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

11/13/95

GOVERNOR

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

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

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

Gentlemen:

I have examined the application for the:

Wiser Oil Co | Maljamar Grayburg Unit | # 17-G 4-17-32; 20-J 4-17-32; 21-K 4-17-32; 152-E 4-17-32
Operator | Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTM

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

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: 207 West McKay

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? [X] yes [ ] no
If yes, give the Division order number authorizing the project R-3148.

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: 10/30/95

* 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.

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division 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, 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.

ATTACHMENT TO FORM C-108

THE WISER OIL COMPANY
MALJAMAR GRAYBURG UNIT
Wells No. 17, 20, 21 & 152

SECTION

I.-V. Complete on Form C-108

V. Map:

See attached Exhibit "A".

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 & abandoned wells in the area of review.

VII. Proposed Operations:

1. Proposed average daily rate of 250 BWPD/well.
   Proposed maximum daily rate of 500 BWPD/well.

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-T17S-R32E.

Water compatibility studies of produced water from the Maljamar Grayburg Unit and the fresh water from The Wiser Oil Company's Ogalala source in Section 1 have previously been 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.

VII. 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 primariliy 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/well.

X. Logging and Test Data:

Logs for Maljamar Grayburg Unit #'s 17, 20 & 21 are on file at the OCD Hobbs office and logs for Maljamar Grayburg Unit #152 will be sent upon completion.

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

XII. Not Applicable.

XIII. Proof of Notice:

1. 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. An Affidavit of such notice is attached Exhibit "C". Copies of the return receipts will be furnished upon request. Notice is being published in the Hobbs New Sun. An Affidavit of Publication will be forwarded as soon as possible.

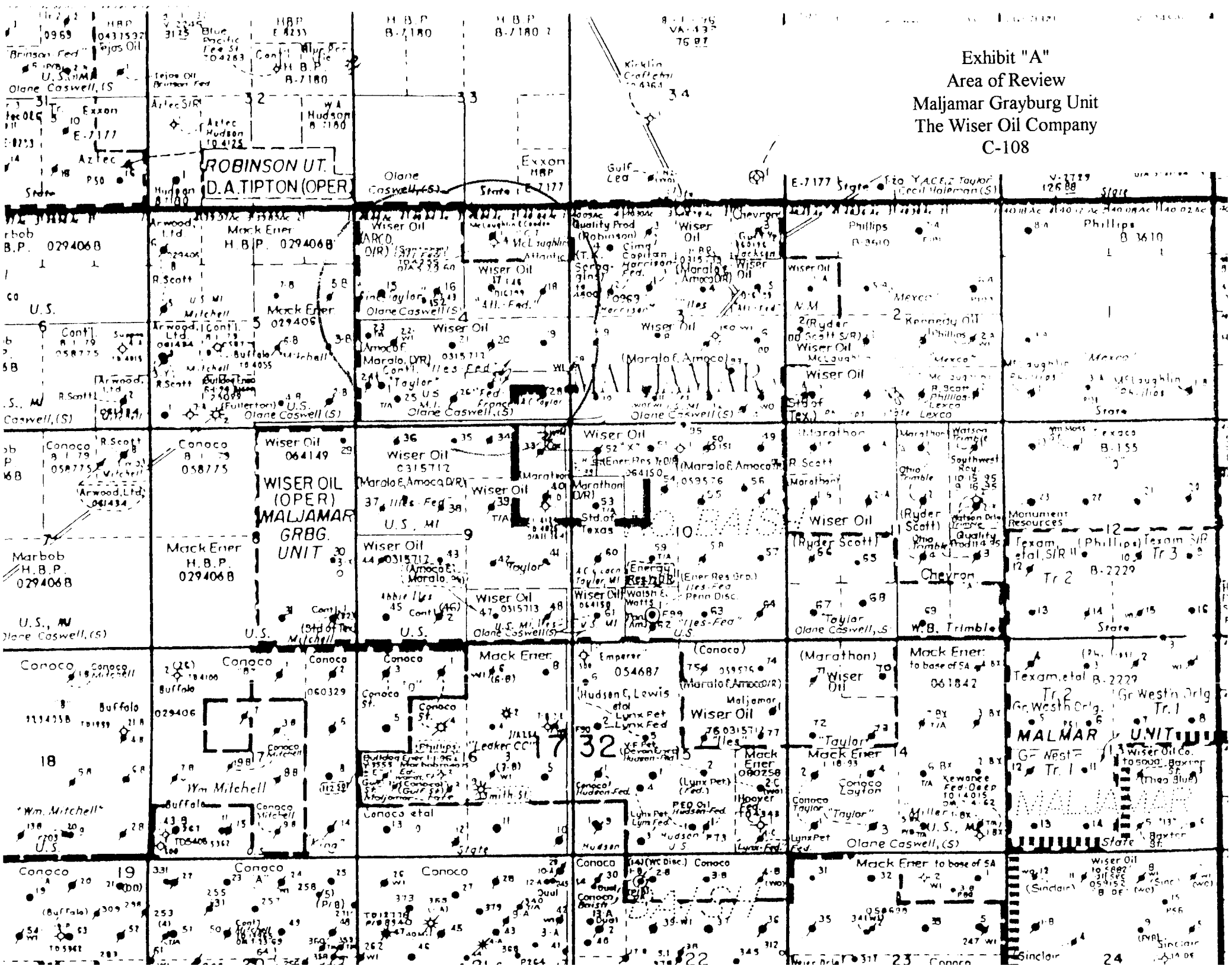


Exhibit "A"
Area of Review
Maljamar Grayburg Unit
The Wiser Oil Company
C-108
ROBINSON UT.
D.A.TIPTON (OPER)
WISER OIL
(OPER)
MALJAMAR
GRBG.
UNIT
MALJAMAR
GR-SA
UNIT

Exhibit "A" Part 2
Wells Within Two-Mile Radius
Of Injection Wells
Maljamar Grayburg Unit
The Wiser Oil Company

