WFX 9/2/97

723

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

August 14, 1997

18

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

RE: C-108
Lea "D" Waterflood Project Expansion
Eddy County, New Mexico

Dear Mr. Catanach:

Enclosed is an original and one copy of the C-108 for 8 new injection wells on the Lea "D" Lease, resulting in the expansion of the Lea "D" Waterflood Project approved under Order R-3952.

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

Sincerely,

J. O. EASLEY, INC.

Bonita L. Limpus Jones
Consulting Landman

/bj
Enclosure
cc/enclosure: Mr. Tim W. Gum
New Mexico Oil Conservation Division
811 South 1st Street
Artesia, New Mexico 88210

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: _____ Well: _____

Contact: _____ Title: _____ Phone: _____

DATE IN _____ RELEASE DATE _____ DATE OUT _____

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

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

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

___ WIPP ___ Capitan Reef

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

AREA of REVIEW WELLS

___ Total # of AOR ___ # of Plugged Wells

___ Tabulation Complete ___ Schematics of P & A's

___ Cement Tops Adequate ___ AOR Repair Required

INJECTION FORMATION

Injection Formation(s) _____ Compatible Analysis ___

Source of Water or Injectate _____

PROOF of NOTICE

___ Copy of Legal Notice ___ Information Printed Correctly

___ Correct Operators ___ Copies of Certified Mail Receipts

___ Objection Received ___ Set to Hearing _____ Date

NOTES: _____

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL? ___

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-3952 Lea "D" Waterflood Project

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 DATE: 8-14-97

* 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
LEA "D" LEASE

III. WELL DATA

The following data sheets describe the 8 Water Injection Wells for which this application is submitted by The Wiser Oil Company.

INJECTION WELL DATA SHEET

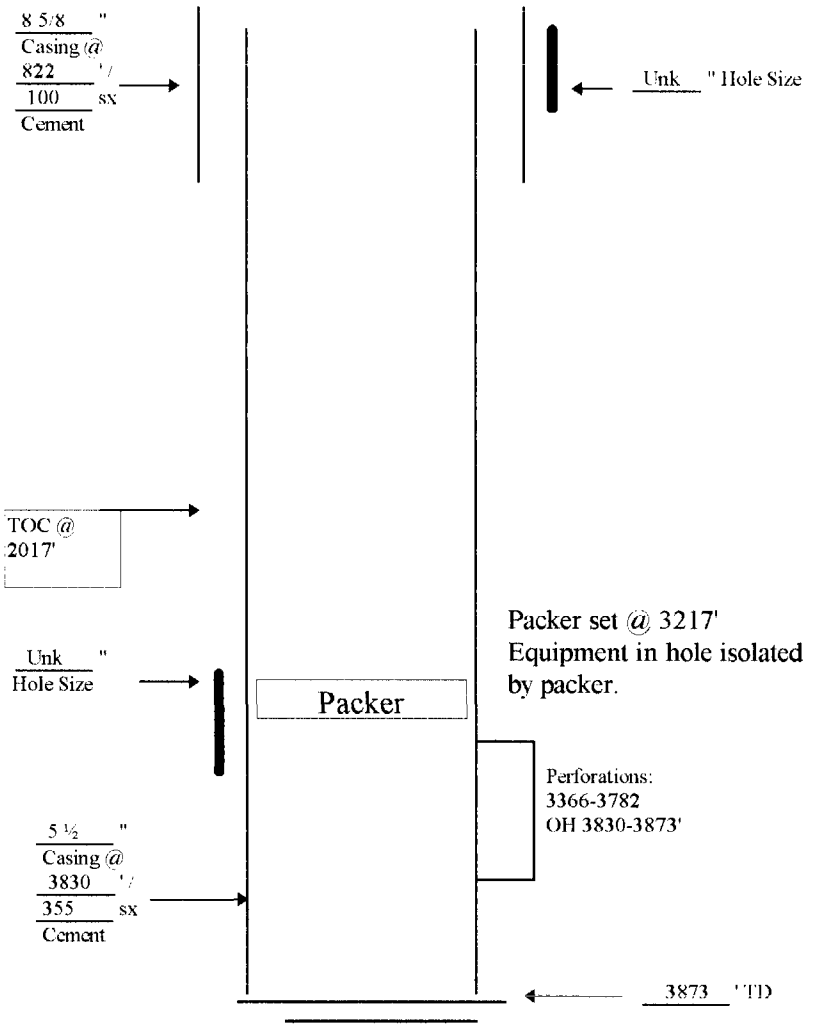
Lea "D" C-108

OPERATOR: The Wiser Oil Company LEASE: Lea "D"

WELL NO.: #1 660' FNL, 1980' FEL, Unit B 26 17S 31E

FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic



Well Construction Data

Surface Casing Set @ 822 '
Size 8 5/8" " Cemented with 100 sx.
TOC Surface feet determined by _____
Hole Size Unknown "

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

Long String Set @ 3830' '
Size 5 ½" " Cemented with 355 sx.
TOC 2017 feet determined by Calculation
Hole Size Unknown (Estimated as 7 7/8) "
Total Depth 3873' '

Injection Interval
3366 feet to 3782 feet
(perforated or open-hole; Indicate which)

Tubing Size 2 3/8" " lined with _____ set in a
(type of internal coating)
_____ packer at 3217' 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 Prod. 8-17-60 - converted to WIW 9-24-70 - TA 1994
   The Wiser Oil Company plans to reactivate this well as WIW
2. Name of the Injection formation Grayburg-San Andres Vacuum
3. Name of Field or Pool (if applicable) Grayburg 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 3366-3782'
5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area. _____

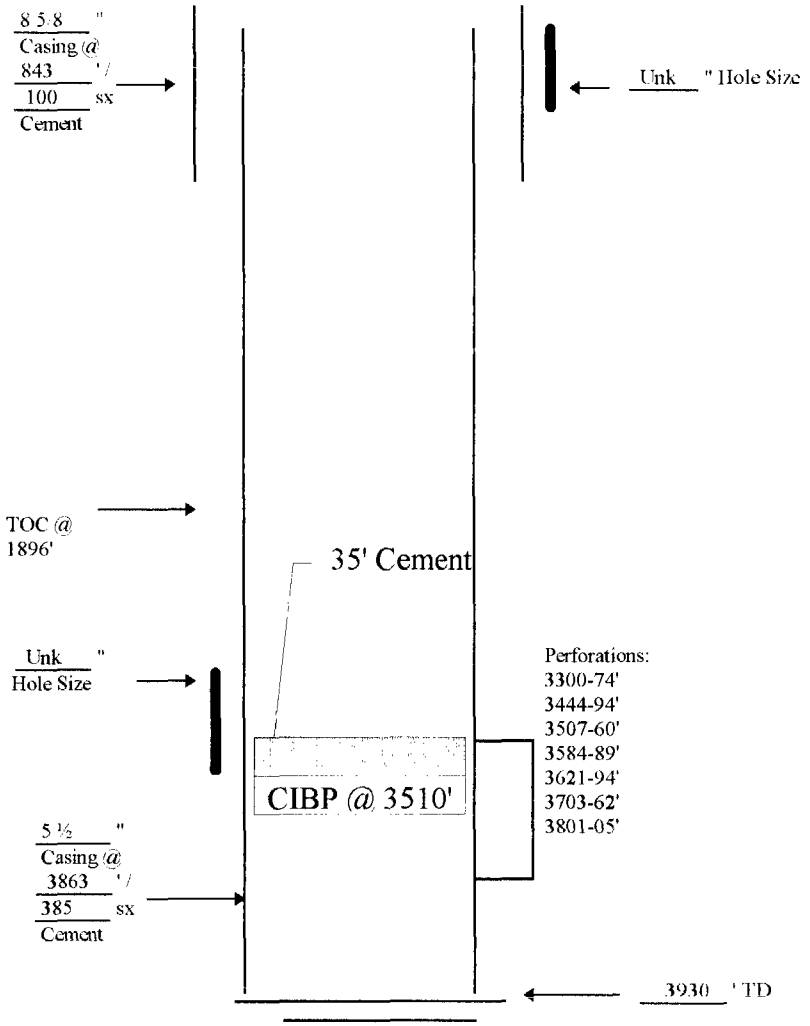
INJECTION WELL DATA SHEET

Lea "D" C-108

OPERATOR: The Wiser Oil Company — LEASE: Lea "D"

WELL NO.: #2 — FOOTAGE LOCATION: 710' FNL, 660' FEL, Unit A — SECTION: 26 — TOWNSHIP: 17S — RANGE: 31E

Schematic



Well Construction Data

Surface Casing Set @ 843 '
Size 8 5/8 " Cemented with 100 sx.
TOC Surface feet determined by _____
Hole Size Unknown "

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

Long String Set @ 3863 '
Size 5 ½ " Cemented with 385 sx.
TOC 1896 feet determined by Calculation
Hole Size Unknown (Estimated as 7 7/8) "
Total Depth 3930 '

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? _____ Yes X No
   If no, for what purpose was the well originally drilled?
   Oil Production 8-22-60 - TA 12-27-94
   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) Grayburg 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 3300-3374'; 3444-94'; 3507-89'; 3621-94'; 3703-62'; 3801-5'
5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area. _____

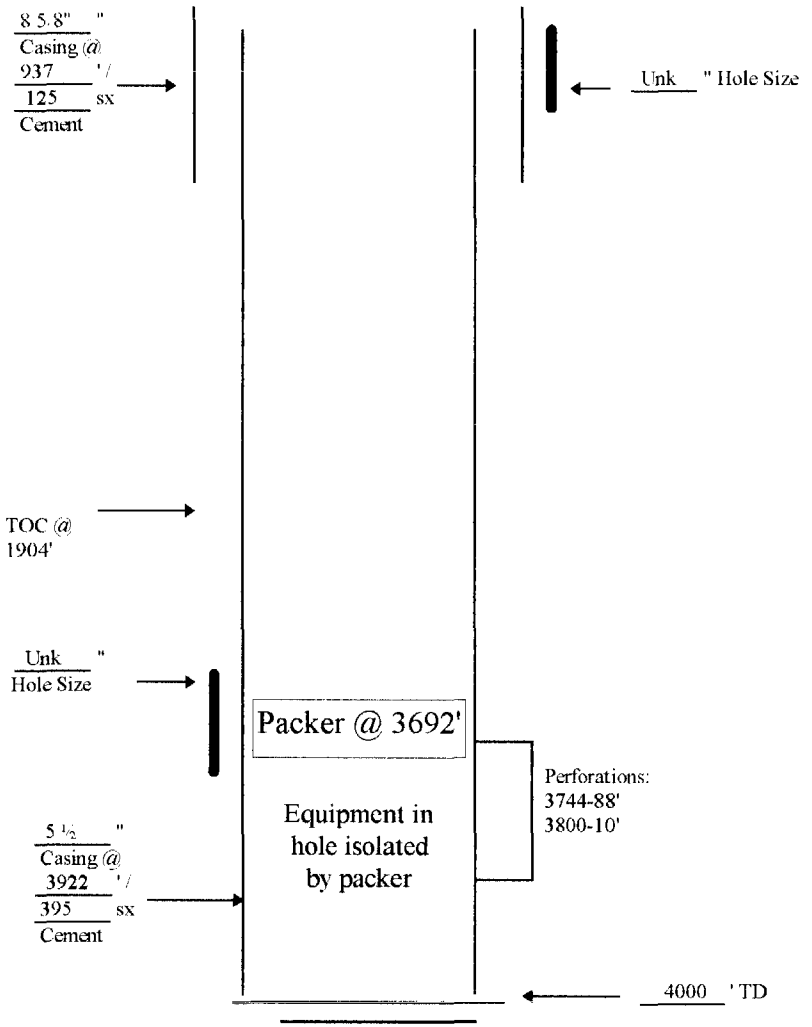
INJECTION WELL DATA SHEET

Lea "D" C-108

OPERATOR: The Wiser Oil Company — LEASE: Lea "D"

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
#3	1980' FNL, 660' FEL, Unit H	26	17S	31E

Schematic



Well Construction Data

Surface Casing Set @ 937 '
Size 8 5/8 " Cemented with 125 sx.
TOC Surface feet determined by _____
Hole Size Unknown "

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

Long String Set @ 3922 '
Size 5 ½ " Cemented with 395 sx.
TOC 1904 feet determined by Calculation
Hole Size Unknown (Estimated as 7 7/8) "
Total Depth 4000 '

Injection Interval
3744 feet to 3810 feet
(perforated or open-hole; Indicate which)

Tubing Size 2 7/8 " lined with _____ set in a
(type of internal coating)
_____ packer at 3692 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 Prod. 10-7-60 - Converted to WIW 11-28-70 - TA 1994
   The Wiser Oil Company plans to reactivate this well
2. Name of the Injection formation Grayburg-San Andres Vacuum
3. Name of Field or Pool (if applicable) Grayburg 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 3744-88'; 3800-10'
5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area. _____

