq/L.



Calcium Sulfate Solubility Profile



PROBABLE MINERAL COMPOSITION

COMPOUND	EQ. WT.	X *meq/L =	mg/L
$Ca(HCO_3)_2$	81.04	9.59	77
$CaSO_4$	68.07	98.36	6,69
$CaCl_2$	55.50	21.65	1,20
$Mg(HCO_3)_2$	73.17	0.00	
$MgSO_4$	60.19	0.00	
$MgCL_2$	47.62	104.59	4,98
$NaHCO_3$	84.00	0.00	
$NaSO_4$	71.03	0.00	
NaCl	58.46	1,985.96	116,09

*Milli Equivalents per Liter

This water is slightly corrosive due to the pH observed on analysis.
The corrosivity is increased by the content of mineral salts, and the presence of H_2S, CO_2, Oxygen in solution.

DUPK EAGLE FE SH (CYPRESS) WATER

Exhibit VII-B

Permian Treating Chemicals

WATER ANALYSIS REPORT

SAMPLE

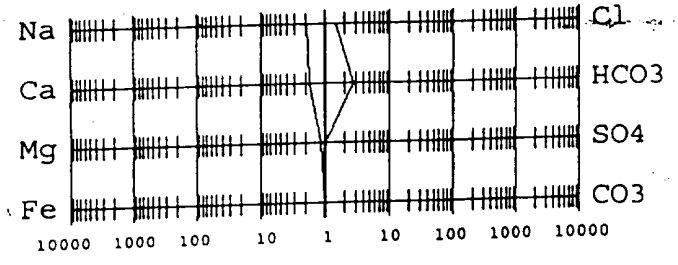
Oil Co. : Wiser Oil Co.
Lease : North Plant
Well No. : Fresh Water
Salesman:

Sample Loc. :
Formation : 06-June-1996
Date Analyzed: 06-June-1996

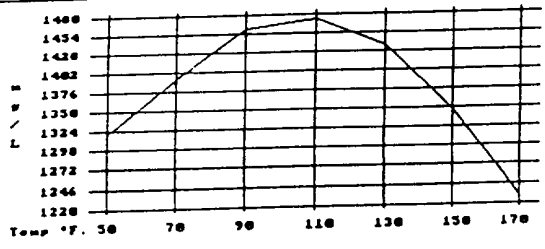
ANALYSIS

1.	pH		7.760		
2.	Specific Gravity 60/60 F.		1.008		
3.	$CaCO_3$ Saturation Index	@ 80 F.	+0.429		
		@ 140 F.	+1.029		
			MG/L	EQ. WT.	*MEQ/L
	Dissolved Gasses				
4.	Hydrogen Sulfide		Not Present		
5.	Carbon Dioxide		Not Determined		
6.	Dissolved Oxygen		Not Determined		
	Cations				
7.	Calcium	(Ca^{++})	33	/ 20.1 =	1.64
8.	Magnesium	(Mg^{++})	13	/ 12.2 =	1.07
9.	Sodium	(Na^{+}) (Calculated)	42	/ 23.0 =	1.83
10.	Barium	(Ba^{++})	Below 10	(1)	
	Anions				
11.	Hydroxyl	(OH^{-})	0	/ 17.0 =	0.00
12.	Carbonate	($CO_3^{=}$)	0	/ 30.0 =	0.00
13.	Bicarbonate	(HCO_3^{-})	161	/ 61.1 =	2.64
14.	Sulfate	($SO_4^{=}$)	23	/ 48.8 =	0.47
15.	Chloride	(Cl^{-})	50	/ 35.5 =	1.41
16.	Total Dissolved Solids		322		
17.	Total Iron (Fe)		1	/ 18.2 =	0.05
18.	Total Hardness As $CaCO_3$		138		
19.	Resistivity @ 75 F. (Calculated)		2.310 /cm.		

LOGARITHMIC WATER PATTERN
***meq/L.**



Calcium Sulfate Solubility Profile



PROBABLE MINERAL COMPOSITION			
COMPOUND	EQ. WT.	X *meq/L =	mg/L.
$Ca(HCO_3)_2$	81.04	1.64	133
$CaSO_4$	68.07	0.00	0
$CaCl_2$	55.50	0.00	0
$Mg(HCO_3)_2$	73.17	0.99	73
$MgSO_4$	60.19	0.07	4
$MgCL_2$	47.62	0.00	0
$NaHCO_3$	84.00	0.00	0
$NaSO_4$	71.03	0.40	28
NaCl	58.46	1.41	82

***Milli Equivalents per Liter**

This water is mildly corrosive due to the pH observed on analysis.
The corrosivity is increased by the content of mineral salts in solution.

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VIII. GEOLOGICAL DATA

The proposed injection interval is in the Grayburg-San Andres formations at depths of 3900 to 5500 feet. The Grayburg formation primarily consists of quartz sands with dolomitic cementation; while, the San Andres formation primarily consists of dolomite with intermingled stringers of quartz sand with dolomitic cementation. The surface formation is Cretaceous and has no known sources of drinking water. The Ogallala aquifer and the Caprock overlies the northeastern portion of the Unit Area; while there are no known sources of drinking water underlying the injection interval.

Attached, as Exhibits VIII-A and VIII-B, are two Type Logs illustrating geology, lithology, thickness, and depths.

