WFX 3/28/97
715

J.O. EASLEY, INC.

ESTABLISHED 1979

P.O. Box 245 88211-0245
119 South Roselawn, Suite 302
Artesia, New Mexico 88210

Telephone (505) 746-1070
Fax (505) 746-1073

March 12, 1997

Mr. David Catanach
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Re: C-108
Maljamar Grayburg Waterflood Unit
Lea County, New Mexico

Dear Mr. Catanach:

Enclosed is an original and one copy of the C-108 for 2 new injection wells within The Wiser Oil Company's Maljamar Grayburg Waterflood Unit.

If you have any questions, please feel free to give me a call at 505-624-9677.

Sincerely,

J. O. EASLEY, INC.

Bonita L. Limpus Jones
Consulting Landman

/bj
Enclosures
cc/enclosure Mr. Jerry Sexton
New Mexico Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88241

Mr. Mike Jones
The Wiser Oil Company
P. O. Box 2568
Hobbs, New Mexico 88241

Mr. Matt Eagleston
The Wiser Oil Company
8115 Preston Road, Suite 400
Dallas, Texas 75225

CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: [illegible] Well: [illegible] - 2 wells

Contact: [illegible] Title: [illegible] Phone: 505-624-7617

DATE IN 5-19-97 RELEASE DATE 5-20-97 DATE OUT 5-20-97

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

Original Order: R- 1552 ___ Secondary Recovery ___ Pressure Maintenance

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

___ WIPP ___ Capitan Reef

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

AREA of REVIEW WELLS

26 Total # of AOR 1 # of Plugged Wells

Yes Tabulation Complete Yes Schematics of P & A's

Yes Cement Tops Adequate No AOR Repair Required

INJECTION FORMATION

Injection Formation(s) [illegible] Compatible Analysis Yes

Source of Water or Injectate [illegible]

PROOF of NOTICE

Yes Copy of Legal Notice ___ Information Printed Correctly

Yes Correct Operators ___ Copies of Certified Mail Receipts

No Objection Received N/A Set to Hearing _____ Date

NOTES: _____

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL? Yes

COMMUNICATION WITH CONTACT PERSON:

1st Contact: ___ Telephoned ___ Letter _____ Date Nature of ~~of Discussion~~

2nd Contact: ___ Telephoned ___ Letter _____ Date Nature of ~~of Discussion~~

3rd Contact: ___ Telephoned ___ Letter _____ Date Nature of ~~of Discussion~~

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-1538 Maljamar Grayburg 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, CPL DATE: 3-12-97

* 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.

C-108
APPLICATION FOR AUTHORIZATION TO INJECT

MALJAMAR GRAYBURG UNIT

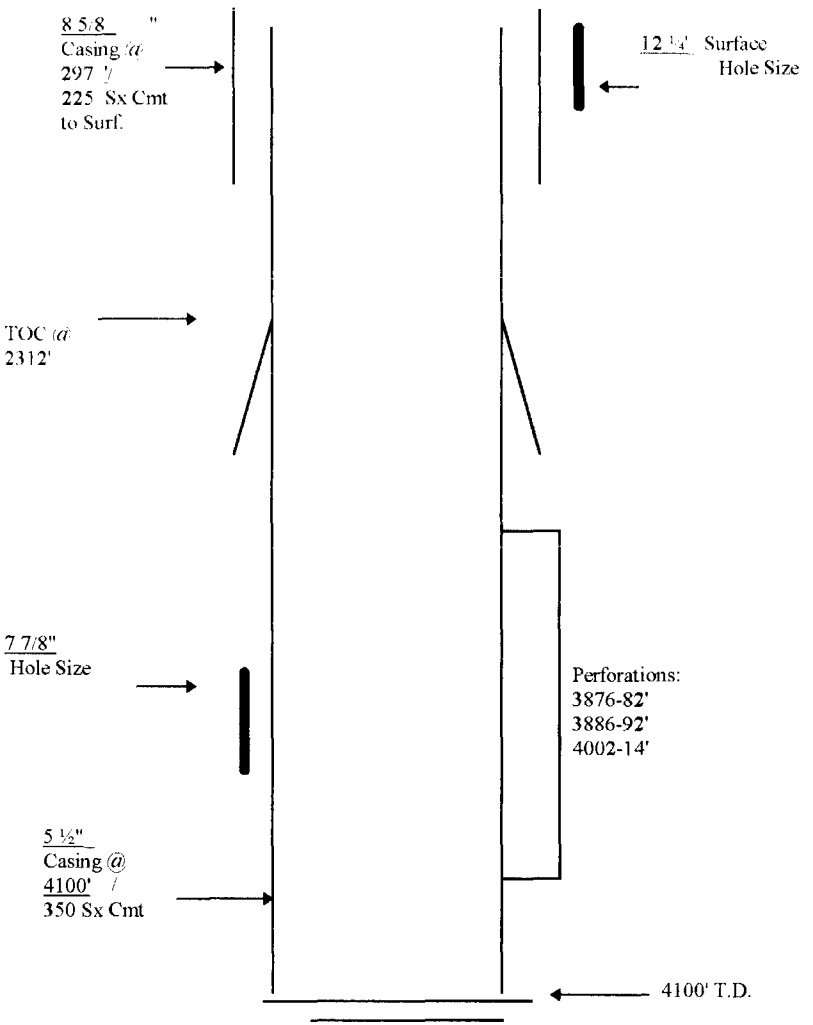
III. WELL DATA

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 Co.	LEASE	Maljamar Grayburg Unit		
WELL NO.	#63	660' FSL, 1980' FEL, Unit O	10	17S	32E
		FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic



Well Construction Data

Surface Casing Set @ 297'
Size 8 5/8 " Cemented with 225 sx.
TOC Surface feet determined by _____
Hole Size 12 ¼ "

Intermediate Casing
Size _____ " Cemented with _____ sx.
TOC _____ feet determined by _____
Hole Size _____ "

Long String Set @ 4100'
Size 5 ½ " Cemented with 350 sx.
TOC 2312 feet determined by Calculation
Hole Size 7 7/8 "
Total Depth 4100 '

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

Tubing Size 2 3/8" lined with _____ set in a
(type of internal coating)
_____ packer at 3954 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 - TA
   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) Maljamar Grayburg San Andres
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 3876-82', 3886-92', 4002-14'
5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area. _____

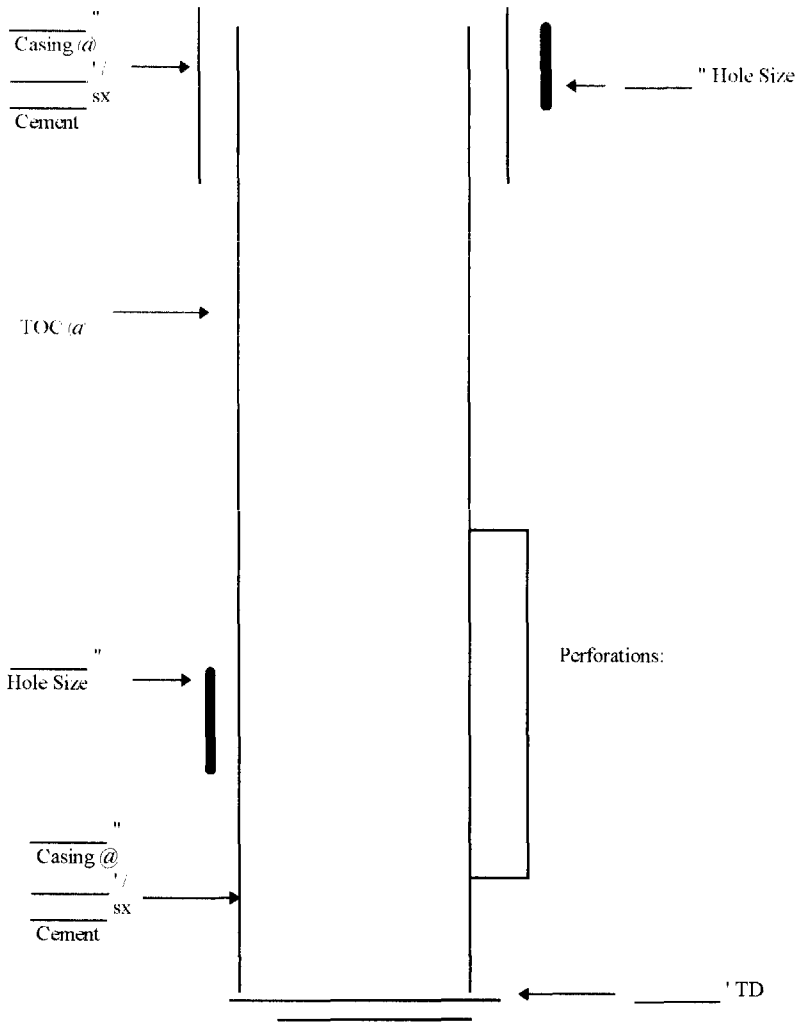
INJECTION WELL DATA SHEET

ERATOR The Wiser Oil Co. LEASE Maljamar Grayburg Unit

LL NO. #155 (Drilling is Pending) (Replaces MGBU | 1880' FNL, 2080' FWL, Unit F | 10 | 17S | 32E

FOOTAGE LOCATION | SECTION | TOWNSHIP | RANGE

Schematic



Well Construction Data

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

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

Long String Set @
Size " Cemented with sx.
TOC feet determined by
Hole Size "
Total Depth '

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

Tubing Size lined with set in a
(type of internal coating)
packer at feet
Other type of tubing / casing seal if applicable

Other Data

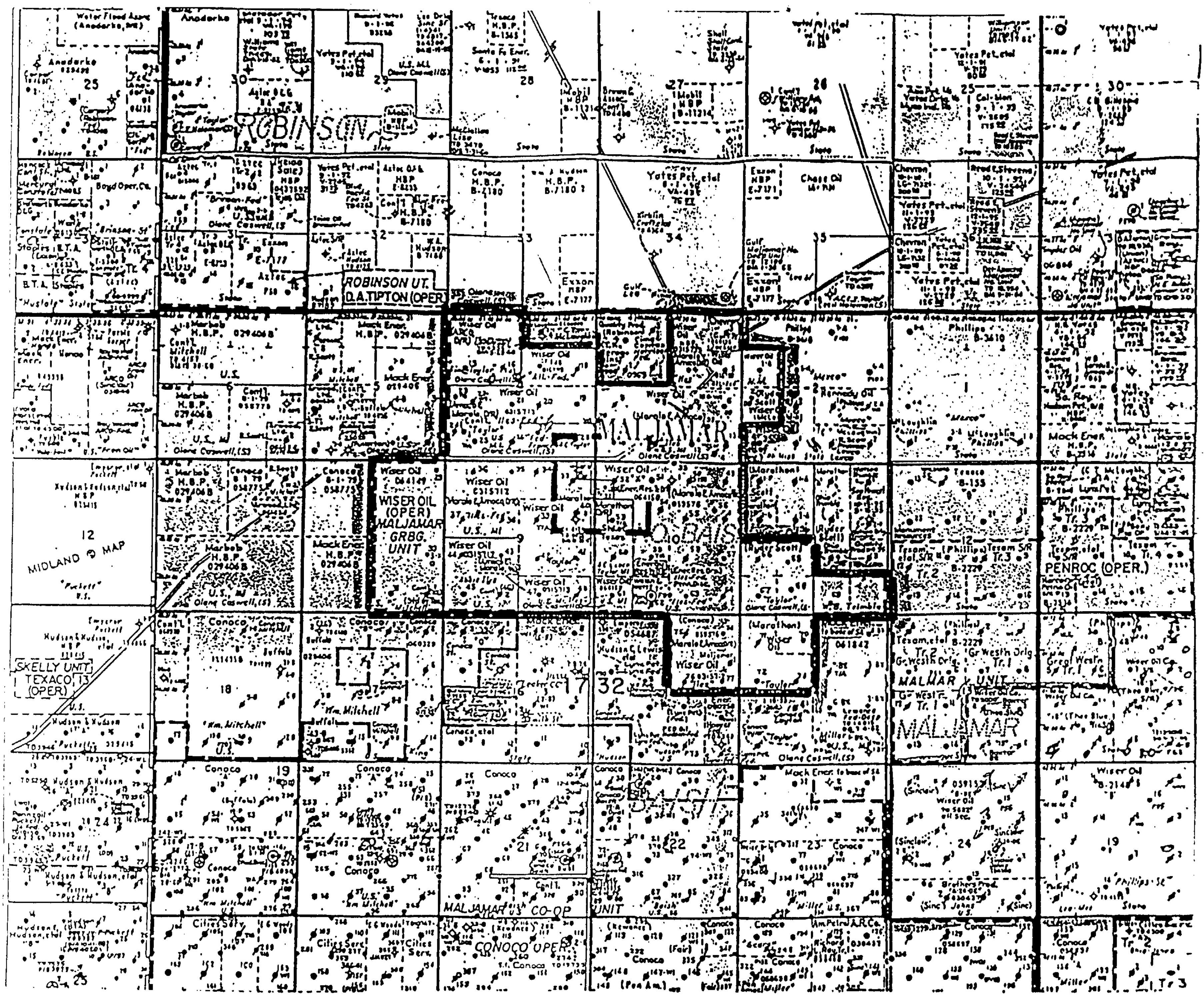
1. Is this a new well drilled for injection? X Yes ____ No
   If no, for what purpose was the well originally drilled?
   Drilling is pending
2. Name of the Injection formation Grayburg-San Andres Vacuum
3. Name of Field or Pool (if applicable) Maljamar Grayburg San Andres
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e., sacks of cement or plug(s) used
5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.