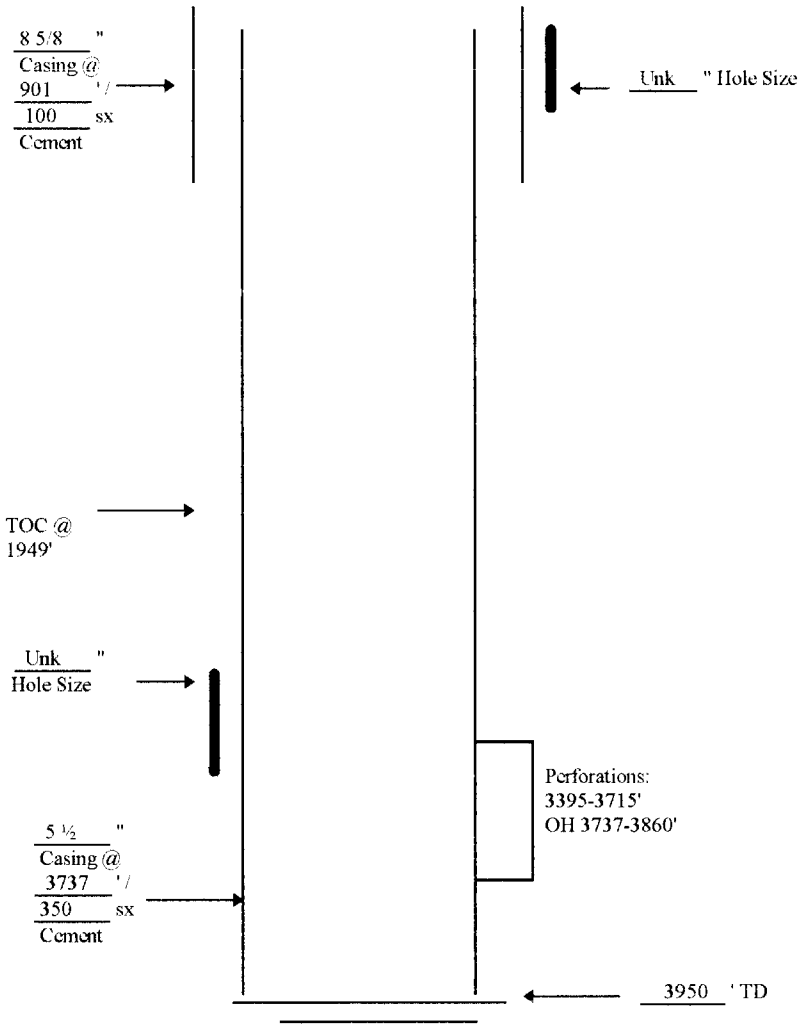
INJECTION WELL DATA SHEET

Lea "D" C-108

OPERATOR: The Wiser Oil Company — LEASE: Lea "D"

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
#4	1880' FNL, 1980' FEL, Unit G	26	17S	31E

Schematic



Well Construction Data

Surface Casing — Set @ 901 '
Size 8 5/8 " — Cemented with 100 sx.
TOC Surface — feet determined by _____
Hole Size Unknown "

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

Long String — Set @ 3737 '
Size 5 ½ " — Cemented with 350 sx.
TOC 1949 — feet determined by Calculation
Hole Size Unknown (Estimated as 7 7/8) "
Total Depth 3950 '

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 3793 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 9-23-60
   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) Grayburg 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 3395-3715'
5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area. _____

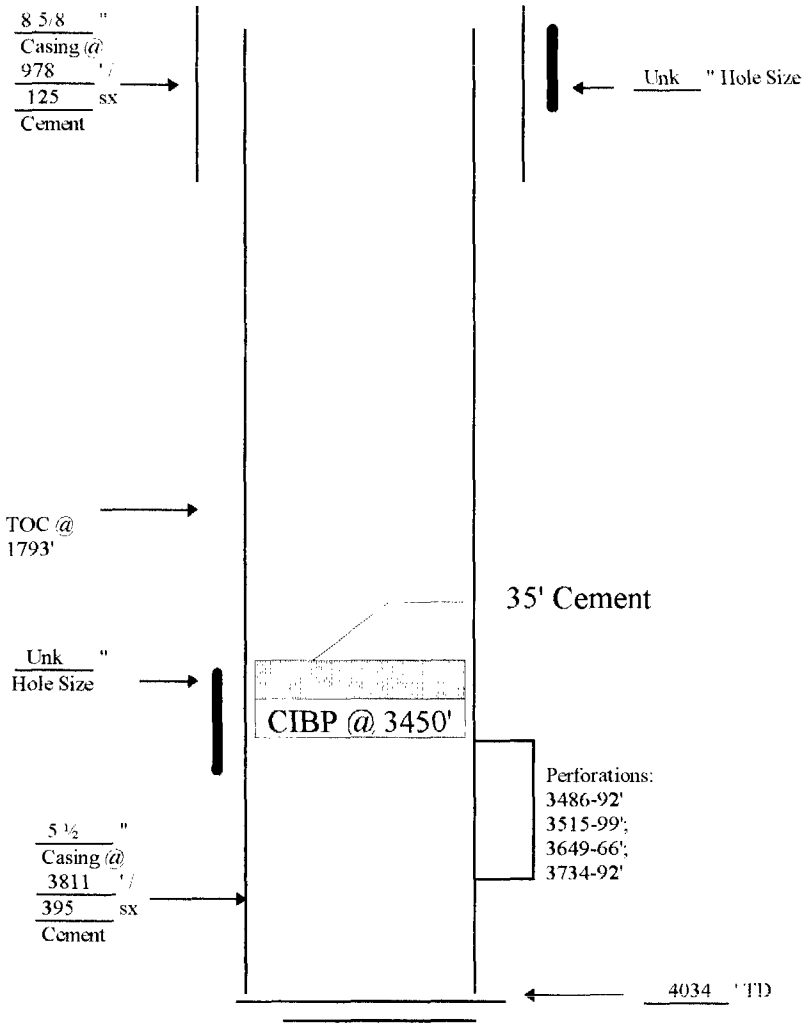
INJECTION WELL DATA SHEET

Lea "D" C-108

OPERATOR: The Wiser Oil Company — LEASE: Lea "D"

WELL NO.: #5 — 1980' FSL, 660' FEL, Unit I (FOOTAGE LOCATION) — 26 (SECTION) — 17S (TOWNSHIP) — 31E (RANGE)

Schematic



Well Construction Data

Surface Casing Set @ 978 '
Size 8 5/8 " Cemented with 125 sx.
TOC Surface feet determined by _____
Hole Size Unknown "

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

Long String Set @ 3811 '
Size 5 ½ " Cemented with 395 sx.
TOC 1793 feet determined by Calculation
Hole Size Unknown (Estimated as 7 7/8) "
Total Depth 4034 '

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 3856 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 10-22-60 - TA 11-29-94
   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) Grayburg 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 3486-92'; 3515-99'; 3649-66'; 3734-92'
5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area. _____

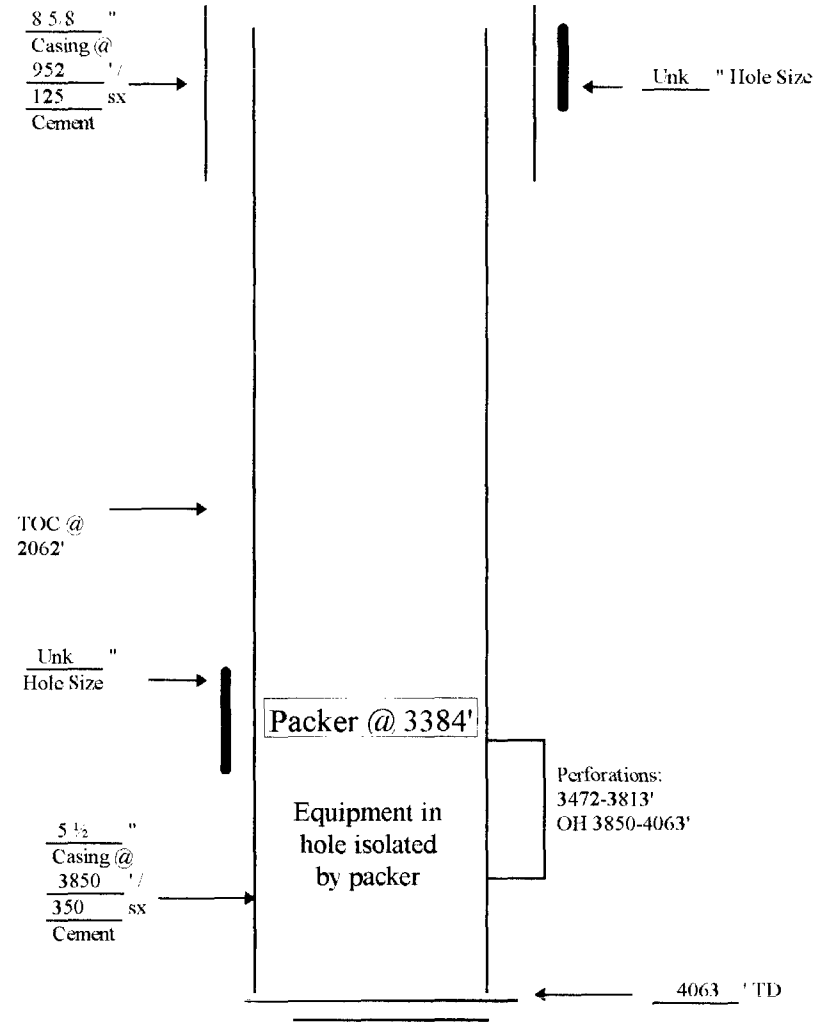
INJECTION WELL DATA SHEET

Lea "D" C-108

ERATOR The Wiser Oil Company LEASE Lea "D"

ELL NO. #6 | 1980' FSL, 1980' FEL, Unit J (FOOTAGE LOCATION) | 26 (SECTION) | 17S (TOWNSHIP) | 31E (RANGE)

Schematic



Well Construction Data

Surface Casing Set @ 952 '
Size 8 5/8 " Cemented with 125 sx.
TOC Surface feet determined by
Hole Size Unknown "

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

Long String Set @ 3850 '
Size 5 ½ " Cemented with 350 sx.
TOC 2062 feet determined by Calculation
Hole Size Unknown (Estimated as 7 7/8) "
Total Depth 4063 '

Injection Interval
3472 feet to 3813 feet
(perforated or open-hole; Indicate which)

Tubing Size 2 3/8 " lined with (type of internal coating) set in a packer at 3384 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 Prod. 12-4-60 - Converted to WIW 9-24-70 - TA 1994
   The Wiser Oil Company plans to reactivate this WIW well
2. Name of the Injection formation Grayburg-San Andres Vacuum
3. Name of Field or Pool (if applicable) Grayburg 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 3472-3813'
5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.

INJECTION WELL DATA SHEET

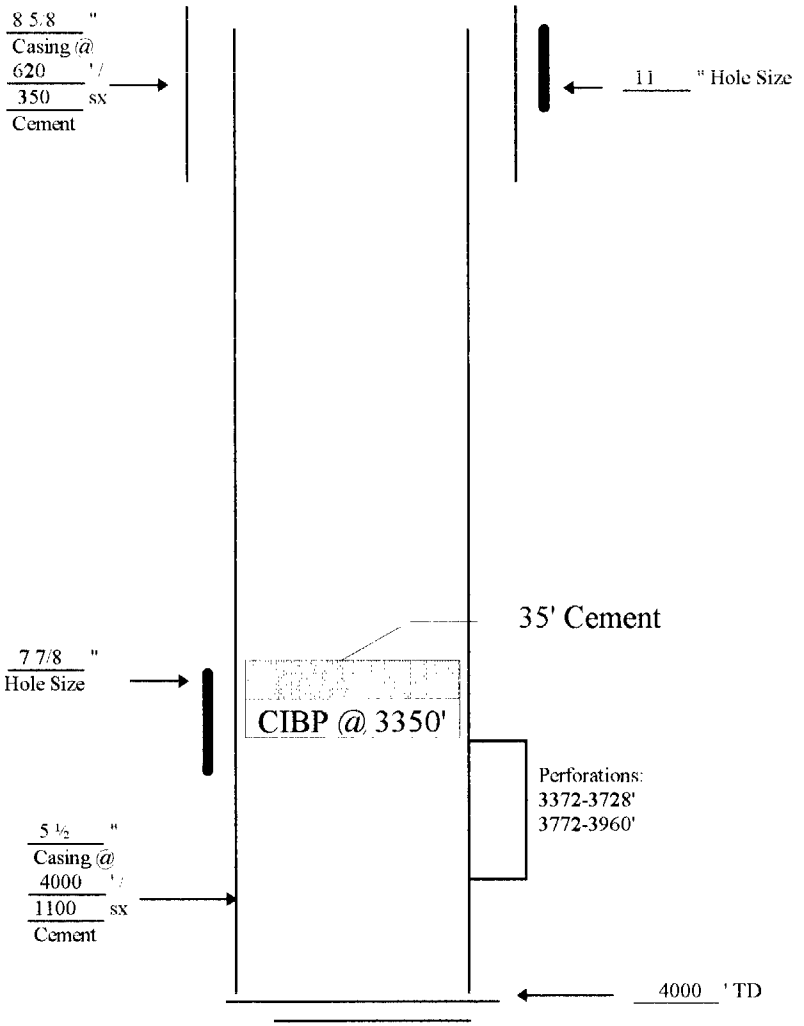
Lea "D" C-108

ERATOR The Wiser Oil Company LEASE Lea "D"

LL NO. #7 | 1980' FNL, 1980' FWL, Unit F | 26 | 17S | 31E

FOOTAGE LOCATION | SECTION | TOWNSHIP | RANGE

Schematic



Well Construction Data

Surface Casing Set @ 620 '
Size 8 5/8 " Cemented with 350 sx.
TOC Surface feet determined by
Hole Size 11 "

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

Long String Set @ 4000 '
Size 5 ½ " Cemented with 1100 sx.
TOC feet determined by
Hole Size 7 7/8 "
Total Depth 4000 '

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? Yes X No
   If no, for what purpose was the well originally drilled?
   Oil Production 6-4-72 - TA 11-29-94
   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) Grayburg 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 3372-3728'; 3772-3960'
5. Give the names and depths of any over or underlying oil or gas zones (pools) in this area.