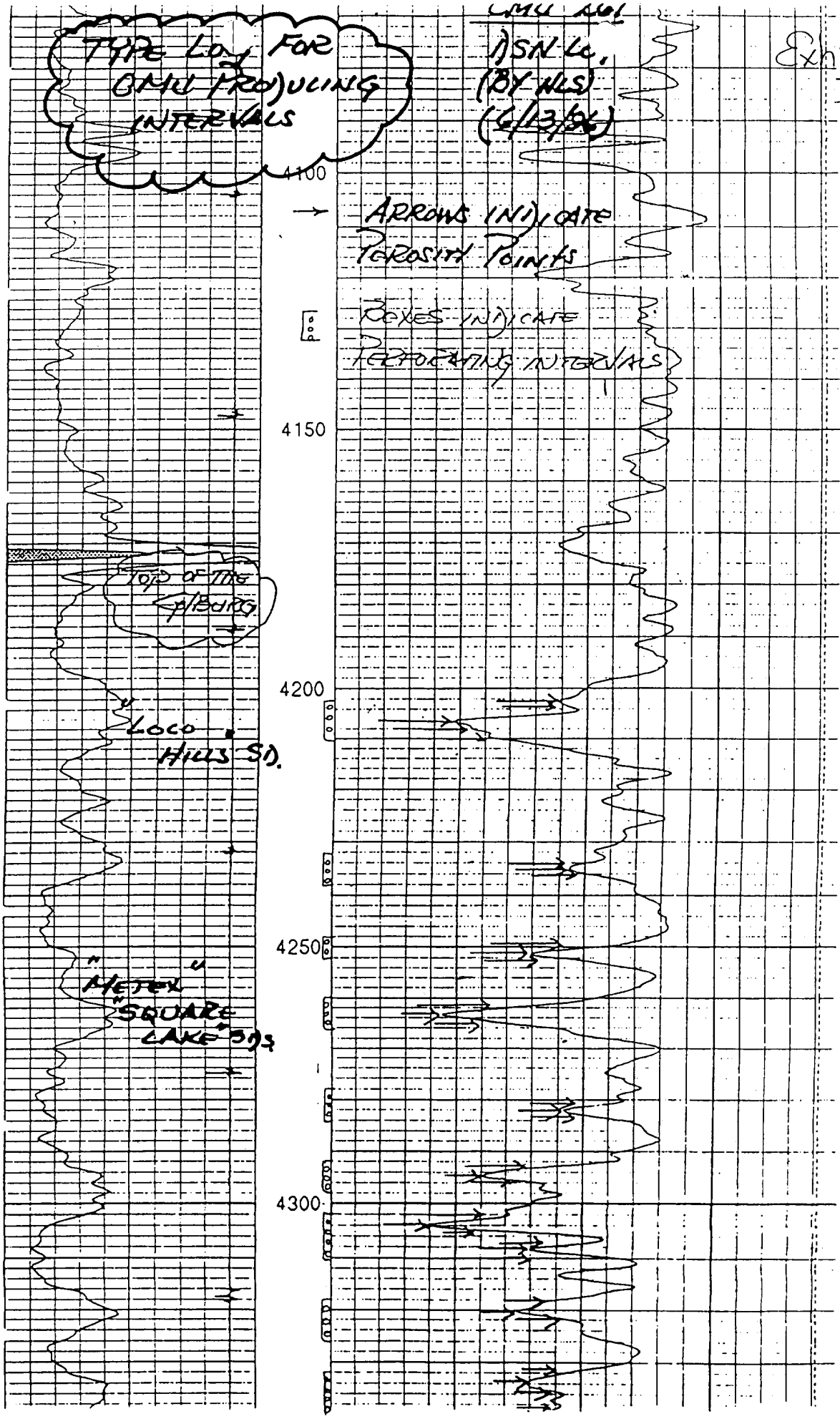
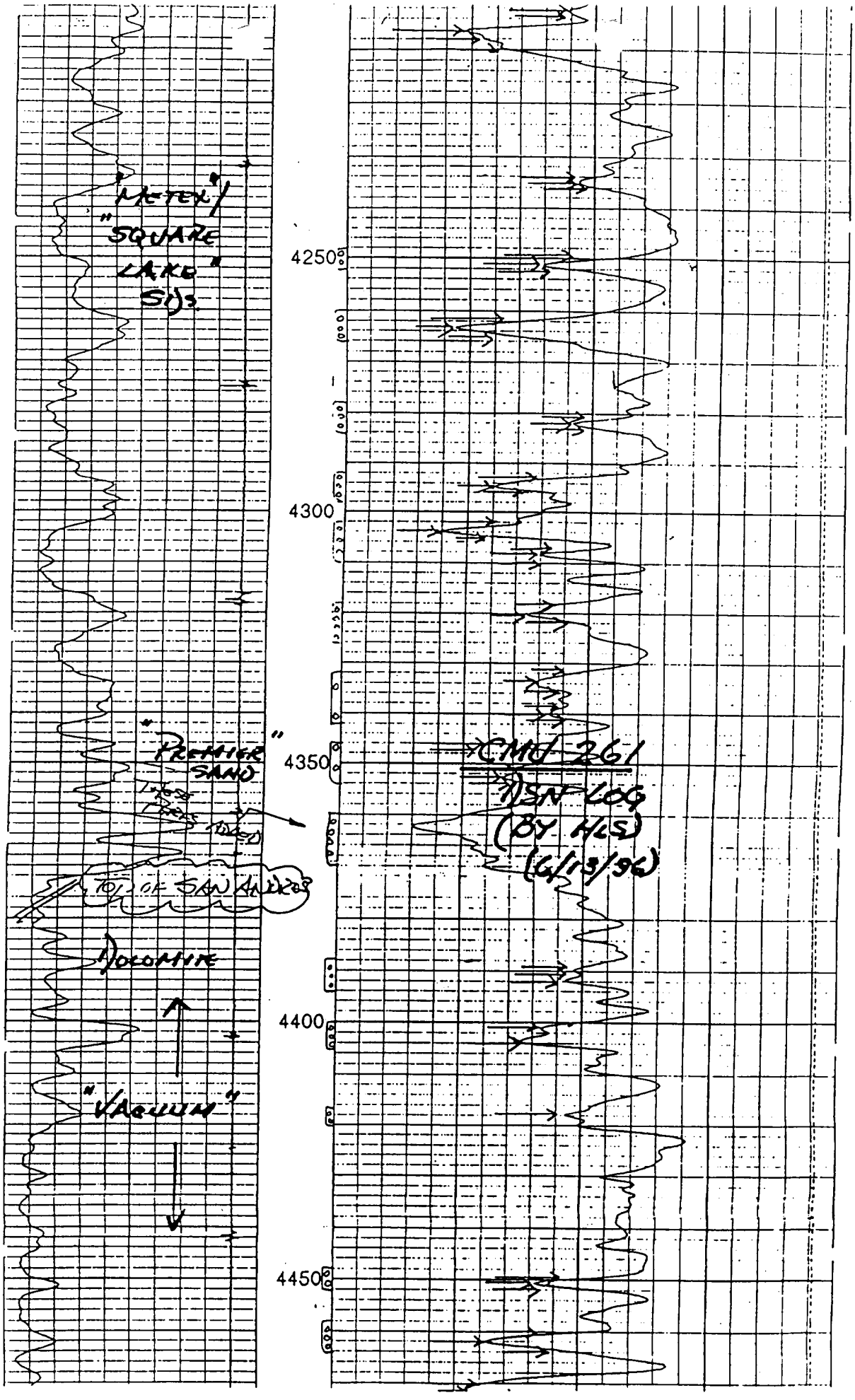
