

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no
- II. Operator: THE WISER OIL COMPANY
Address: 207 W MCKAY, CARLSBAD NM 88220
Contact party: PERRY L HUGHES Phone: 505-885-5433
- 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 R-1538.
- 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: PERRY L HUGHES Title: AUTHORIZED AGENT
Signature: Perry L. Hughes Date: 06/21/94
- * 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.

CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: The Wiser Oil Company Well: Halliburton GSA Unit No. 13

Contact: Perry Hughes Title: CONSULTANT Phone: _____

DATE IN 6-29-94 RELEASE DATE 7-13-94 DATE OUT 8-11-94

Proposed Injection Application is for: ☒ WATERFLOOD ☒ Expansion ☐ Initial

Original Order: R- 1538 ☒ Secondary Recovery ☐ Pressure Maintenance

SENSITIVE AREAS

☐ SALT WATER DISPOSAL

☐ WIPP ☐ Capitan Reef ☐ Commercial Operation

Data is complete for proposed well(s)? YES Additional Data _____

AREA of REVIEW WELLS

18 Total # of AOR

8 # of Plugged Wells

YES Tabulation Complete

YES Schematics of P & A's

YES Cement Tops Adequate

NO AOR Repair Required

INJECTION INFORMATION

Injection Formation(s) GRAYBURG - PSN 2nd FAS

Source of Water GRAYBURG & FRESH Compatible YES

PROOF OF NOTICE

☒ Copy of Legal Notice

☒ Information Printed Correctly

☒ Correct Operators

☒ Copies of Certified Mail Receipts AFFIDAVIT

☐ Objection Received

☐ Set to Hearing _____ Date

NOTES: _____

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL YES

COMMUNICATION WITH CONTACT PERSON:

1st Contact:	☐ Telephoned	☐ Letter	_____	Date	_____	Nature of Discussion	_____
2nd Contact:	☐ Telephoned	☐ Letter	_____	Date	_____	Nature of Discussion	_____
3rd Contact:	☐ Telephoned	☐ Letter	_____	Date	_____	Nature of Discussion	_____

ATTACHMENT TO FORM C-108

THE WISER OIL COMPANY
MALJAMAR GRAYBURG UNIT NO. 13

SECTION

I. - II. Complete on Form C-108

III. Well Data:

- A.
 - 1. Maljamar Grayburg Unit Well No. 13
660' FSL & 660' FEL, Unit P, Section 3 17S 32E
 - 2. Diagrams are attached showing the present wellbore status and proposed completion.
 - 3. 2 3/8" plastic internally coated tubing will be set at approximately 3900'.
 - 4. A 4" AD-1 plastic coated tension packer will be set at approximately 3900'.
- B.
 - 1. The injection formations are Grayburg and San Andres.
 - 2. The proposed injection interval is through perforations at 3970'-4290'.
 - 3. The well was plugged and abandoned in 1976 and is being re-entered in June 1994 for the purpose of water injection to more efficiently and effectively establish the waterflood pattern as set out in Order No. R-1538.
 - 4. 4" 11.34# FJ casing will be set at 4320' and cement circulated to surface with no perforations other than the injection interval.
 - 5. No other zones are proven productive in this area.

VI. Complete on Form C-108.

V. Map:

See attached Exhibit "A" Part 1 for a map showing all wells and leases within two miles of the proposed injection well. See attached Exhibit "A" Part 2 for a map showing the area of review.

VI. Well Data:

See attached Exhibit "B" for a tabulation of data on all active wells in the area of review. Attached are wellbore diagrams of all plugged and abandoned wells in the area of review.

VII. Proposed Operations:

1. Proposed average daily rate of 250 BWPD.
Proposed maximum daily rate of 500 BWPD.
2. The system is closed.
3. Proposed average injection pressure of 950 psi.
Proposed maximum injection pressure of 2500 psi.
4. Injection Water Source:
 - a. Produced water
 - b. Fresh water from The Wiser Oil Company's water well in SW/4 of Section 1 17S 32E.

Water compatibility studies of produced water from the Maljamar Grayburg Unit and the fresh water from The Wiser Oil Company's Ogalala source well in Section 1 have previously been conducted. 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 zone is in the Grayburg-San Andres from 3314'-4400'. The Grayburg 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.

Surface formation is Cretaceous and has no known sources of drinking water. Also, there are no known underground sources of drinking water overlying or underlying the proposed injection zone.

IX. Stimulation Program:

Small acid job of approximately 2,000 gallons.

X. Logging and Test Data:

Logs are on file at the OCD Hobbs office. New logs and completion report (re-entry) will be sent under separate cover.

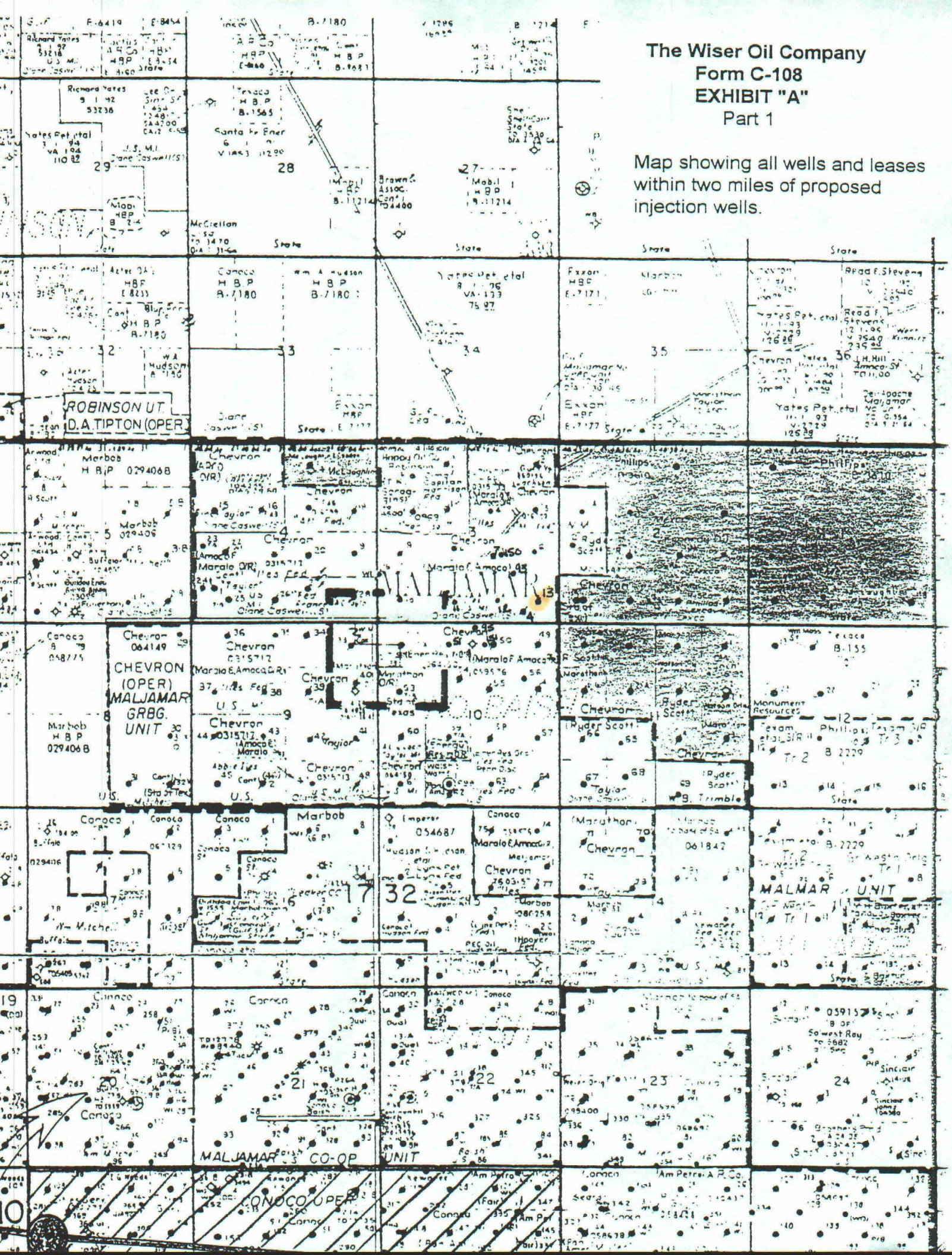
XI. There is no known fresh water within one mile of the well.