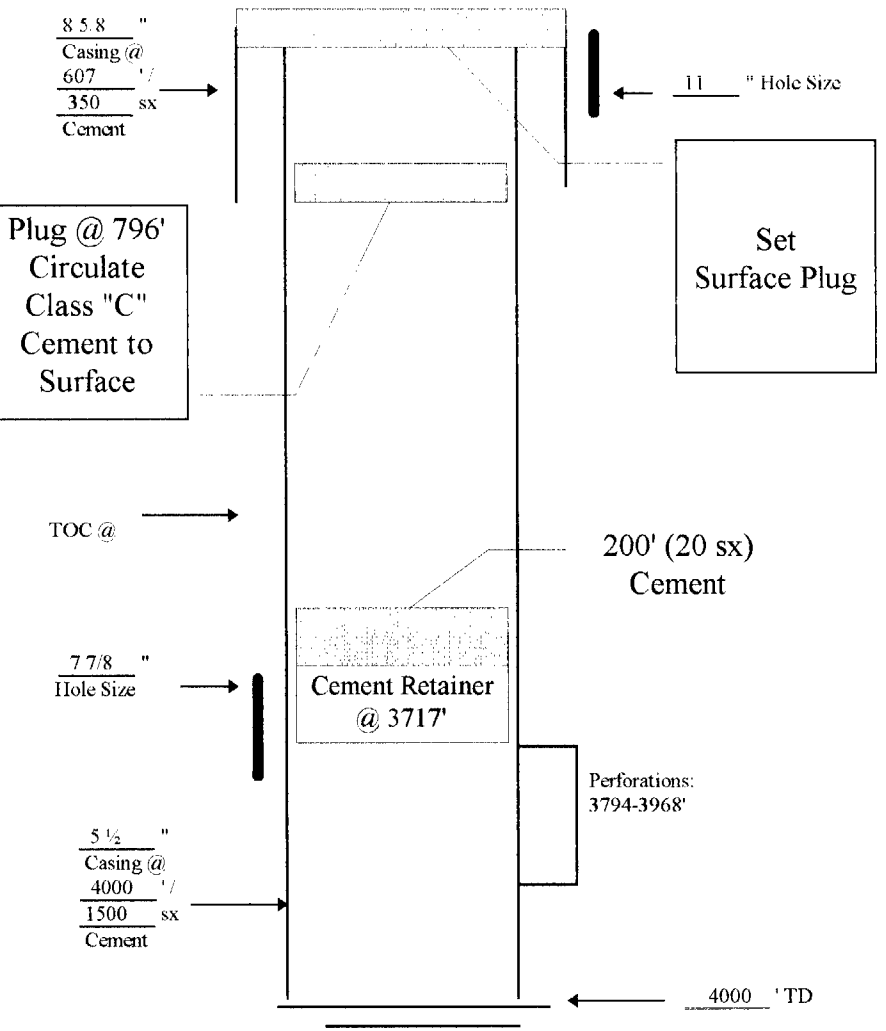
INJECTION WELL DATA SHEET

Lea "D" C-108

OPERATOR: The Wiser Oil Company — LEASE: Lea "D"

WELL NO.: #8 — FOOTAGE LOCATION: 1980' FNL, 660' FWL, Unit E — SECTION: 26 — TOWNSHIP: 17S — RANGE: 31E

Schematic



Well Construction Data

Surface Casing Set @ 607 '
Size 8 5/8 " Cemented with 350 sx.
TOC Surface feet determined by _____
Hole Size 11 "

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

Long String Set @ 4000 '
Size 5 ½ " Cemented with 1500 sx.
TOC _____ feet determined by _____
Hole Size 7 7/8 "
Total Depth 4000 '

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 3763 feet

Other type of tubing / casing seal if applicable _____

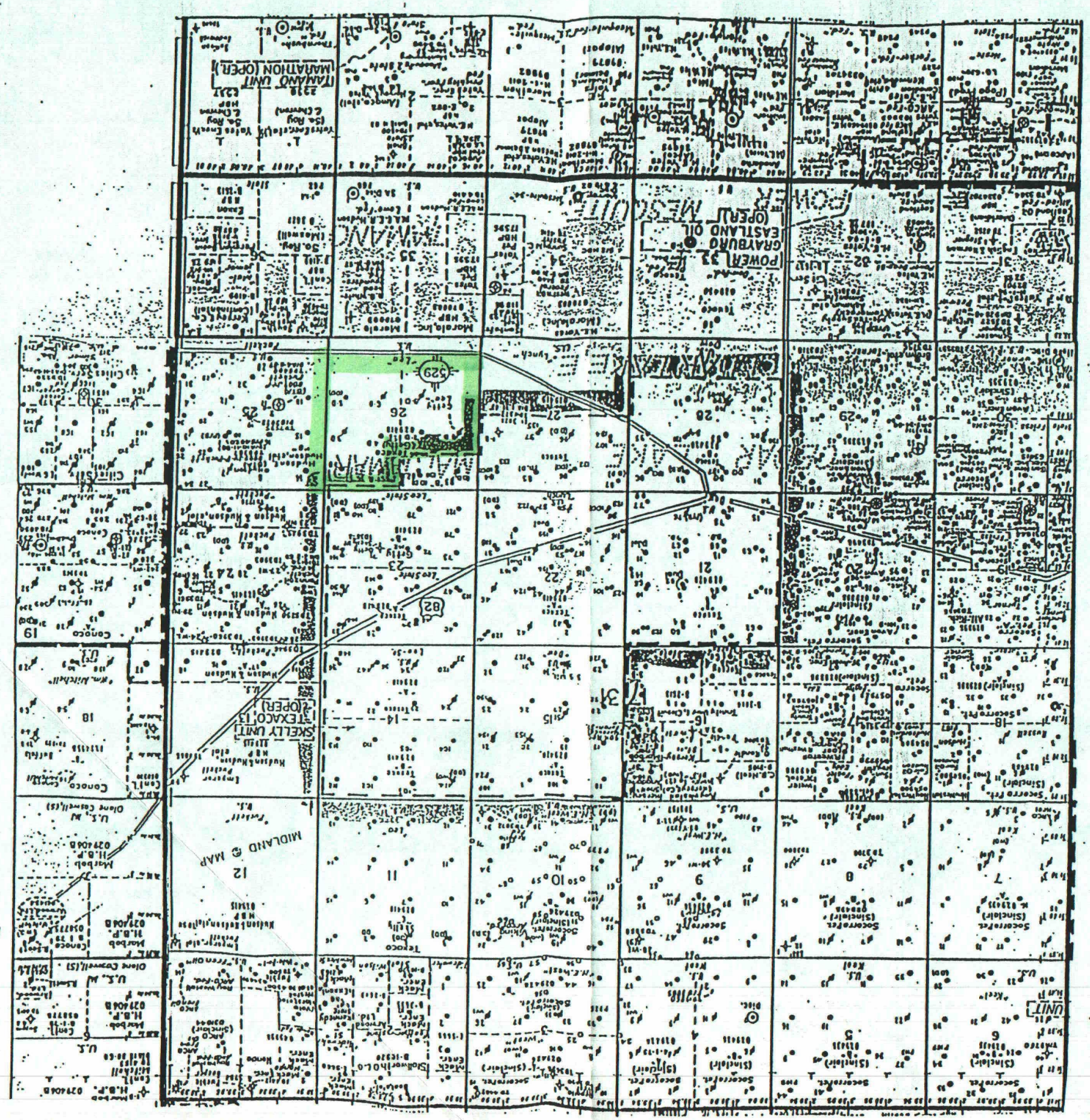
Other Data

1. Is this a new well drilled for injection? ____ Yes X No
   If no, for what purpose was the well originally drilled?
   Oil Production 8-16-72 - P&A 12-6-91
   The Wiser Oil Co. plans to re-enter this well & complete as WIW
2. Name of the Injection formation Grayburg-San Andres Vacuum
3. Name of Field or Pool (if applicable) Grayburg 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 3794-3968'
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
LEA "D" LEASE

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.