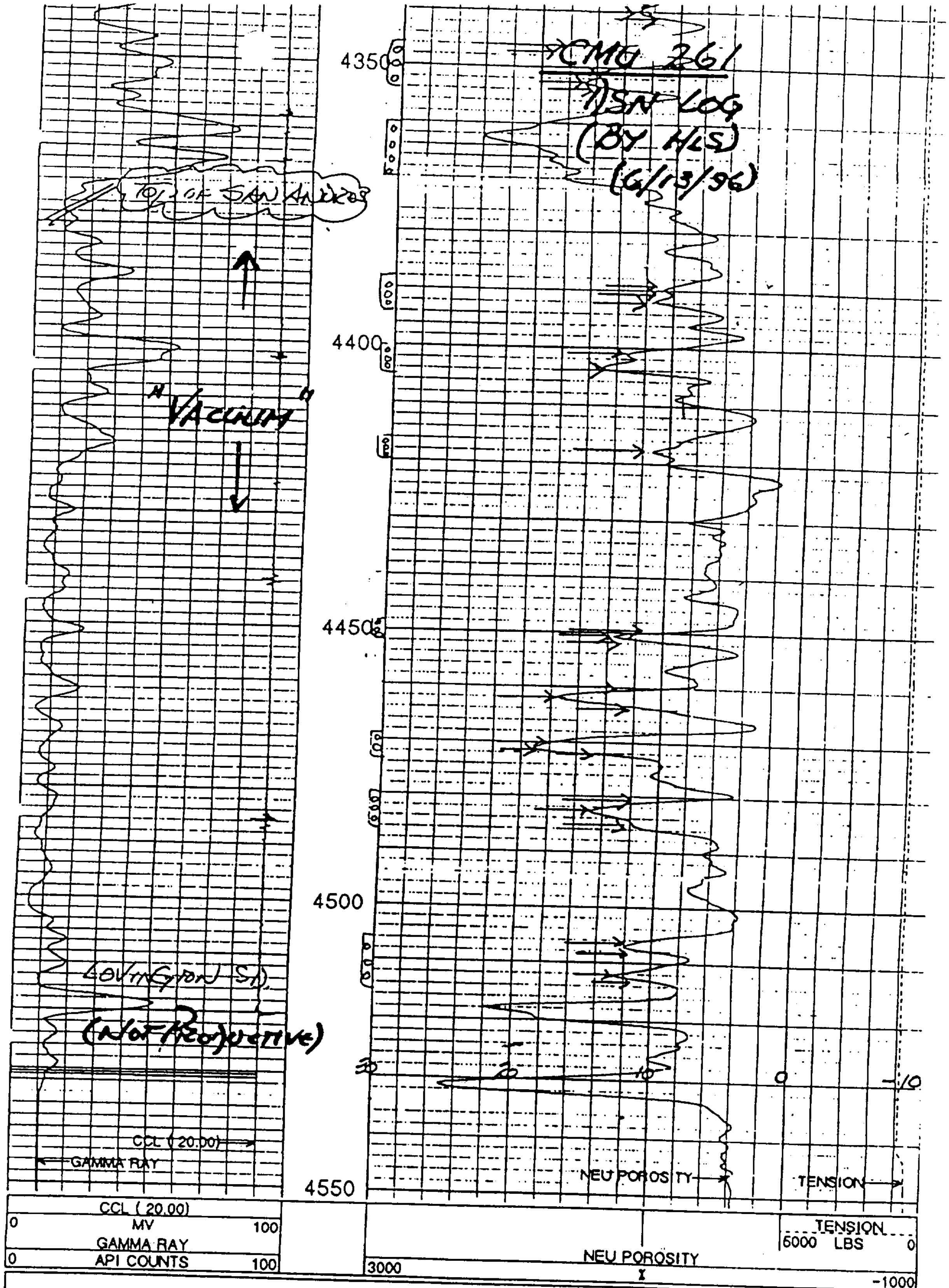