XII. Not Applicable.

XIII. Proof of Notice:

1. "Proof of Notice" affidavit from Hobbs News-Sun is enclosed.
2. Attached Exhibit "C" is an affidavit of mailing stating that a copy of this application has been furnished to the surface owners and to each leasehold operator within one-half mile of the well locations. The return receipts are on file at Quality Production Corp., 207 W. McKay, Carlsbad, NM 88220.

Map showing all wells and leases within two miles of proposed injection wells.



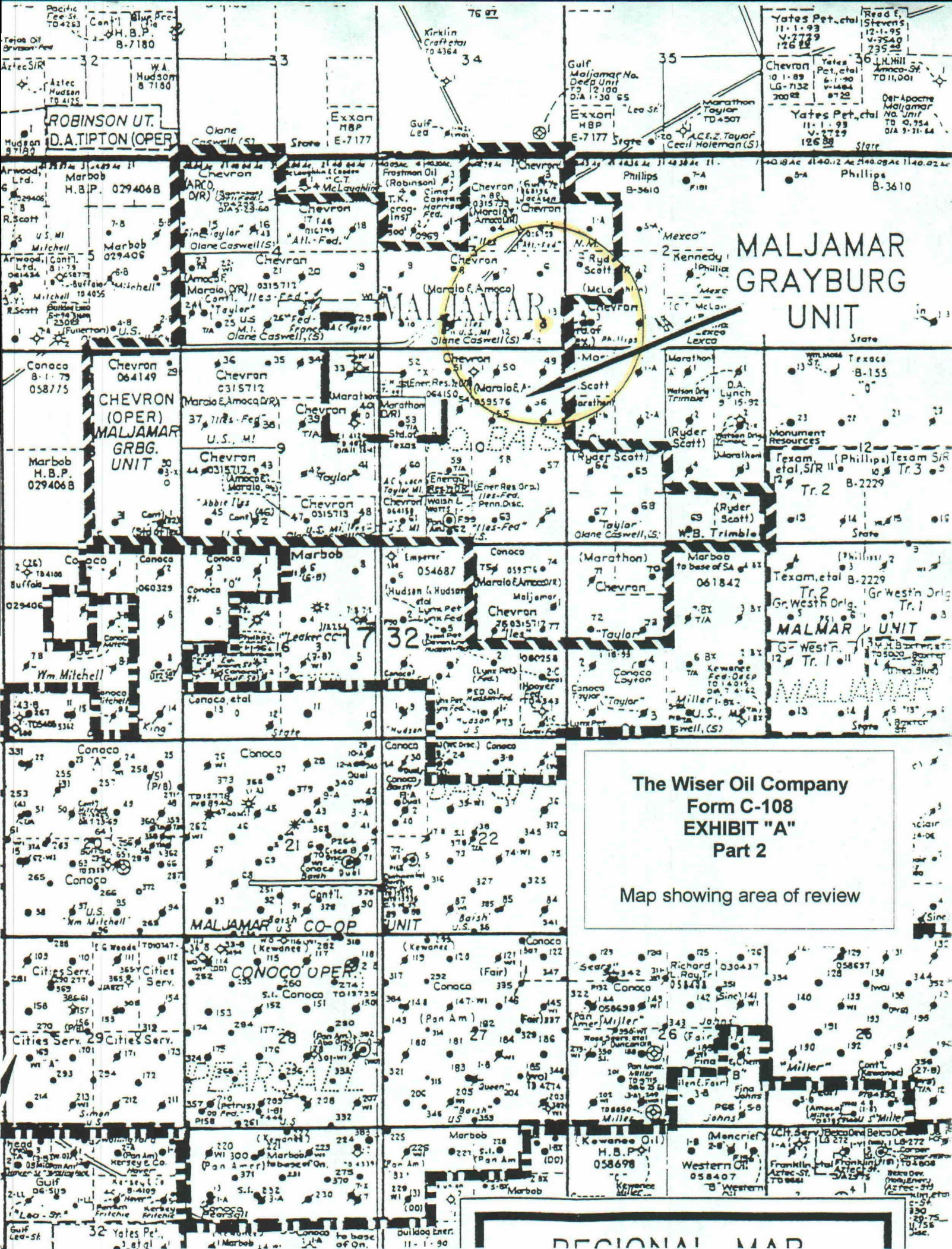
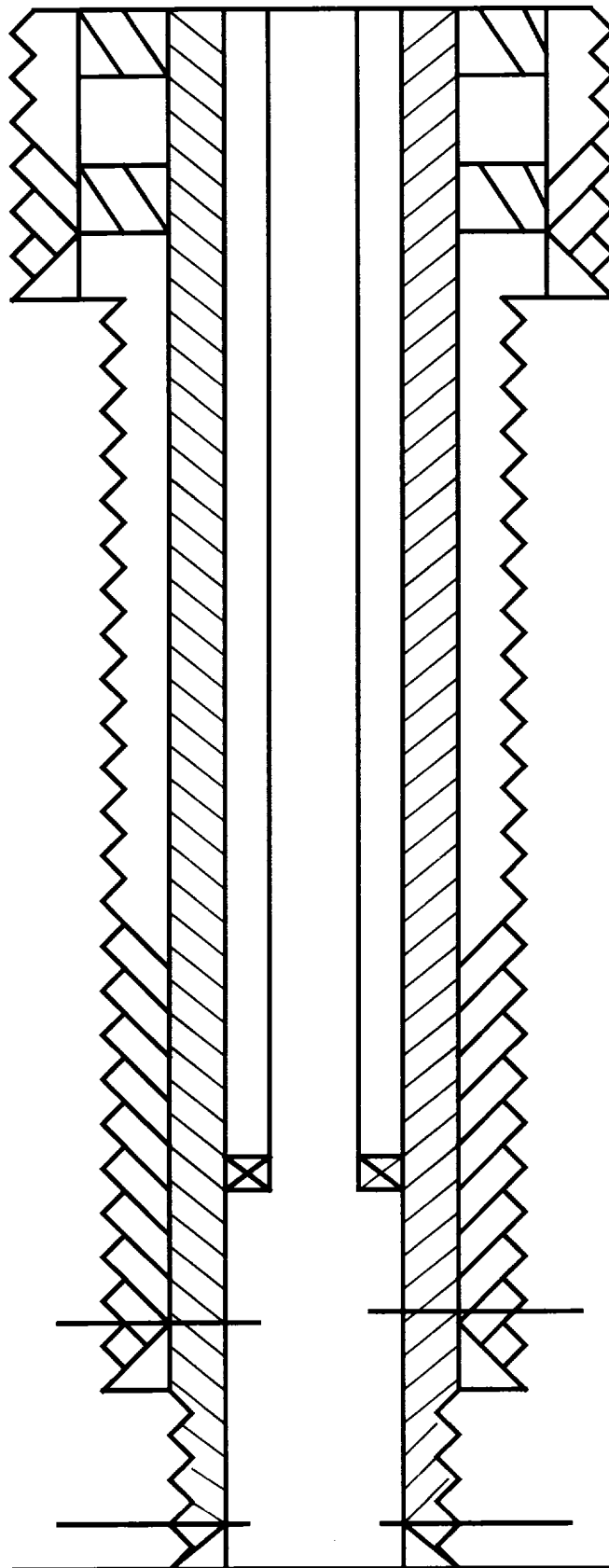


