



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

GARREY CARRUTHERS
GOVERNOR

12-19-90

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 _____
PMX _____

Swd - 410

Gentlemen:

I have examined the application for the:

Yates Ret Corp. Texas Crude AHL State #1-A-27-14-34
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

[Signature]
Jerry Sexton
Supervisor, District 1

/ed

MARTIN YATES, III
1912 - 1985
FRANK W. YATES
1936 - 1986



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210
TELEPHONE (505) 748-1471

S. P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

December 17, 1990

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

Re: C-108 for Texas Crude "AHL" State #1
A 27-14S-34E

Gentlemen,

In reference to the above mentioned well which Yates Petroleum recently filed Form C-108, we would like to have the application withdrawn.

Enclosed is the resubmittal for authorization to inject.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,


Paul Ragsdale

PR/sj

Enclosure

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: Yates Petroleum Corporation
Address: 105 S. 4th Street Artesia, NM 88210
Contact party: Paul Ragsdale Phone: (505) 748-1471
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the 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 source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification
- I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- Name: Paul Ragsdale Title: Petroleum Engineer
Signature: *Paul Ragsdale* Date: December 17, 1990
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. _____

III. WELL DATA

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

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

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

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

C-108
APPLICATION FOR AUTHORIZATION TO INJECT
YATES PETROLEUM CORPORATION
TEXAS CRUDE AHL STATE #1
A 27-14S-34E
660' FNL and 660' FEL
LEA COUNTY, NEW MEXICO

- I. The purpose of re-entering this well is to dispose of Pennsylvanian produced waters into the Canyon formation.
- II. Operator: Yates Petroleum Corporation
105 South Fourth Street
Artesia, New Mexico 88210
Paul Ragsdale (505) 748-1471
- III. Well Data: (See Attachment A)
- IV. This is not an expansion of an existing project.
- V. See attached map. (See Attachment B)
- VI. There are wells within the one-half mile radius of the Texas Crude AHL State #1. Tabulation of data on all wells within area of review which penetrate the proposed injection zone. (See Attachment C)
- VII.
 - 1. Proposed average daily injection volume approximately 500 BWPD. Maximum daily injection volume approximately 1000 BWPD.
 - 2. This will be a closed system.
 - 3. Proposed average injection pressure: 1500 psi
Proposed maximum injection pressure: 2000 psi
 - 4. Sources of injected water would be produced water from the Permo-Penn formation. (See Attachment D)
- VIII.
 - 1. The proposed injection interval is from 10716'-10724' in the Canyon formation.
 - 2. Fresh water in the Ogalla overlies the proposed injection zone to depths of approximately 450'.
- IX. The proposed disposal interval will be stimulated with 5000 gallons of 20% HCL acid.
- X. Logs were filed at the Oil Conservation Division when the well was originally drilled to a total depth of 11515'.

- XI. The approximate location of the nearest fresh water well is in Section 34, Township 14 South, Range 34 East. A water analysis of a sample from this well is attached. (See Attachment E)
- XII. Yates Petroleum Corporation has examined available geologic and engineering data and has found no evidence of faulting in the proposed interval.
- XIII. Proof of Notice
 - 1. Copies of certified letters sent to the owner of the surface of the land on which the well is located and to each leasehold operator within the area of review. (See Attachment F)
 - 2. Copy of legal advertisement. (See Attachment G)
- XIV. Certification is signed.