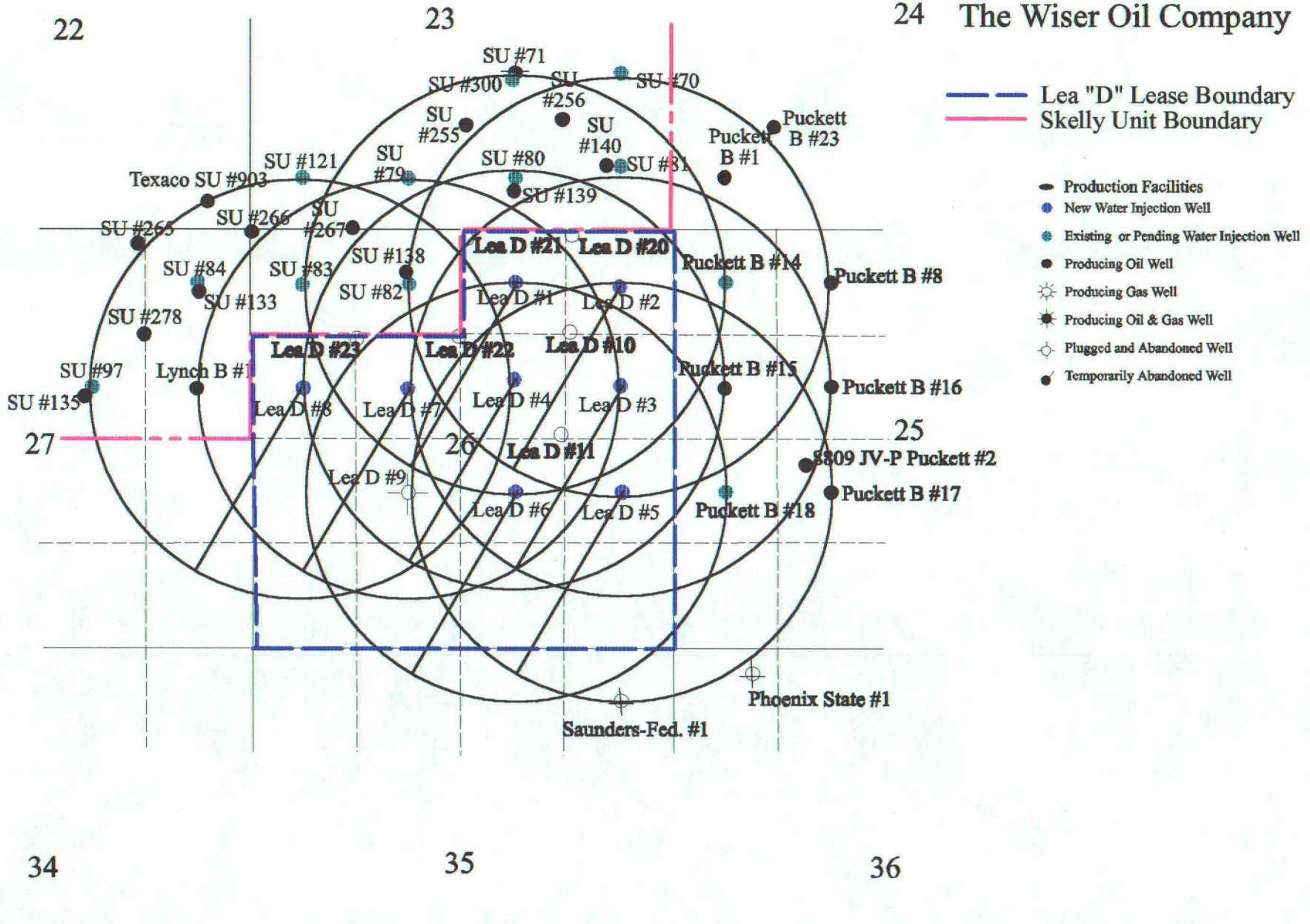


Eddy County, New Mexico

T17S - R31E

Lea "D" Lease
Eddy County, New Mexico

The Wiser Oil Company



C-108
APPLICATION FOR AUTHORIZATION TO INJECT
LEA "D" LEASE

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

Lea "D" C-108 - HALF-MILE WELL DATA SHEET

NAME	OPERATOR	LOCATION	SEC	TSHP	RG	COMPL DATE	TP	TD	HOLE SIZE	CSG SIZE	DEPTH SET	SX CMT	PERFS	TBG/ PKR	COMMENTS	LEASE
Township 17 South, Range 31 East																
Texaco SU #903	Texaco Exploration & Production Inc.	360' FSL, 540' FEL, Unit P	22	17S	31E	Pending	O	7990'	11" 7 7/8"	8 5/8" 5 ½"	605' 7985'	450 3425			Completion Pending	BLM LC-029420-A
SU #70	The Wiser Oil Co.	1980' FSL, 660' FEL, Unit I	23	17S	31E	11-24-40	O	3890'	13" 8 7/8"	10 ¾" 7"	600' 3223'	100 200	3288-3701' 3764-3866'	2 3/8" @ 3690	Estimated TOC 2133' TA 5-12-92 Pending Conversion to WIW	BLM NM-98120
SU #71	The Wiser Oil Co.	1980' FSL, 1980' FEL, Unit J	23	17S	31E	10-1-67	~~O~~ ~~WIW~~ P&A	3872'	11 ¼" 8 ¼" 7 7/8"	8 5/8" 7" 4 ½"	751' 3202' 3855'	95 150 700	3243-3830'	2 3/8" @ 3161'	Estimated TOC 1135' P&A 4-27-82 (See Attached)	BLM NM-98120
SU #255	The Wiser Oil Co.	1333' FSL, 2596' FEL, Unit J	23	17S	31E	1-28-97	O	4100'	12 ¼" 7 7/8"	8 5/8" 5 ½"	443' 4100'	325 1100	3420-3621' 3692-3819' 3836-3927'	2 7/8" @ 3947'		BLM NM-98120
SU #256	The Wiser Oil Co.	1403' FSL, 1387' FEL, Unit J	23	17S	31E	11-27-96	O	4050'	12 ¼" 7 7/8"	8 5/8" 5 ½"	442' 4050'	325 1250	3378-3588' 3717-22' 3778-3845' 3877-3918'	2 7/8" @ 3981'		BLM NM-98120
SU #300	The Wiser Oil Co.	1880' FSL, 1980' FEL, Unit J	23	17S	31E	6-11-97	WIW	4050'	12 ¼" 7 7/8"	8 5/8" 5 ½"	364' 4050'	325 1000	3365-3486' 3517-97'	2 7/8" @ 3312'		BLM NM-98120
SU #121	The Wiser Oil Co.	660' FSL, 660' FWL, Unit M	23	17S	31E	12-31-77	~~O~~ WIW	3815'	11" 7 7/8"	8 5/8" 5 ½"	673' 2600'	300 375	2374-2494' 3641-43' 3388-89' 3426-85' 3515-98' 3607-8'	2 3/8" @ 3280'	Estimated TOC 684' Converted to WIW 8-7-97	BLM NM-98120
SU #267	The Wiser Oil Co.	35' FSL, 1285' FWL, Unit M	23	17S	31E	2-5-97	O	3950'	12 ¼" 7 7/8"	8 5/8" 5 ½"	442' 3950'	325 1050	3520-3677' 3662-3826'	2 7/8" @ 3842'		BLM NM-98120
SU #79	The Wiser Oil Co.	660' FSL, 1980' FWL, Unit N	23	17S	31E	4-3-60	~~O~~ WIW	~~3798'~~ 3894'	10" 8"	8 5/8" 5 ½"	778' 3634'	100 375	3634-3798' Open Hole 3281-3610'	2" @ 3602'	Estimated TOC 1831' Converted to WIW 8-17-70	BLM NM-98120
SU #80	The Wiser Oil Co.	660' FSL, 1980' FEL, Unit O	23	17S	31E	5-22-60	~~O~~ WIW	3878'	10" 8"	8 5/8" 5 ½"	785' 3758'	100 375	3597-3710' 3269-3581'	2 3/8" @ 3833'	TOC 1330' (CB Log) Converted to WIW 3-18-97	BLM NM-98120
SU #139	The Wiser Oil Co.	510' FSL, 1980' FEL, Unit O	23	17S	31E	6-20-78	O	2679'	11" 7 7/8"	8 5/8" 5 ½"	699' 2679'	275 800	2378-2469'	2 3/8" @ 2489'		BLM NM-98120
SU #81	The Wiser Oil Co.	810' FSL, 660' FEL, Unit P	23	17S	31E	7-2-60	~~O~~ WIW	~~3840'~~ 3910'	10" 8"	8 5/8" 5 ½"	799' 3784'	100' 375'	3784-3940' Open Hole 3300-3618' 3625-3745'	2 3/8" @ 3804'	Estimated TOC 1981' Converted to WIW 8-14-70	BLM NM-98120
SU #140	The Wiser Oil Co.	810' FSL, 810' FEL, Unit P	23	17S	31E	9-11-78	O	2700'	11" 7 7/8"	8 5/8" 5 ½"	690' 2700'	275 600	2414-2542'	2 3/8" @ 2584'		BLM NM-98120
Puckett "B" #1	William A. & Edward R. Hudson	660' FSL, 660' FWL, Unit M	24	17S	31E	4-22-41	O	3965'	- 8" (Est)	10 ¾" 7"	695' 3302'	75 150	3425-3650' 3500-3700'	2 3/8" @ 3829'	Estimated TOC 1679'	BLM LC-029415-A

Lea "D" C-108 - HALF-MILE WELL DATA SHEET

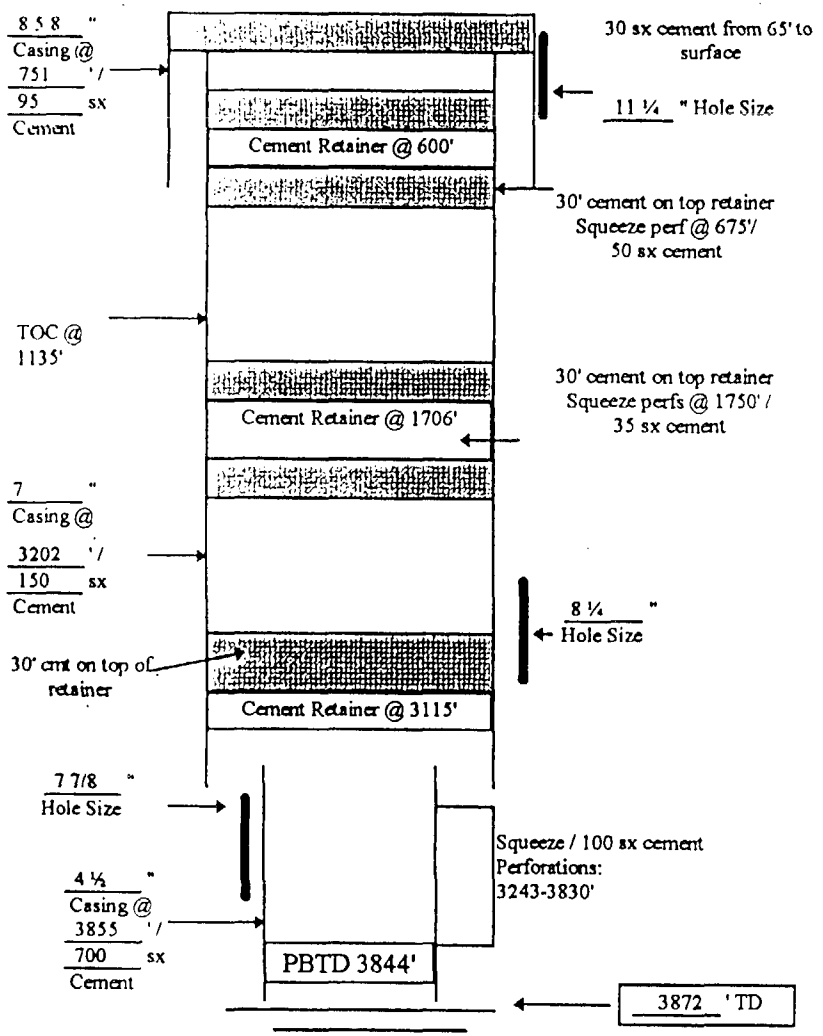
NAME	OPERATOR	LOCATION	SEC	TSHP	RG	COMPL DATE	TP	TD	HOLE SIZE	CSG SIZE	DEPTH SET	SX CMT	PERFS	TBG PKR	COMMENTS	LEASE
Puckett "B" #23	William A. & Edward R. Hudson	1295' FSL, 1295' FWL, Unit M	24	17S	31E	4-16-65	~~WIW~~ O	3943'	- 7 7/8" (Est)	8 5/8" 5 ½"	587' 3938'	150 300	3519-33' 3658-72' 3833-58'	2" @ 3580'	Estimated TOC 2406' Converted to Producer 11-22-76	BLM LC-029415-B
Puckett "B" #8	William A. & Edward R. Hudson	660' FNL, 1980' FWL, Unit C	25	17S	31E	Pre 1952	O	3770'	Unkn	Unkn	Unkn	Unkn	Unkn	3" @ 3710'	File is incomplete	BLM LC-029415-B
Puckett "B" #14	William A. & Edward R. Hudson	660' FNL, 660' FWL, Unit D	25	17S	31E	4-26-60	~~O~~ WIW	4000'	- 7 7/8" (Est)	8 5/8" 5 ½"	631' 3994'	100 350	3542-48' 3561-67' 3585-91' 3720-28' 3880-94'	2 3/8" @ 3500'	Estimated TOC 2206' Converted to WIW 6-11-70	BLM LC-029415-B
Puckett "B" #15	William A. & Edward R. Hudson	1980' FNL, 660' FWL, Unit E	25	17S	31E	6-13-60	O	3990'	- 7 7/8" (Est)	8 5/8" 5 ½"	950' 3867'	100 350	3517-34' 3788-98'	2" @ 3550'	Estimated TOC 2079'	BLM LC-029415-B
Puckett "B" #16	William A. & Edward R. Hudson	1980' FNL, 1980' FWL, Unit F	25	17S	31E	6-28-60	O	8010' PB 4005'		13 3/8" 8 5/8"	302' 4149'	250 2240	3776-3802' 3839-48' 3952-58' 3964-68' 3972-76'	2" @ 3651'		BLM LC-029415-B
8809 JV-P Puckett #2	William A. & Edward R. Hudson	2310' FSL, 1650' FWL, Unit K	25	17S	31E	11-20-93	O	4100'	17 ½" 11"	13 3/8" 8 5 8"	400' 4150'	500 1500	3807-3824' 3829-3845'	2 3/8" @ 3761		BLM LC-029415-B
Puckett #17	William A. & Edward R. Hudson	1980' FSL, 1980' FWL, Unit K	25	17S	31E	6-26-60	O	4004'	- 7 7/8" (Est)	8 5/8" 5 ½"	965' 4000'	100 350	3910-20' 3925-35'	2" @ 3900'	Estimated TOC 2212'	BLM LC-029415-B
Puckett "B" #18	William A. & Edward R. Hudson	1980' FSL, 660' FWL, Unit L	25	17S	31E	8-4-60	~~O~~ WIW	3933'	- 7 7/8" (Est)	8 5/8" 5 ½"	998' 3934'	200 350	3806-27' 3841-50' 3868-78'	2" @ 3751'	Estimated TOC 2146' Converted to WIW	BLM LC-029415-B
Lea "D" #10	The Wiser Oil Co.	1303' FNL, 1306' FEL, Unit A	26	17S	31E	Pending	O	4200'	12 ¼" 7 7/8"	8 5/8" 5 ½"	462' 4200'	300 950			Completion pending	BLM LC-0294180-D
Lea D #20	The Wiser Oil Co.	10' FNL, 1267' FEL, Unit A	26	17S	31E	Pending	O								Drilling Pending	BLM NM-98120
Lea D #21	The Wiser Oil Co.	103' FNL, 2597' FEL, Unit B	26	17S	31E	Pending	O								Drilling Pending	BLM LC-029418-B
SU #82	The Wiser Oil Co.	660' FNL, 1980' FWL, Unit C	26	17S	31E	5-23-66	O	3877'	10" 8"	8 5/8" 5 ½"	803' 3681'	125 370	3321-3517' 3555-3642' 3608-42' 3748-3877'	2 3/8" @ 3282'	Estimated TOC 1902' Converted to WIW 7-18-97	BLM NM-98120
SU #138	The Wiser Oil Co.	510' FNL, 1980' FWL, Unit C	26	17S	31E	7-1-78	O	2700'	11" 7 7/8"	8 5/8" 5 ½"	695' 2700'	275 650	2410-98' 2509-37'	2 3/8" @ 2541'		BLM NM-98120
SU #83	The Wiser Oil Co.	660' FNL, 660' FWL, Unit D	26	17S	31E	5-6-60	~~O~~ WIW	3900'	10" 8"	8 5/8" 5 ½"	783' 3700'	100 375	3700-3779' Open Hole 3323-3678'	2 3/8" @ 3223' & 2320'	Estimated TOC 1897' Converted to WIW 4-16-97	BLM NM-98120