EXHIBIT "B"
ATTACHMENT TO FORM C-108

TABULATION OF DATA ON ACTIVE WELLS IN AREA OF REVIEW

OPERATOR - WELL NAME LOCATION	COMPLETION DATE	TD	PBTD	CASING SIZE	CASING DEPTH	CEMENT SACKS/TOP	PRODUCING INTERVAL	STIMULATION	CURRENT STATUS
The Wiser Oil Company Malljamar Grayburg Unit #2 2310' FSL & 330' FWL, Unit L Section 2 17S 32E	12/21/64	4411'		8 5/8"	358'	225	Grayburg & San Andres 4078-4196 4224-4410	F 40,000 gal & 40,000#	Producing
				5 1/2"	4224'	350		A 2,000 gal	
						1840' (Calc)		F 16,380 gal & 14,500#	
The Wiser Oil Company Malljamar Grayburg Unit #5 1987' FNL & 660' FEL, Unit H Section 3 17S 32E	11/29/59	4449'	4416'	8 5/8"	319'	250/Circ	Grayburg & San Andres 4091-4363	F 8,000 gal & 32,000#	Producing
				5 1/2"	4440'	300		F 22,000 gal & 88,000#	
The Wiser Oil Company Malljamar Grayburg Unit #6 1980' FSL & 660' FEL, Unit I Section 3 17S 32E	11/29/93	4400'	4377'	8 5/8"	363'	225	Grayburg & San Andres 4064-4352	A 3,000 gal	Active Water Injection Well
				5 1/2"	4230'	350			
				4"	4400'	200			
						1790' (CBL)			
The Wiser Oil Company Malljamar Grayburg Unit #11 660' FSL & 2080' FWL, Unit N Section 3 17S 32E	12/10/93	4290'	4284'	8 5/8"	1245'	50	Grayburg & San Andres 3959-4263	A 3,000 gal	Active Water Injection Well
				5 1/2"	3964'	100			
						3283' (Calc)			
The Wiser Oil Company Malljamar Grayburg Unit #12 660' FSL & 1905' FEL, Unit O Section 3 17S 32E	05/48 original 10/21/93 convert	4415'	4410'	8 5/8"	1340'	50	Grayburg & San Andres 4048-4347	A 3,000 gal	Active Water Injection Well
				5 1/2"	4063'	100			
				4"	4415'	200/Circ			
The Wiser Oil Company Malljamar Grayburg Unit #51 660' FNL & 1980' FWL, Unit C Section 17 17S 32E	03/46 original 11/10/93 convert	4233'		8 5/8"	1056'	50	Grayburg & San Andres 3903-4203	A 3,000 gal	Active Water Injection Well
				5 1/2"	3863'	100			
				4"	3719-4232'	200			
The Wiser Oil Company Malljamar Grayburg Unit #93 1290' FSL & 1328' FEL, Unit O Section 3 17S 32E	09/22/93	4415'	4372'	8 5/8"	1188'	380/Circ	Grayburg & San Andres 4006-4306	A 1,500 gal	Producing
				5 1/2"	4413'	550/Circ		F 15,000 gal & 9,000#	
								A 7,000 gal	
The Wiser Oil Company Malljamar Grayburg Unit #95 15' FNL & 2478' FEL, Unit B Section 10 17S 32E	07/26/93	4426'	4365'	8 5/8"	1129'	630/Circ	Grayburg & San Andres 3961-4338	A 2,000 gal	Producing
				5 1/2"	4426'	450/Circ		F 30,000 gal & 50,000#	
								A 3,000 gal	
								F 70,000 gal & 150,000#	
The Wiser Oil Company Malljamar Grayburg Unit #150 2140' FSL & 1674' FEL, Unit J Section 3 17S 32E	07/29/93	4425'	4395'	8 5/8"	1163'	600/Circ	Grayburg & San Andres 4049-4338	A 3,400 gal	Active Water Injection Well
				5 1/2"	4425'	1150/Circ			
The Wiser Oil Company Malljamar Grayburg Unit #151 660' FNL & 2127' FEL, Unit B Section 10 17S 32E	11/09/93	4439'	4403'	8 5/8"	1141'	600/Circ	Grayburg & San Andres 3946-4348	A 5,000 gal	Active Water Injection Well
				5 1/2"	4439'	975/Circ			

Maljamar Grayburg Unit #13
 660' FSL & 660' FEL, Unit P, Section 3 17S 32E
 Completed 3/48 P&A 10/09/76 Original TD 4150'
 Proposed Completion - To Be Re-Entered May, 1994



8 5/8" csg set @ 1247' w/50 sx

7 7/8" hole

2 3/8" internally coated tubing

TOC 3351' (calc)

4" tension packer set @ 3900'