YATES PETROLEUM CORPORATION
TEXAS CRUDE AHL STATE #1
A 27-14S-34E

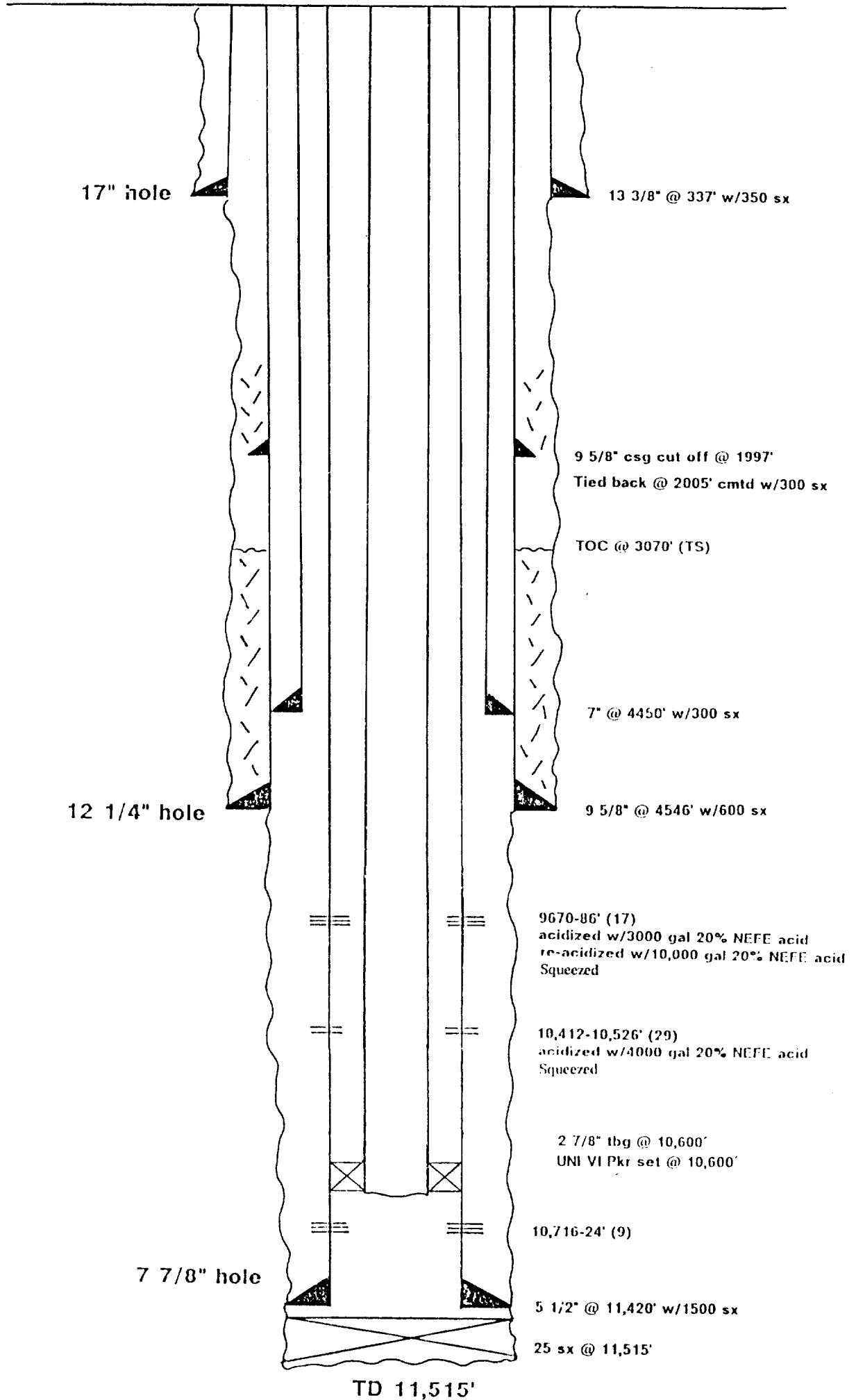
ATTACHMENT A

III. Well Data

- A. 1. Lease Name/Location:
Texas Crude AHL State #1
Unit A Sec 27-T14S-R34E
660' FNL and 660' FEL
2. Casing Strings:
13 3/8" set at 337' with 350 sx. Circulated
cement to surface.
9 5/8" set at 4546' with 500 sx. Estimated
TOC at 2000 ft.
7" set at 4450' with 300 sx.
5 1/2" set at 11420' with 1500 sx.
3. Tubing:
Propose to use 2 7/8" 6.5# plastic coated
tubing set at approximately 10600'.
4. Packer:
Propose to use Guiberson UNI VI nickel plated
packer set at 10600'.
- B. 1. Injection Formation: Canyon
2. Injection interval will be through perfor-
ations from approximately 10716'-10724'.
3. Well was originally drilled as a Canyon;
however, the zone was not commercial.
4. Perforations: Abo - 9670'-9686'
Bough - 10412'-10526'
Canyon - 10716'-10724'
5. Next higher (shallower) oil zone is the
San Andres. The next lower (deeper) oil
zone is the Strawn.