Lea "D" C-108 - HALF-MILE WELL DATA SHEET

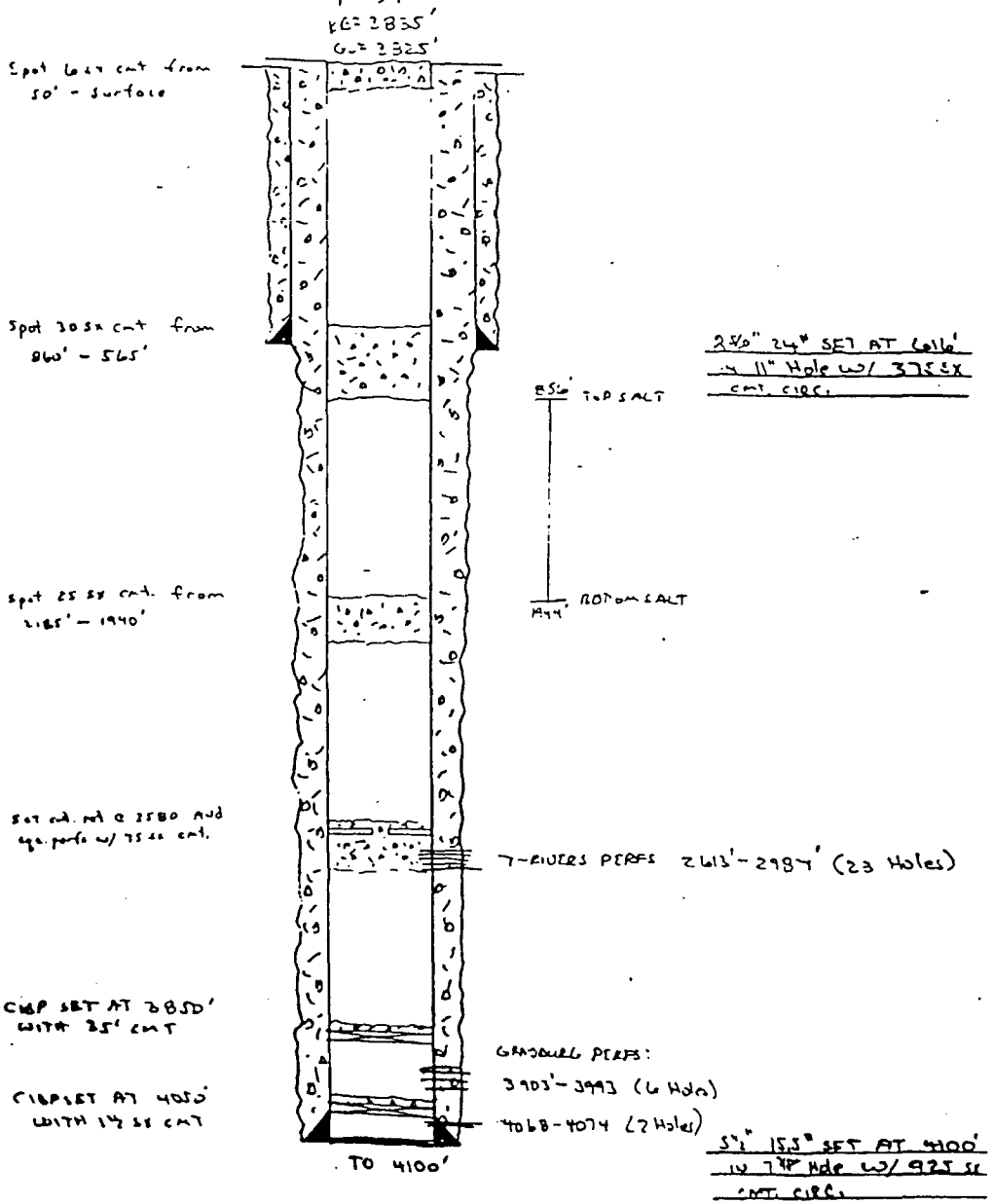
NAME	OPERATOR	LOCATION	SEC	TSHP	RG	COMPL DATE	TP	TD	HOLE SIZE	CSG SIZE	DEPTH SET	SX CMT	PERFS	TBG/ PKR	COMMENTS	LEASE
SU #266	The Wiser Oil Co.	35' FNL, 33' FWL, Unit D	26	17S	31E	8-20-96	O	4100'	12 ¼" 7 7/8"	8 5/8" 5 ½"	456' 4100'	325 1050	3521-3625' 3685-3760' 3848-51' 3899-3915'	2 7/8" @ 3819'		BLM NM-98120
Lea D #22	The Wiser Oil Co.	1330' FNL, 2615' FWL, Unit F	26	17S	31E	Pending	O								Drilling Pending	BLM NM-98120
Lea D #23	The Wiser Oil Co.	1330' FNL, 1330' FWL, Unit F	26	17S	31E	Pending	O								Drilling Pending	BLM LC-029418-B
Lea "D" #11	The Wiser Oil Co.	2595' FNL, 1339' FEL, Unit G	26	17S	31E	Pending	O								Drilling	BLM LC-029418-B
Lea D #9	Texaco Exploration and Prod. Inc.	1980' FSL, 1980' FWL, Unit K	26	17S	31E	3-16-75	~~O~~ P&A	4100'	11" 7 7/8"	8 5/8" 5 ½"	616' 4100'	375 925	3903-3993' 4068' 4074' 2613-2987'	2 7/8" @ 3921'	P&A 12-4-90 (See Attached)	BLM LC- 029418-B
SU #84	The Wiser Oil Co.	660' FNL, 660' FEL, Unit A	27	17S	31E	7-1-66	~~O~~ WIW	3920'	10" 8"	8 5/8" 5 ½"	778' 3708'	100 365	3426-3688' 3349-3400'	2 3/8" @ 3737'	Estimated TOC 1953 Converted to WIW 3-20-97	BLM NM-98121
SU #133	The Wiser Oil Co.	760' FNL, 660' FEL, Unit A	27	17S	31E	12-21-77	O	2700'	11" 7 7 8"	8 5/8" 5 ½"	690' 2700'	275 928	2422-2502'	2 3/8" @ 2538'		BLM NM-98121
SU #265	The Wiser Oil Co.	158' FNL, 1438' FEL, Unit B	27	17S	31E	1-21-97	O	3950'	12 ¼" 7 7/8"	8 5/8" 5 ½"	443' 3950'	325 1150	3540-3668' 3703-3869'	2 7/8" @ 3861'		BLM NM-98121
SU #278	The Wiser Oil Co.	1310' FNL, 1330' FEL, Unit B	27	17S	31E	3-4-97	O	4100'	12 ¼" 7 7/8"	8 5/8" 5 ½"	431' 4100'	325 1150	3820-25' 3696-3781'	2 7/8" @ 3661'		BLM NM-98121
SU #97	The Wiser Oil Co.	1980' FNL, 1980' FEL, Unit G	27	17S	31E	9-8-60	O	3945'	10" 8"	8 5/8" 5 ½"	880' 3812'	125 375	3429-3787'	2" @ 3812'	Estimated TOC 2009 TA Pending Conversion to WIW	BLM NM-98121
Lynch B #1	Texaco Exploration and Prod. Inc.	1980' FNL, 660' FEL, Unit H	27	17S	31E	1-5-43	O	4377'	- 8" (Est)	8 5/8" 7"	758' 3330'	200 200			Estimated TOC 1167'	BLM NM-98121
Suanders Fed #1	Robert B. Whitehead	660' FNL, 660' FEL, Unit A	35	17S	31E	9-6-57	P&A	4005'							Dry Hole	BLM LC-029419-B
Phoenix State #1	Santa Rita Exploration Corp.	330' FNL, 990' FWL, Unit D	36	17S	31E	1-3-85	P&A	4530'	12 ¼" 7 7/8"	8 5/8" 5 ½"	750' 4396'	500 1450	3883-3983' 4018-51'	2 3/8" @ 3965'	Dry Hole P&A 4-2-85	V-409

SU #71

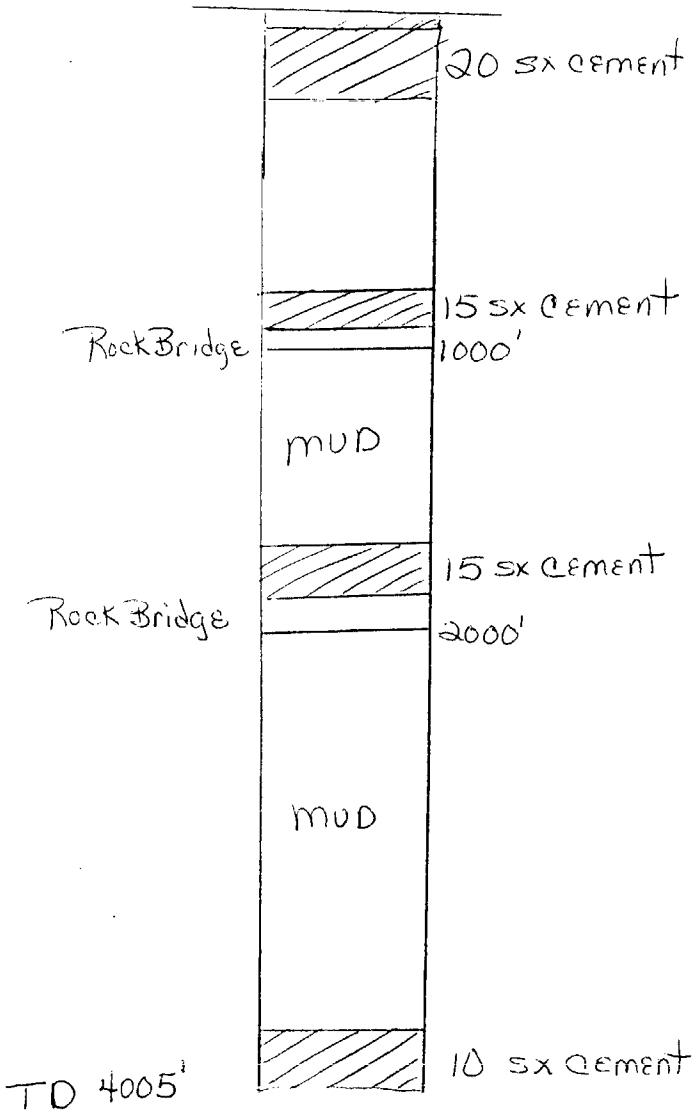
Schematic



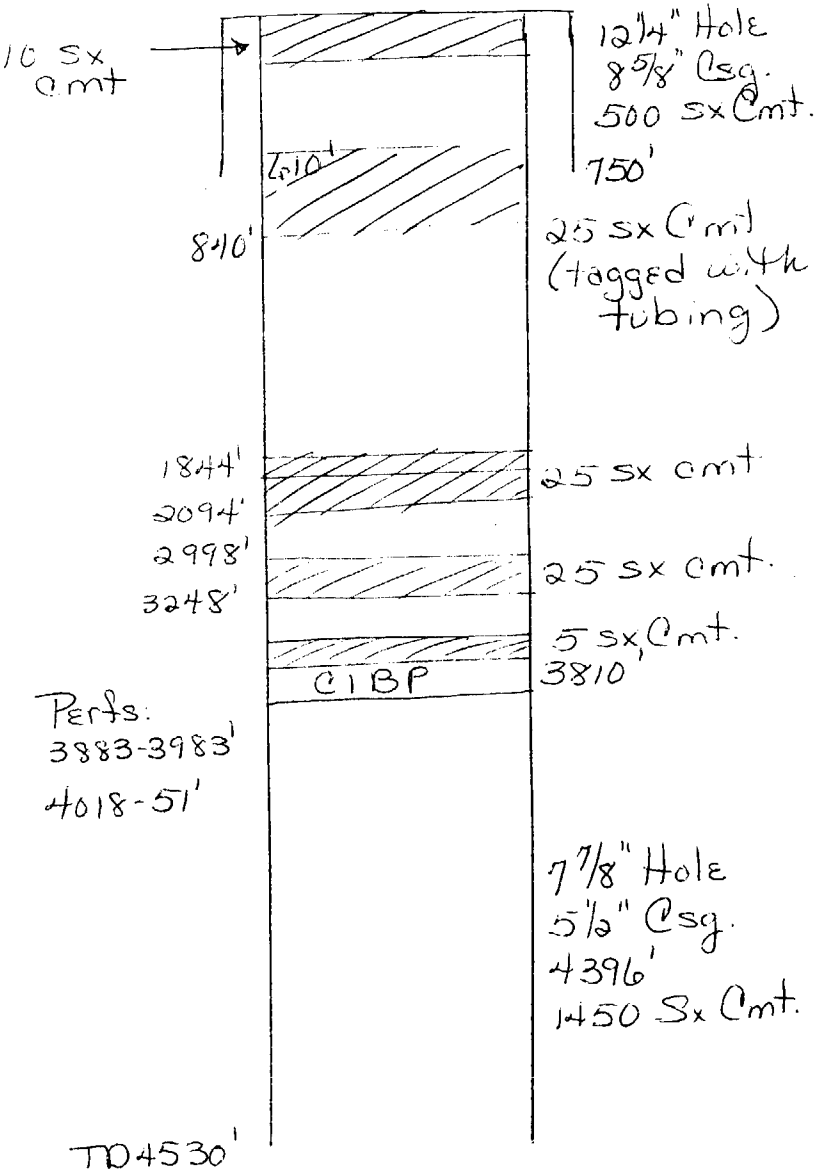
Lea "D" #9
P+A 12-4-90



Saunders Fed. #1
P+A 9-6-57



Phoenix State #1
P+A 4-2-85



C-108
APPLICATION FOR AUTHORIZATION TO INJECT
LEA "D" LEASE

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: 2000 psi
   Maximum Injection Pressure; 2100 psi

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

   Produced water: Water Analysis Reports on water produced from the Caprock Maljamar Unit are attached as Exhibit VII-A. The data contained therein is representative of water produced across the entire Lea "D" Lease.

   Extraneous Water: A Water Analysis Report on extraneous water being obtained from Conoco, as prepared by Capitan Chemicals, is attached as Exhibit VII-B.

Exhibit VII-A

Permian Treating Chemicals

WATER ANALYSIS REPORT

SAMPLE

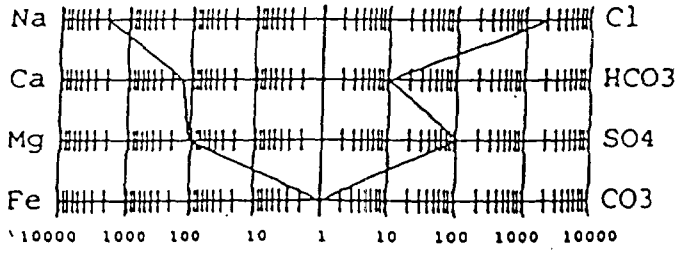
Oil Co. : Wiser Oil Co.
Lease : CMU Battery 'B'
Well No.: Water Transfer Pump
Salesman:

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

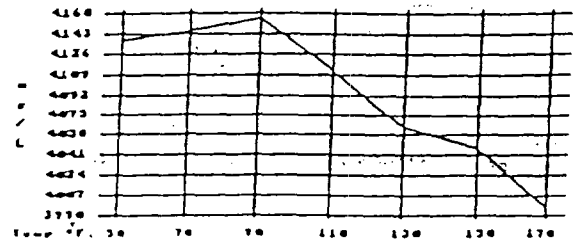
ANALYSIS

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	
	Dissolved Gasses			MG/L	EQ. WT. *MEQ/L
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 H2S, CO2, Oxygen in solution.