Proposed perfs from 3970-4290

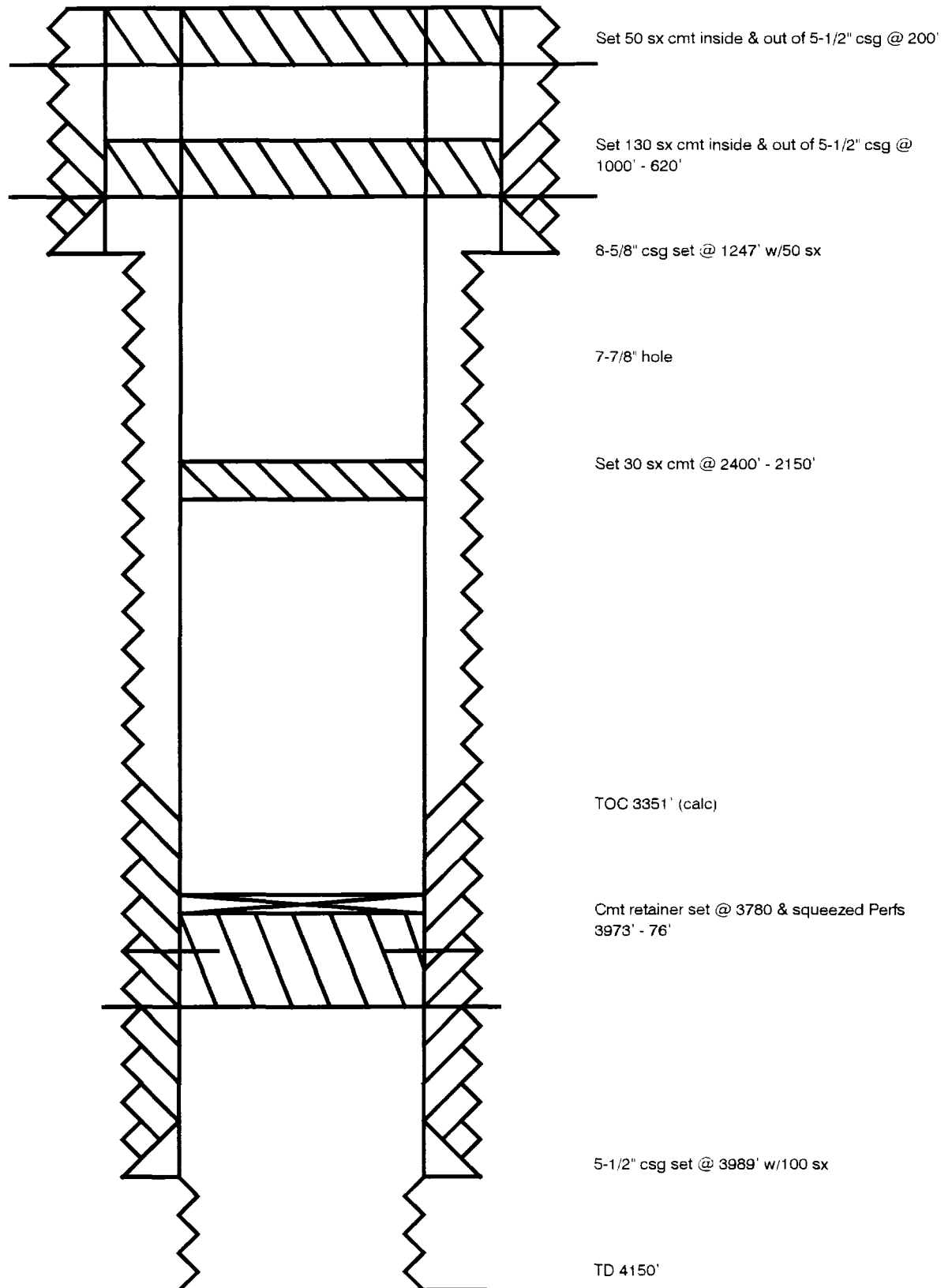
5 1/2" csg set @ 3989' w/100 sx

Original TD 4150'

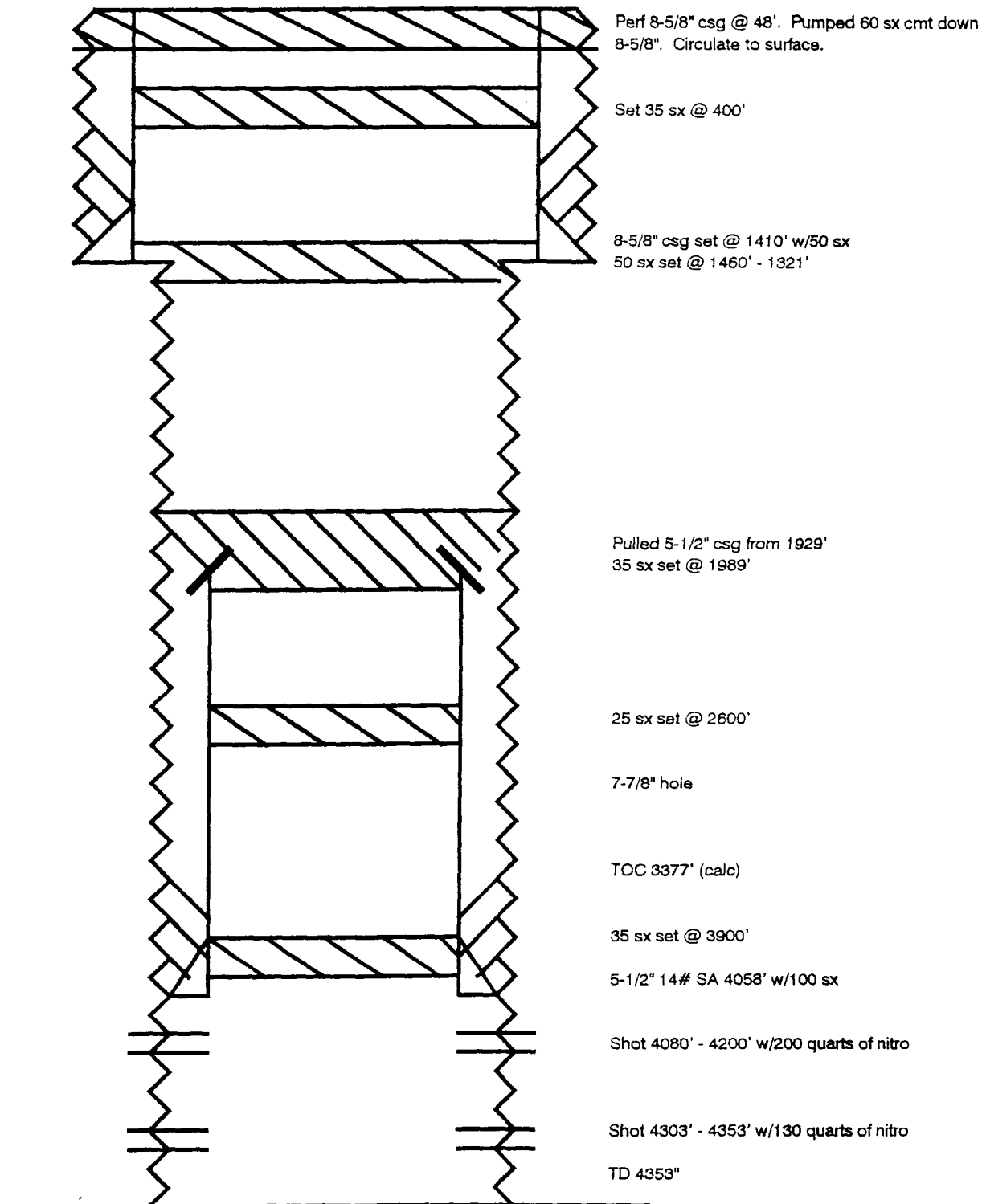
4" 11.34# FJ csg set @ 4320'
 Cmt circ to surface
 Proposed TD 4320'