Exhibit VIII-A


"MATEX"
"SQUARE LAKE" SDS.
4250
4300
"PREMIER" SAND
4350
CMG 261
DSN LOG
(BY HLS)
(6/13/96)
TOP OF SAN ANDRES
DOLOMITE
4400
"VACUUM"
4450



HALLIBURTON

Version No: 2.00 / hc2.0

Data File: 0613_1554_r0411.5.cls

Control File: plot_01_1.apc

Raster File: 0613_1554_r0411.plot_01_1

Top Depth: ——

Bottom Depth: 4551.75

Database Time: 06-13-96 16.03.41

TYPE LOG FOR CMU SHOWING Exhibit VIII-B

FORMATION TOPS

TYPE LOG

HALLIBURTON

GAMMA COLLAR

DSN

COMP. : WISER OIL COMPANY INC.
WELL : CMU #168
FIELD : MALJAMAR GRAYBURG
COUNTY: LEA ST. N.M.

COMPANY WISER OIL COMPANY INC.

WELL CMU #168

FIELD MALJAMAR GRAYBURG SAN ANDRES

COUNTY LEA STATE N.M.

API NO. 30-025-32927

LOCATION :
48'FSL & 157' FWL
UNIT LETTER M

SEC. 18 TWP. 17-S RGE. 33-E

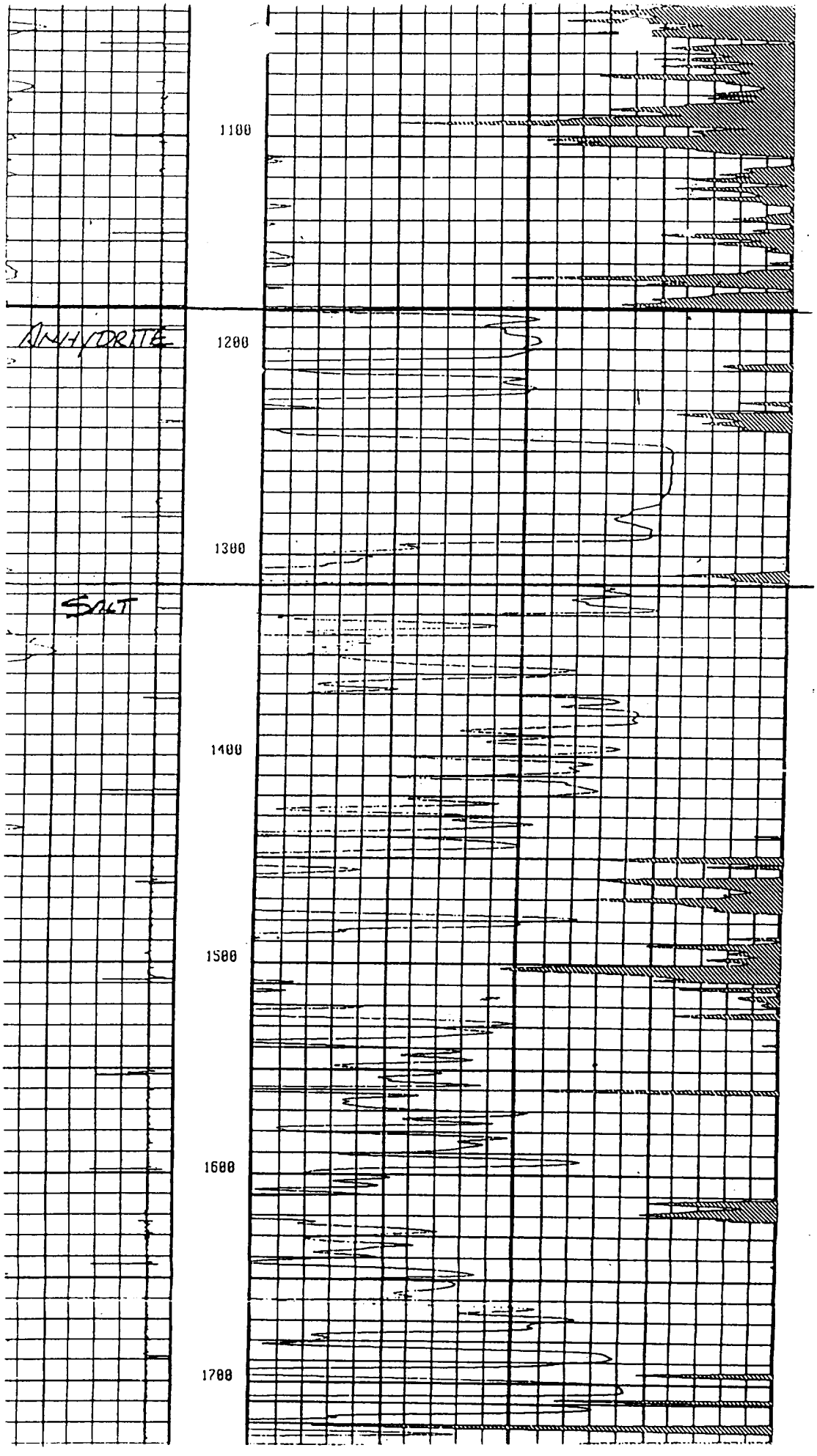
OTHER SERVICES
CBL,PERF.