YATES ETROLEUM CORPORATION
 TEXAS CRUDE "AHL" STATE #1
 SEC 27-14S-34E
 UNIT A
 660' FNL & 660' FEL
 LEA COUNTY, NEW MEXICO
 CANYON FORMATION

Diagrammatic Sketch of Proposed Salt Water Disposal Well



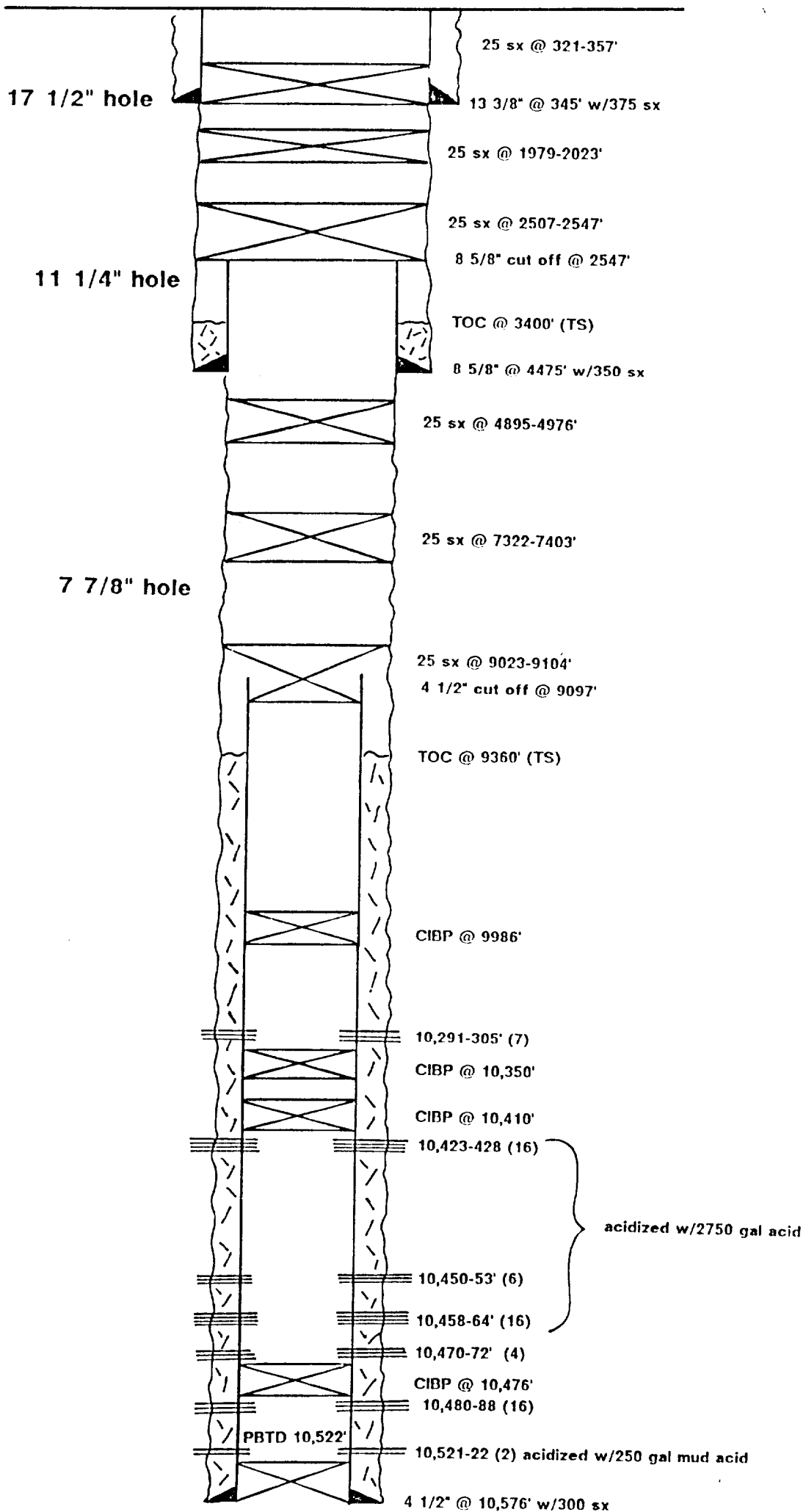
ATTACHMENT C

TEXAS GEODE AND STATE #1
C-108 Application for Authorization to Inject

Tabulation of Data on Wells Within Area of Review

Well Name	Location	Operator	Well Type	Spud Date	Completion Date	TD (ft)	Production Zone	Perforations	Completion Information
Union State #1	I 22-145-34E	Deight A. Tison	P & A	02-12-73	04-28-74	10,870'	Pennsylvanian	Not Perforating	Abandoned - 0600
State #1-23	M 22-145-34E	Texas Code Oil Co. Shut-in Oil & Gas Co.	Oil	02-23-67	04-11-77	10,847'	Pennsylvanian	10,420'-10,430'	Acidized w/500 gal acid
State #1-23	D 22-145-34E	Texas Code Oil Co. Shut-in Oil & Gas Co.	D & A	05-17-72	05-28-72	290'	----	None	D & A
Clarks Service State #1	E 22-145-34E	Clarks Oil Corp.	Oil	07-23-72	07-18-73	10,579'	Pennsylvanian	10,401'-10,409'	Acidized w/250 gal 15% NE, 2000 gal 15% NE 6000 gal 15% NE
Clarks Service State #1	I 22-145-34E	Clarks Oil Corp.	P & A	10-12-72	04-22-74	10,552'	Pennsylvanian	Not Perforating	P & A

EIGHT A. TIPTON
UNION STATE #1
SEC 22-14S-34E
UNIT I
2086' FSL & 766' FEL
LEA COUNTY, NEW MEXICO
SPUD: 2-16-66 COMP: 5-04-66
P & A
ABANDONED OWWO



TEXAS CRUDE OIL CO. AND SINCLAIR OIL & GAS CO.

STATE "A" #1 - 26

SEC. 26 - T14S - R34E

UNIT D

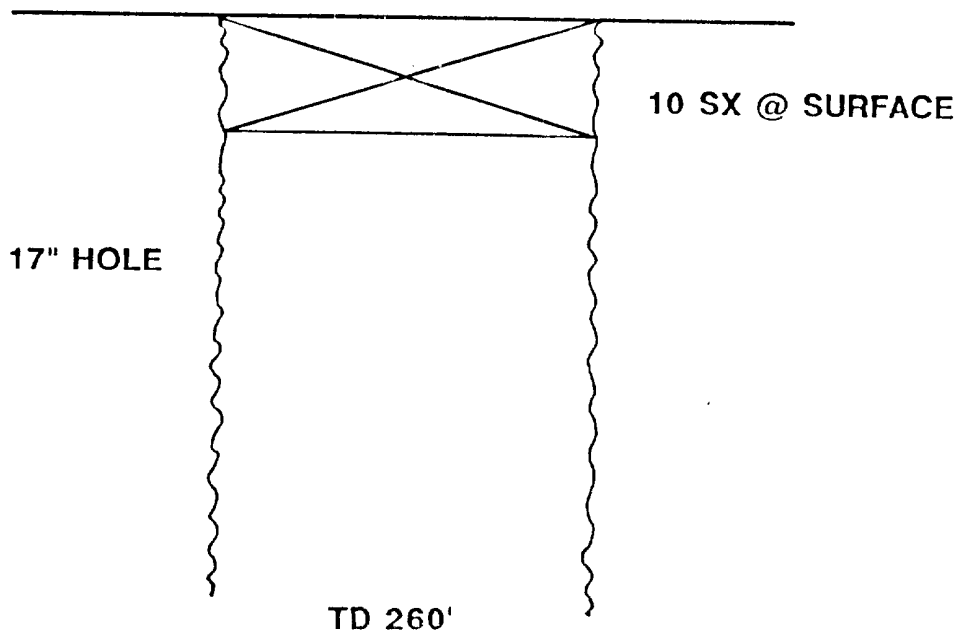
660' FNL & 660' FWL

LEA COUNTY, NEW MEXICO

SPUD : 05 - 09 - 63

COMP : 05 - 28 - 63

D & A



COQUINA OIL CORPORATION

CITIES SERVICE STATE #3

SEC. 27 - T14S - R34E

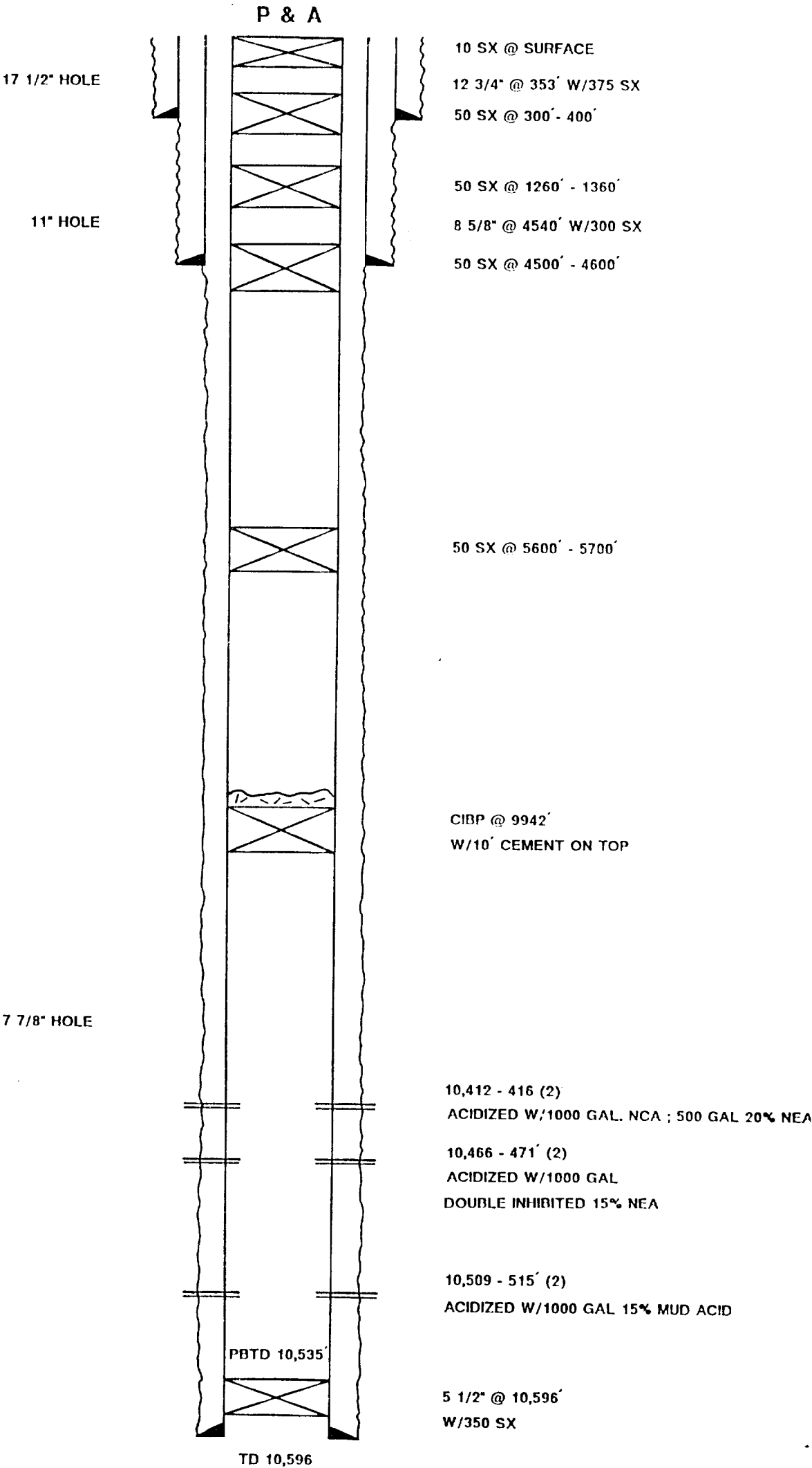
UNIT I

1980' FSL & 510' FEL

SPUD : 10 - 16 - 73

LEA COUNTY, NEW MEXICO

COMP : 04 - 20 - 74



ATTACHMENT D

WATER ANALYSIS

Test Taken 07-02-90

9670'-9686' ABO

Sp. Gravity	1.097 @ 74 deg
Resistivity	0.062 @ 74 deg
pH	5.9
Sulfate	857
Iron	125
Bicarbonates	723
H2S	Nil
Chloride	74,749
Calcium	6563
Magnesium	4696
Sod & Pot	32,748
KCL	Negative

WATER ANALYSIS

Test Taken on 07-22-90

10412'-10418' BOUGH C

Sp. Gravity	1.038 @ 72 deg
pH	6.6
Iron	500+
Calcium	116
Magnesium	3090
Sulfate	1830
Bicarbonate	482
Chloride	25,819
Sod & Pot	11,826
Gravity	39.6 deg API
	60 deg F

LOCATION

ATTACHMENT D

THE WESTERN COMPANY

YOUR EXT. NO.

WATER ANALYSIS

ANALYSIS NO.

GENERAL INFORMATION

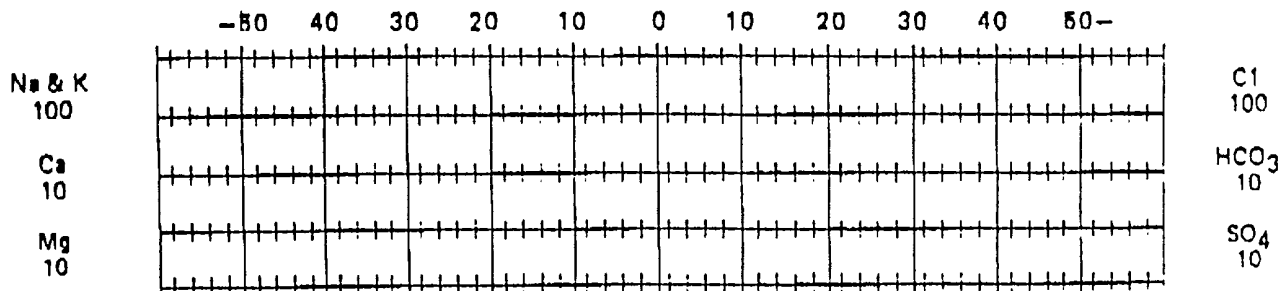
OPERATOR <i>yates</i>	DATE SAMPLED
WELL <i>Texas Crude</i>	DATE RECEIVED <i>6-30-90</i>
FIELD	SUBMITTED BY
FORMATION <i>10716'-10724'</i>	WORKED BY <i>Brewer</i>
COUNTY <i>CANYON</i>	SAMPLE DESCRIPTION:
STATE	<i>sulfide water</i>
DEPTH	

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY <i>1.023</i> AT <i>74</i> °F	TOTAL DISSOLVED SOLIDS	PPM
pH <i>6.8</i>	RESISTIVITY <i>0.210 @ 74°</i>	PPM
IRON <i>Ni'</i>	SULFATE <i>1900</i>	PPM
HYDROGEN SULFIDE <i>Strong</i>	BICARBONATE <i>1857</i>	PPM
HARDNESS <i>5.2 / 1.0</i>	CHLORIDE <i>3.9 / 5</i>	PPM
CALCIUM <i>4.3 / 1.0</i>	SODIUM CHLORIDE	PPM
MAGNESIUM <i>0.9 / 1.0</i>	SODIUM	PPM
SODIUM & POTASSIUM <i>8994</i>	POTASSIUM <i>KCl Test - Negative</i>	PPM
PHOSPHATE		

REMARKS:

for Stiff type plot (In meq./l.)



[illegible]

○ - Proposed Salt Water Disposal Well

ATTACHMENT E

Fresh Water Well Locations and Test Results
furnished by the New Mexico State Engineer's Office

A	B	C	D	E			
0 TOG 81/05/03 SED	DOM 14S.33E.35.41233	DP	80	700	64		0
0 TOG 79/11/15 SED	STK 14S.33E.36.144140	DP	34	579	65		0
0 TOG 84/11/12 SED	STK 14S.33E.36.144140	DP	43	600	0	1284	0
0 TOG 85/03/07 SED	STK 14S.34E.07.13431	4170.00 DP	45	648	63	0385	25-12062 0
0 TOG 85/03/07 SED	STK 14S.34E.08.12310	4158.00 DP	76	940	63	0385	25-12063 0
0 TOG 85/03/07 SED	STK 14S.34E.09.11424	4141.00 DP	45	708	64	0385	25-12064 0
0 TOG 77/11/08 SED	STK 14S.34E.11.24420	4096.00 DP	30	607	65		25-12066 0
0 TOG 84/11/12 SED	STK 14S.34E.11.24420	4096.00 DP	54	730	0	1284	25-12066 0
0 TOG 79/11/16 SED	STK 14S.34E.16.23430	4127.00 DP	47	748	64		25-10057 0
0 TOG 84/11/12 SED	STK 14S.34E.16.23430	4127.00 DP	45	720	0	1284	25-10057 0
0 TOG 79/11/15 SED	STK 14S.34E.29.433332	4136.00 DP	64	855	0		25-12073 0
0 TOG 84/11/12 SED	STK 14S.34E.29.433332	4136.00 DP	66	880	0	1284	25-12073 0
0 TOG 79/11/15 SED	STK 14S.34E.34.221121	TANK	20	609	0		0
0 TOG 85/07/25 SED	STK 14S.34E.34.221121	DP	34	447	73	1185	0
0 TOG 79/11/15 SED	STK 14S.35E.03.43241	DP	40	610	0		0
0 TOG 84/11/28 SED	STK 14S.35E.03.43241	DP	31	617	64	1284	0
0 TOG 79/11/08 SED	STK 14S.35E.06.32434	DP	36	673	64		25-05028 0
0 TOG 84/11/28 SED	STK 14S.35E.06.32434	DP	36	635	0	1284	25-05028 0
115 TOG 79/11/15 SED	IRR 14S.35E.25.223434	4078.00 DP	38	627	65		25-10060 0
0 89/04/18 SED	14S.35E.29.11	4078.00 T59380	554	2816	0	0559	0
0 89/04/18 SED	14S.35E.29.11	3976.00 T59450	497	9322	0	0589	0
125 TOG 79/10/05 SED	IRR 14S.35E.30.13244	DP	30	615	64		25-10061 0
125 TOG 85/09/08 SED	IRR 14S.36E.02.113114	4058.00 DP	55	725	66		25-10064 0
125 TOG 78/08/25 SED	IRR 14S.36E.02.113114	3936.00 DP	44	678	64	0683	25-10064 0
0 TOG 79/10/04 SED	IRR 14S.36E.02.211133	3936.00 SPRYLR	52	744	0		0
0 TOG 79/10/04 SED	IRR 14S.36E.02.21112	3931.00 DP	56	732	66		25-12452 0
0 TOG 84/07/16 SED	IRR 14S.36E.04.131214	DP	35	675	64		0
0 TOG 77/08/18 SED	IRR 14S.36E.04.131314	DP	52	864	66		0
125 TOG 85/09/08 SED	IRR 14S.36E.04.21222	3951.00 DP	60	740	66		25-12101 0
125 TOG 71/06/18 SED	IRR 14S.36E.04.21222	3951.00 DP	43	699	66		25-12101 0
0 TOG 82/07/25 SED	STK 14S.36E.14.132430	DP	27	707	64	1125	0
142 TOG 79/11/15 SED	IRR 14S.36E.15.21113	3933.00 DP	56	917	65		25-12107 0
0 TOG 79/10/04 SED	IRR 14S.36E.17.41111	DP	44	732	67		0
115 TOG 79/10/04 SED	IRR 14S.36E.23.41111	3915.00 DP	36	659	66		25-12111 0
0 TOG 79/10/04 SED	IRR 14S.36E.25.21131	DP	90	967	64		0
0 TOG 78/03/24 SED	IRR 14S.36E.27.211141	DP	90	799	67	0683	0
0 TOG 89/11/15 SED	DOM 14S.36E.31.410	TANK	30	0	0		0
0 TOG 79/11/08 SED	DOM 14S.36E.32.434143	DP	42	684	65		0
0 TOG 85/02/18 SED	DOM 14S.36E.32.434143	VT	75	730	0	0385	0
0 TOG 79/10/04 SED	IRR 14S.36E.35.13313	DP	78	1163	64		0
0 TOG 84/09/20 SED	IRR 14S.36E.35.13313	DP	64	1073	63	1084	0

COLUMN

- A Date Well Was Sampled
- B Well Location
- C Chlorides ppm
- D Specific Conductivity Micromhos
- E Temperature of Sample

ATTACHMENT F

MARTIN YATES, III
1912 - 1985
FRANK W. YATES
1936 - 1986



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210
TELEPHONE (505) 748-1471

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TREASURER

December 17, 1990

CERTIFIED RETURN RECEIPT

BUREAU OF LAND MANAGEMENT
P.O. Box 1397
Roswell, NM 88201
Attn: Barbara Bills

Re: C-108 for Texas Crude "AHL" State #1
A 27-14S-34E

Dear Ms. Bills,

Enclosed please find a copy of Yates Petroleum's resubmittal of Form C-108 for authorization to inject on the above mentioned well. Due to objections, we will squeeze the Abo and Bough perforations and inject into the Canyon formation only.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,

Paul Ragsdale

PR/sj

Enclosure

MARTIN YATES, III
1912 - 1985
FRANK W. YATES
1936 - 1986



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210
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TREASURER

December 17, 1990

CERTIFIED RETURN RECEIPT

Mr. John C. Justice
1002 Lincoln Road
Hobbs, NM 88240

Re: C-108 for Texas Crude "AHL" State #1
A 27-14S-34E

Dear Mr. Justice,

Enclosed please find a copy of Yates Petroleum's resubmittal of Form C-108 for authorization to inject on the above mentioned well. Due to objections, we will squeeze the Abo and Bough perforations and inject into the Canyon formation only.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,

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December 17, 1990

CERTIFIED RETURN RECEIPT

MFG Corporation
P.O. Box 1099
Hobbs, NM 88240

Re: C-108 for Texas Crude "AHL" State #1
A 27-14S-34E

Dear Sirs,

Enclosed please find a copy of Yates Petroleum's resubmittal of Form C-108 for authorization to inject on the above mentioned well. Due to objections, we will squeeze the Abo and Bough perforations and inject into the Canyon formation only.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,

A handwritten signature in cursive script that reads 'Paul Ragsdale'.

Paul Ragsdale

PR/sj

Enclosure

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December 17, 1990

CERTIFIED RETURN RECEIPT

Mr. Dwight Tipton
P.O. Box 1025
Lovington, NM 88260

Re: C-108 for Texas Crude "AHL" State #1
A 27-14S-34E

Dear Mr. Tipton,

Enclosed please find a copy of Yates Petroleum's resubmittal of Form C-108 for authorization to inject on the above mentioned well. Due to objections, we will squeeze the Abo and Bough perforations and inject into the Canyon formation only.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,



Paul Ragsdale

PR/sj

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DENNIS G. KINSEY
TREASURER

December 17, 1990

HOBBS NEWS SUN
201 North Thorp
Hobbs, NM 88240
ATTN: Mr. Don Teer
Business Manager

Dear Mr. Teer,

Yates Petroleum Corporation would like to place a public notice in your newspaper for one day. The notice is enclosed.

Please place this notice in your newspaper Tuesday, December 18, 1990, and forward a copy of it and the affidavit along with your billing as soon as possible to:

Yates Petroleum Corporation
105 South 4th Street
Artesia, NM 88210
ATTN: Stormi Johnson

If you have any questions, please feel free to contact me at (505) 748-1471, Ext. 164. Thank you for your attention in this matter.

Sincerely,

Stormi Johnson
Engineering Technician

Enclosure

ATTACHMENT G

LEGAL NOTICE

Yates Petroleum Corporation, 105 South Fourth Street, Artesia, New Mexico 88210, has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for an injection well. The proposed well, the "Texas Crude AHL State #1" is located 660' FNL and 660' FEL of Section 27, Township 14 South, Range 34 East of Lea County, New Mexico, will be used for saltwater disposal only. Disposal waters from the Permo-Penn will be re-injected into the Canyon formation below a depth of 10,600 feet with a maximum pressure of 2000 psi, and a maximum rate of 1000 BWPD.

All interested parties opposing the aforementioned must file objections or requests for a hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501, within 15 days. Additional information can be obtained by contacting Paul Ragsdale at (505) 748-1471.