Concoa Water

Exhibit VII-B

Capitan Chemicals

WATER ANALYSIS REPORT

SAMPLE

Oil Co. : The Wiser Oil Co.
Lease : Dan Lindsey
Well No.: Fresh Water
Sec/Blk/Svy:

Sample Loc. :
Date Analyzed: 01-November-1995
Date Sampled :

ANALYSIS

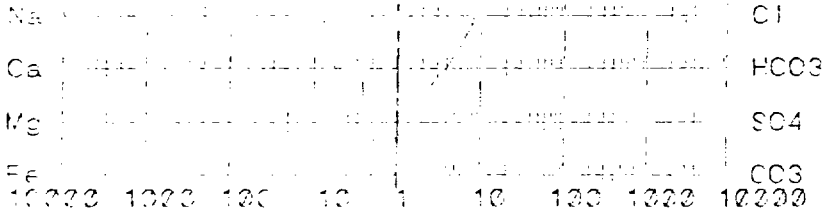
1.	pH	8.130	
2.	Specific Gravity 60/60 F.	1.003	
3.	$CaCO_3$ Saturation Index @ 80 F.	+1.137	
	@ 140 F.	+1.737	

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

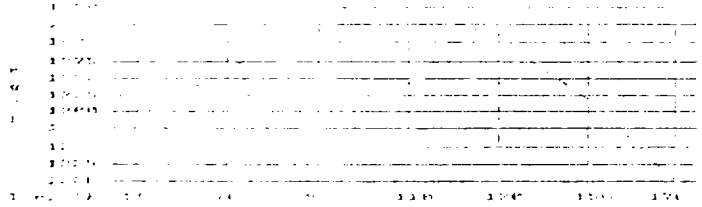
Cations						
7.	Calcium	(Ca^{++})		50	/ 20.1 =	2.49
8.	Magnesium	(Mg^{++})		30	/ 12.2 =	2.46
9.	Sodium	(Na^{+})	(Calculated)	199	/ 23.0 =	8.65
10.	Barium	(Ba^{++})		5	/ 68.7 =	0.07

Anions						
11.	Hydroxide	(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	0.81	55
$MgCl_2$	47.62	0.20	14
$NaHCO_3$	84.03	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.

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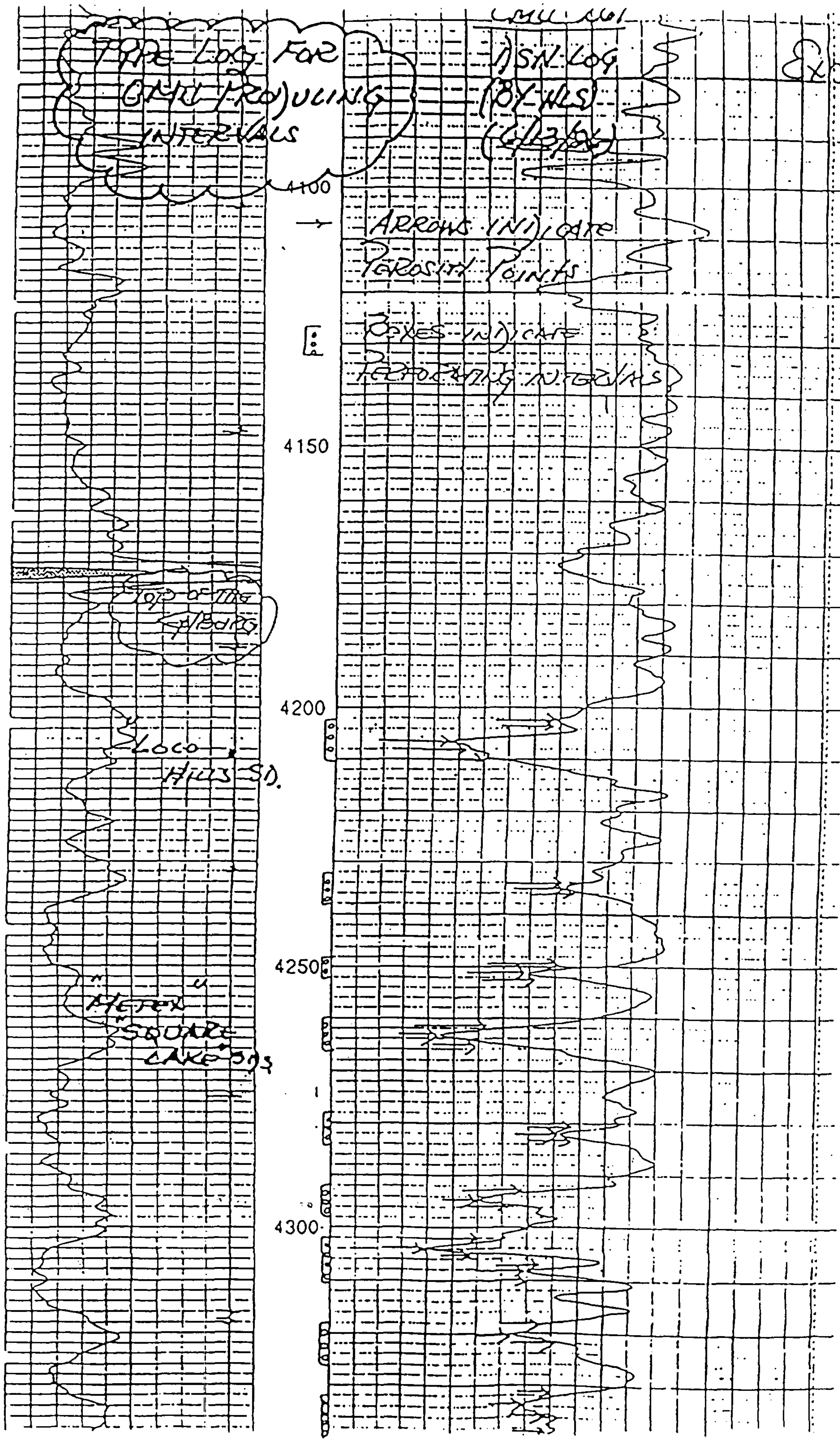
APPLICATION FOR AUTHORIZATION TO INJECT
LEA "D" LEASE

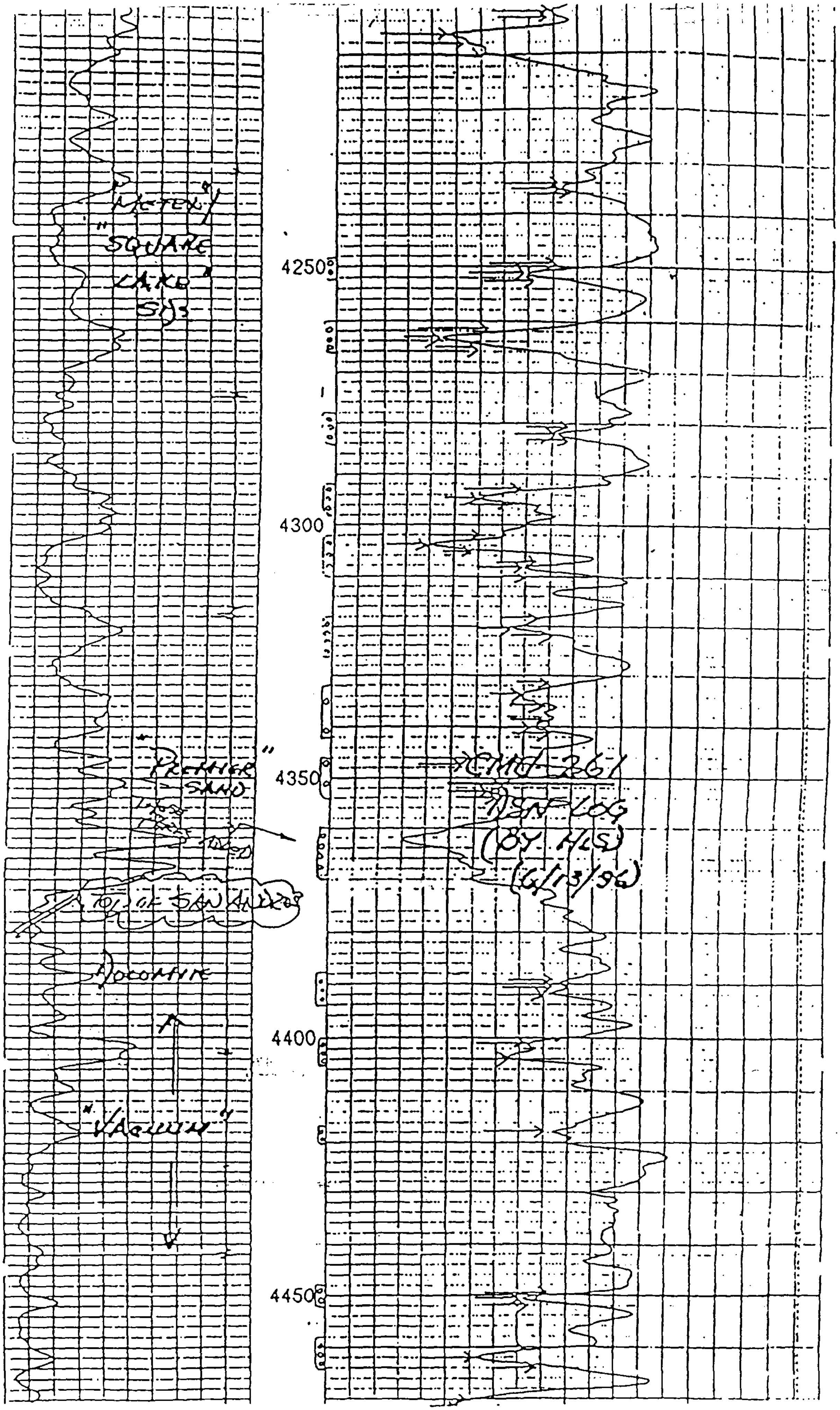
VIII. GEOLOGICAL DATA

The proposed injection interval is in the Grayburg-San Andres Vacuum formations at an average depth of 3900 feet. The Grayburg formation primarily consists of quartz sands with dolomitic cementation; while the San Andres Vacuum 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.

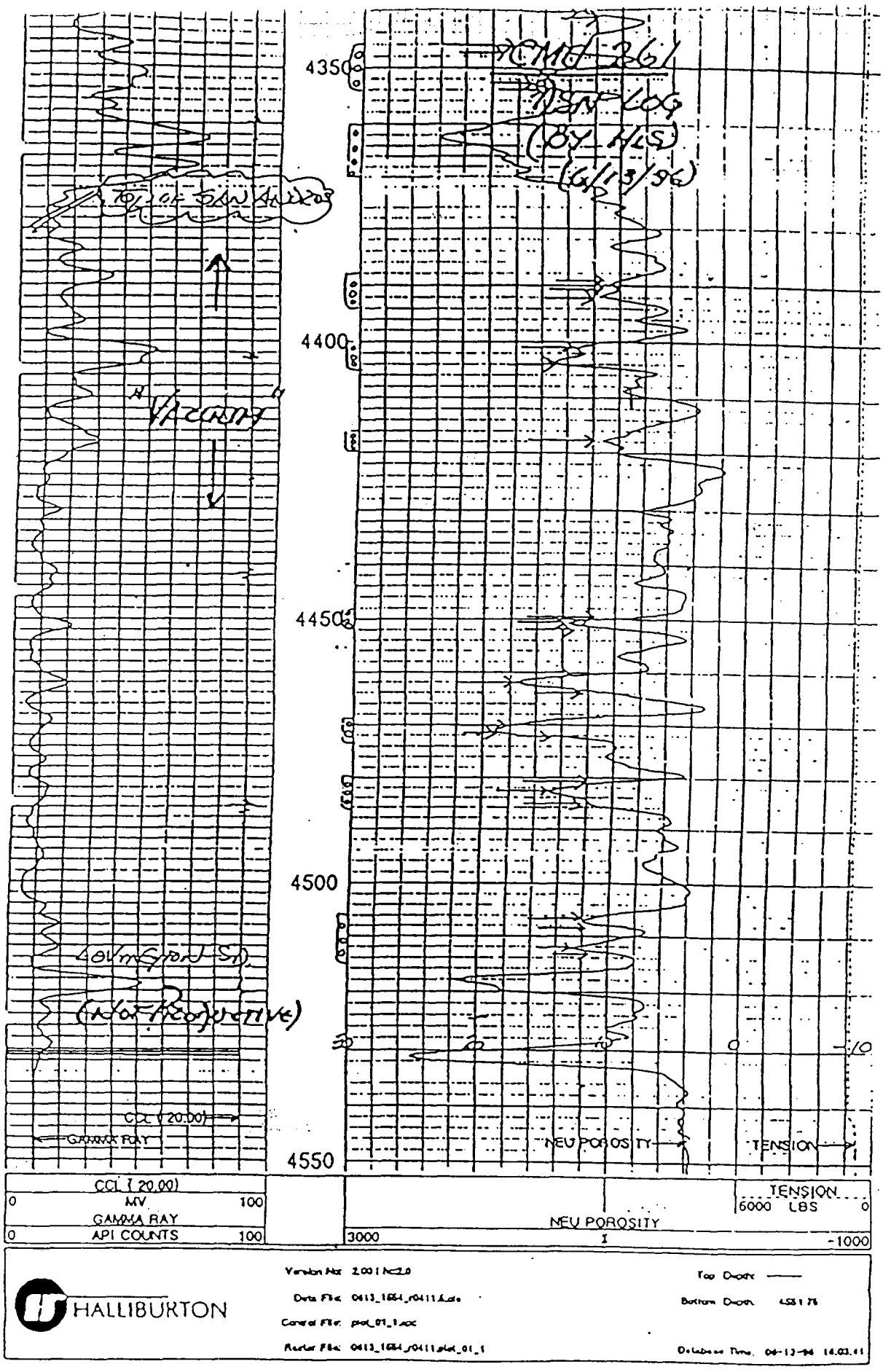
Attached, as Exhibits VIII-A and VIII-B, are two Type Logs illustrating typical geology, lithology, thickness, and depths. Although this is generally representative of the Lea "D" Lease, and wells have been drilled which have come in right on target as illustrated here, there is a tendency for Lea "D" Lease wells to come in anywhere from 200' shallower to an extreme of 1000' shallower than illustrated on these logs.