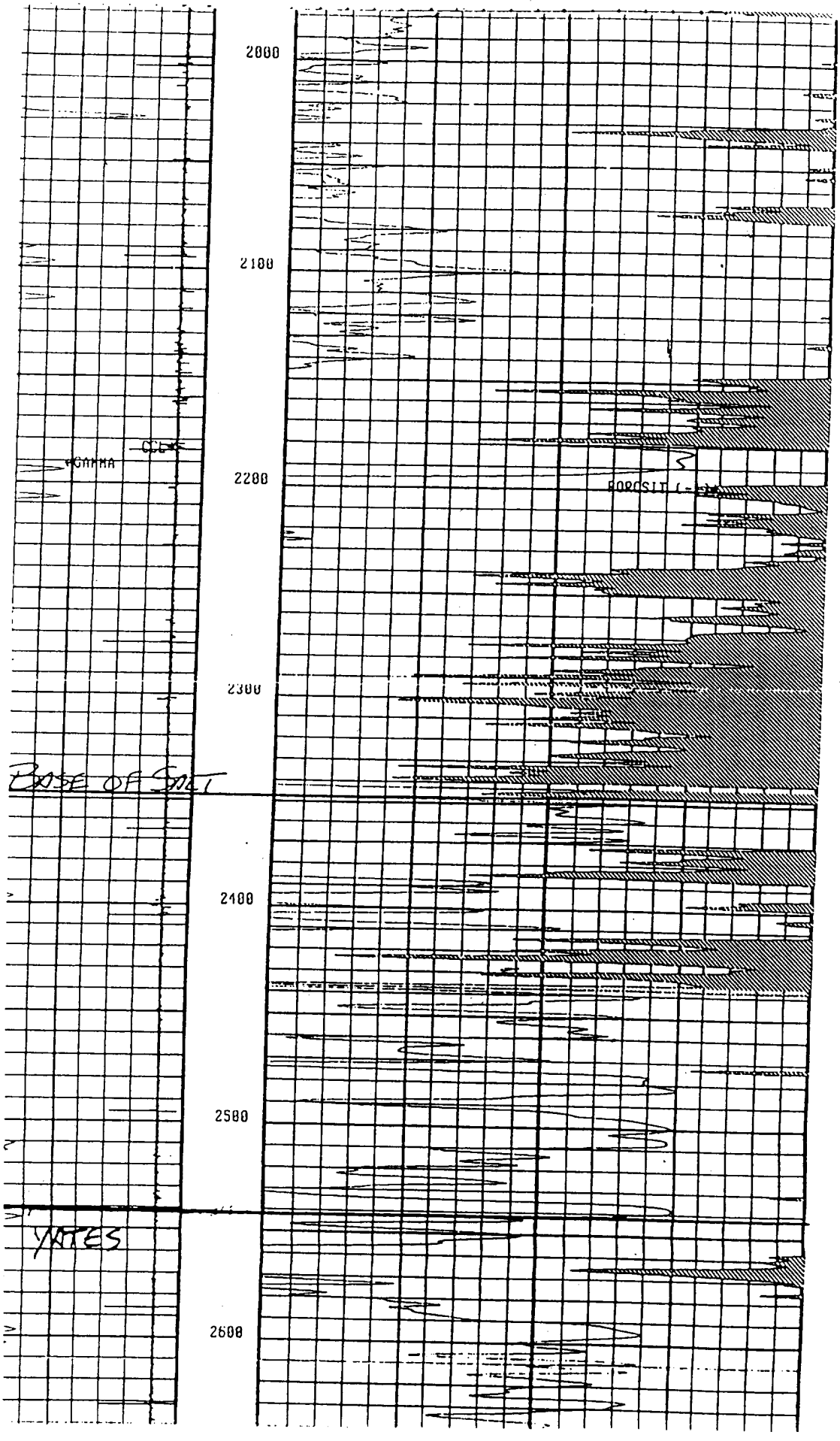
PERMANENT DATUM	GL	ELEV. 4137'		ELEV.: K.B. 4148'
LOG MEASURED FROM	KB	12.0 FT. ABOVE PERM. DATUM		D.F.
DRILLING MEAS FROM	KB			G.L. 4137'