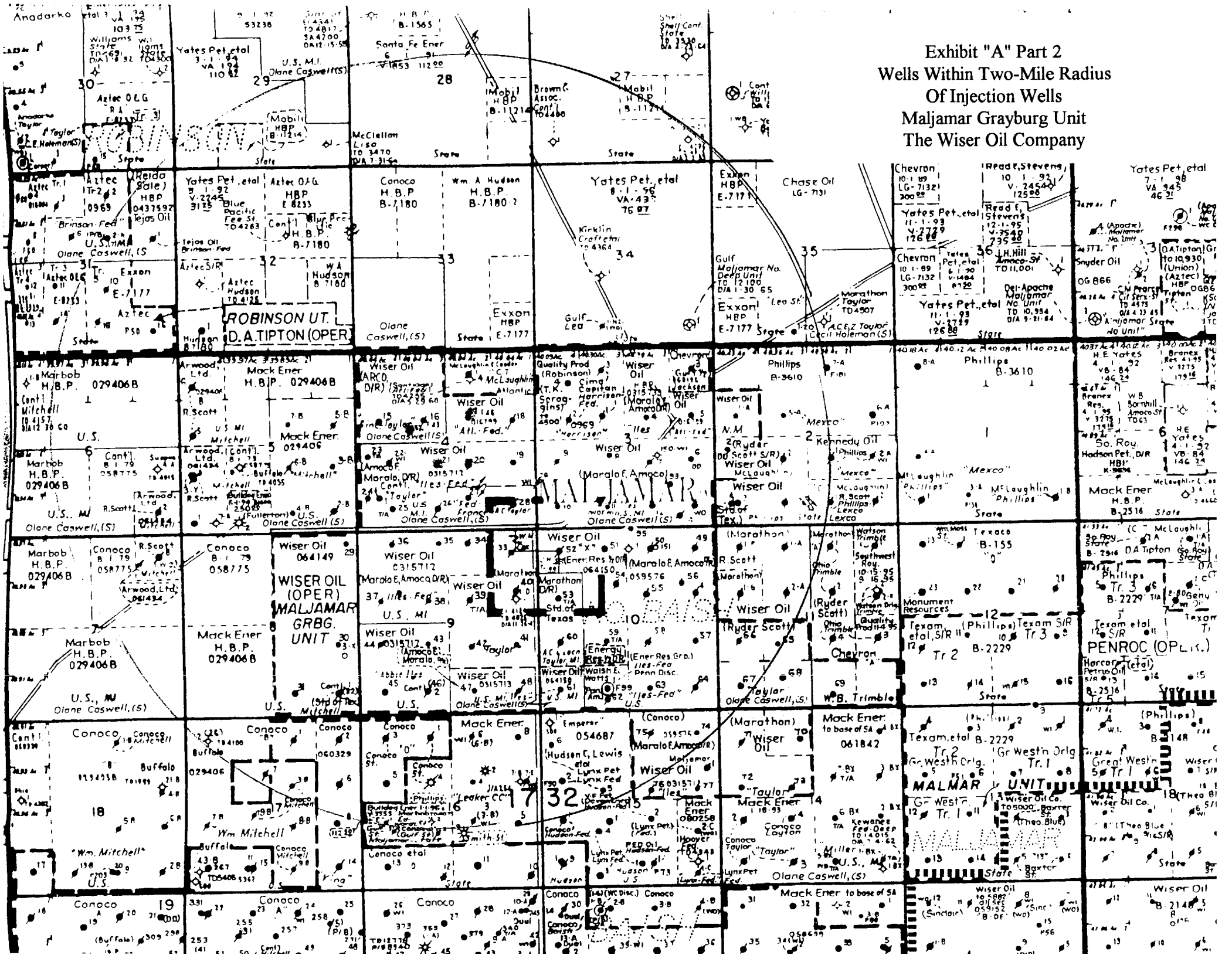


EXHIBIT "B"
ATTACHMENT TO FORM C-108

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
Maljamar Grayburg Unit #9	10/16/63	4149'		8 5/8"	373'	225	3950-4090	F 40,000#	P & A
660' FWL & 1980' FSL				5 1/2"	4149'	350			
Unit L, Section 3-T17S-R32E									
Maljamar Grayburg Unit #15	09/14/60	4174'	4163'	8 5/8"	335'	200	3881-4060	A 3000 gal	Producing
1980' FNL & 660' FWL				5 1/2"	4174'	300		F 70.000#	
Unit E, Section 4-T17S-R32E									
Maljamar Grayburg Unit #16	04/30/60	4195'	4176'	8 5/8"	297'	250	3878-4170	A 1800 gal	P & A
1980' FNL & 1980' FWL				5 1/2"	4193'	300		F 45,000#	
Unit F, Section 4-T17S-R32E						TOC - 3003'			
Maljamar Grayburg Unit #17	04/20/60	4240'	4227'	8 5/8"	301'	250	4077-4085	A 3500 gal	Producing
1980' FNL & 1980' FEL				5 1/2"	4239'	300		F 51,000#	
Unit G, Section 4-T17S-R32E									
Maljamar Grayburg Unit #20	10/05/60	4209'		8 5/8"	308'	200	3426-4186	A 1000 gal	P & A
1980' FSL & 1980' FEL				5 1/2"	4209'	450		F 60,000#	
Unit J, Section 4-T17S-R32E									
Maljamar Grayburg Unit #21	09/13/60	4189'		8 5/8"	813'	200	3884-4152	A 1000 gal	Producing
1980' FSL & 2310' FWL				5 1/2"	4189'	450		F 150,000#	
Unit K, Section 4-T17S-R32E									
Maljamar Grayburg Unit #22	11/11/60	4010'	4000'	8 5/8"	287'	200	3856-3988	A 3000 gal	Injecting
1980' FSL & 990' FWL				5 1/2"	4010'	400		F 78,000#	
Unit L, Section 4-T17S-R32E									

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
Maljamar Grayburg Unit #23	03/26/62	4118'	4024'	8 5/8"	297'	200	3848-3980	A 1250 gal	TA
2010' FSL & 330' FWL				5 1/2"	4010'	400		F 249,000#	
Unit L, Section 4-T17S-R32E									
Maljamar Grayburg Unit #24	03/28/62	4118'	4115'	8 5/8"	293'	200	3828-4090	F 50,000#	P & A
990' FSL & 330' FWL				5 1/2"	4118'	350			
Unit M, Section 4-T17S-R32E									
Maljamar Grayburg Unit #25	11/30/60	4015'		8 5/8"	292'	200	3844-3966	F 46,000#	TA
660' FSL & 990' FWL				5 1/2"	4015'	400			
Unit M, Section 4-T17S-R32E									
Maljamar Grayburg Unit #27	12/20/60	4038'		8 5/8"	318'	175	3864-4026	F 157,700#	Producing
990' FSL & 1980' FEL				5 1/2"	4038'	400			
Unit O, Section 4-T17S-R32E									
Maljamar Grayburg Unit #28	12/14/60	4090'	4078'	8 5/8"	308'	200	3912-4046	A 2900 gal	P & A
660' FSL & 660' FEL				5 1/2"	4090'	350		F 31,000#	
Unit P, Section 4-T17S-R32E									
Maljamar Grayburg Unit #33	09/20/64	4050'		8 5/8"	259'	225	3888-4016	F 42,000#	P & A
670' FNL & 770' FEL				5 1/2"	4050'	200			
Unit A, Section 9-T17S-R32E									
Maljamar Grayburg Unit #34	12/08/61	4060'		8 5/8"	294'	200	3834-3990		P & A
330' FNL & 1980' FEL				5 1/2"	4050'	350			
Unit B, Section 9-T17S-R32E									