C-108
APPLICATION FOR AUTHORIZATION TO INJECT

MALJAMAR GRAYBURG UNIT

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.


ROBINSON UT.
D.A.TIPTON (OPER)
MALJAMAR
WISER OIL (OPER) MALJAMAR GRBG. UNIT
PENROC (OPER.)
MALMAR UNIT
SKELLY UNIT TEXACO (OPER)
MIDLAND MAP
MALJAMAR CO-OP UNIT
CONOCO OPER.

C-108
APPLICATION FOR AUTHORIZATION TO INJECT

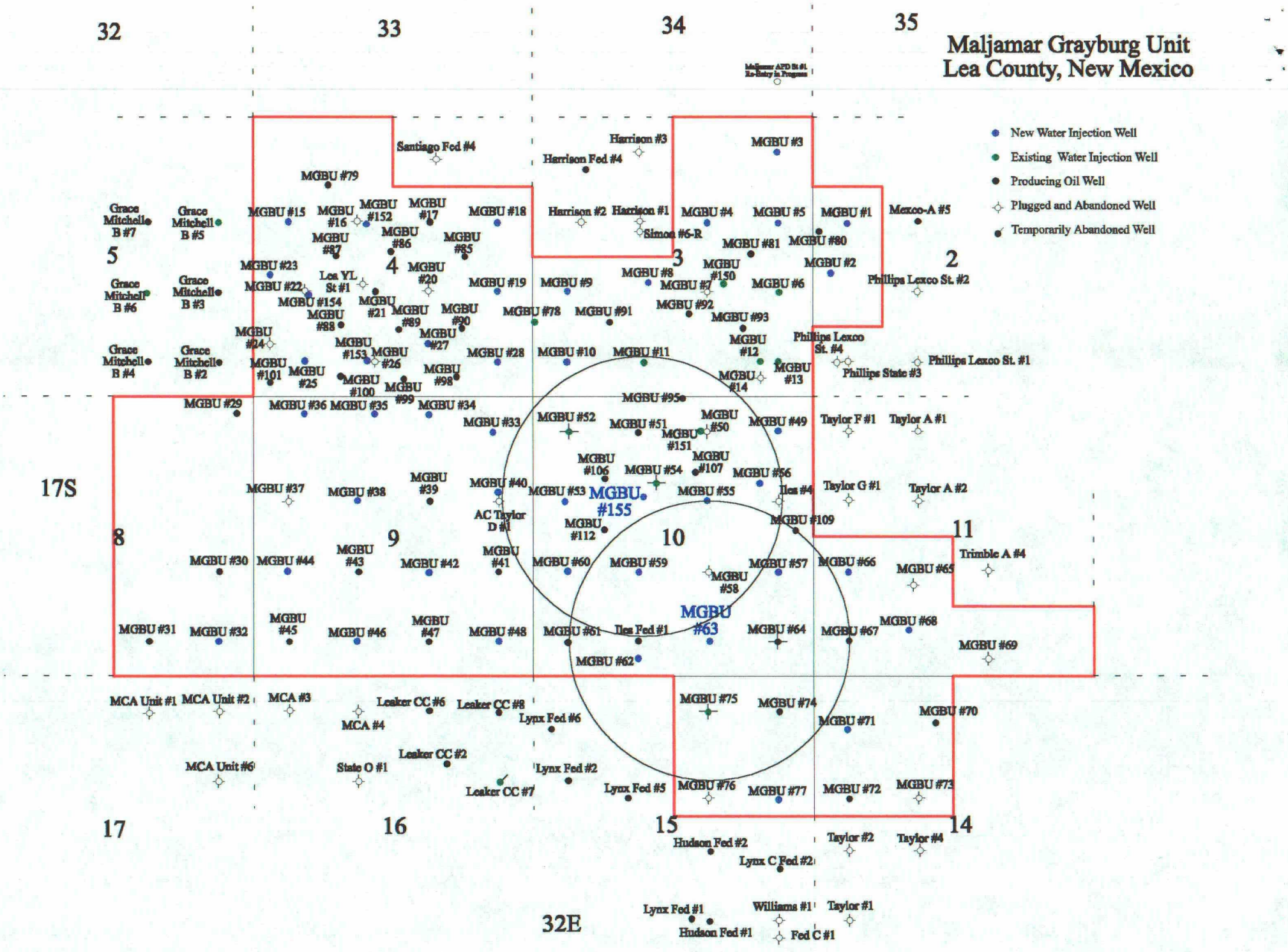
MALJAMAR GRAYBURG UNIT

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 42 wells within the area of review which have been plugged and abandoned as noted on the table.

Maljamar Grayburg Unit
Lea County, New Mexico



C-108
APPLICATION FOR AUTHORIZATION TO INJECT

MALJAMAR GRAYBURG UNIT

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 11 wells within the area of review which have been plugged and abandoned as noted on the table.

WELLS WITHIN MGBU AREA OF REVIEW

NAME	OPERATOR	LOCATION	SEC	TSHP	RG	COMPL DATE	TYPE	TOTAL DEPTH	HOLE SIZE	CSG SIZE	DEPTH SET	SX CMT	PERFS	TBG PAKR	COMMENTS	LEASE
Township 17 South, Range 32 East																
Section 3																
MGBU #11	The Wiser Oil Co.	660' FSL, 2080' FWL, Unit N	3	17S	32E	12-10-93	~~O~~ WIW	4290'		8 5/8" 5 ½"	1245' 3964'	50 100	3959-4263'	4" @ 3855'	Converted to WIW	LC 059576
Section 10																
MGBU #95	The Wiser Oil Co.	15' FNL, 2478' FEL, Unit B	10	17S	32E	7-26-93	O	4426'	12 ¼" 7 7/8"	8 5/8" 5 ½"	1129' 4426'	630 450	3961-4120' 4171-4338'	2 7/8" @ 4275'	Estimated TOC 2127'	LC 059576
MGBU #50	The Wiser Oil Co.	660' FNL, 1980' FEL, Unit B	10	17S	32E	Conv. 12-5-61	~~O~~ ~~WIW~~ P&A	4124'	Unk 7 7/8" 7 7/8"	8 5/8" 5 ½" 4"	1161' 3975' 3982'	75 100 375	3958-62'		TOC 2600' by Temp. Log Conv to WIW 12-5-61 P&A 10-8-76	LC-059576
MGBU #151	The Wiser Oil Co.	660' FNL, 2127' FEL, Unit B	10	17S	32E	11-9-93	WIW	4439' PB 4403'	12 ¼" 7 7/8"	8 5/8" 5 ½"	1141' 4439'	600 975	3946-4246' 4337-48'	2 3/8" @ 3864'	SI	BLM LC-059576
MGBU #51	The Wiser Oil Co.	660' FNL, 1980' FWL, Unit C	10	17S	32E	11-10-93	O	4233'		8 5/8" 5 ½"	1056' 3863'	50 100	3903-4203'	2 3/8" @ 3641'	Estimated TOC 3352'	LC-064150
MGBU #52	The Wiser Oil Co.	660' FNL, 690' FWL, Unit D	10	17S	32E	pre 1948	~~O~~ ~~WIW~~ P&A	4301'		8 5/8" 5 ½"	1161' 3986'	75 100	Unknown		Etimated TOC 3475' Conv to WIW 2-1-62 P&A 10-8-76	LC-064150
MGBU #53	The Wiser Oil Co.	1980' FNL, 610' FWL, Unit E	10	17S	32E	11-9-62	O	4070'	11" 7 7/8"	8 5/8" 5 ½"	302' 4070'	200 350	3882-96' 3988-94' 4010-20'	2 3/8" @ 3980'	Estimated TOC 2282' TA 4-5-89	Fee
MGBU #54	The Wiser Oil Co.	1650' FNL, 2310' FWL, Unit F	10	17S	32E	1-6-51	~~O~~ ~~WIW~~ P&A	4221'		8 5/8" 5 ½"	1100' 3820'	100 100	Unknown		Estimated TOC 3309' Conv to WIW 11-8-62 P&A 10-6-76	LC-064150
MGBU #106	The Wiser Oil Co.	1534' FNL, 1372' FWL, Unit F	10	17S	32E	2-7-96	O	4425' PB 4380'	12 ¼" 7 7/8"	8 5/8" 5 ½"	460' 4425'	300 1800	3881-4041' 4139-79' 4261-4336'	2 7/8" @ 4200'		LC-064150
MGBU #112	The Wiser Oil Co.	2497' FNL, 1335' FWL, Unit F	10	17S	32E	6-4-96	O	4450'	12 ¼" 7 7/8"	8 5/8" 5 ½"	495' 4452'	300 1350	3861-4034'	2 3/8" @ 4041	Estimated TOC 3173'	LC 064150
MGBU #55	The Wiser Oil Co.	1980' FNL, 1980' FEL, Unit G	10	17S	32E	8-18-62	~~O~~ P&A	4120'	11" 7 7/8"	8 5/8" 5 ½"	302' 4218'	200 350	3894-3900' 3923-33' 4018-34' 4046-52'	2 3/8" @ 3988'	Estimated TOC 2332' P&A 10-15-76 Re-entry for WIW Pending	LC-059576
MGBU #107	The Wiser Oil Co.	1413' FNL, 2238' FEL, Unit G	10	17s	32E	6-2-96	O	4450'	12 ¼" 7 7/8"	8 5/8" 5 ½"	495' 4450'	300 1700	3910-4070'	2 3/8" @ 4119'	Estimated TOC 2918'	NM 059576