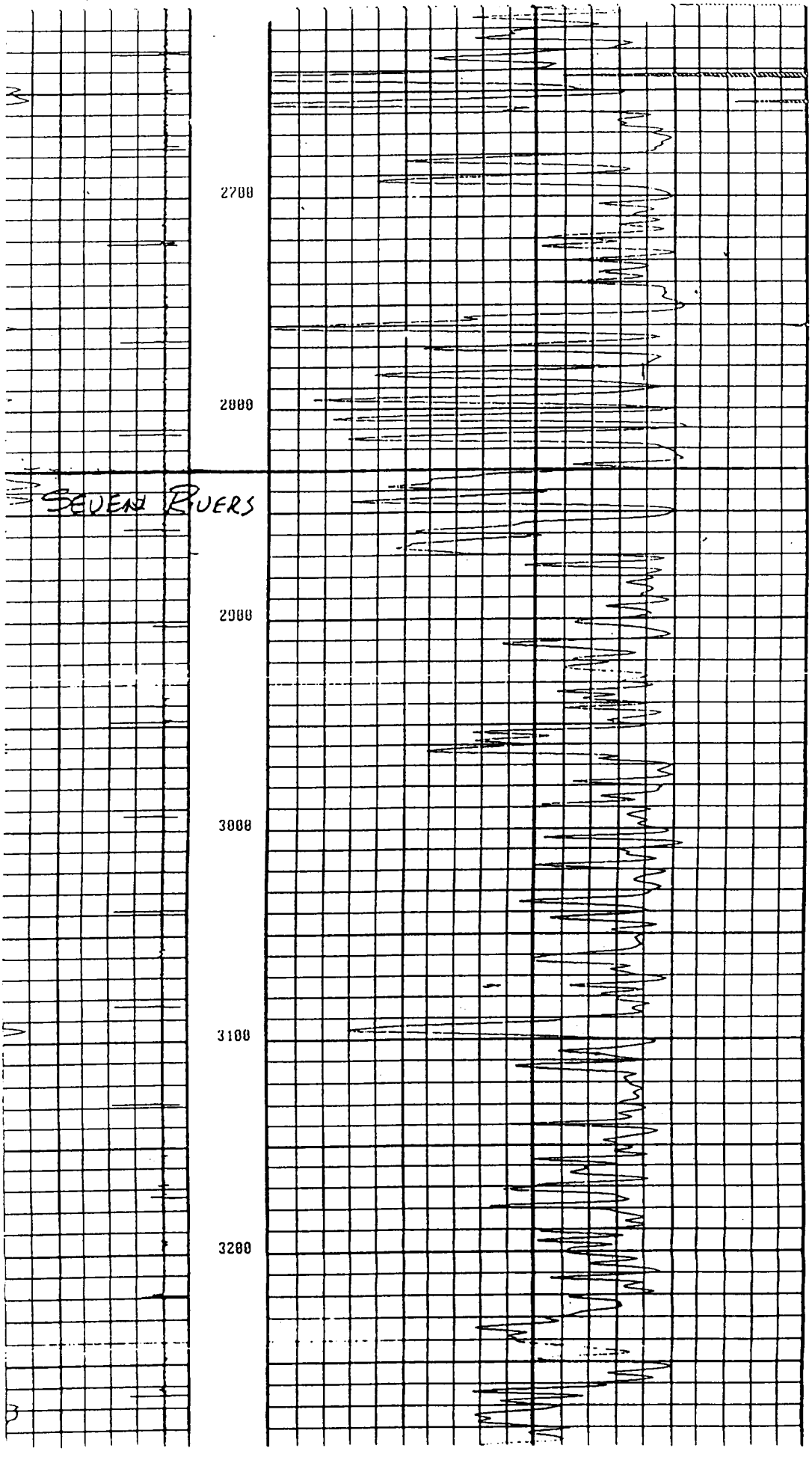
DATE & TIME LOGGED	12/08/95 @ 00:00	TYPE OF FLUID IN HOLE	WATER
RUN No.	ONE	DENSITY OF FLUID	NA
DEPTH - DRILLER	4850	FLUID LEVEL	FULL
DEPTH - LOGGER	4788	CEMENT TOP EST/LOGGED	NA
BTM LOGGED INTERVAL	4787	EQUIPMENT : LOCATION	7634 : HOBBS
TOP LOGGED INTERVAL	SURF	RECORDED BY	HILL
MAX RECORDED TEMP.	NA	WITNESSED BY	MR. G. NEATON