EXHIBIT "B"
ATTACHMENT TO FORM C-108

TABULATION OF DATA ON ACTIVE WELLS IN AREA OF REVIEW

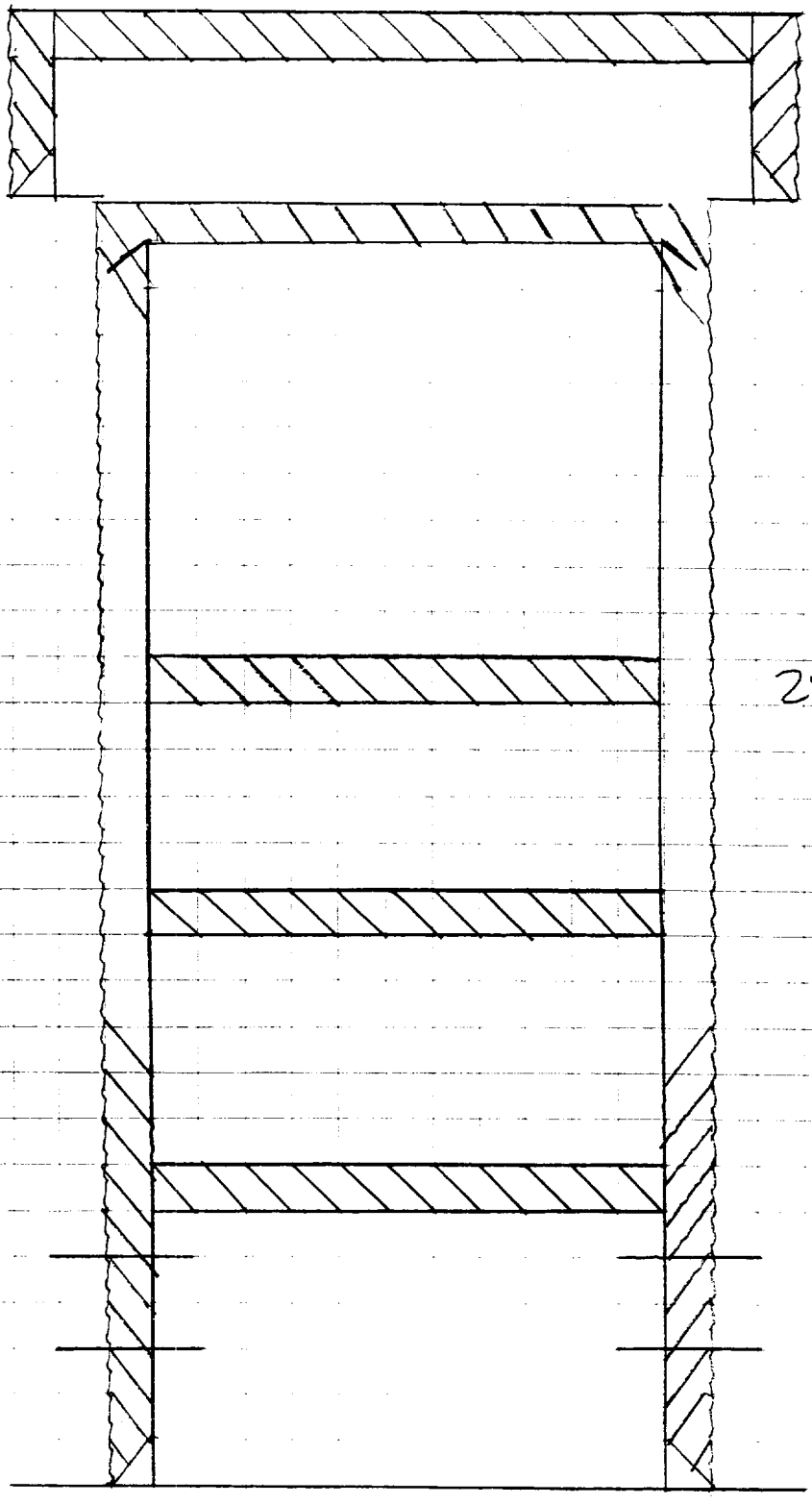
OPERATOR - WELL NAME LOCATION	COMPLETION DATE	TD	PBTD	CASING SIZE	CASING DEPTH	CEMENT SACKS/TOP	PRODUCING INTERVAL	STIMULATION	CURRENT STATUS
Maljamar Grayburg Unit #35	08/11/61	4020'		8 5/8"	293'	200	3848-3976	A 1000 gal	TA
330' FNL & 2310' FWL				5 1/2"	4020'	390		F 103,000#	
Unit C, Section 9-T17S-R32E									
Maljamar Grayburg Unit #36	08/08/61	3990'		8 5/8"	302'	200	3796-3950	F 57,000#	P & A
330' FNL & 990' FWL				5 1/2"	3990'	350			
Unit D, Section 9-T17S-R32E									
Maljamar Grayburg Unit #72	08/08/81	4300'	4254'	8 5/8"	370'	450	3921-4244	A 3300 gal	SI
50' FWL & 1400' FSL				5 1/2"	4300'	1025		F 101,000#	
Unit L, Section 3-T17S-R32E									

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
Lynx Petroleum Consultants	N/A	4150'		8 5/8"	312'	250	3361-3378	A 3200 gal	P & A
Santiago Federal #4				5 1/2"	4150'	1500	3888-4112	F 49,000#	
810' FNL & 1830' FEL									
Unit B, Section 4-T17S-R32E									
Mack Energy Corporation	05/16/62	4132'		7 5/8"	1007'	475	OH 3880-4132	A 3000 gal	Injecting
Grace Mitchell "B" #5				4 1/2"	3880'	200		F 49,500	
1980' FNL & 660' FEL						TOC - 2400'			
Unit H, Section 5-T17S-R32E									
Mack Energy Corporation	05/24/62	4100'		7 5/8"	981'	500	OH 3855-4100	A 1500 gal	Producing
Grace Mitchell "B" #3				4 1/2"	3855'	200		F 51,000#	
1980' FSL & 660' FEL						TOC - 2500'			
Unit I, Section 5-T17S-R32E									

Maljamar Grayburg Unit #
The Wiser Oil Company
Unit L, 1600' FWL + 1980' FSL, Section 3-T17S-R32E
Completed: 10-16-63 TD: 4149
Plugged + Abandoned: 5-75



8 5/8 set @ 373" w/ 225 sx

Spot 80 sx 489'

25 sx @ 1204'

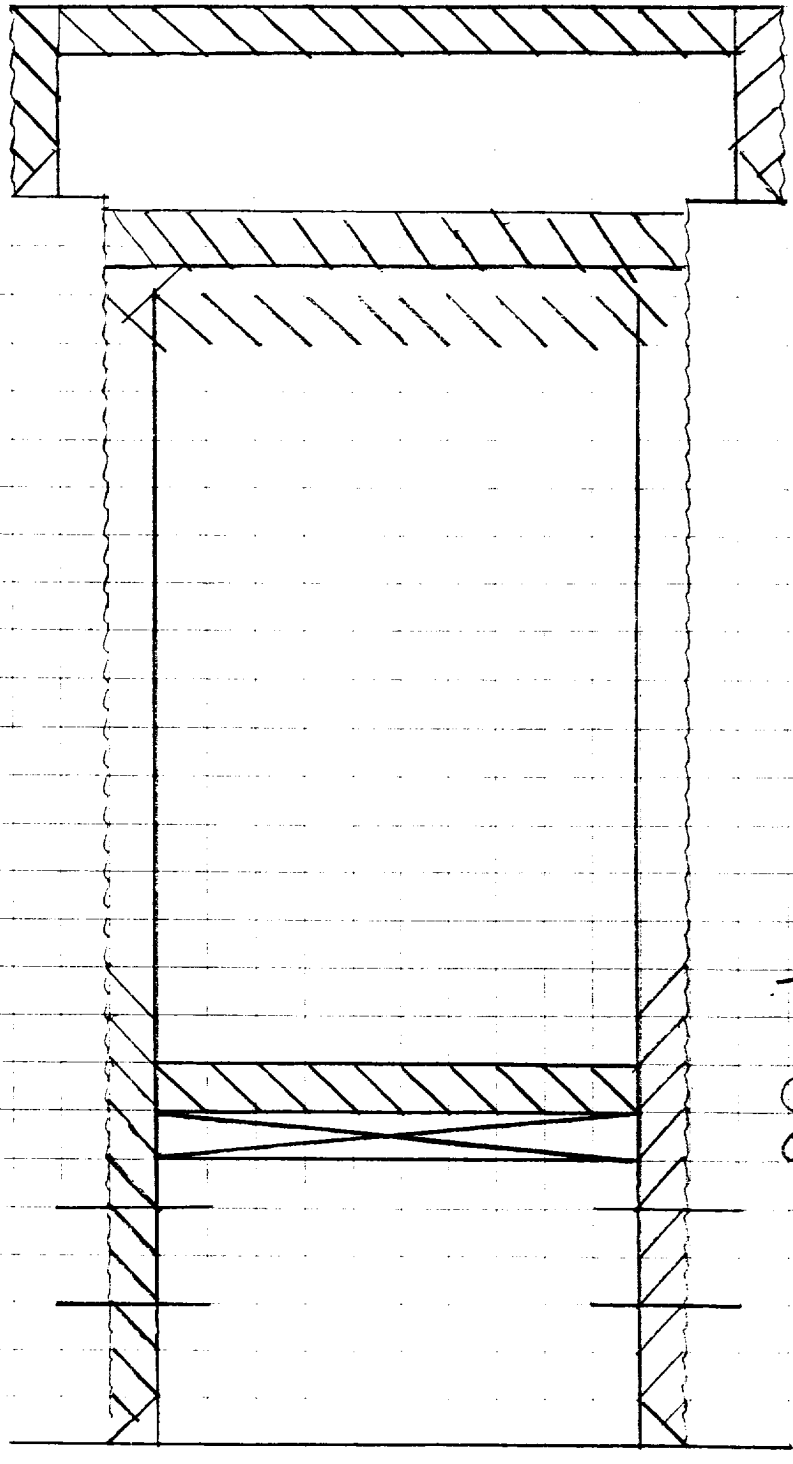
25 sx cmt @ 2604'