WELLS WITHIN MGBU AREA OF REVIEW

NAME	OPERATOR	LOCATION	SEC	TSHP	RG	COMPL DATE	TYPE	TOTAL DEPTH	HOLE SIZE	CSG SIZE	DEPTH SET	SX CMT	PERFS	TBG PAKR	COMMENTS	LEASE
Iles Lease #4	Boller & Rutledge 901 Merchantile Securities Bldg. Dallas 1, TX	1980' FNL, 660' FEL, Unit H	10	17S	32E	2-9-48	~~O~~ P&A	4241'		5 ½"	3952'	100			Estimated TOC 3288' File incomplete	LC 059576
MGBU #56	The Wiser Oil Co.	1650' FNL, 990' FEL, Unit H	10	17S	32E	9-11-62	~~O~~ ~~WIW~~ P&A	4190'		8 5/8" 5 ½"	4190'	200 350	3970-82' 4083-87' 4093-4105'	2 3/8" @ 4007'	Estimated TOC 2402' Conv to WIW 9-10-64 P&A 10-18-76 Re-entry for WIW Pending	LC-059576
MGBU #109	The Wiser Oil Co.	2509' FNL, 330' FEL, Unit H	10	17S	32E	9-7-96	O	4400'	12 ¼" 7 7/8"	8 5/8" 5 ½"	436' 4400'	300 1150	3907-4077	2 3/8" @ 4121		LC 059576
MGBU #57	The Wiser Oil Co.	1980' FSL, 660' FEL, Unit I	10	17S	32E	10-19-62	O	4100'	11" 7 7/8"	8 5/8" 5 ½"	329' 4100'	200 350	3916-26' 4014-20' 4048-60'	2 3/8" @ 3948'	Estimated TOC 2312'	LC-059576
MGBU #58	The Wiser Oil Co.	1980' FSL, 1980' FEL, Unit J	10	17S	32E	11-20-62	P&A	4100'	11" 7 7/8"	8 5/8" 5 ½"	293' 4100'	200 350	3908-20' 4036-48'	2 3/8" @ 3952'	P&A 9-28-74	LC-059576
MGBU #59	The Wiser Oil Co.	1980' FSL, 1980' FWL, Unit K	10	17S	32E	9-5-64	O	4050'	11" 7 7/8"	8 5/8" 5 ½"	297' 4050'	225 350	3856-94' 3904-98' 4016-26'	2 3/8" @ 3968'	Estimated TOC 2262' TA 1-22-95	LC-064150
MGBU #60	The Wiser Oil Co.	1980' FSL, 660' FWL, Unit L	10	17S	32E	5-11-65	~~O~~ ~~WIW~~ P&A	4237'	11" 7 7/8"	8 5/8" 5 ½"	1000' 4500'	500 400	3835-41' 3872-93' 3955-73' 4004-08'	2 7/8" @ 4010'	Estimated TOC 2457' Conv to WIW 3-31-66 P&A 10-12-76 Re-entry for WIW Pending	Fee
MGBU #61	The Wiser Oil Co.	660' FSL, 660' FWL, Unit M	10	17S	32E	7-12-65	O	4200'	11" 7 7/8"	8 5/8" 5 ½"	308' 4200'	200 550	3819-96' 3985-89'	2 3/8' @ 3690'	Estimated TOC 1391'	LC 064150
Iles Federal #1	Walsh & Watts Inc.	660' FSL, 1980' FWL, Unit N	10	17S	32E	11-7-62	O	11,713'	17 ½" 12 ½" 8 ¾'	13 3/8" 9 5/8" 5 ½"	412' 4769' 11,072	380 2000 725	10834-52' 10865-76'	2" @ 10,885'	Estimated TOC 6775'	NM 064150
MGBU #62	The Wiser Oil Co.	330' FSL, 1980' FWL, Unit N	10	17S	32E	6-24-65	~~O~~ ~~WIW~~ P&A	4183'	11" 7 7/8"	8 5/8" 4 ½"	315' 4500'	Unk 400	3819-83' 3905-83' 4117-27'	2 3/8" @ 3878'	Estimated TOC 2946' Conv to WIW 4-22-66 P&A 10-21-76 Re-entry for WIW Pending	LC-064150
MGBU #64	The Wiser Oil Co.	660' FSL, 660' FEL, Unit P	10	17S	32E	8-29-64	~~O~~ P&A	4100'	12 ¼" 7 7/8"	8 5/8" 5 ½"	294' 4100'	225 350	3886-96' 3992-96' 4016-20' 4028-36'	2 3/8" @ 3964'	Estimated TOC 2312' P&A 9-14-74	LC-059576

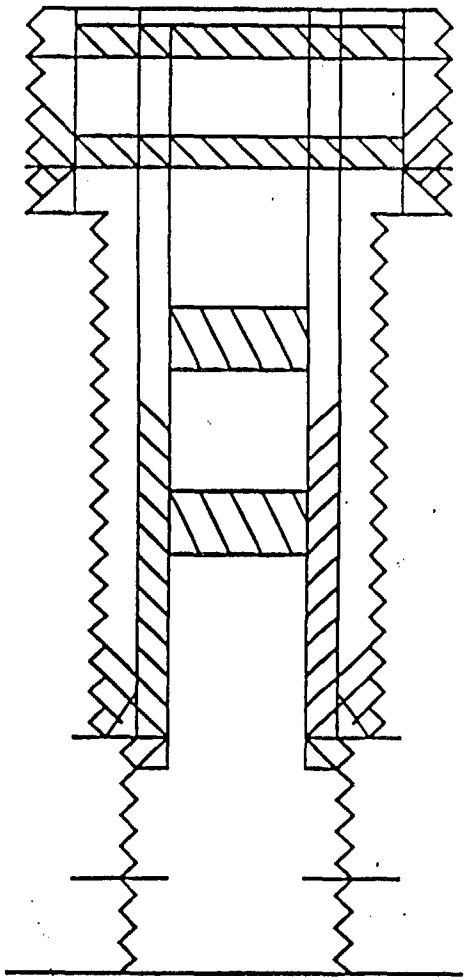
WELLS WITHIN MGBU AREA OF REVIEW

NAME	OPERATOR	LOCATION	SEC	TSHP	RG	COMPL DATE	TYPE	TOTAL DEPTH	HOLE SIZE	CSG SIZE	DEPTH SET	SX CMT	PERFS	TBG PAKR	COMMENTS	LEASE
Section 11																
MGBU #67	The Wiser Oil Co.	660' FSL, 660' FWL, Unit M	11	17S	32E	4-6-63	O	4110'	12 ¼" 7 7/8"	8 5/8" 5 ½"	322' 4110'	225 350	3904-19' 4033-4055'	2 3/8' @ 4062'	Estimated TOC 2322'	Fee
Section 15																
MGBU #74	The Wiser Oil Co.	660' FNL, 660' FEL, Unit A	15	17S	32E	5-2-65	O	4358'	11" 7 7/8"	8 5/8" 5 ½"	1027' 4358'	400 400	3829-99' 3901-57'	2 3/8' @ 4017'	Estimated TOC 2315'	NM-0315712
MGBU #75	The Wiser Oil Co.	660' FNL, 1980' FEL, Unit B	15	17S	32E	7-21-65	~~O~~ ~~WIW~~ P&A	4200'	11" 7 7/8"	8 5/8" 4 ½"	309' 4200'	200 650	3809-79' 3903-93' 4133-35'	2 3/8" @ 3898'	Estimated TOC 2157' Conv to WIW 4-22-66 P&A 10-4-76	NM-0315712

MGBU #50

660' FNL, 1980' FEL, Unit B, Sec. 10, 17S-32E

P+A 10-8-76



Perf 4" & 5-1/2" @ 200'. Pumped 40 sx outside 8-5/8" but did not circulate.

Perf 4" & 5-1/2" @ 950' & cmt w/150 sx
Top of cmt 370'

8-5/8" 32# set @ 1181' w/75 sx

Set 30 sx @ 2400' - 1800'

TOC 4"x5-1/2" 2600' (by temp log)

Set 25 sx @ 3280' - 2855'

7-7/8" hole

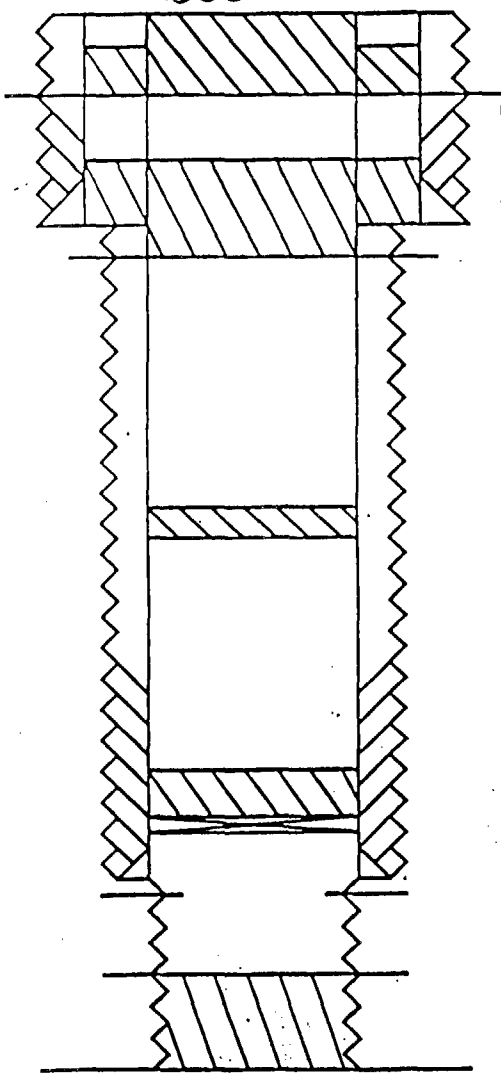
TOC 5-1/2"x7-7/8" 3294' (calc)

5-1/2" 15# @ 3975' w/100 sx
Perf 3958' - 3962'
4" csg set @ 3962' w/375 sx.

Shot 4002' - 4124' w/310 quarts nitro

TD 4124'

MGBU #52



Perf 5-1/2" & 8-5/8" @ 200'
Pumped 40 sx cmt plug outside 8-5/8". Cmt plug did not circ.

8-5/8" csg SA 1020' w/60 sx

Perf 5-1/2" csg @ 1100' w/4 JS. Pumped 150 sx. Calc TOC in 5-1/2" x 8-1/2" annulus @ 540'; inside 5-1/2" csg @ 540'.

Set 30 sx cmt @ 2550' - 2300'

7-7/8" hole

TOC 3210' (calc)

Set 25 sx cmt @ 3600' - 3600'

CIBP @ 3600'

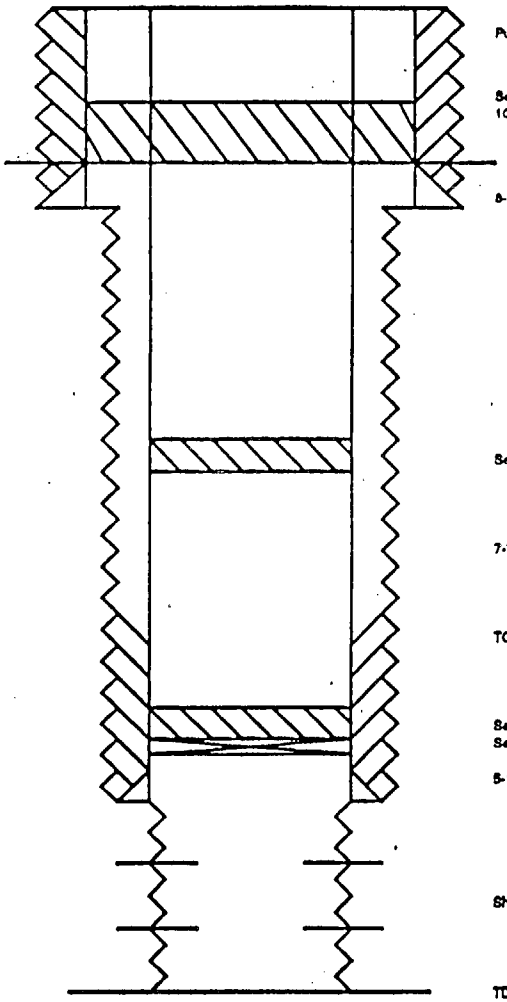
5-1/2" csg SA 3691' w/100 sx

Shot 3995' - 4156' w/305 qts nitro

PBTD 4156'

TD 4391'

MGBU #54



Pumped 35 sx outside 8-5/8" csg

Set 100 sx cmt inside & out of 5-1/2" csg @ 1000' - 820'

8-5/8" csg set @ 1100' w/100 sx

Set 50 sx cmt @ 2400' - 2150'

7-7/8" hole

TOC 3139' (calc)

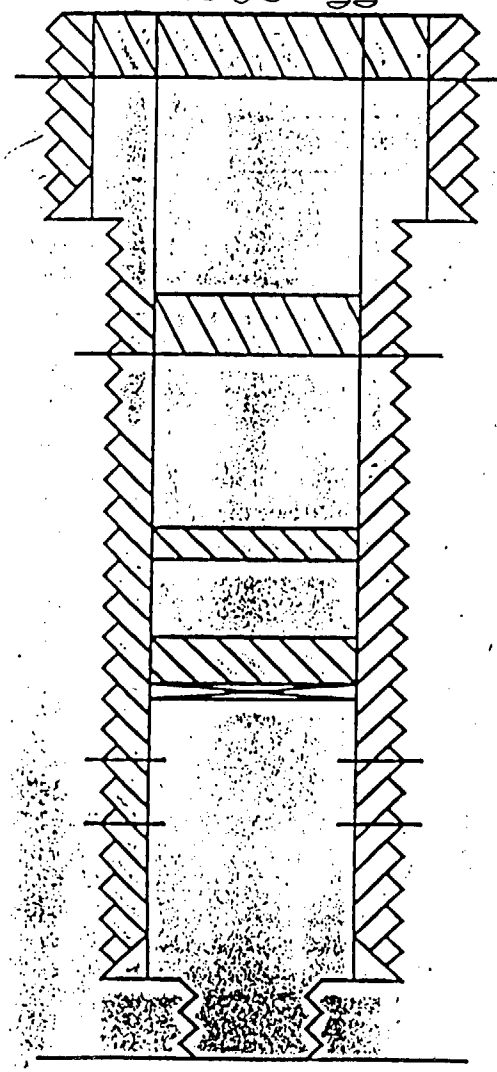
Set 25 sx @ 3700' - 3500'
Set CIBP @ 3700'

5-1/2" 14# csg set @ 3820' w/100 sx

Shot 3910' - 4050' w/nitro

TD 4221'