Maljamar Grayburg Unit #13

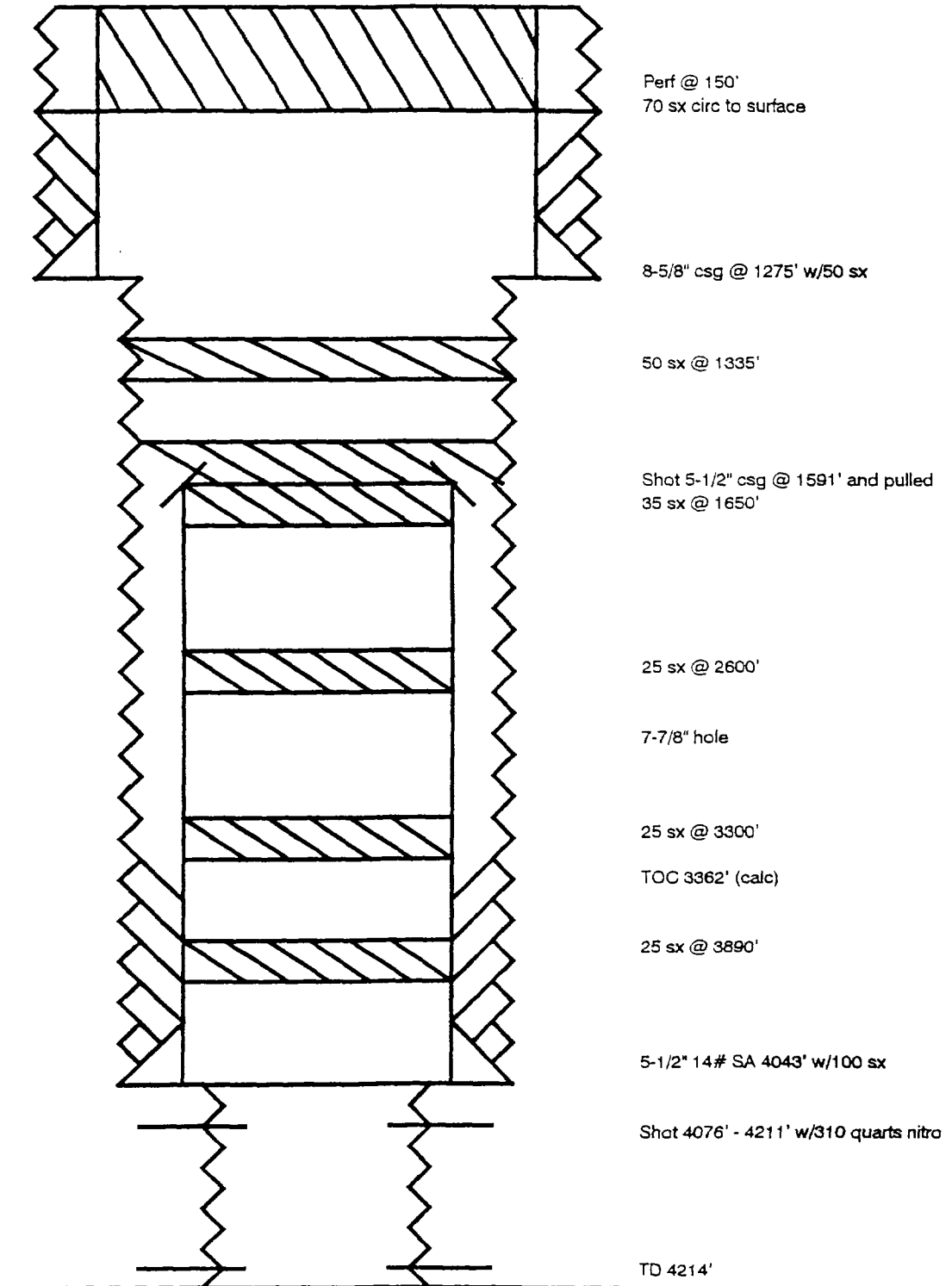
660' FSL & 660' FEL, Unit P, Section 3 17S 32E
Completed 3/48 P&A 10/09/76 Original TD 4150'
Present Status



Maljamar Grayburg Unit #7
Chevron Oil Co.
Unit J 1980' FSL & 1980' FEL Sec 3-T17S-R32E
Completed 8/49 TD 4353'
Plugged & Abandoned 03/31/75



Maljamar Grayburg Unit #14
Chevron Oil Co.
Unit P 330' FSL & 990' FEL Sec 3-T17S-R32E
TD 4214' Plugged & Abandoned 03/31/75



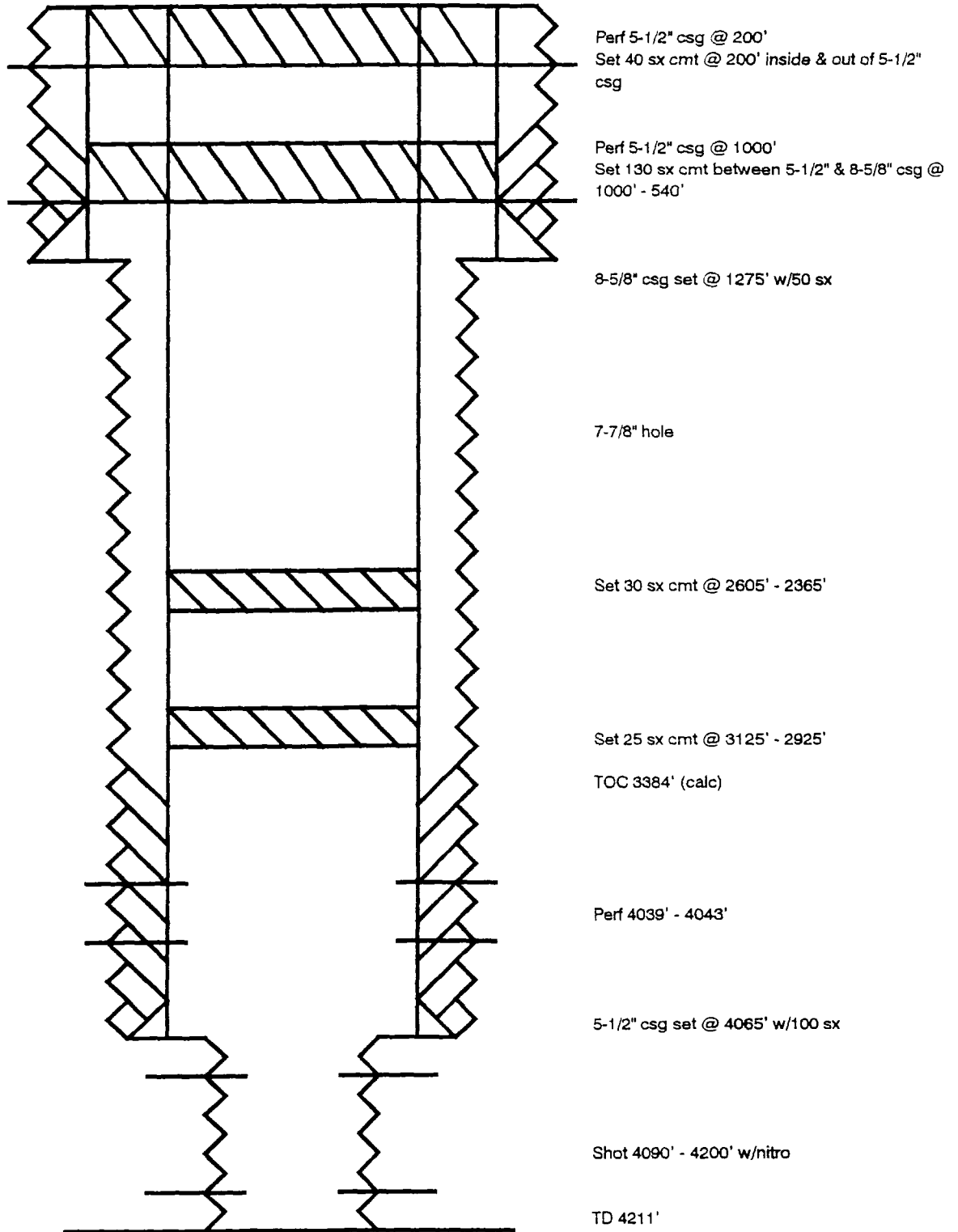
Maljamar Grayburg Unit #49

Chevron Oil Co.

Unit A 660' FNL & 660' FEL Sec 10-17S-32E

Completed 7/47 TD 4211'

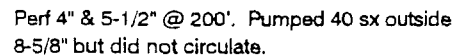
Plugged & Abandoned 10/11/76



Chevron Oil Co.

Completed 8/46 TD 4124'

Plugged & Abandoned 10/08/76



Perf 4" & 5-1/2" @ 950' & cmt w/130 sx
Top of cmt 370'

8-5/8" 32# set @ 1161' w/75 sx

Set 30 sx @ 2400' - 1890'

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 @ 3982' w/375 sx.