35 sx cmt @ 3810'

Perfs 3950-4090

5½" set @ 4149 w/ 350 sx
TD 4149'

Malmar Grayburg Unit # 16
The Wiser Oil Company
Unit F, 1980' FNL + 1980' FWL, Section 4-T17S-R32E
Completed: 04-30-60 TD: 4195'
Plugged + Abandoned: 10-12-74



8⅝ set @ 297' w/250 sx
Spot 50 sx @ 347'
Cut + pulled 5½" csg @ 744'
Spot 50 sx @ 744'

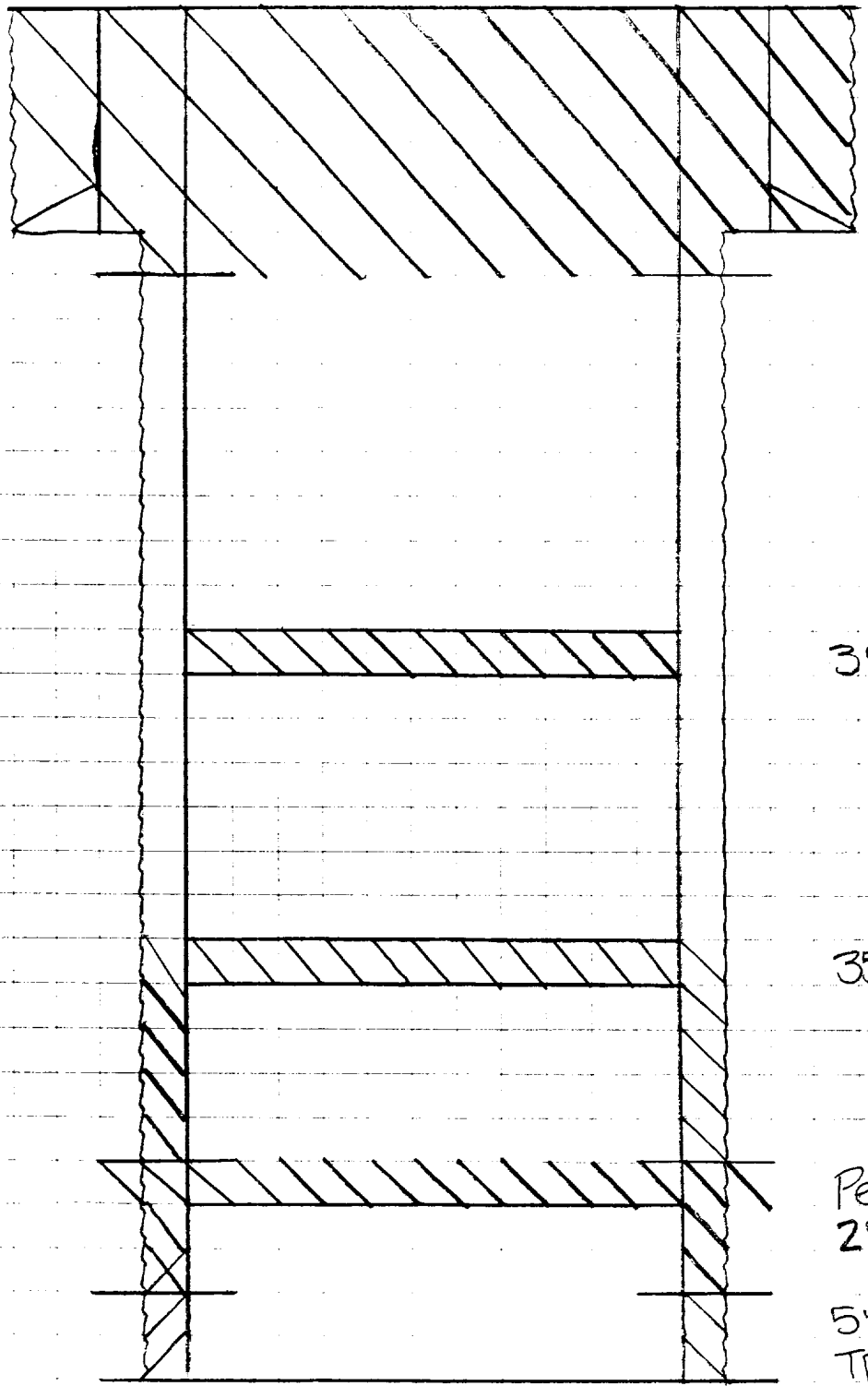
TOC 3003'

CIBP @ 3801 w/35 sx cmt on top

Perfs 3878-4170

5½" csg set @ 4193 w/300 sx
TD 4195

Maljc nar Grayburg Un. #20
The Wiser Oil Company
Unit J, 1980' FSL + 1980' FEL, Section 4-T17S-R32E
Completed: 10-5-60 TD: 4209'
Plugged + Abandoned: 9-11-75



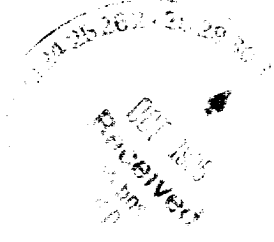
8 5/8" csg @ 308' w/ 200 sx
Perf 5 1/2 @ 356'
Pump 75 sx down 5 1/2
Circ to surf. via 8 5/8
5 1/2 left full.

35 sx @ 1150'