MGBU #55



Set 50 sx cmt inside & out of 8-1/2" csg @ 200' - surface

8-5/8" 24# csg set @ 902' w/200 sx (circ)

Set 150 sx cmt inside & out of 5-1/2" csg @ 1100' - 840'

TOC 1736' (calc)

Set 30 sx cmt @ 2504' - 2246'

7-7/8" hole

Set 25 sx cmt @ 3730' - 3530'
Set CIBP @ 3750'

Perfs 3894' - 3965'

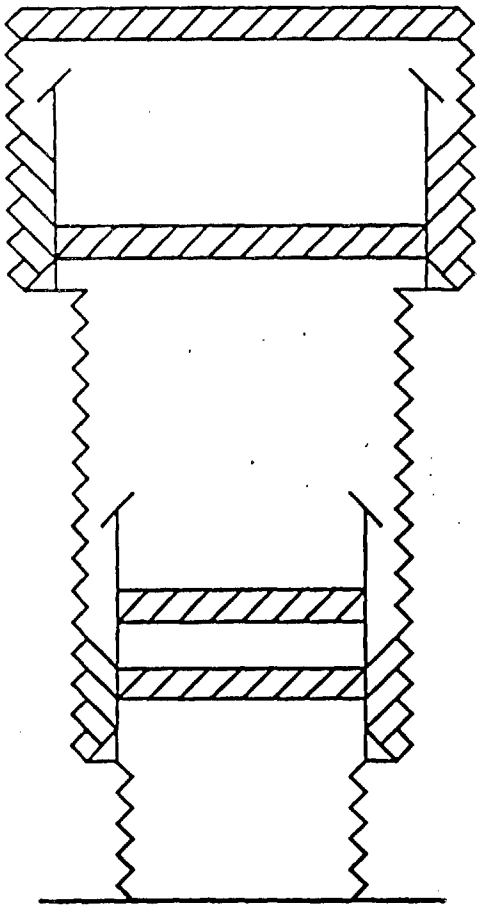
7-7/8" to 4120'

5-1/2" 14# csg set @ 4120' w/350sx

TD 4218'

Iles #4
Bollar & Nichols

1980' FNL & 660' FEL, Unit H, Sec 10-T17S-R32E
Lea County, New Mexico
Completed 9/47 TD 4241'
Plugged & Abandoned 09/28/56



Set cmt plug @ surface

Pulled 378' of 8-5/8" csg

Set 50' cmt plug @ 1175-1125'

8-5/8" csg set @ 1210' w/50 sx cmt

7-7/8" Hole

Pulled 3054' 5-1/2" csg

Set 20' cmt plug @ 3200'

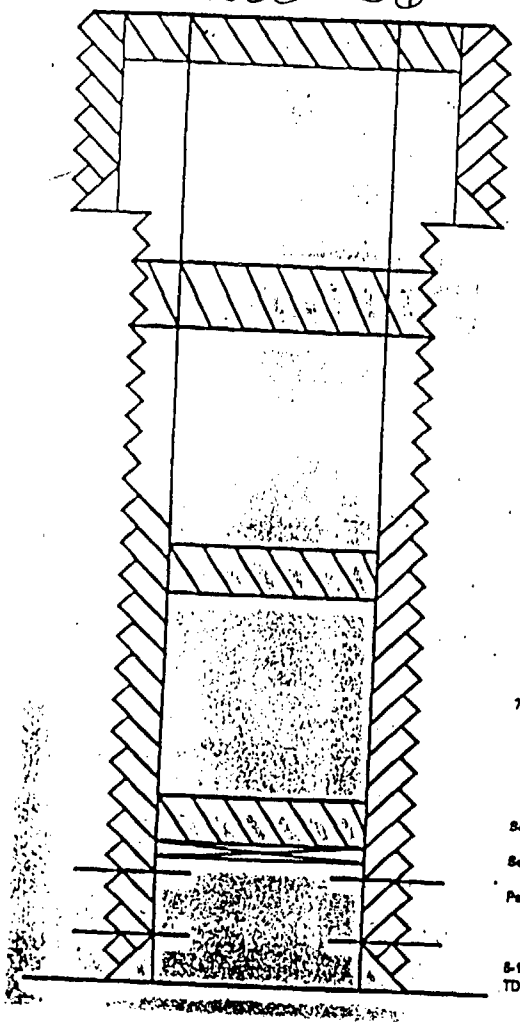
TOC 3288' (Calc)
Set 55' cmt plug @ 3900'

5-1/2" csg set @ 3968' w/100 sx cmt

Shot 4043-4225' w/ 360 qts.

TD 4241'

MGBU # 56



Set 60 sx cmt inside & out of 5-1/2" csg @ 200' (csg cut to surf)

8-5/8 24# csg set @ 337' w/200 sx (circ)

Set 150 sx cmt inside & out of 5-1/2" csg @ 1100' - 540'

TOC 1800' (calc)

Set 50 sx cmt @ 2402' - 2146'

7-7/8" hole

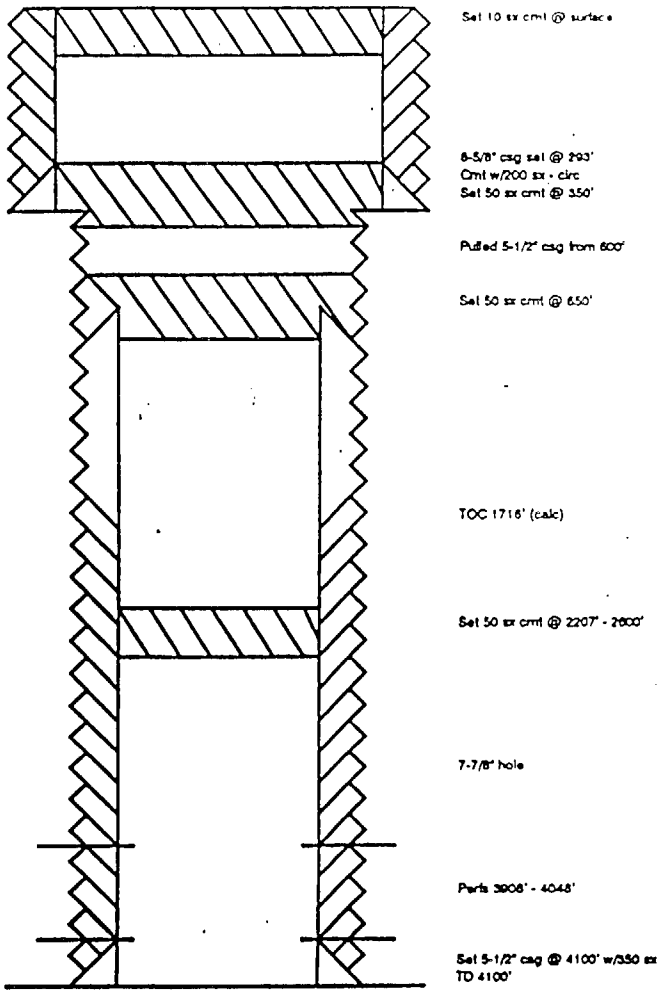
Set 25 sx cmt @ 3690' - 3590'

Set CIBP @ 3600'

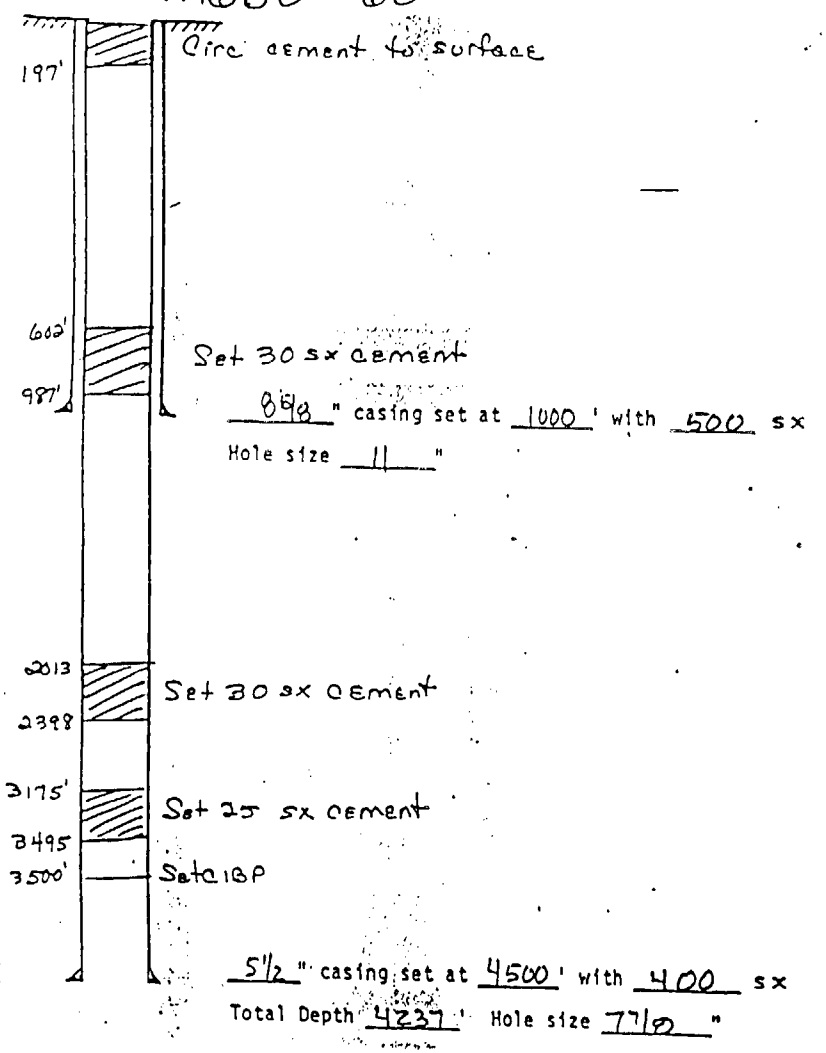
Perfs 3970' - 4105'

5-1/2 14# csg set @ 4190' w/350 sx
TD 4190'

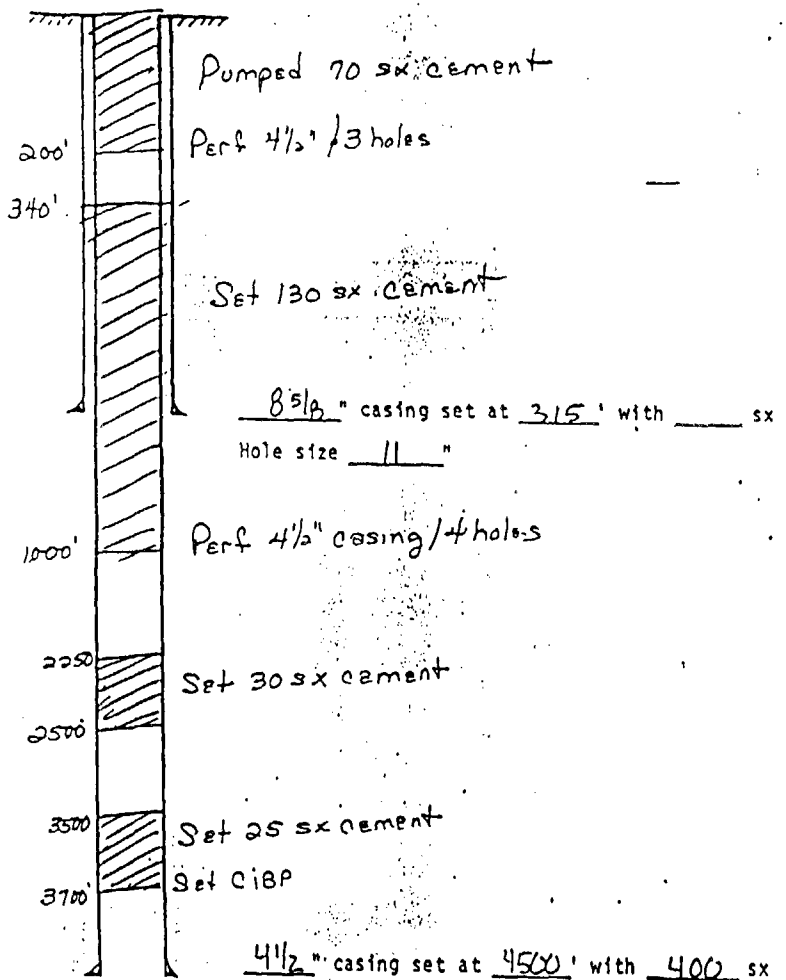
Maljamar Grayburg Unit #58
Chevron Oil Co.
Unit J 1980' FSL & 1980' FEL Sec 10-17S-32E
Completed 11/20/93 TD 4100'
Plugged & Abandoned 09/28/74