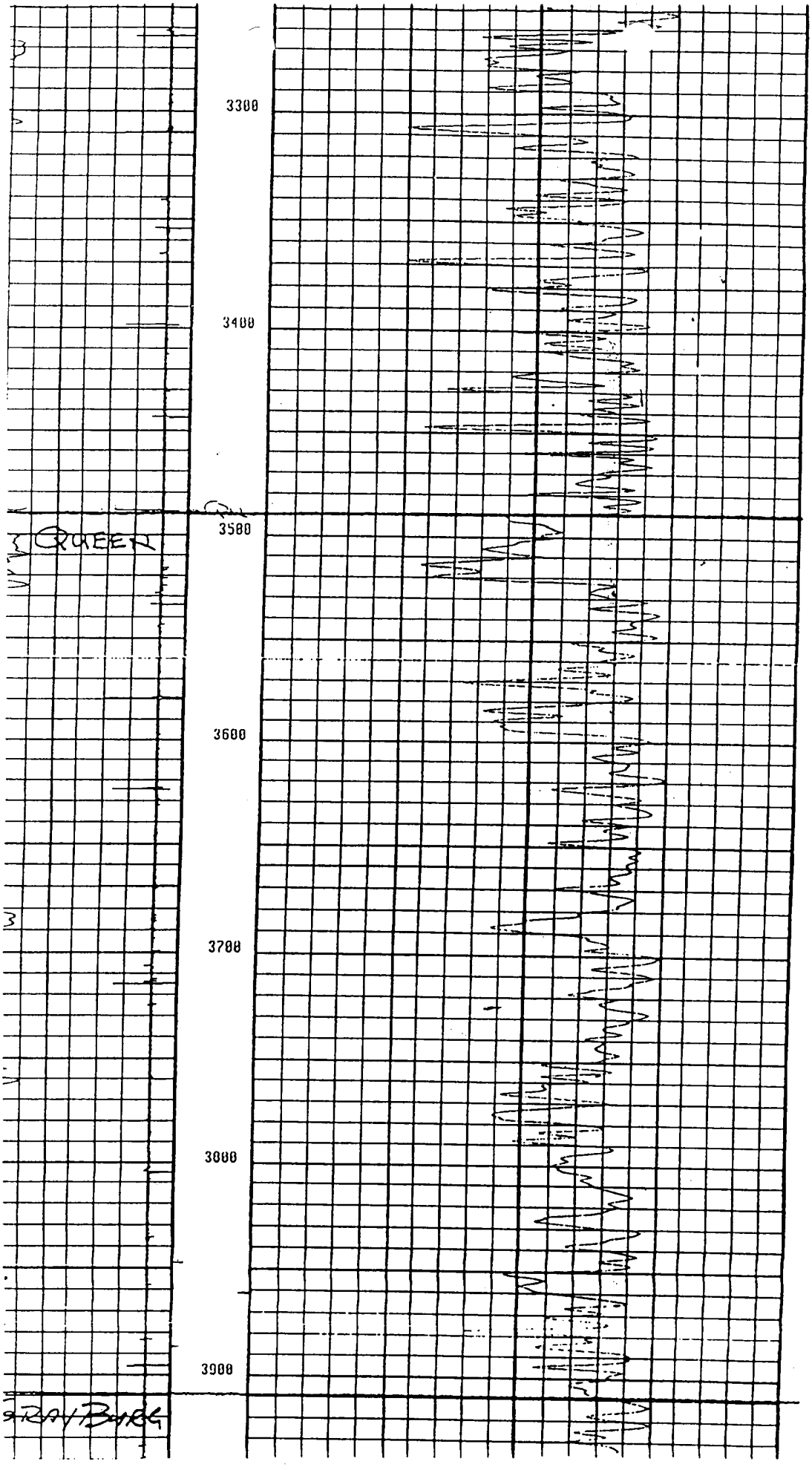
CEMENTING DATA	SURF. STRING	INT.STRING	PROD.STRING	LINER
DATE/TIME CEMENTED	/ .	/ .	/ .	/ .
PRIMARY/SQUEEZE				
COMPRESSIVE STR. EXPECTED @	: Hrs	: Hrs	: Hrs	: Hrs
CEMENT VOLUME				
CEMENT TYPE/WEIGHT				
MUD TYPE/MUD WGT.				
FORMULATION				

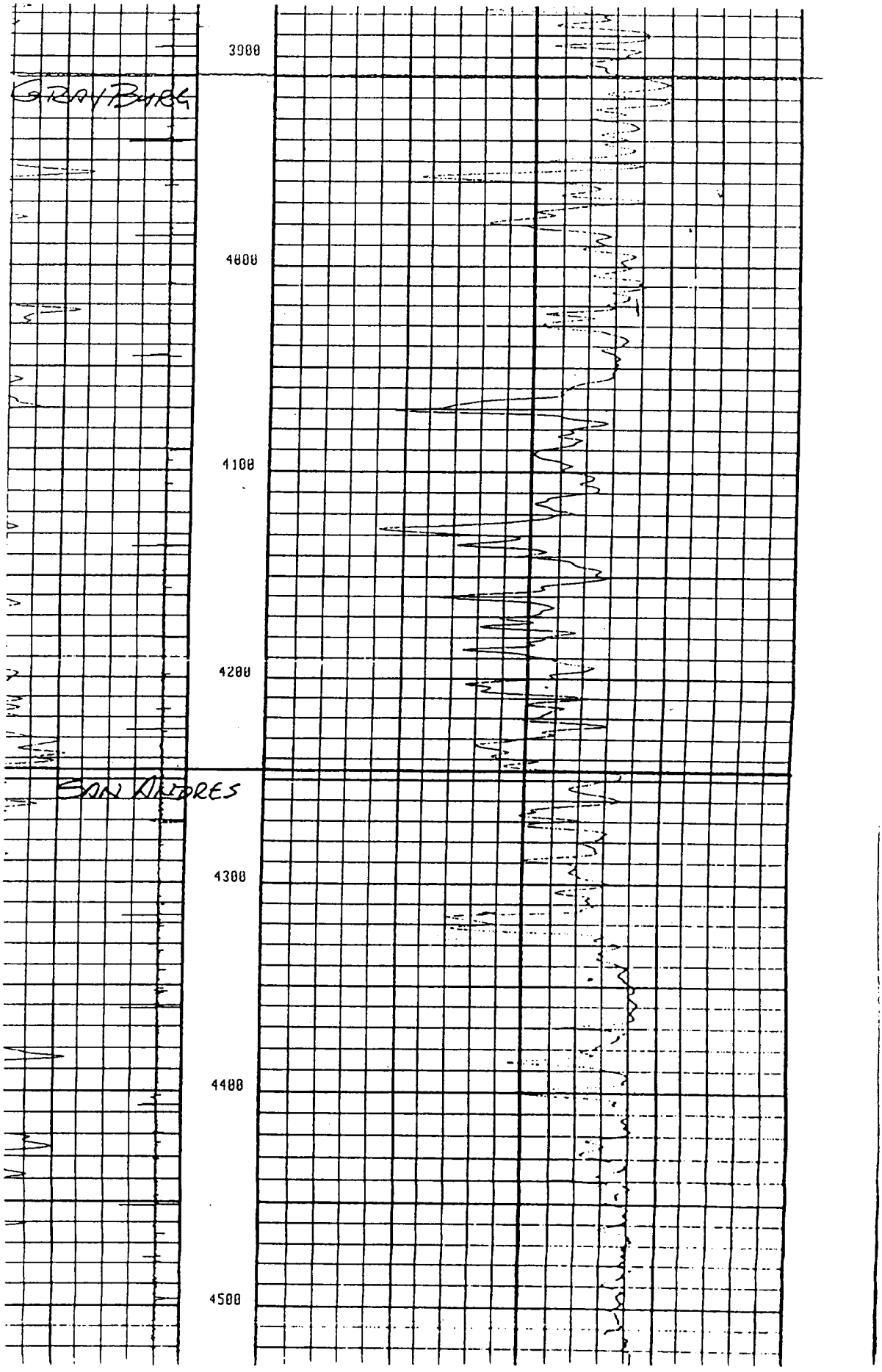
RUN	BOREHOLE RECORD			CASING AND TUBING RECORD			
No.	BIT SZ.	FROM	TO	SIZE	WGT.	FROM	TO
ONE				8.625	NA	0	1200
TWO	7.875	1200	4850	5.5	17.0	0	4850