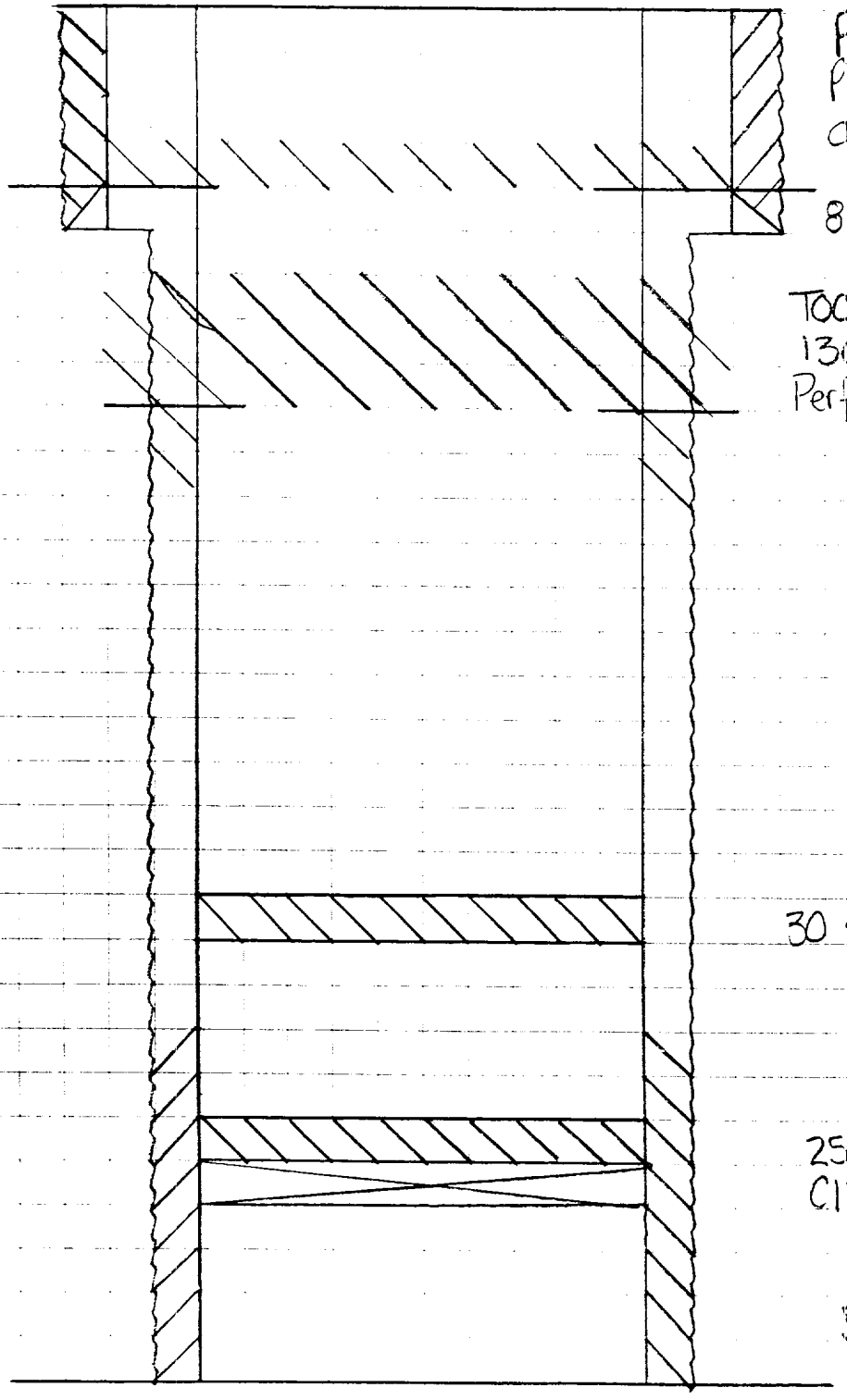
35 sx @ 2500'

Perf 3426-4186
25 sx 3016-3800

5 1/2" csg @ 4209' w/ 450 sx
TD 4209'


RECEIVED

Maljamc Grayburg Unit #2
The Wiser Oil Company
Unit M, 990' FSL + 330' FWL, Section 4-T17S-R32E
Completed: 03-28-62 TD: 4118'
Plugged + Abandoned: 10-14-76



Perf 4 holes in 5½" @ 200'
Pump 40 sx down 5½" -
did not circ.

8⅝" set @ 293' w/ 200 sx

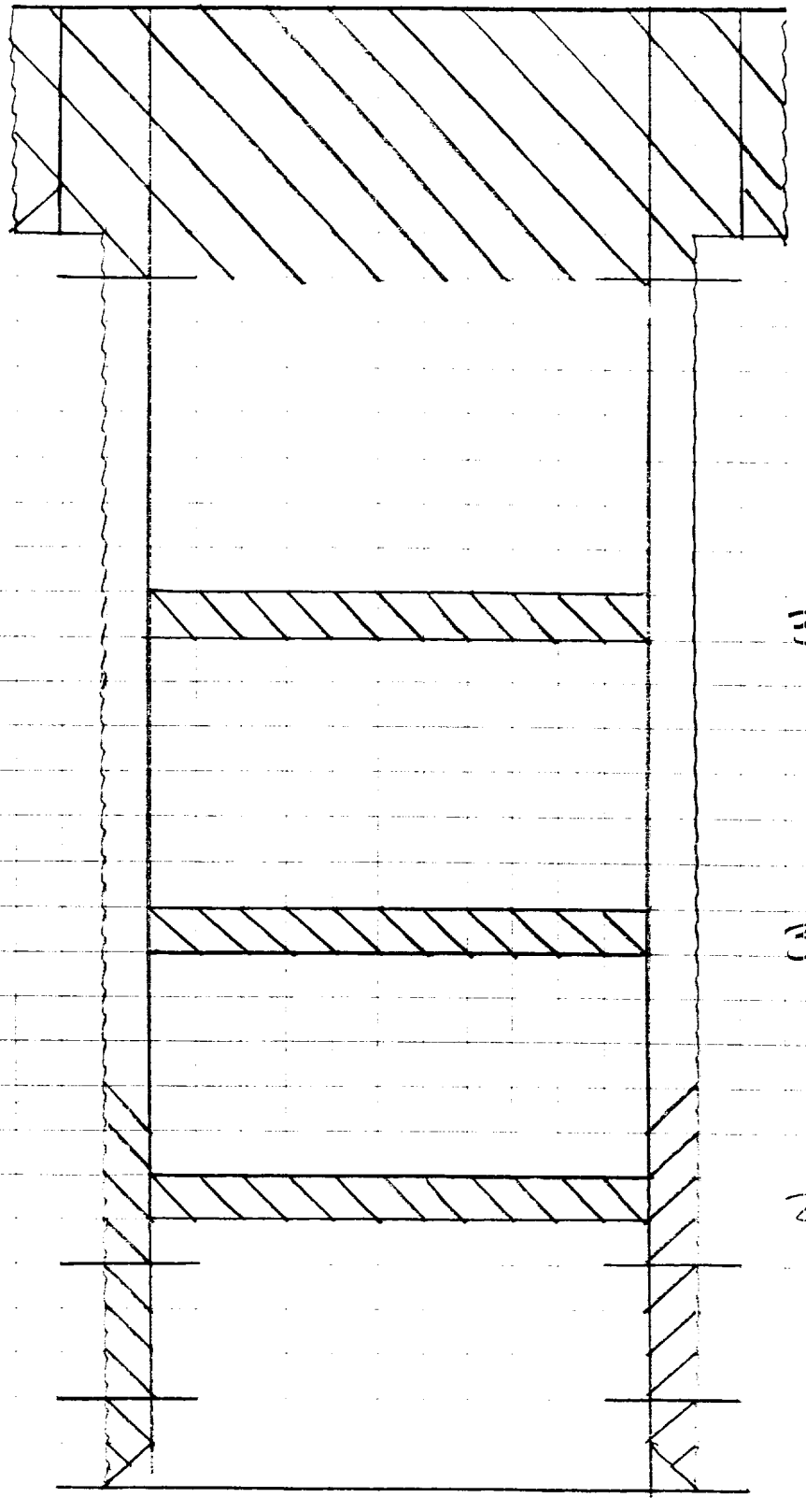
TOC 540'
130 sx down 5½ x 8⅝
Perf 5½" csg @ 1000'

30 sx cmt plug 2586-2330

25 sx cmt plug 3700-3500
CIBP @ 3710'

5½" set @ 4118 w/ 350 sx
TD 4118'

Maljamar Grayburg Unit # 28
The Wiser Oil Company
Unit P, 660' FSL + 660' FEL, Section 4-T17S-R32E
Completed: 12-14-60 TD: 4090
Plugged + Abandoned: 09-11-75



8 5/8" csg @ 308' w/ 200 sx
Perf 5 1/2 @ 358' -
Pump 96 sx down
5 1/2 + circ to surf.
via 5 1/2 x 8 5/8 annulus
leaving 5 1/2 full.