MGBU #60



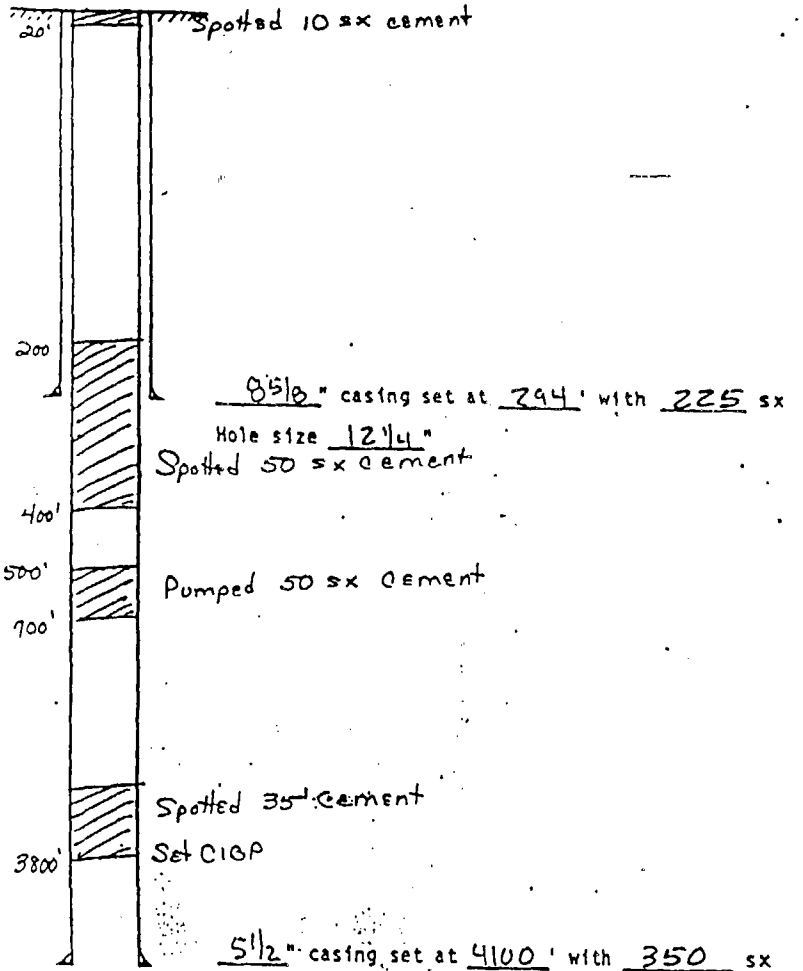
MGBU #62



8 5/8" casing set at 315' with ____ sx
Hole size 11"

4½" casing set at 4500' with 400 sx
Total Depth 4183' Hole size 7 7/8"

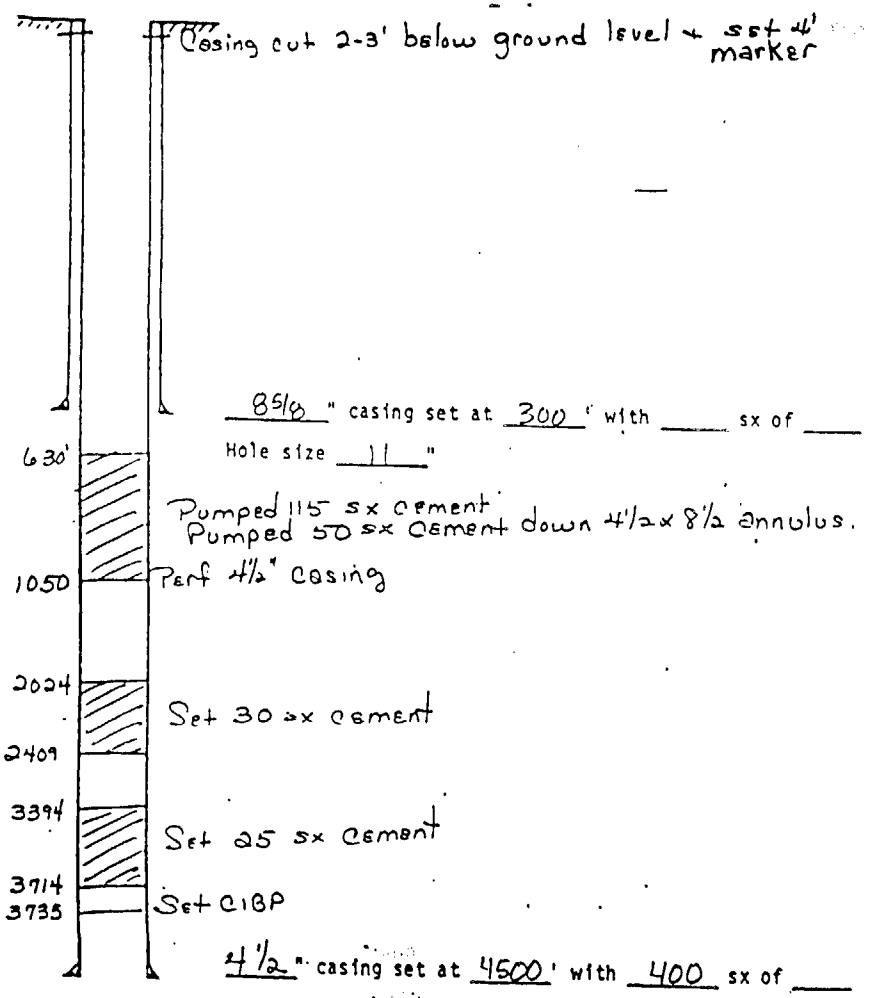
MGBU #64



8 5/8" casing set at 294' with 225 sx
Hole size 12 1/4"

5 1/2" casing set at 4100' with 350 sx
Total Depth 4100' Hole size 7 7/8"

MGBU #75


Casing cut 2-3' below ground level + set 4' marker
8 5/8" casing set at 300' with ____ sx of ____
Hole size 11"
630'
Pumped 115 sx cement
Pumped 50 sx cement down 4 1/2 x 8 1/2 annulus.
1050
Perf 4 1/2" casing
2024
Set 30 sx cement
2409
3394
Set 25 sx cement
3714
3735
Set CIBP
4 1/2" casing set at 4500' with 400 sx of ____
Total Depth 4200' Hole size 7 7/8"

C-108
APPLICATION FOR AUTHORIZATION TO INJECT
MALJAMAR GRAYBURG UNIT

VII. PROPOSED OPERATION

1. Average Daily Rate of Fluids to be Injected: 250 BWPD
   Maximum Daily Rate of Fluids to be Injected: 500 BWPD

2. This is to be a closed injection system.

3. Average Injection Pressure: 1850 psi
   Maximum Injection Pressure; 2500 psi

4. Injection fluid will be obtained from the following sources:

   a. Produced Water

   b. Fresh Water from The Wiser Oil Company's three water wells in Section 1, T17S-R32E.

   Water compatibility studies of produced water from the Maljamar Grayburg Unit and the fresh water from The Wiser Oil Company's Ogalala source in Section 1 have previously been conduced. No incompatibility has been found in these tests or others conducted for waterfloods in this area when testing Ogalala water and produced Grayburg and San Andres water.

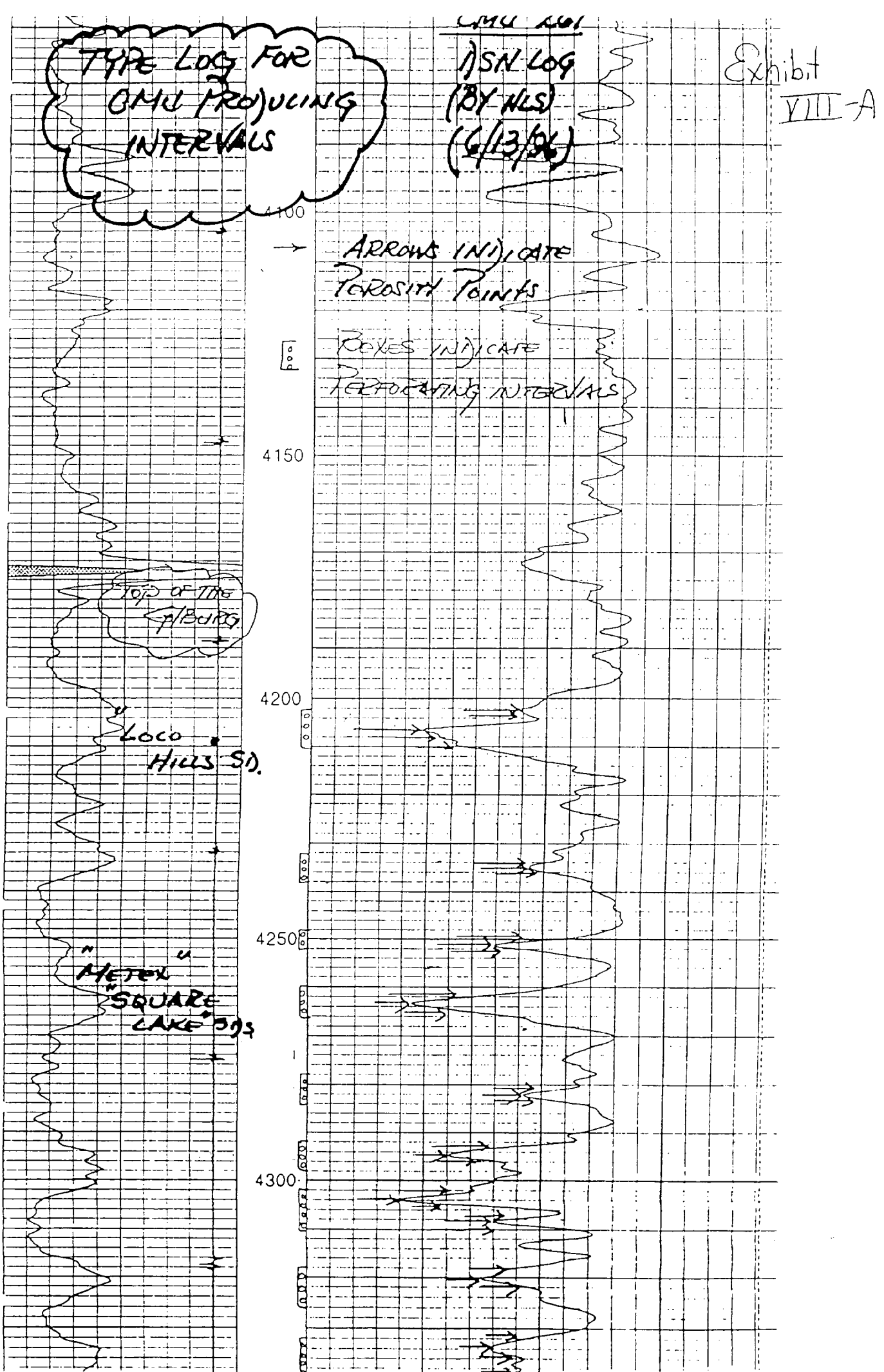
5. Not Applicable.