Exhibit VIII-A





"SQUARE
LAKE"
4250
4300
"PREMIER"
SAND
4350
CMU 261
TOP OF SAN ANDRES
4400
"VACUUM"
4450


4350
4400
4450
4500
4550
GAMMA RAY
CCL (-20.00)
NEU POROSITY
TENSION
CCL (-20.00)
0
MV
100
GAMMA RAY
0
API COUNTS
100
3000
-1000
6000 LBS
0
HALLIBURTON

TYPE LOG FOR CMU SHOWING Exh. b, F VIII-B

FORMATION TOPS

TYPE LOG

HALLIBURTON

GAMMA COLLAR

DSN

1

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

COMPANY HISER OIL COMPANY INC.

WELL CMU #160

FIELD MALJAMAR GRAYBURG SAN ANDRES

COUNTY LEA STATE N.M.

API NO. 30-025-32327 OTHER SERVICES

LOCATION : 48'FSL & 15?' FWL CELL.PERF.
UNIT LETTER N

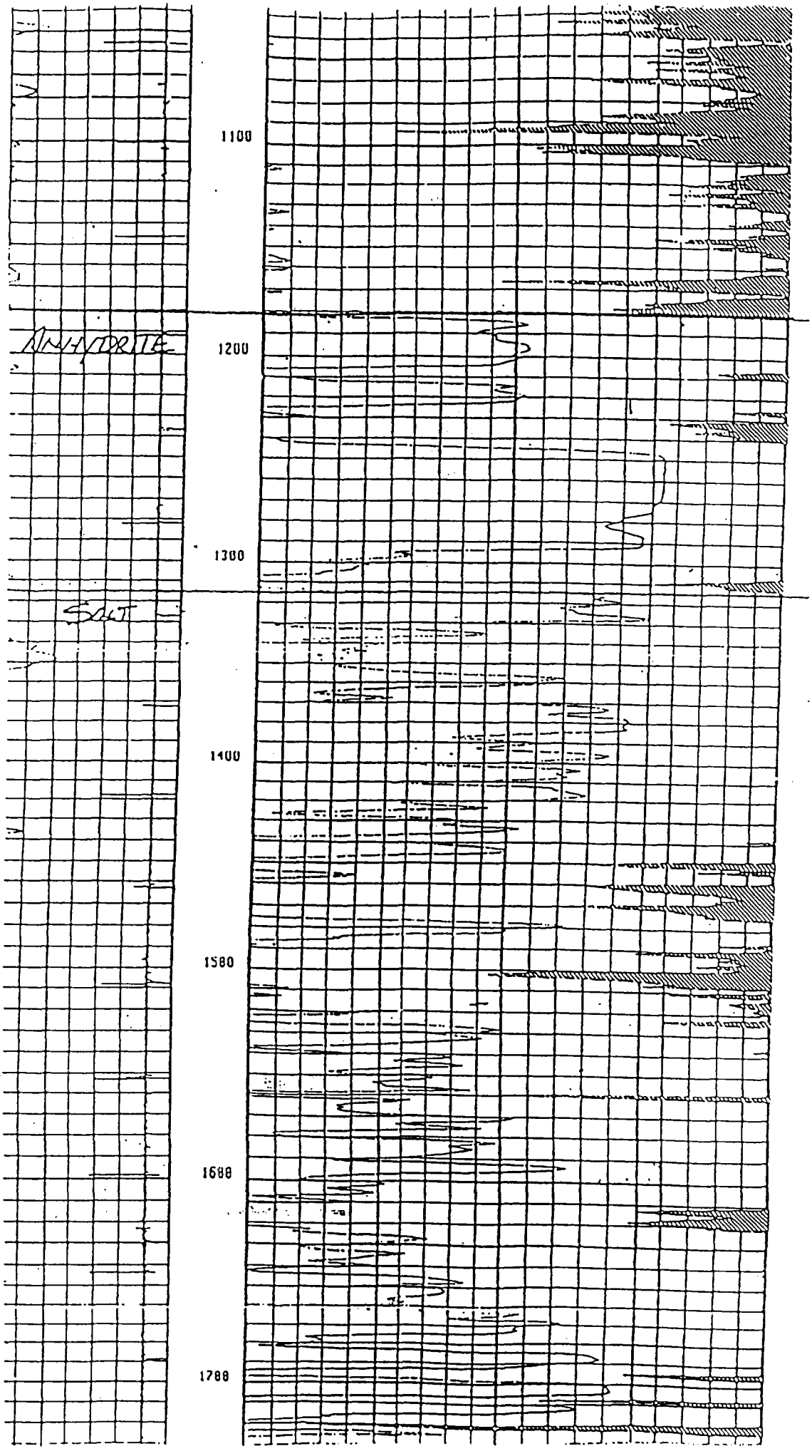
SEC. 18 TWP. 17-S RGE. 33-E

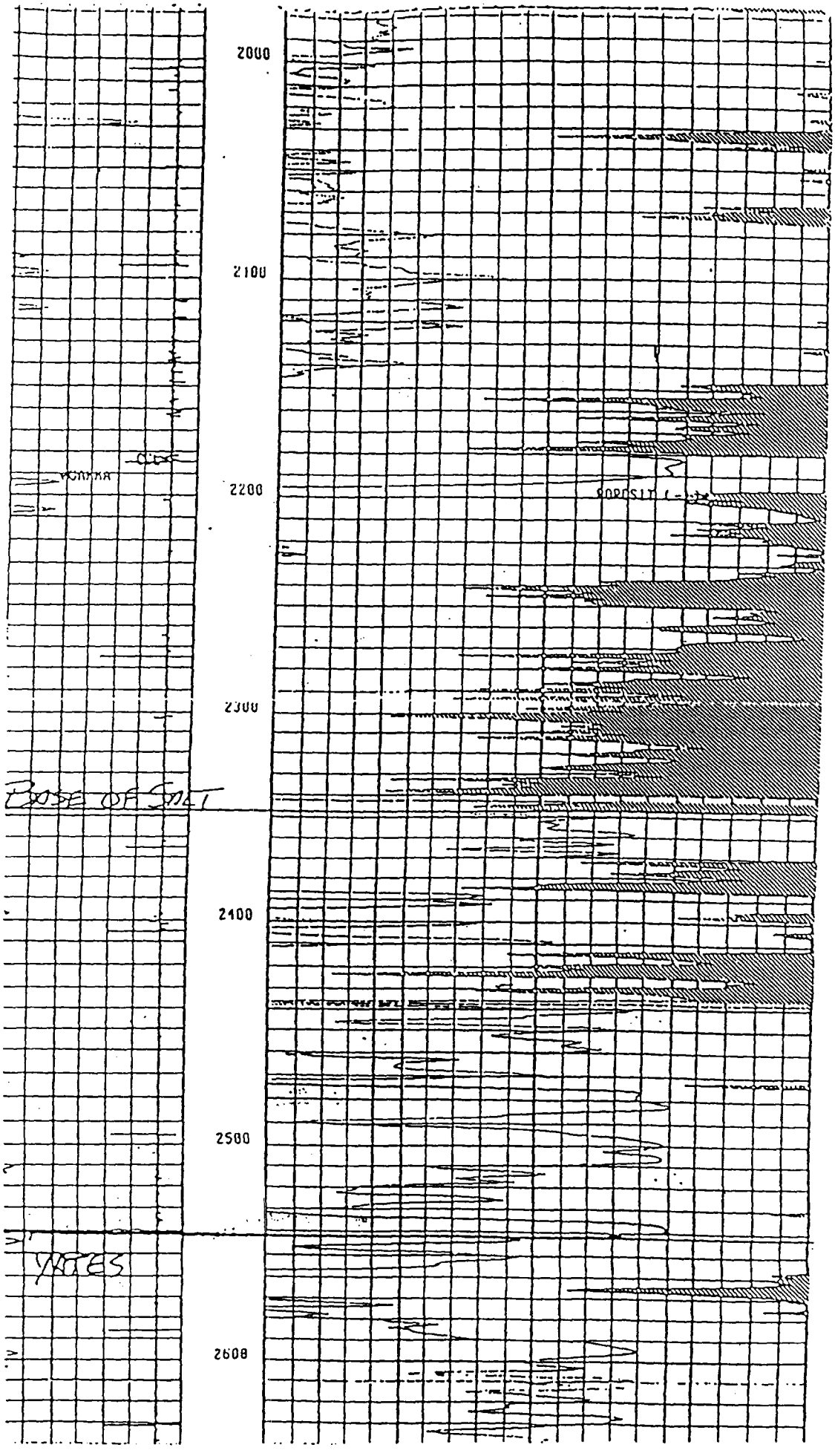
PERMANENT DATUM	GL	ELEV. 4137'	ELEV.: K.B. 4149'
LOG MEASURED FROM	KB	12.0 FT. ABOVE PERM. DATUM	D.F.
DRILLING MEAS FROM	KB		G.L. 4137'

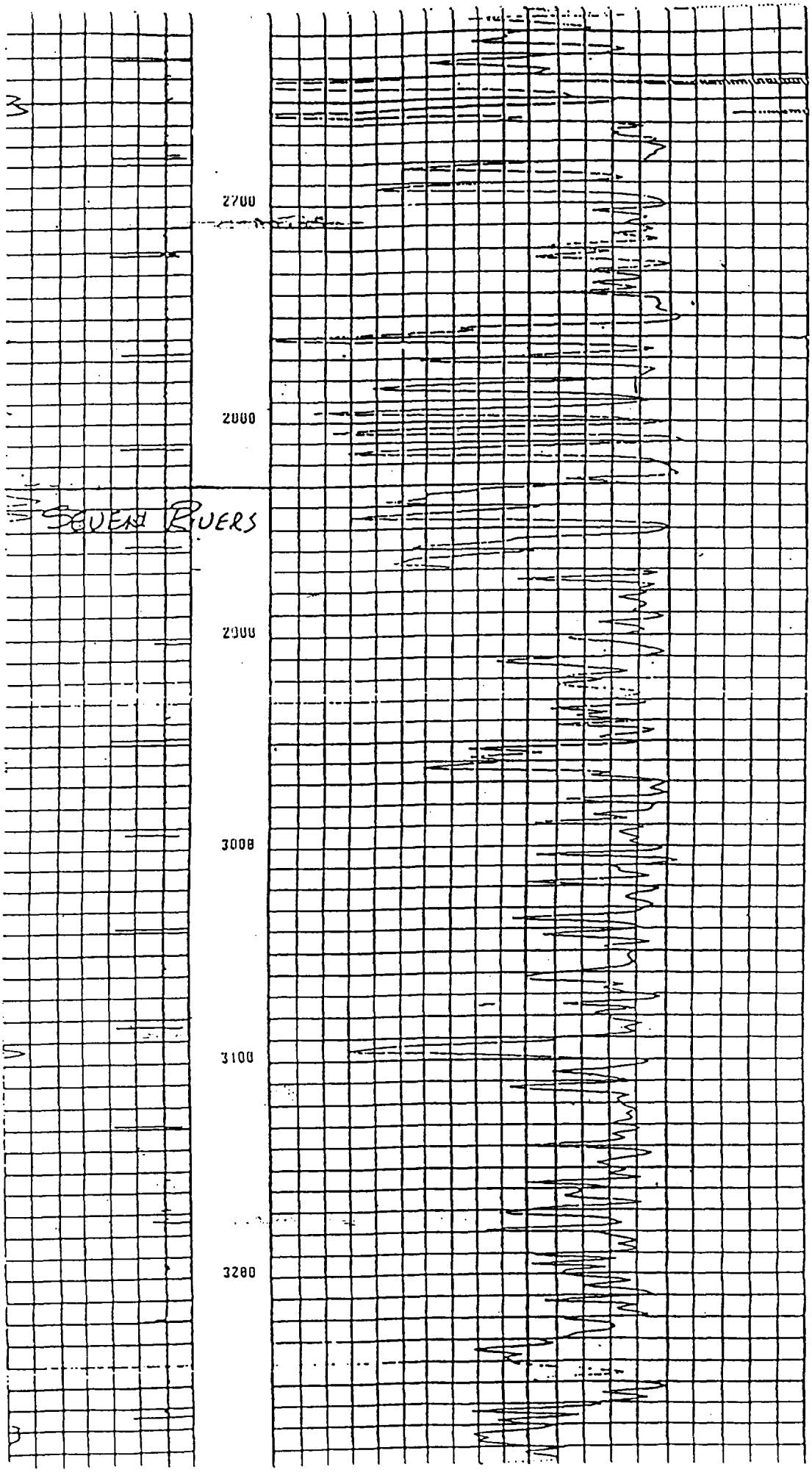
DATE & TIME LOGGED	12/08/02 & 08:00	TYPE OF FLUID IN HOLE	WATER
RUN No.	ONE	DENSITY OF FLUID	NA
DEPTH - DRILLER	4850	FLUID LEVEL	FULL
DEPTH - LOGGER	4788	CEMENT TOP EST/LOGGED	NA
BTM LOGGED INTERVAL	4787	EQUIPMENT & LOCATION	7634 HOBBS
TOP LOGGED INTERVAL	SURF	RECORDED BY	HILL
MAX RECORDED TEMP.	NA	WITNESSED BY	MR. G. ACOSTA