1100
ANHYDRITE
1200
1300
SALT
1400
1500
1600
1700


2000
2100
GAMMA
2200
POROSITY
2300
BASE OF SALT
2400
2500
YATES
2600


2700
2800
SEVEN RIVERS
2900
3000
3100
3200


3300
3400
QUEEN
3500
3600
3700
3800
3900


3900
GRAYBURG
4000
4100
4200
SAN ANDRES
4300
4400
4500

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IX. PROPOSED STIMULATION PROGRAM

Acid breakdown jobs will be done if new perforations are added. When treating old perforations, acid "wash" treatment will be done to remove scales and flow-back solids at formation face.

X. LOGGING DATA

The available logs are those on file with the Oil Conservation Division from the original operators of the wells.

XI. FRESH WATER WELLS

Information on fresh water wells in the area as recorded in the office of the State Engineer was previously submitted. None of these wells are still active or productive.

XII. Not applicable

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XIII. PROOF OF NOTICE

Copies of this C-108 Application have been mailed to the surface owners and to each leasehold operator within one-half mile of the proposed injection wells as identified on the mailing list attached as Exhibit XIII-A. An Affidavit of such notice is attached as Exhibit VIII-B. Copies of the certified receipts will be furnished upon request. The notice attached as Exhibit VIII-C is being published in the Hobbs News Sun. An Affidavit of Publication will be forwarded as soon as available.

EXHIBIT XIII-A

MAILING LIST

Surface Owners:

Mr. Hershel Caviness
General Delivery
Causey, New Mexico 88113

Mrs. Janice Caviness
P. O. Box 25
Maljamar, New Mexico 88264

Offset Well Operators:

Phillips Petroleum Company
4001 Penbrook Street
Odessa, Texas 79762

Cross Timbers Oil Co., LP
P. O. Box 52070
Midland, Texas 79710

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

Pennzoil Petroleum Company
2402 West Wadley
Midland, Texas 79705

Mr. Homer Denius
Address Unknown

Offset Leasehold Operators:

Chase Oil Corporation
P. O. Box 276
Artesia, New Mexico 88210

Mr. & Mrs. Johnny &
Maggie S. Cockburn
Address Unknown

Cross Timbers Oil Co., LP
P. O. Box 52070
Midland, Texas 79710

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

Phillips Petroleum Company
4001 Penbrook Street
Odessa, Texas 79762

Southwest Developmental
Drilling Fund 1993 LP
P. O. Box 11390
Midland, Texas 79702

Petrus Energy Company
P. O. Box 820101
Houston, Texas 77282-0101

Mr. C. W. Chancellor
Address Unknown

EXHIBIT VIII-B

AFFIDAVIT OF MAILING

STATE OF NEW MEXICO
COUNTY OF CHAVES | SS.

I, Bonita L. Limpus Jones, do solemnly swear that a copy of this Application has been mailed by certified mail, to each of the interested parties listed on Exhibit XIII-A.

Bonita L. Limpus Jones
Consulting Landman with J. O. Easley, Inc.
on behalf of The Wiser Oil Company

SWORN AND SUBSCRIBED TO before me this 30th day of September, 1998.

My Commission Expires:
1-30-99

Notary Public

EXHIBIT VIII-C

NOTICE TO BE PUBLISHED IN THE HOBBS DAILY NEWS-SUN
ON WEDNESDAY, SEPTEMBER 30, 1998

PROPOSED INJECTION WELLS

The Wiser Oil Company proposes to expand its Caprock Maljamar Unit and inject water into 2 wells in Section 28, T17S-R33E, Lea County, New Mexico, to provide injection service for the existing Caprock Maljamar Unit Waterflood, Order No. R-10094. The zones to be injected into are Grayburg and San Andres from 3900' to 5500', with a maximum injection rate of 250 BWPD/well at a maximum pressure of 920 psi. Any interested parties with objection or request for hearing should notify the New Mexico Oil Conservation Division at P. O. Box 2088, Santa Fe, New Mexico 87501, within 15 days of this notice. Any questions should be directed to Mike Jones with The Wiser Oil Company, at P. O. Box 2568, Hobbs, New Mexico 88241, 505-392-9797.