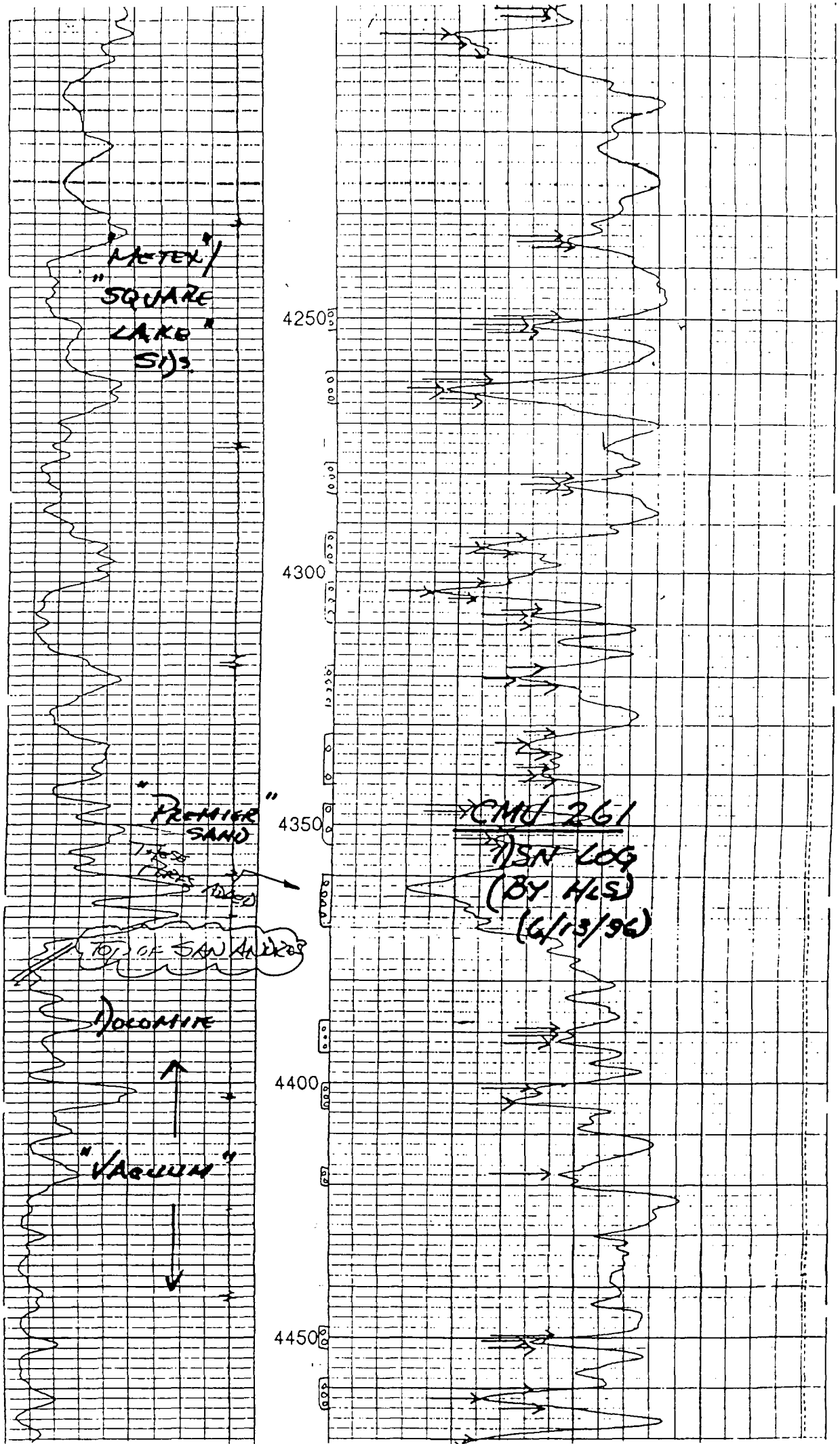
VIII. GEOLOGIC DATA OF INJECTION ZONE:

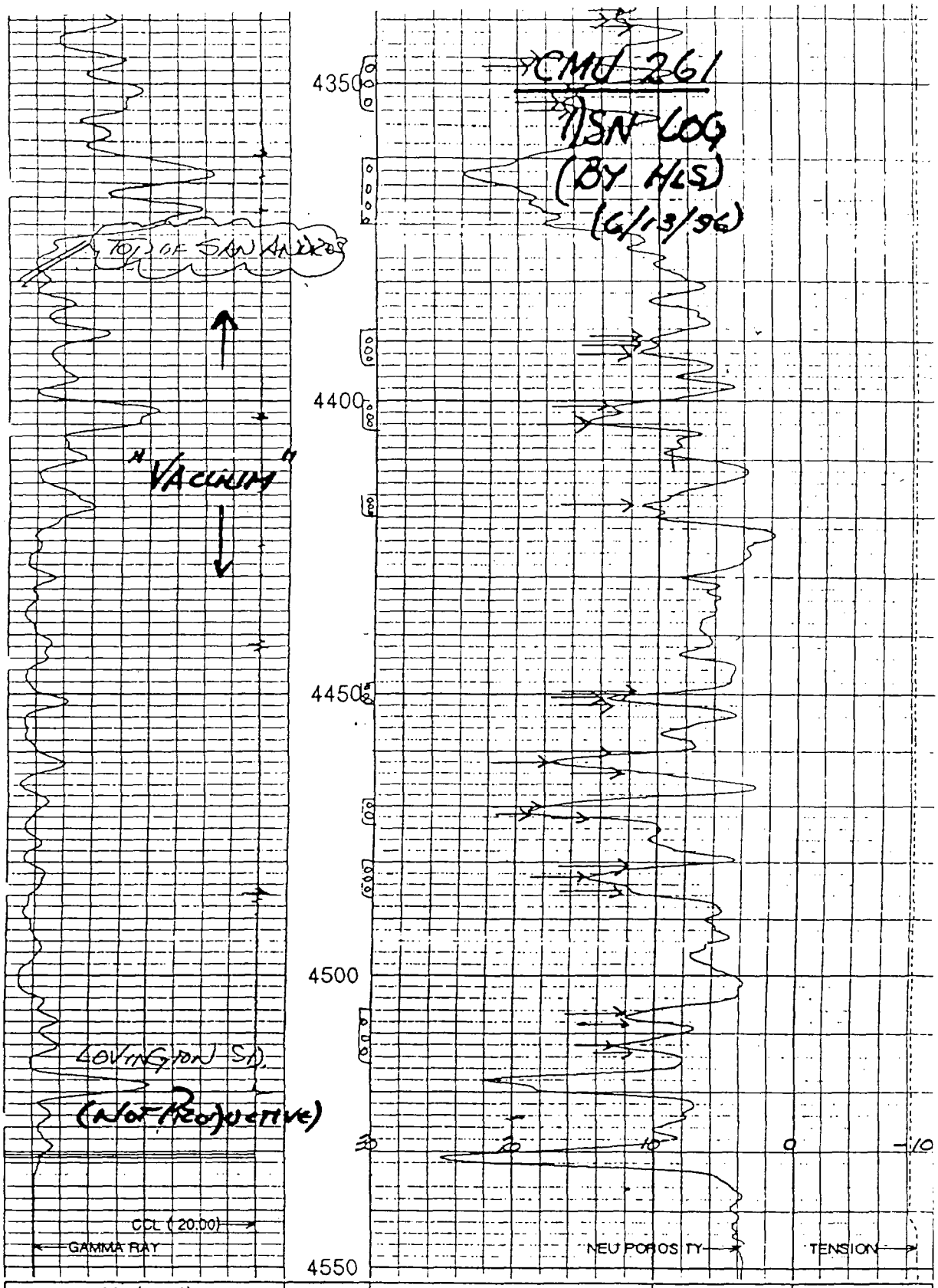
The proposed injection interval is in the Grayburg-San Andres from 3314' to 4400'. The Grayburg formation consists primarily of quartz sand with dolomite cementation. The San Andres formation consists primarily of dolomite with intermingled stringers of quartz sand with dolomite cementation.

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; 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.


TYPE LOG FOR GMU PRODUCING INTERVALS
GMU #61
)SN LOG
(BY NLS)
(6/13/84)
Exhibit VIII-A
4100
ARROWS INDICATE POROSITY POINTS
BOXES INDICATE PERFORATING INTERVALS
4150
Top of the Albuq.
Loco Hills Sd.
"Meteor"
"Square Cake" Sds
4200
4250
4300


"MATTEX"/
"SQUARE
LAKE"
SD'S.
4250
4300
"PREMIER"
SAND
TOP OF SAN ANDRES
DOLOMITE
"VACUUM"
4350
CMI 261
TSN LOG
(BY H/S)
(6/13/96)
4400
4450



HALLIBURTON

Version No: 2.00 / hc=2.0
Data File: 0613_1554_r0411.5.dls
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 FORMATION TOPS

Exhibit VIII-B

TYPE LOG

HALLIBURTON

GAMMA COLLAR

DSN

1

COMP. : WISER OIL COMPANY INC.
WELL : CMU #160
FIELD : MALJAMAR GRAYBURG
COUNTY: LEA ST. N.M.

COMPANY WISER OIL COMPANY INC.

WELL CMU #160

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

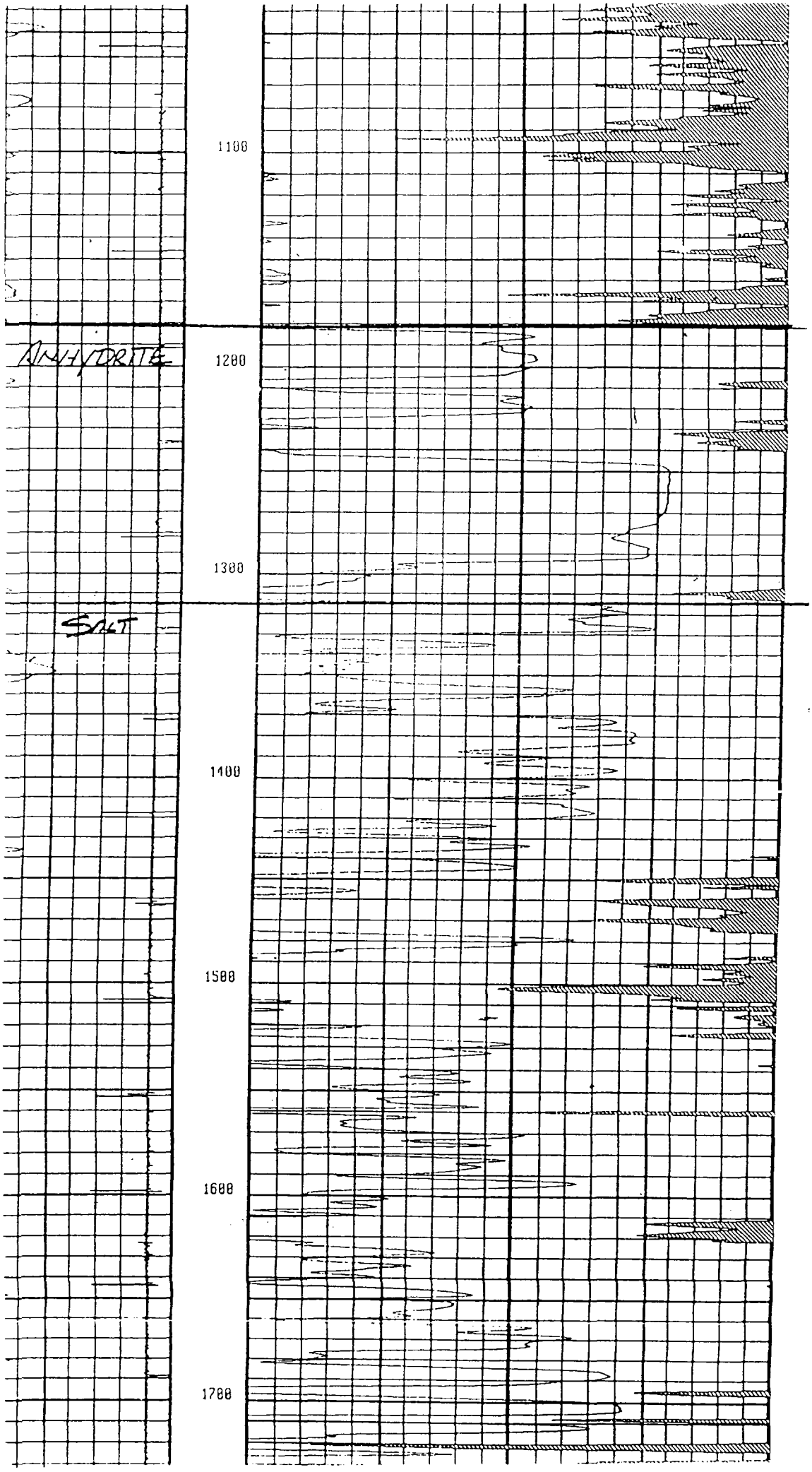
OTHER SERVICES
CBL,PERF.