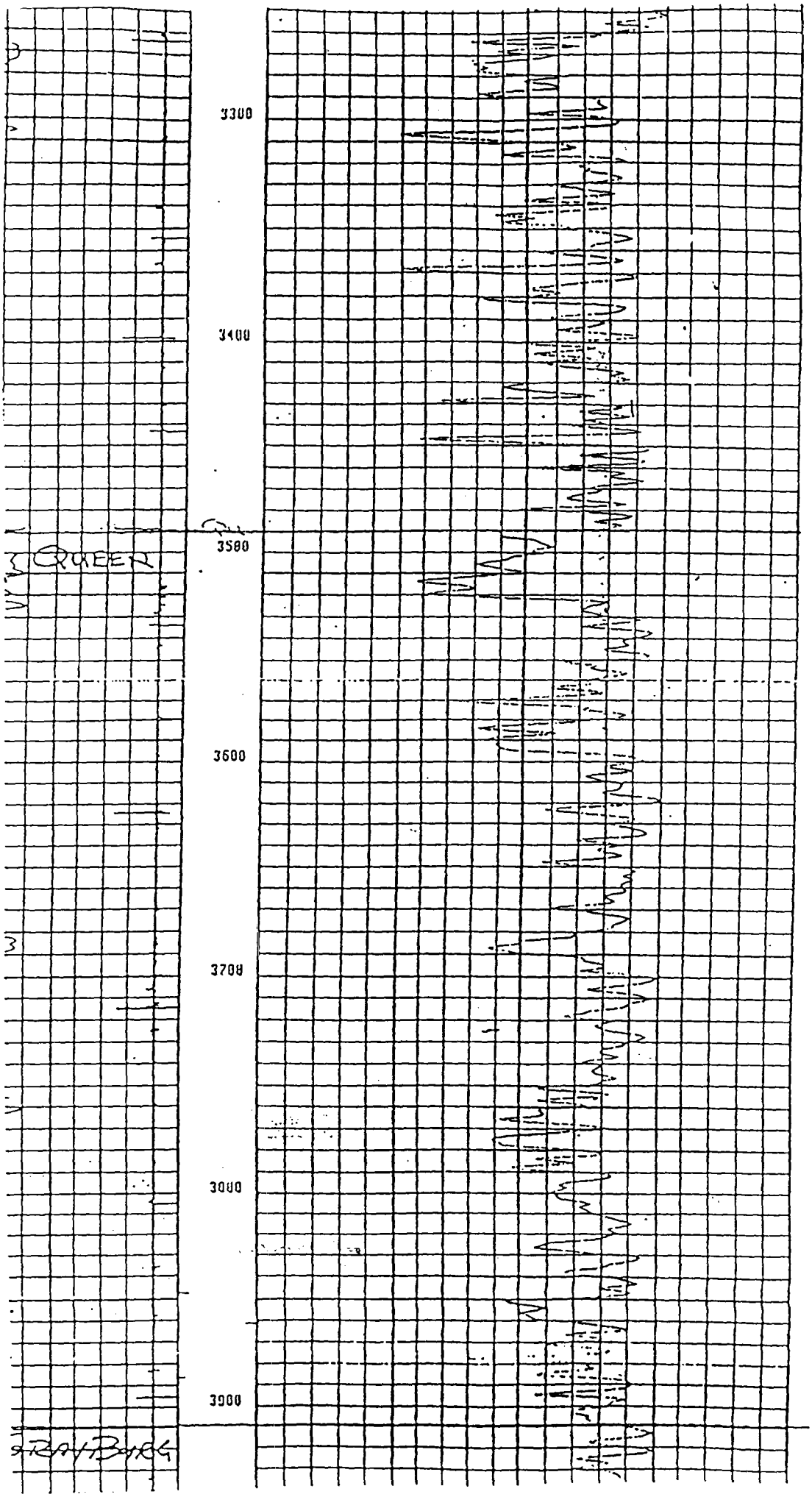
CEMENTING DATA	SURF. STRING	INT.STRING	PROD.STRING	LINER
DATE/TIME CEMENTED	/ .	/ .	/ .	/ .
PRIMARY/SQUEEZE				
COMPRESSIVE STR. EXPECTED @ :	: Hrs	: Hrs	: Hrs	: Hrs
CEMENT VOLUME				
CEMENT TYPE/WEIGHT				
MUD TYPE/MUD WGT.				
FORMULATION				

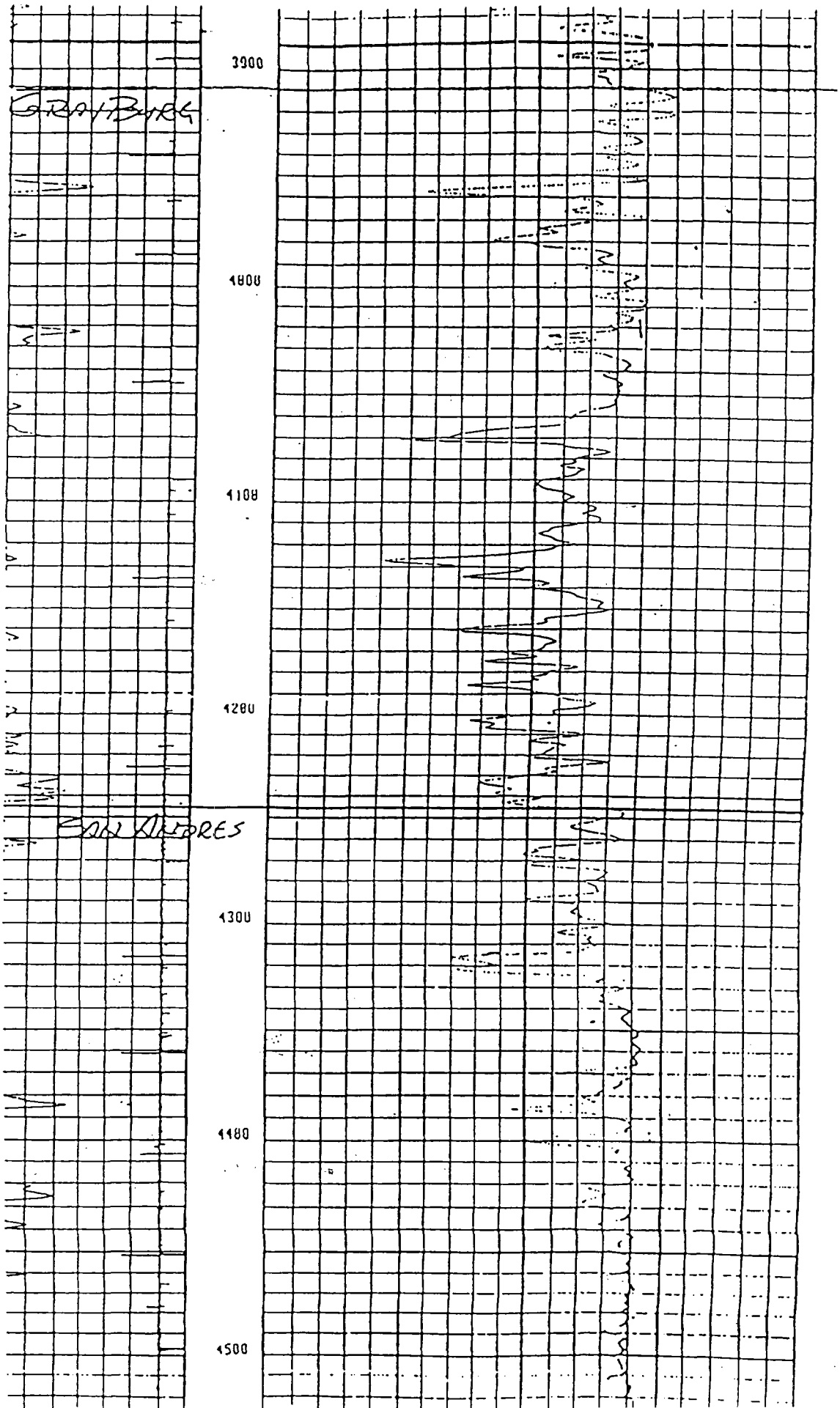
RUN	BOREHOLE RECORD			CASING AND TUBING RECORD			
No.	BIT SZ.	FROM	TO	SIZE	WGT.	FROM	TO
ONE				8.625	NA	0	1230
TWO	7.875	1230	4850	5.5	17.0	0	4850


1100
ANHYDRITE
1200
1300
SALT
1400
1500
1600
1700


2000
2100
2200
2300
BASE OF SALT
2400
2500
YATES
2608


2700
2000
SEVEN RIVERS
2900
3000
3100
3200


3300
3400
QUEEN
3500
3600
3700
3800
3900
GRAYBURG


3900
GRAY BURG
4800
4100
4200
SAN ANDRES
4300
4400
4500

C-108

APPLICATION FOR AUTHORIZATION TO INJECT

LEA "D" LEASE

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 oprators of the wells.

XI. FRESH WATER WELLS

There are no fresh water wells in the area as recorded in the office of the State Engineer. There is one dry-hole which was drilled to the southwest of the Lea "D" Lease in Section 34 to a depth of 362', but it produced no water.

XII. Not applicable

C-108

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 shown on 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. An Affidavit of Publication will be forwarded as soon as available.

EXHIBIT XIII-A

Surface Owners:

Bureau of Land Management
Roswell District Office
2901 W. Second St.
Roswell, NM 88201

Offset Leasehold Owners & Well Operators:

Ms. Mary H. Ard
1440 Interfirst Tower
Fort Worth, TX 76102

Mr. Francis H. Bowden
Address Unknown

Mr. William A. Hudson III
616 Texas Street
Fort Worth,Texas 76102

Mr. Delmar E. Hudson
616 Texas Street
Fort Worth,Texas 76102

Mr. William A. Hudson II
616 Texas Street
Fort Worth,Texas 76102

Ms. Francis Hill Hudson Stripling
616 Texas Street
Fort Worth,Texas 76102

Javelina Partners
616 Texas Street
Fort Worth,Texas 76102

Ms. Mary Terrell Hudson
4808 Westridge Avenue
Fort Worth,Texas 76116

Edward R. Hudson Trust
4808 Westridge Avenue
Fort Worth,Texas 76116

Mr. Jewell D. Iverson
3131 S. Lewis Street
Tulsa, OK 74145

Mr. Delmar H. Lewis
6300 Ridglea Place, Suite 1005A
Fort Worth,Texas 76116

Lindys' Living Trust
6300 Ridglea Place, Suite 1005A
Fort Worth,Texas 76116

Dorothy C. Monroe Estate
2417 E. Skelly Drive
Tulsa, Oklahoma 74105

Quality Production Corporation
P. O. Box 250
Hobbs, New Mexico 88241

Iverson III Inc.
3454 S. Zunis
Tulsa, Oklahoma 74015

Mesrs. Peter C. & Alvin Iverson,
Independent Executors of the
Estate of Dorothy Iverson
c/o Iverson III Inc.
3454 S. Zunis
Tulsa, Oklahoma 74015

Mr. Donald B. Moore
Moore & Shelton Company, Ltd.
1414 Sugar Creek Blvd.
Sugar Land, Texas 77478

Texaco Expl. & Prod. Inc.
205 E. Bender Blvd.
Hobbs, New Mexico 88240-2331

S. J. Iverson Trust
c/o NationsBank, Trustee u/w of
acct. 01/0258100
P. O. Box 830308
Dallas, Texas 75283-0308

Marjorie Iverson Trust
c/o NationsBank, Trustee u/w of
acct. 01/0258100
P. O. Box 830308
Dallas, Texas 75283-0308

PAI Inc.
P. O. Box 664
Huntington Beach, CA 92648

EXHIBIT XIII-B

AFFIDAVIT OF MAILING
Application for Authorization to Inject - Form C-108
Lea "D" Waterflood Project

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 14th day of August, 1997.

My Commibsion Expires:
December 18, 1999

Notary Public

EXHIBIT XIII-C

NOTICE TO BE PUBLISHED IN THE HOBBS DAILY NEWS-SUN
ON FRIDAY, AUGUST 15, 1997

PROPOSED INJECTION WELLS

The Wiser Oil Company proposes to expand the Lea "D" Waterflood Project by injecting water into 8 additional wells in Section 26, T17S-R31E, Eddy County, New Mexico, to provide additional injection service for the existing Lea "D" Waterflood Project, Order No. R-3952. The zones to be injected into are the Grayburg and San Andres Vacuum at an average depth of 3900' with a maximum injection rate of 500 BWPD/well at a maximum pressure of 2100 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.

WFX-723

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

September 10, 1997

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

Re: C-108
Lea "D" Waterflood Project &
Skelly Waterflood Unit
Eddy County, New Mexico

Dear Mr. Catanach:

Enclosed are the Affidavits of Publication for notice of the C-108s for additional water injection wells within the Lea "D" Waterflood Project and the Skelly Waterflood Unit which were filed with your office on August 14, 1997.

Sincerely,

J. O. EASLEY, INC.

Bonita L. Limpus Jones
Consulting Landman

/bj
Enclosures
cc/enclosure Mr. Tim W. Gum
New Mexico Oil Conservation Division
811 South 1st Street
Artesia, New Mexico 88210

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

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

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

August 15 1997

and ending with the issue dated

August 15 1997

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 15th day of

August 1997

Jodi Henson

Notary Public.

My Commision expires
October 18, 2000
(Seal)

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

LEGAL NOTICE
August 15, 1997
PROPOSED INJECTION WELLS

The Wiser Oil Company proposes to expand the Lea "D" Waterflood Project by injecting water into 8 additional wells in Section 26, T17S-R31E, Eddy County, New Mexico, to provide additional injection service for the existing Lea "D" Waterflood Project, Order No. R-3952. The zones to be injected into are the Grayburg and San Andres Vacuum at an average depth of 3900' with a maximum injection rate of 500 BWPD/well at a maximum pressure of 2100 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.

PROPOSED INJECTION WELLS

The Wiser Oil Company proposes to expand its Skelly Unit and inject water into 2 additional wells: 1 well in Section 15 and 1 well in Section 28, both within T17S-R31E, Eddy County, New Mexico, to provide additional injection service for the existing Skelly Unit Waterflood, Order No. R-3214. The well in Section 15 is to inject into the Grayburg-San Andres Vacuum zone at an average depth of 3900' and the well in Section 28 will be dually completed to inject in to the Grayburg-San Andres Vacuum as well as the Fren Seven Rivers Queen at an average depth of 2650'. The maximum injection rate will be 500 BWPD/well with a maximum pressure of 2100 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.
#15364

01102251000 01510154

Consulting Landman
705 W. Mescalero Rd.
a/c 434005
Roswell, NM 88201