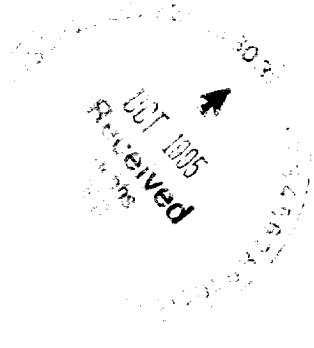
35 sx @ 1000'

30 sx @ 2400'

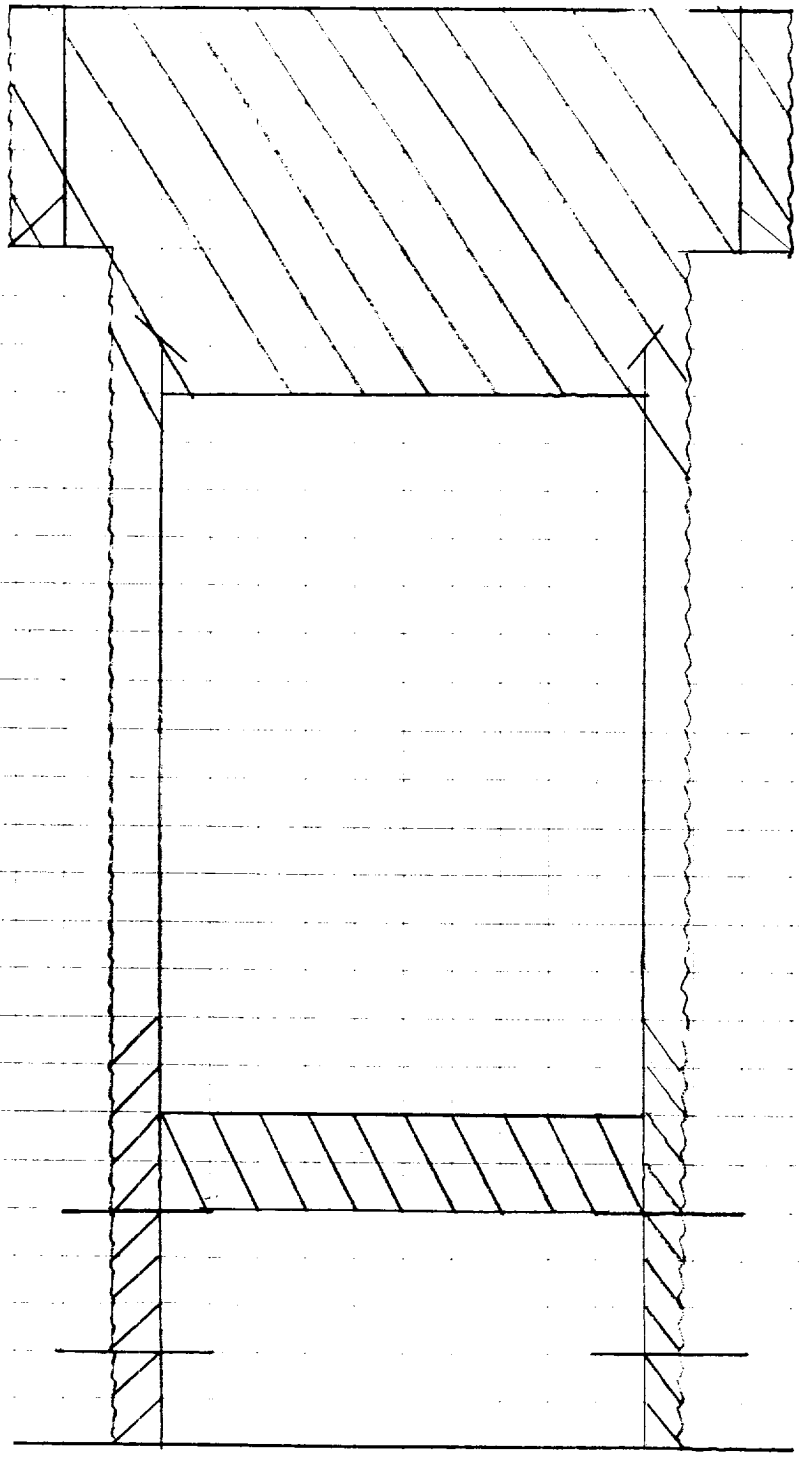
25 sx @ 3800'

Perf 3912-4046

5 1/2" csg @ 4090 w/ 350 sx
TD 4090'


OCT 1995
Received

Maljamar Grayburg Unit #73
The Wiser Oil Company
Unit A, 670' FNL + 770' FEL, Section 9-T17S-R32E
Completed: 09/20/64 TD: 4050'
Plugged + Abandoned: 04/12/89



8 5/8" csg @ 259 w/ 225 sx

5½" csg cut + pulled @ 374'
Set 180 sx cmt plug 450' - surface

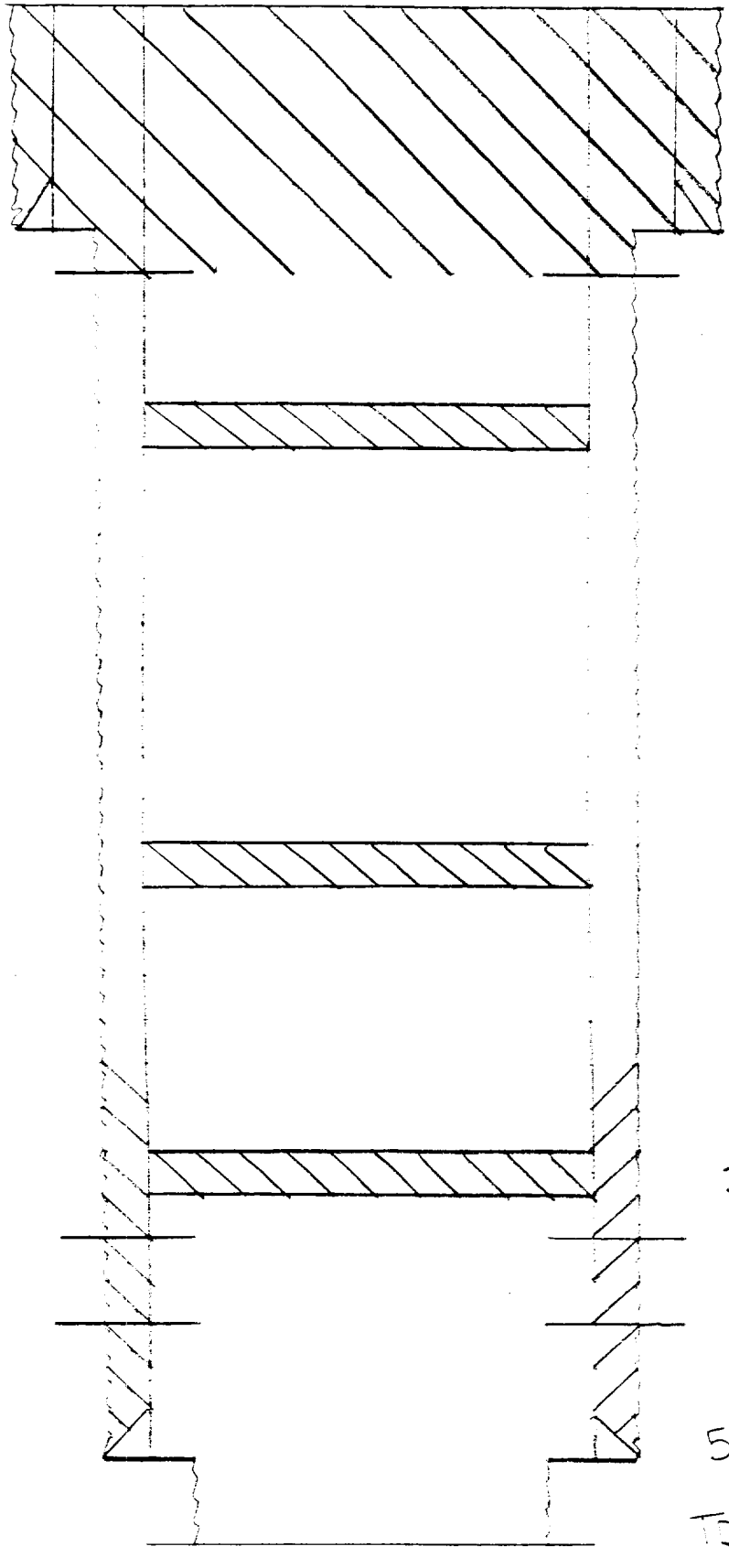
Cmt plug 3643-3888

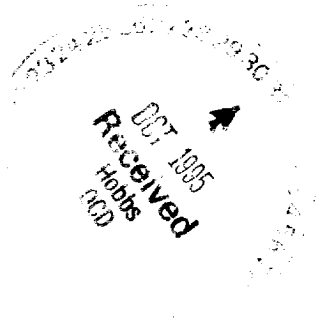
Perfs 3888-4016

5½" csg @ 4050' w/ 200 sx
TD 4050

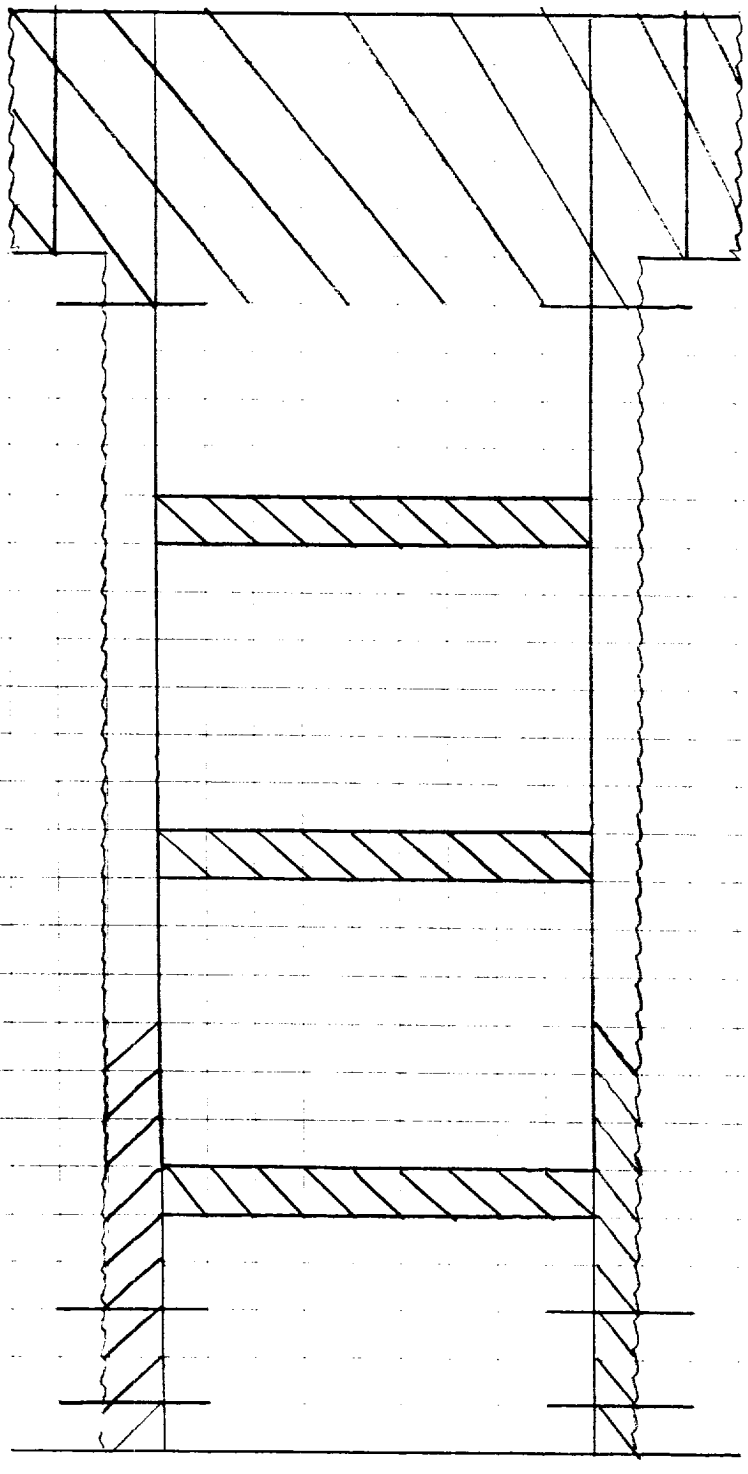

DOT 1995
Received

Malco ... Ground ... = 34
... Mesa Oil Company
Unit B, 330' FNL + 1980' FEL, Section 3-T17S-R3E
Comp: 12-03-9... TD: 4060'
Plugged + Abandoned: 09-11-75




OCT 1995
Received
Hobbs
OCD

Maljam Graybura Unit # 3
The Wiser Oil Company
Unit D, 330' FNL + 990' FWL, Section 9-T17S-R32E
Completed: 08-08-61 TD: 3990'
Plugged + Abandoned 09/11/75



Pump 85 sx into 8 5/8 x 5½ annulus

8 5/8" csg @ 302' w/ 200 sx
Perf 5½" csg at 352'

35 sx @ 1000'

30 sx @ 2400'

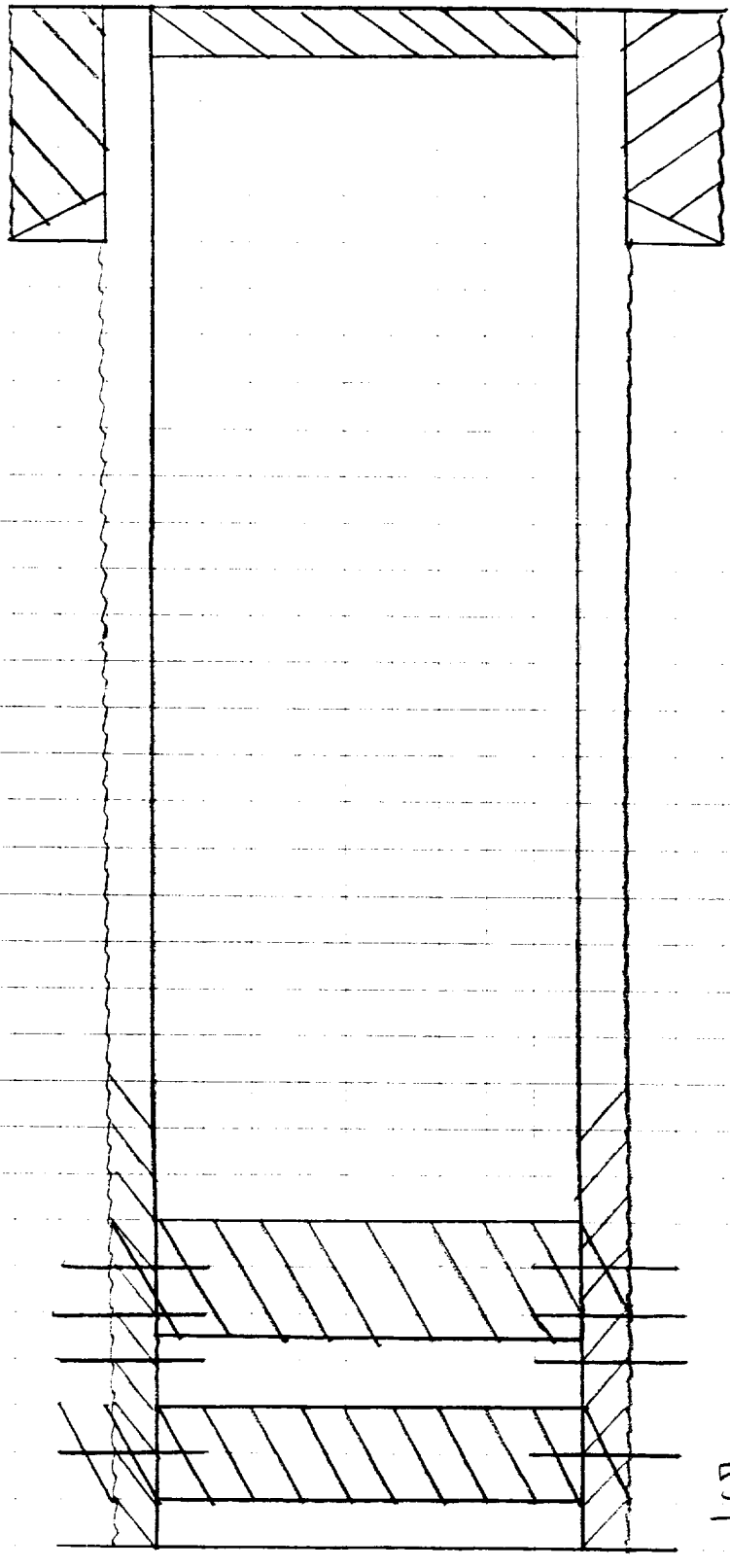
25 sx @ 3700'

Perf 3790 - 3950

5½" csg @ 3990 w/ 350 sx
TD 3990'


OCT 1995
Received
Hobbs
OCD

Santiago Federal # 4
Larry Petroleum Consultants
Unit E, 810' FNL + 1650' FEL, Section 4-T17S-R32E
Completed: N/A TD: 4150'
Plugged + Abandoned: 06-11-84



CMt plug - 10 sx surf.

8 5/8" @ 312' w/ 250 sx

CMt Plug 3300 - 3430
Perf 3361 - 3378

Perf 3888-4112
CMt Plug 3933-4122
5 1/2" csg @ 4150' w/ 1500 sx
TD: 4150'

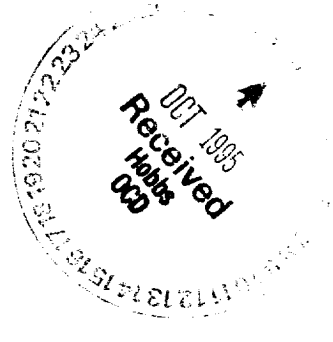

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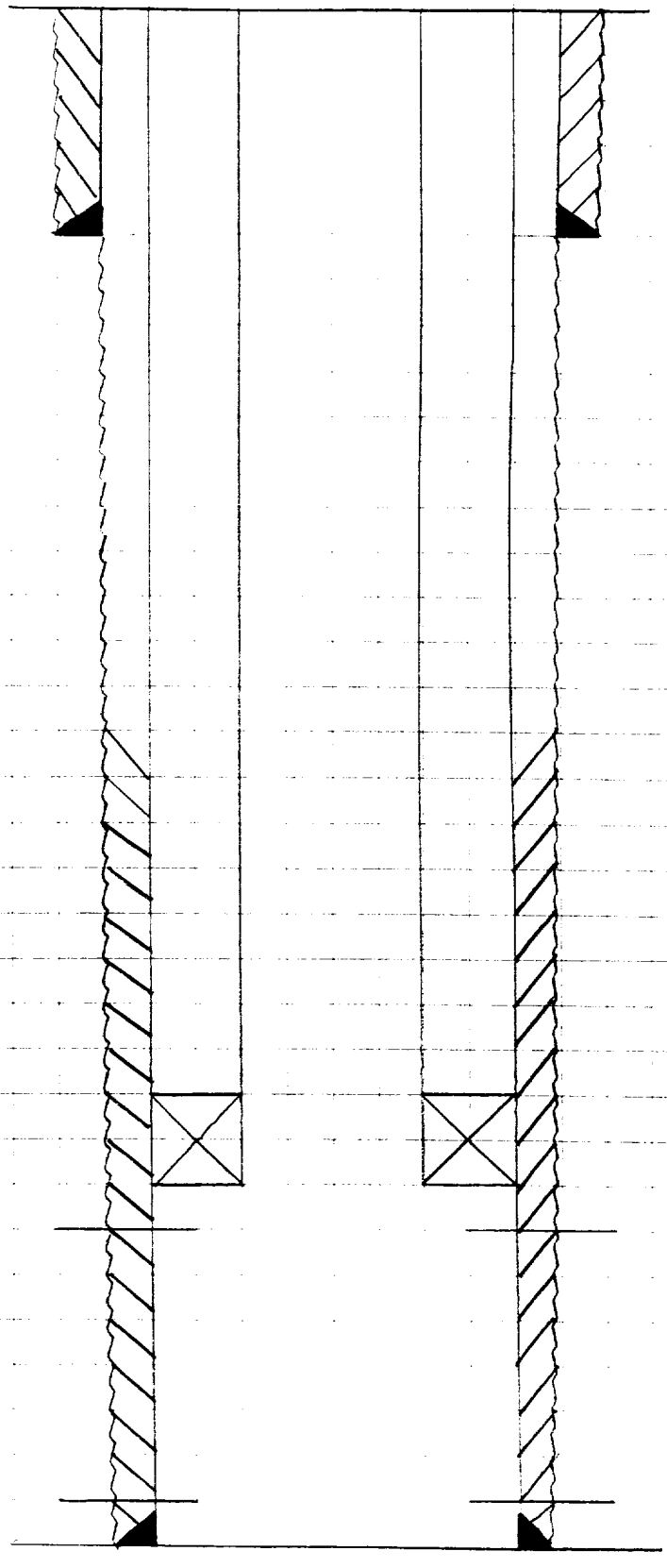
Exhibit "C"

Typical Injection Well Bore
Maljamar Grayburg Unit



12¼" hole

8⅝" 24# csg set @ 350"
Cmt to circ to surface

7⅞" hole

TOC 2000'

2⅜" plastic coated injection
pkr set @ 3700'

Perfs 3800–4350'

5½' 15.5# csg set @ TD
TD 4400'


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Exhibit "D"
AFFIDAVIT OF MAILING

STATE OF NEW MEXICO)
: ss
COUNTY OF EDDY)

I, Melanie J. Parker, 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 Operator:

Mack Energy Corporation
P.O. Box 276
Artesia, NM 88211-0276

Melanie J. Parker

SWORN AND SUBSCRIBED TO before me this 30th day of October 1995.

My Commission Expires:
03-08-99

Notary Public

OFFICIAL SEAL
Jawna M. Harris
NOTARY PUBLIC—STATE OF NEW MEXICO
My commission expires: 03-08-99


OCT 1995
Received
Hobbs
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