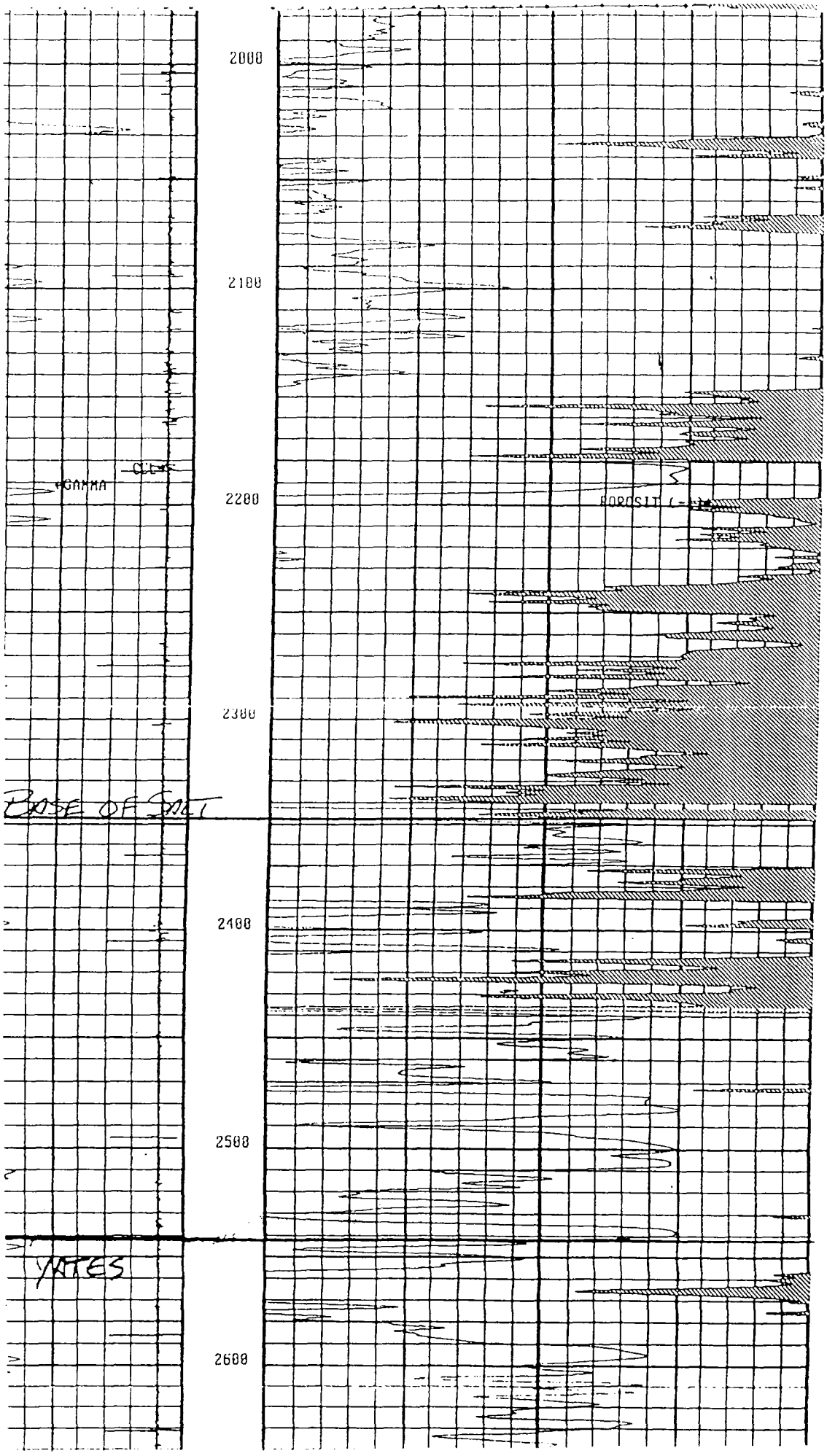
PERMANENT DATUM	GL	ELEV. 4137'		ELEV.: K.B. 4149'
LOG MEASURED FROM	KB	12.0 FT. ABOVE PERM. DATUM		D.F.
DRILLING MEAS FROM	KB			G.L. 4137'

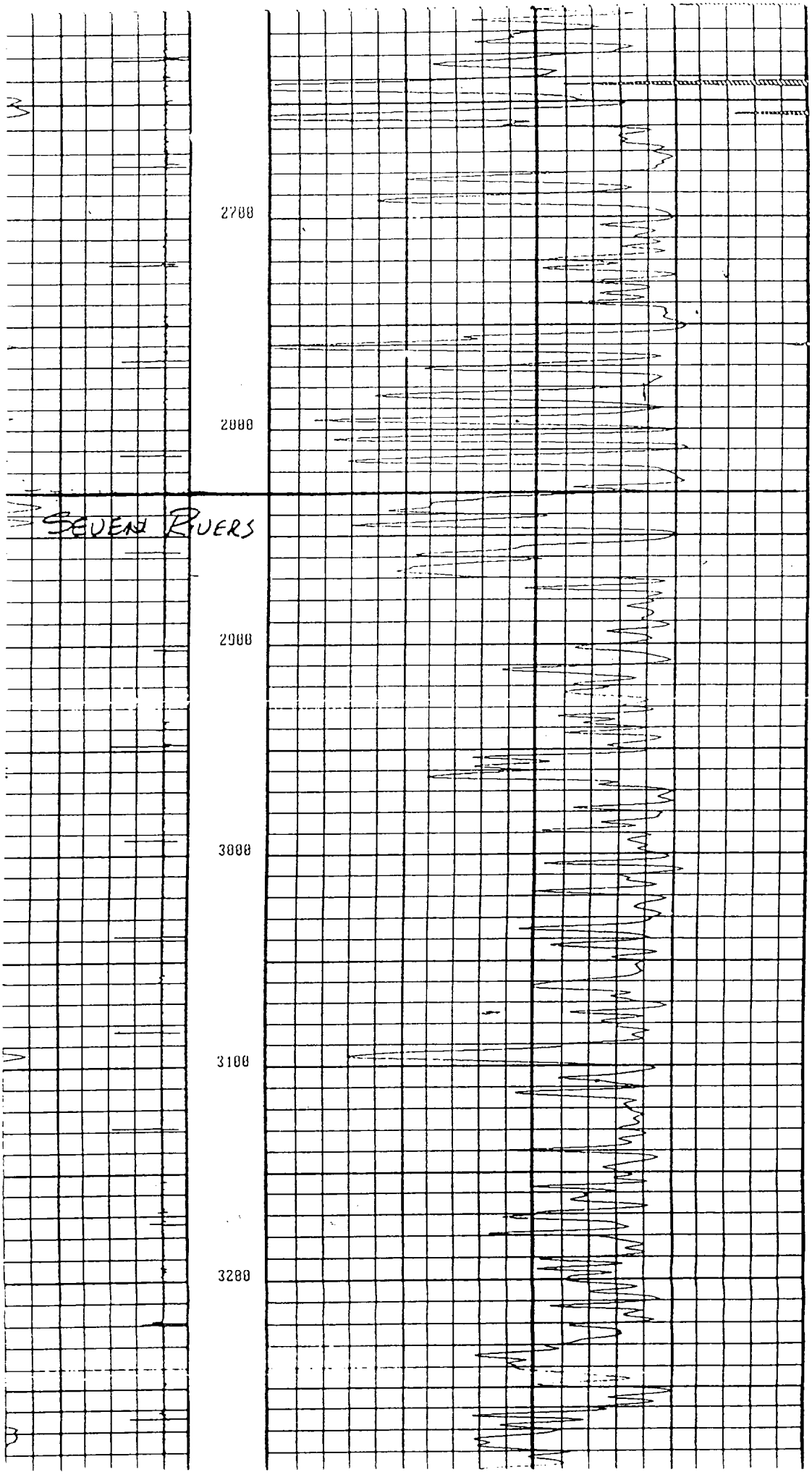
DATE & TIME LOGGED	12/08/95 @ 08:00	TYPE OF FLUID IN HOLE	WATER
RUN No.	ONE	DENSITY OF FLUID	NA
DEPTH - DRILLER	4850	FLUID LEVEL	FULL
DEPTH - LOGGER	4788	CEMENT TOP EST/LOGGED	NA
BTM LOGGED INTERVAL	4787	EQUIPMENT : LOCATION	7634 : HOBBS
TOP LOGGED INTERVAL	SURF	RECORDED BY	HILL
MAX RECORDED TEMP.	NA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

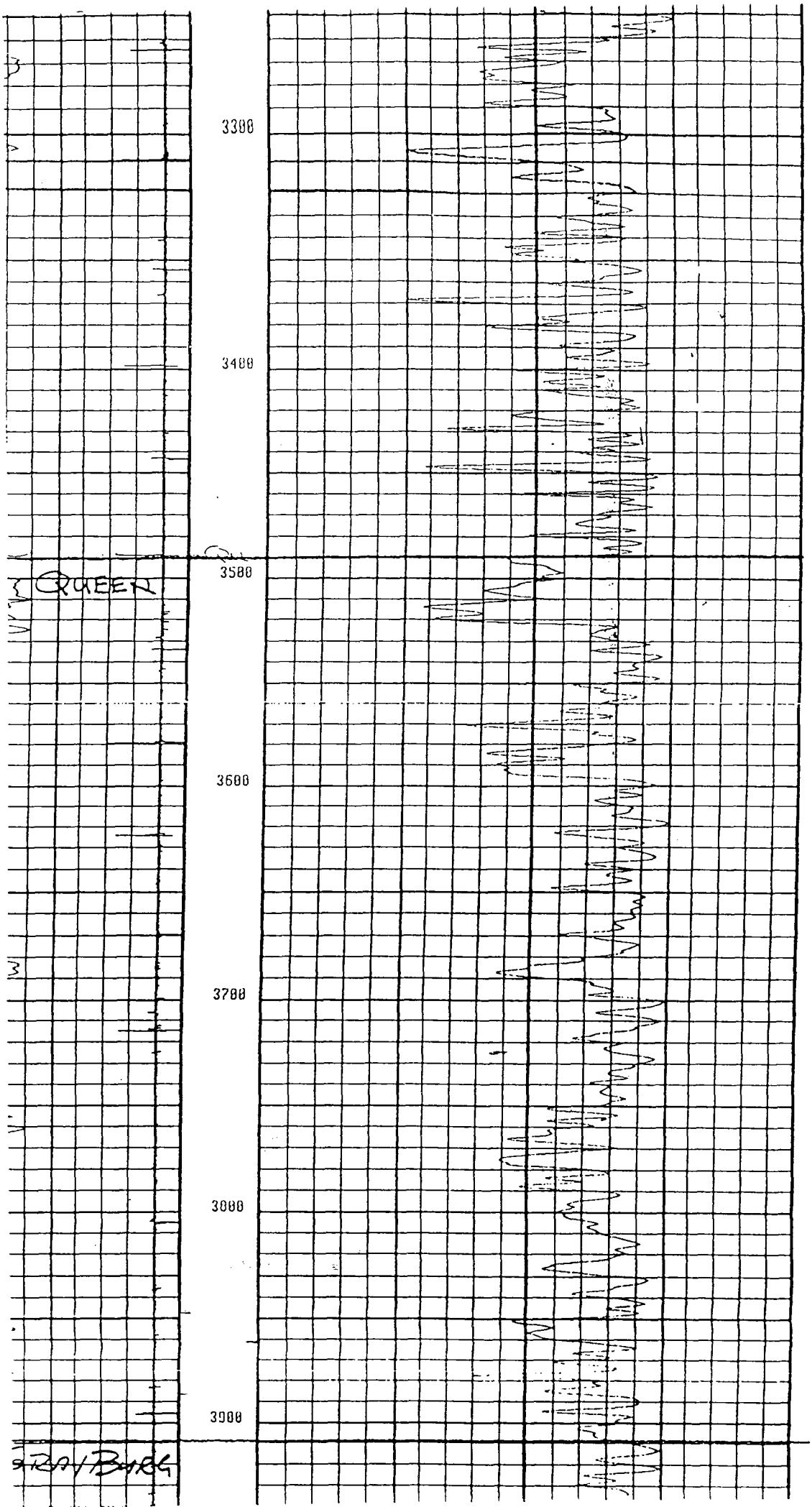
CEMENTING DATA	SURF. STRING	INT.STRING	PROD.STRING	LINER
DATE/TIME CEMENTED	/ .	/ .	/ .	/ .
PRIMARY/SQUEEZE				
COMPRESSIVE STR. EXPECTED @	: Hrs	: Hrs	: Hrs	: Hrs
CEMENT VOLUME				
CEMENT TYPE/WEIGHT				
MUD TYPE/MUD WGT.				
FORMULATION				