Shot 4002' - 4124' w/310 quarts nitro

TD 4124'

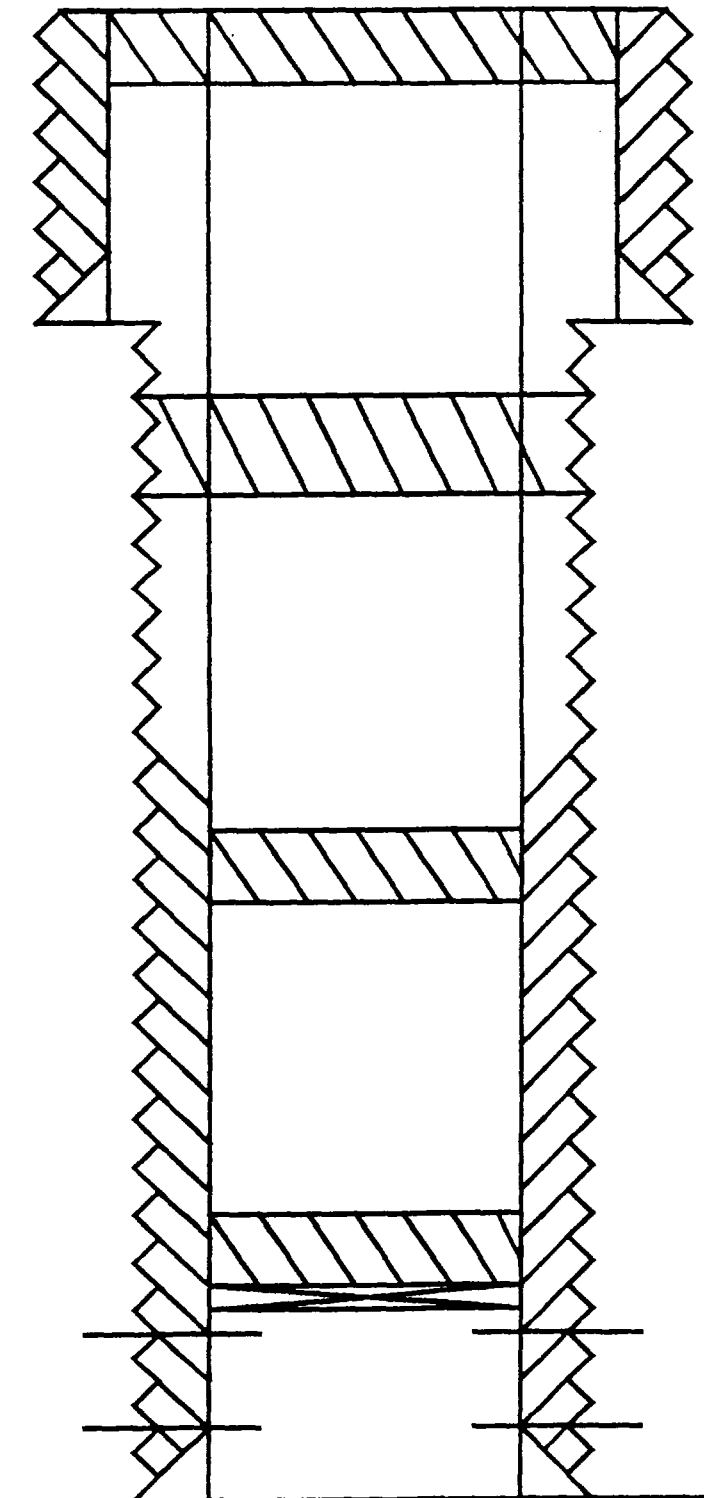
Maljamar Grayburg Unit #56

Chevron Oil Co.

Unit H 1650' FNL & 990' FEL Sec 10-17S-32E

Completed 9/62 TD 4190'

Plugged & Abandoned 10/18/76



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

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

Set 130 sx cmt inside & out of 5-1/2" csg @
1100' - 540'

TOC 1806' (calc)

Set 30 sx cmt @ 2402' - 2146'

7-7/8" hole

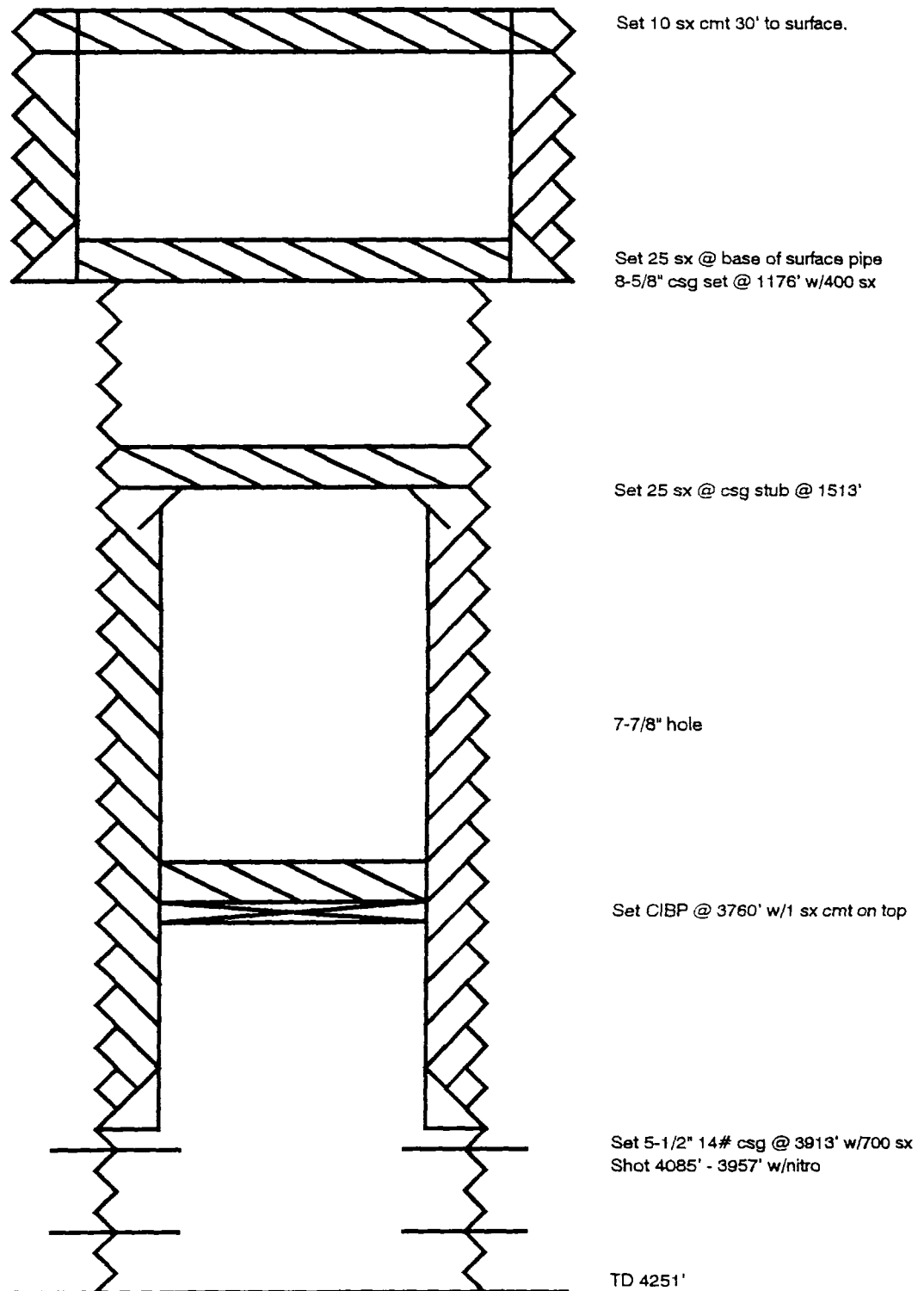
Set 25 sx cmt @ 3890' - 3690'

Set CIBP @ 3900'

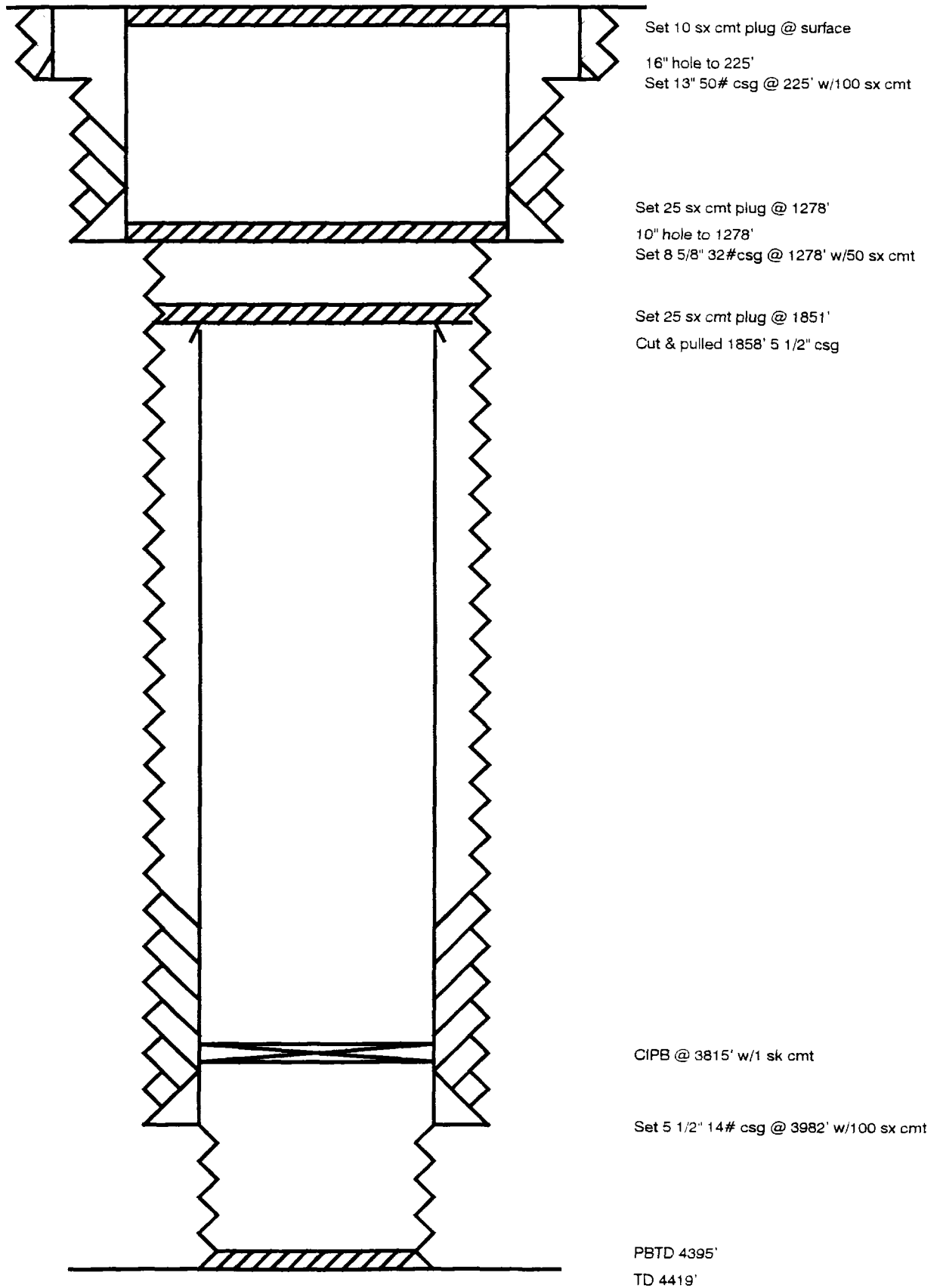
Perfs 3970' - 4105'

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

Taylor F #1
Ryder Scott Management Co.
Unit D 660' FNL & 660' FWL Sec 11-T17S-R32E
Completed 5/47 TD 4251'
Plugged & Abandoned 04/24/68

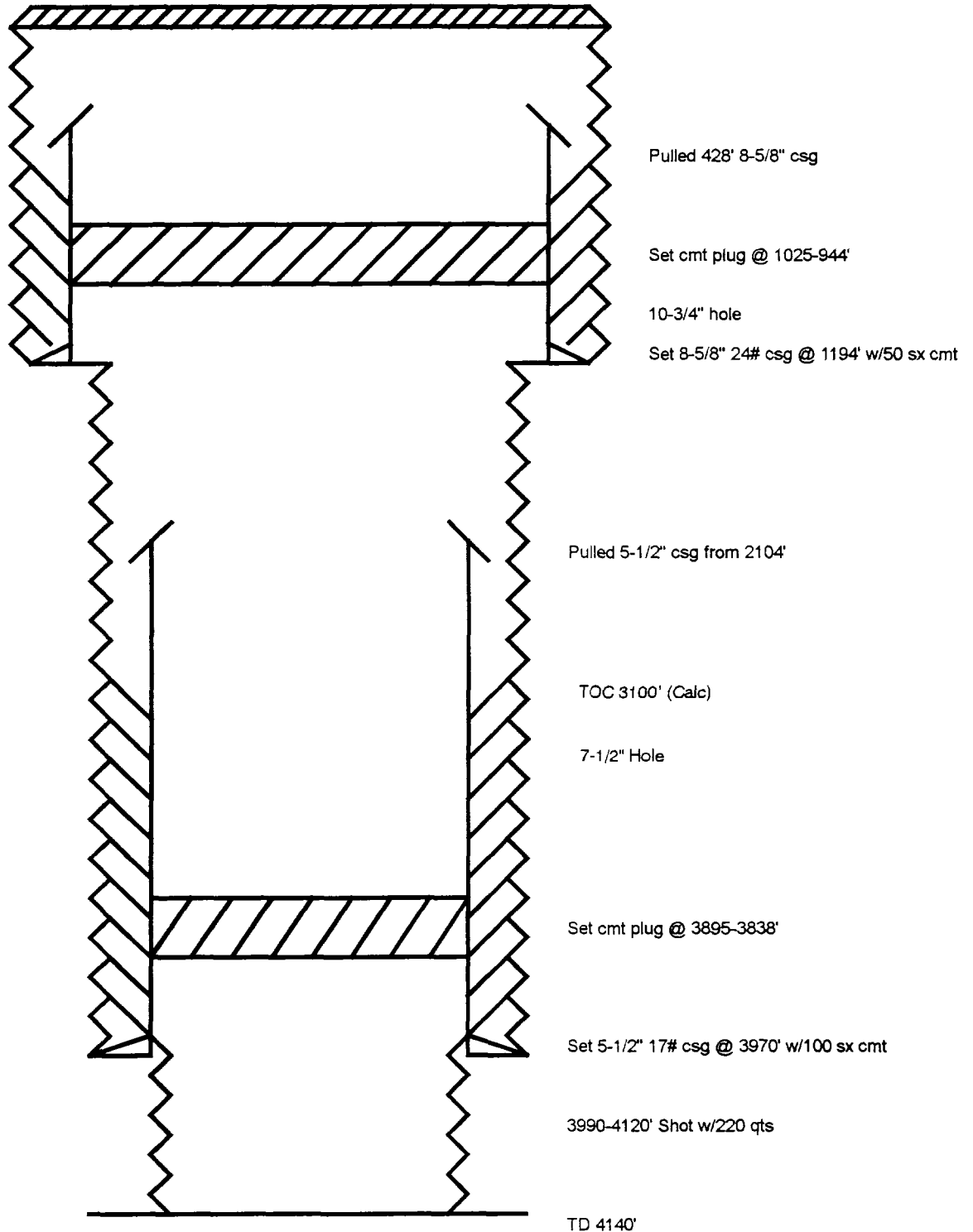


Phillips Lexco State No. 1
Ryder Scott Management Company
660' FSL & 1980' FWL, Unit N, Section 2 17S 32E
Completed 1944 P&A 05/68

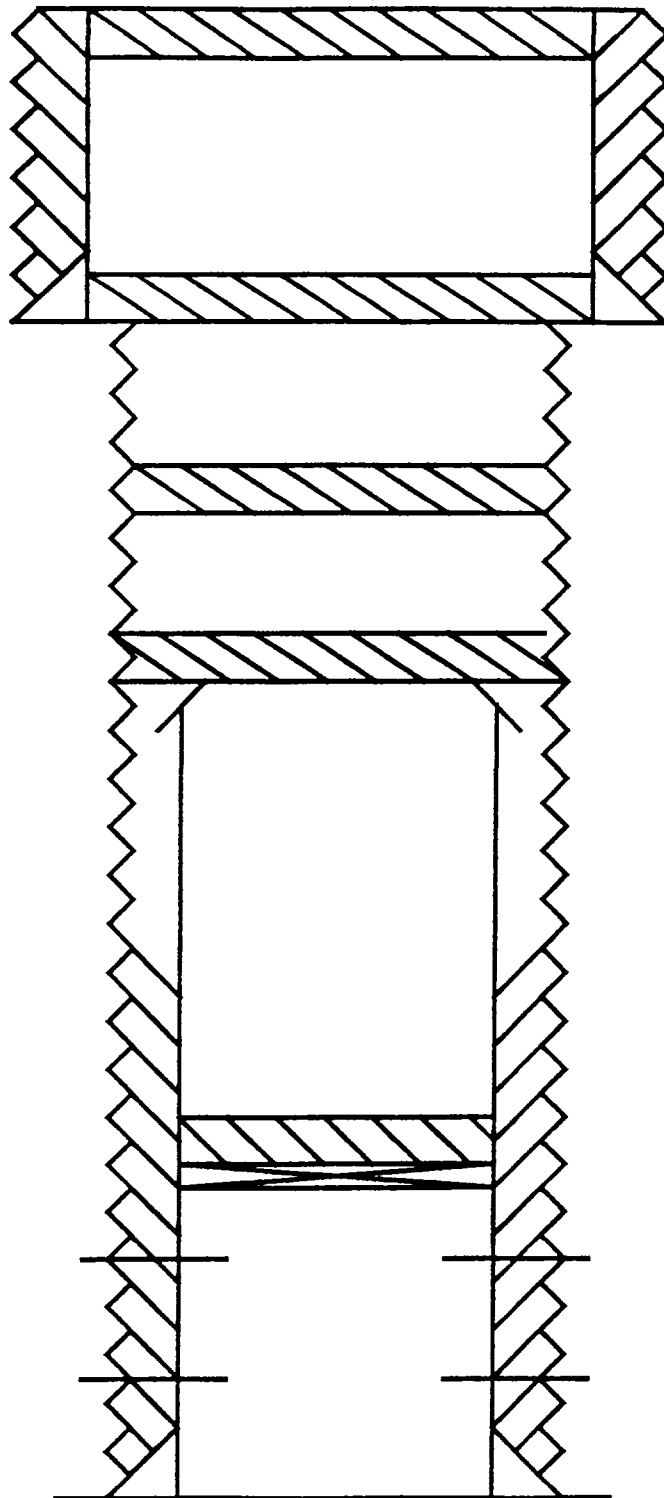


**Leonard Nichols
Phillips State #3**

660' FSL & 660' FWL, Unit M, Sec 2-T17S-R32E
Lea County, New Mexico
Completed 8/47 TD 4140'
Plugged & Abandoned 10/56



Phillips Lexco State #4
 Ryder Scott Management Co.
 Unit M 660' FSL & 450' FWL Sec 2-17S-32E
 Completed 3/62 TD 4165'
 Plugged & Abandoned 04/23/68



Set 10 sx @ top of surface

Set 25 sx @ 360' (base of surface)
 Set 8-5/8" csg @ 360' w/150 sx - circ

Set 25 sx @ 1260' (top of salt)

Set 25 sx @ 2003'
 Cut & pulled 5-1/2" csg @ 2010'

7-7/8" hole

TOC 2803' (calc)

Set CIBP @ 3875' w/1 sk cmt

Perf 3988' - 4118'

Set 5-1/2" 14# @ 4165' w/200 sx
 TD 4165'

AFFIDAVIT OF MAILING

STATE OF NEW MEXICO)
) ss
COUNTY OF EDDY)

I, Perry L. Hughes, do solemnly swear that a copy of this Application has been mailed by certified mail, return receipt requested, to each of the following interested parties:

Surface Owner:

Olane Caswell
1702 Gilham
Brownfield, TX 79316

Offset Operators:

Phillips Petroleum Company
4001 Penbrook
Odessa, TX 79762

Marathon Oil company
PO Box 552
Midland, TX 79702

Perry L. Hughes
Perry L. Hughes

SWORN AND SUBSCRIBED TO before me this 21st day of June, 1994.

My Commission Expires:
10-26-96

Notary Public

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, Kathi Bearden

General Manager

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 _____

one weeks.

Beginning with the issue dated

June 19, 19 94

and ending with the issue dated

June 19, 19 94

Kathi Bearden

General Manager

Sworn and subscribed to before

me this 22 day of

June, 19 94

[Signature]

Notary Public.

My Commission expires
March 15, 1997

(Seal)

LEGAL NOTICE

June 19, 1994

PROPOSED INJECTION
WELL

The Wiser Oil Company proposes the completion of the following well as a water injection well to provide injection service for the existing Waterflood Order No. R-1538: Maljamar Grayburg Unit #13, 660' FSL & 660' FEL, Section 3 17S 32E, Lea County, New Mexico. The zones to be injected into are Grayburg and San Andres from 3800' to 4350' with a maximum injection rate of 500 BWPD/well at a maximum pressure of 2800 psi. Any interested parties with objection or request for hearing should notify the Oil Conservation Division at PO Box 2088, Santa Fe, New Mexico 87501 within 15 days of the notice. Any questions should be directed to Perry L. Hughes, Agent for The Wiser Oil Company, at 207 W. McKay, Carlsbad, New Mexico 88220, telephone number 505-885-5433.

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.

RECEIVED JUN 23 1994



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

BRUCE KING
GOVERNOR

POST OFFICE BOX
HOBBS, NEW MEXICO
(505) 393-61

8/19/94

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

RE: Proposed:

MC	_____
DHC	_____
NSL	_____
NSP	_____
SWD	_____
WFX	<u>X</u> _____
PMX	_____

WFA

Gentlemen:

I have examined the application for the:

The Wiser Oil Company Malheur GB Unit # 13-P-
Operator Lease & Well No. Unit S-T-R 3-17-32

and my recommendations are as follows:

OK

Yours very truly

Jerry Sexton
Supervisor, District 1

/ed