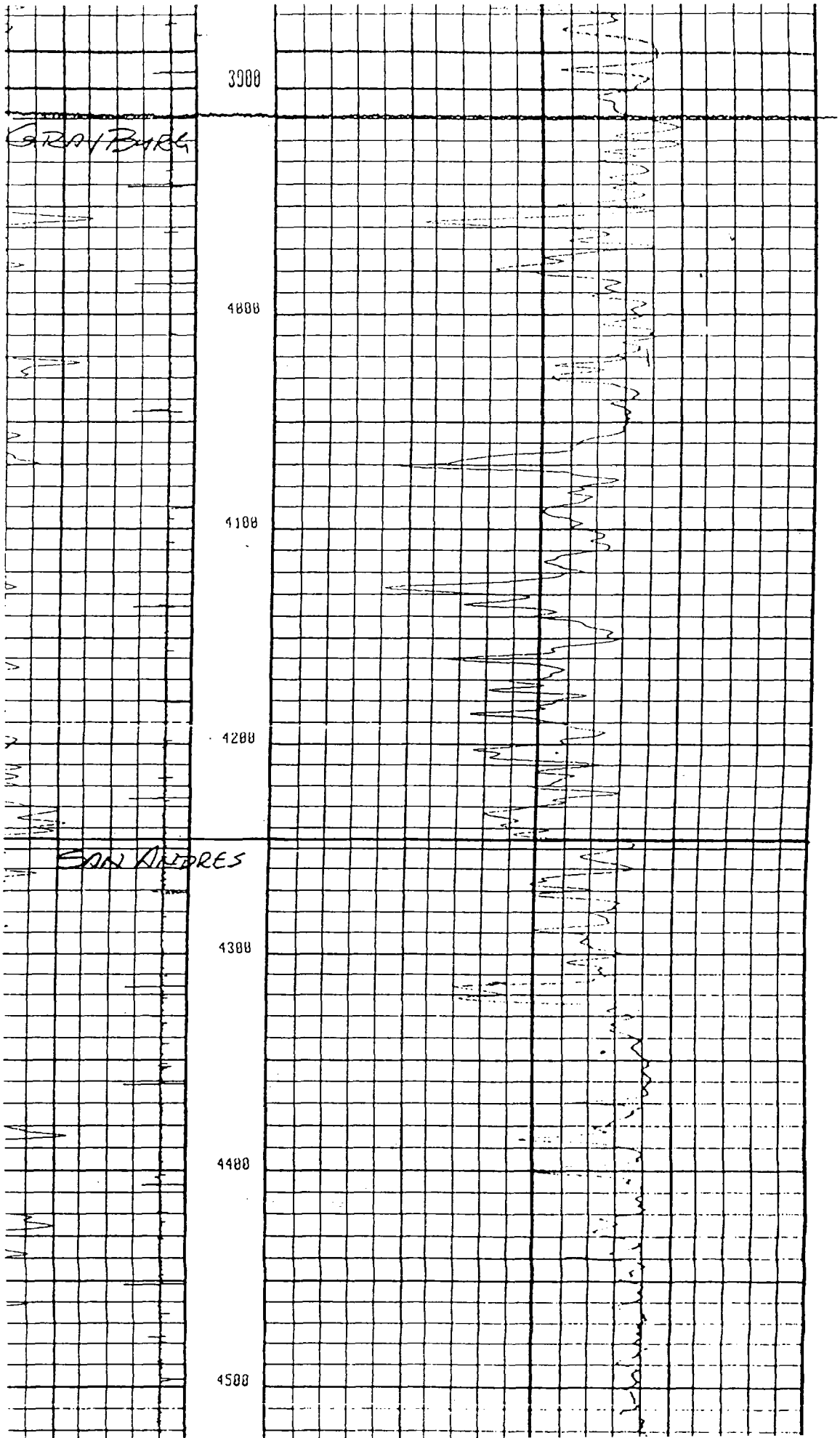
RUN	BOREHOLE RECORD			CASING AND TUBING RECORD			
No.	BIT SZ.	FROM	TO	SIZE	WGT.	FROM	TO
ONE				8.625	NA	0	1200
TWO	7.875	1200	4850	5.5	17.0	0	4850


1100
ANHYDRITE
1200
1300
SALT
1400
1500
1600
1700


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


2700
2000
SEVEN RIVERS
2900
3000
3100
3200


3300
3400
QUEEN
3500
3600
3700
3800
3900
GRAYBURG


3900
GRAYBURG
4000
4100
4200
SAN ANDRES
4300
4400
4500

IX. PROPOSED STIMULATION PROGRAM

Small acid clean-out jobs of approximately 2500 gallons/well are anticipated.

X. LOGGING DATA

The available logs are those on file with the Oil Conservation Division. Logs for the pending well will be filed upon completion.

XI. FRESH WATER WELLS WITHIN ONE MILE OF INJECTION WELLS

There is one water well in the SW¼SE¼ of Section 3, and four water wells in the NE¼NW¼ of Section 10, T17S-R32E. Attached as Exhibit XI-A is a copy of the water analysis done on one of these wells. Several attempts were made to obtain samples from the other wells, but the wells were not running and the owners were unavailable to assist the representative from Capitan Chemicals.

Capitan Chemicals

EXHIBIT "XI-A"

WATER ANALYSIS REPORT

SAMPLE

Oil Co. : The Wiser Oil Co.
Lease : Ben Lindsey
Well No.: Fresh Water
Salesman:

Sample Loc. :
Date Analyzed: 01-November-1996
Date Sampled :

ANALYSIS

1.	pH	8.130
2.	Specific Gravity 60/60 F.	1.003
3.	$CaCO_3$ Saturation Index @ 80 F.	+1.137
	@ 140 F.	+1.737

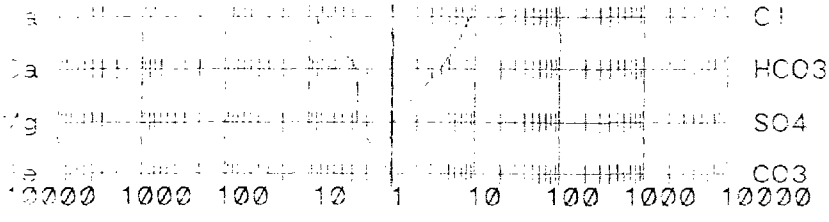
	Dissolved Gasses	MG/L	EQ. WT.	*MEQ/L
4.	Hydrogen Sulfide	Not Present		
5.	Carbon Dioxide	Not Determined		
6.	Dissolved Oxygen	Not Determined		

	Cations			MG/L	EQ. WT.	*MEQ/L
7.	Calcium	(Ca^{++})		50	/ 20.1 =	2.49
8.	Magnesium	(Mg^{++})		30	/ 12.2 =	2.46
9.	Sodium	(Na^{+})	(Calculated)	190	/ 23.0 =	8.26
10.	Barium	(Ba^{++})		5	/ 68.7 =	0.07

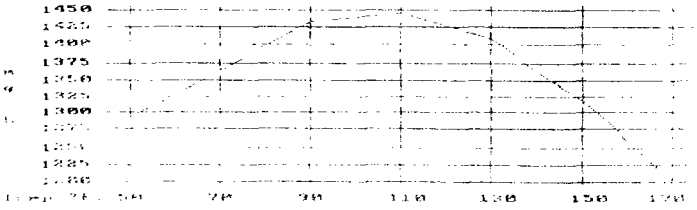
	Anions		MG/L	EQ. WT.	*MEQ/L
11.	Hydroxyl	(OH^{-})	0	/ 17.0 =	0.00
12.	Carbonate	($CO_3^{=}$)	0	/ 30.0 =	0.00
13.	Bicarbonate	(HCO_3^{-})	229	/ 61.1 =	3.75
14.	Sulfate	($SO_4^{=}$)	48	/ 48.8 =	0.98
15.	Chloride	(Cl^{-})	300	/ 35.5 =	8.45

16.	Total Dissolved Solids	852	
17.	Total Iron (Fe)	2	/ 18.2 = 0.08
18.	Total Hardness As $CaCO_3$	250	
19.	Resistivity @ 75 F. (Calculated)	2.835 /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	2.49	202
$CaSO_4$	68.07	0.00	0
$CaCl_2$	55.50	0.00	0
$Mg(HCO_3)_2$	73.17	1.26	92
$MgSO_4$	60.19	0.91	55
$MgCl_2$	47.62	0.29	14
$NaHCO_3$	84.00	0.00	0
$NaSO_4$	71.03	0.00	0
NaCl	58.46	8.16	477

*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 in solution.

XII. Not applicable

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 XIII-B. Copies of the certified receipts will be furnished upon request. The notice attached as Exhibit XIII-C is being published in the Hobbs Daily News-Sun, and an Affidavit of Publication will be forwarded as soon as available.

EXHIBIT XIII-A

MAILING LIST

OFFSET LEASEHOLD OPERATORS:

Edward R. Hudson Trust	616 Texas Street	Ft. Worth, TX 76102
NationsBank of Texas, N.A.,	Acct. #01/0258100	Dallas, Texas 75283-0308
Trustee U/W of S. J. Iverson	P. O. Box 830308	
Messrs. Peter C. & Alvin	3454 S. Zunis	Tulsa, OK 74105
Iverson, Independent Executors		
of the Estate of Dorothy Iverson		
c/o Iverson III Inc.		
Marjorie W. Iverson Rev. Trust	27 Oaklawn Park	Midland, TX 79705-6546
Iverson, Inc.	P. O. Box 664	Huntington Beach CA92648
Jewell D. Iverson	3131 S. Lewis Street	Tulsa, OK 74145
Delmar H. Lewis	616 Texas Street	Ft. Worth, TX 76102
Lindy's Living Trust	616 Texas Street	Ft. Worth, TX 76102
Moore & Shelton Co., Ltd.	1414 Sugar Creek Blvd.	Sugar Land, TX 77478
C/o Donald B. Moore		

OFFSET WELL OPERATORS:

Lynx Petroleum, Inc.	P. O. Box 1979	Hobbs, NM 88241
Walsh & Watts, Inc.	500 W. 7th St., #1007	Fort Worth, TX 76102

SURFACE OWNERS FOR INJECTION WELLS

Bureau of Land Management	2901 W. 2nd St.	Roswell, NM 88201

EXHIBIT XIII-B

AFFIDAVIT OF MAILING

STATE OF NEW MEXICO
SS.
COUNTY OF CHAVES

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 12th day of March, 1997.

My Commibsion Expires:
December 18, 1999

Notary Public

EXHIBIT VIII-C

NOTICE TO BE PUBLISHED IN THE HOBBS DAILY NEWS-SUN
ON WEDNESDAY, MARCH 12, 1997

PROPOSED INJECTION WELLS

The Wiser Oil Company proposes to expand its Maljamar Grayburg Unit and inject water into 2 wells in Section 10, T17S-R32E, Lea County, New Mexico, to provide injection service for the existing Maljamar Grayburg Unit Waterflood, Order No. R-1538. The zones to be injected into are the Grayburg and San Andres from 3314' to 4400' with a maximum injection rate of 500 BWPD/well at a maximum pressure of 2500 psi. Any interested parties with objection or request for hearing should notify the 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.

J.O. EASLEY, INC.
ESTABLISHED 1979
P.O. Box 245 88211-0245
119 South Roselawn, Suite 302
Artesia, New Mexico 88210

Telephone (505) 746-1070
Fax (505) 746-1073

April 4, 1997

Mr. David Catanach
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Re: C-108
Maljamar Grayburg Waterflood Unit
Eddy County, New Mexico

Dear Mr. Catanach:

Enclosed is the Affidavit of Publication for notice of the C-108 for additional water injection wells within the Maljamar Grayburg Waterflood Unit which was filed with your office on March 12, 1997.

Sincerely,

J. O. EASLEY, INC.

Bonita L. Limpus Jones
Consulting Landman

/bj
Enclosures
cc/enclosure Mr. Jerry Sexton
New Mexico Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88241

Mr. Mike Jones
The Wiser Oil Company
P. O. Box 2568
Hobbs, New Mexico 88241

Mr. Matt Eagleston
The Wiser Oil Company
8115 Preston Road, Suite 400
Dallas, Texas 75225

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.

of 1

weeks.

Beginning with the issue dated

March 13, 1997

and ending with the issue dated

March 13, 1997

Kathi Bearden

Publisher

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

Jodi Henson

Notary Public.

My Commision expires
October 18, 2000
(Seal)

LEGAL NOTICE
March 13, 1997
PROPOSED INJECTION WELLS

The Wiser Oil Company proposes to expand its Maljamar Grayburg Unit and inject water into 2 wells in Section 10, T17S-R32E, Lea County, New Mexico, to provide injection service for the existing Maljamar Grayburg Unit Waterflood, Order No. R-1538. The zones to be injected into are the Grayburg and San Andres from 3314' to 4400' with a maximum injection rate of 500 BWPD/well at a maximum pressure of 2500 psi. Any interested parties with objection or request for hearing should notify the 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.
#15086

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

01100659000 01506399

J O Easley, Inc.-Consulting La
705 W. Mescalero Rd.
a/c 434005
Roswell NM, NM 88201

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

HOBBS DISTRICT OFFICE

3/14/97

GOVERNOR

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

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:
MC _____
DHC _____
NSL _____
NSP _____
SWD _____
WFX X
PMX _____

Gentlemen:

I have examined the application for the: #63-D -10-17s-32e

Wiser Oil Co | Maljamar GB Unit | #155-F | -10-17s-32e

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

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed