

PENROC

March 18, 1994

Mr. David Catanach
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Re: Application for Administrative Approval for Salt Water Disposal
State AK Well No. 1
Unit N. Section 10. T-11-S. R-33-E
Lea County, New Mexico

Dear Mr. Catanach:

Penroc Oil Corporation is requesting administrative approval to convert the captioned well to salt water disposal. This well will be utilized to dispose produced water from Penroc operated Bagley properties (T-11-S, R-33-E) which are capable of producing 20-35 BOPD and 250 MCFPD.

Penroc has 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.

An early approval of this application will be greatly appreciated. Without a relative in-expensive disposal, the producing wells will have to be plugged and will result in loss of precious reserves. Thank you.

Sincerely,

PENROC OIL CORPORATION


M. Y. (Merch) Merchant
President

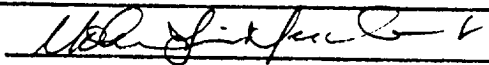
MYM/br

Attachments

CC: Surface Owner
Offset Operators

MAILING ADDRESS:
PO Box 5970
Hobbs, NM
88241-5970
DELIVERY ADDRESS:
5014 Carlsbad Hwy.
Hobbs, NM
88240-1118
(505) 397-3596 Phone
(505) 393-7051 FAX

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: PENROC OIL CORPORATION
Address: P. O. BOX 5970 HOBBS NM 88241-5970
Contact party: M. Y. (Merch) Merchant Phone: (505) 397-3596
- 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: Mohammed Yamin Merchant Title: President
Signature:  Date: 3/18/94
- * 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. N/A

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.

III A. WELL DATA:

1. STATE AK WELL NO. 1
UNIT N, SECTION 10, T-11-S, R-33-E
BAGLEY FIELD, LEA COUNTY, NEW MEXICO
2. WELL DRILLED IN AUGUST 1966.

13 3/8", 48# @ 368' w/ 425 sxs. (circ.)
8 5/8", 32 & 24# @ 3777' w/ 700sxs. (circ.)
5 1/2", 15.5 & 17# @ 10,200' w/ 525 sxs. Top of cement by temp.
survey: 7865'
3. WELL IS DEPLETED IN THE PRESENT PAY. NO OTHER POSSIBILITIES EXIST.

WILL USE 2 7/8" PLASTIC COATED TUBING.
4. THE TUBING WILL BE SET AT APPROXIMATELY 9000 FEET IN A 5 1/2" x 2 7/8"
NICKEL COATED PACKER.

PENROC OIL CORPORATION

APPLICATION FOR AUTHORIZATION TO INJECT

VII.

1. Average Daily Rate: 200 BW
Maximum Daily Rate: 650 BW
2. Closed System
3. Inject on Vacuum Initially
4. Re-injected Produced Water
5. Not Applicable

VIII.

The proposed injection zone is considered to be Strawn Age. Lithologically it is a limestone of shelf origin. The approximate depth at this locale is 9400' and the thickness is +/- 600'.

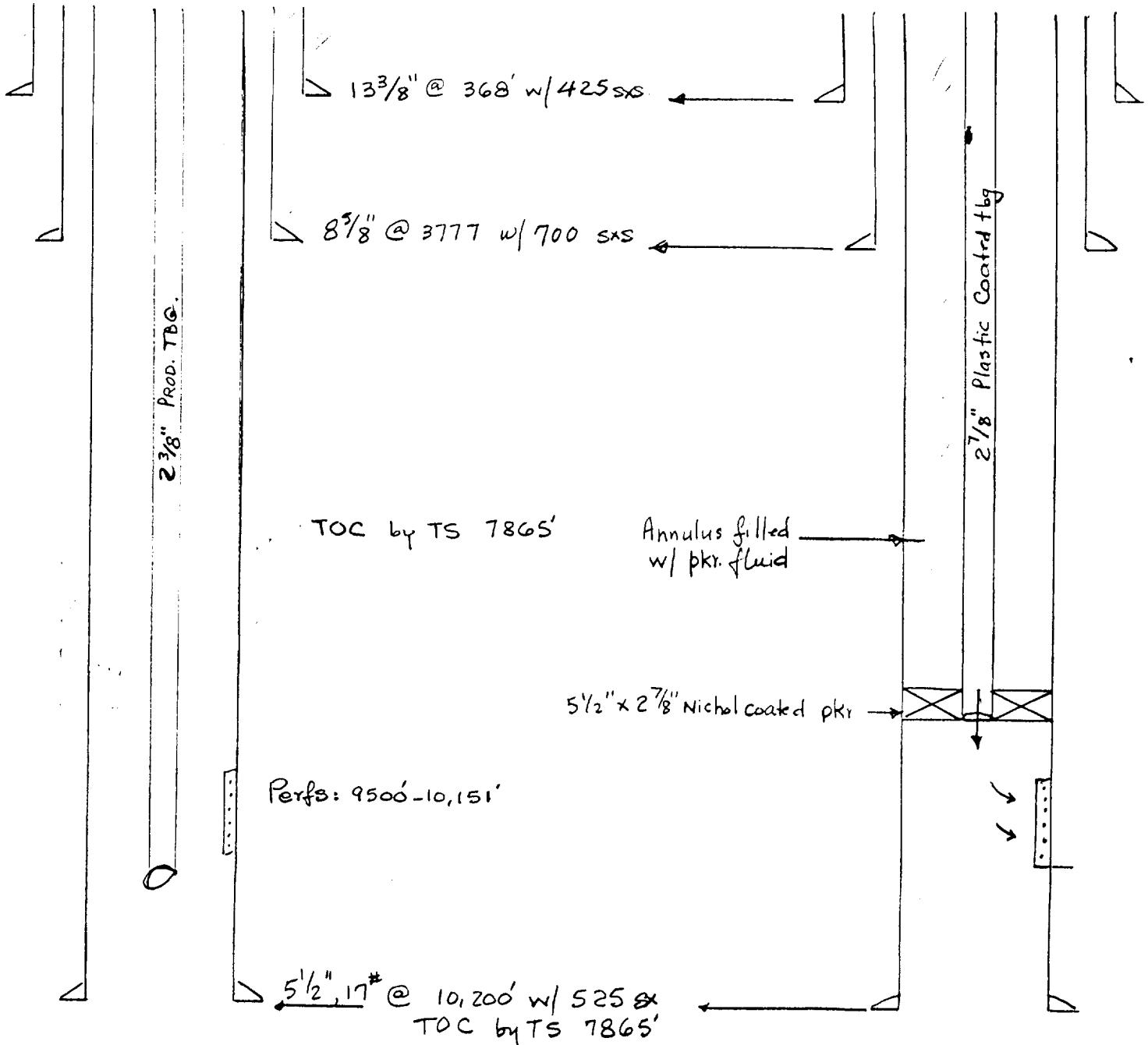
The fresh water aquifer at this site is the Oglalla found from near surface to a depth of 380'.

- IX. None at this time.
- X. Logs have been filed with OCD.
- XI. Analysis attached.
- XII. Applicant attests that a thorough examination has been made of all available geologic, engineering, and well data and that no hydrologic connection exists between the proposed injection interval and the overlying fresh water aquifer.

STATE AK WELL NO. 1
Sec. 10, T11S, R2 E
Unit N
Lea County, New Mexico

PRESENT

PROPOSED



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

March 13, 19 94

and ending with the issue dated

March 13, 19 94

Kathi Bearden
General Manager

Sworn and subscribed to before

me this 15 day of

March 19 94

Charlene Perrin
Notary Public.

My Commission expires
March 15, 1997
(Seal)

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

LEGAL NOTICE

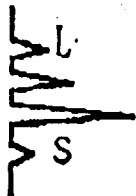
March 13, 1994

PENROC OIL CORPORA-
TION, P.O. Box 5970,
Hobbs, New Mexico 88241-
5970, is filing an application
to convert its State 'AK'
Well No. 1 to water dispo-
sal. This well is located 660'
FSL, 1980' FWL in Section
10, T-10-S, R-33-E, Lea
County, New Mexico.

The intention of the applic-
ant is to inject produced
water from the Penn forma-
tion at its producing wells in
the Bagley Field into the
lower Penn formation at
State 'AK' which is depleted.

Maximum injection rates
will be 850 barrels of water
per day at pressures not to
exceed 1200 psig. The
depth of the injection zone
will be below 9500 feet, bet-
ween 9500' and 10,151'.

All interested parties must
file any objections or re-
quests for hearing with the
Oil Conservation Division,
P.O. Box 2088, Santa Fe,
New Mexico 87501 within
15 days of this notice. M.Y.
(Merch) Merchant, Presi-
dent, (505) 397-3596.



Laboratory Services
1331 Tasker Drive
Hobbs, New Mexico 88240
(505) 397-3713

WATER ANALYSIS

COMPANY LBO

SAMPLE Fresh Water from Windmill

SAMPLED BY KENT LEARLEY

DATE TAKEN July 13, 1993

REMARKS Located on OG State Lease

Nitrate	4.0
Barium as Ba	0
Carbonate alkalinity PPM	0
Bicarbonate alkalinity PPM	208
pH At Lab	7.14
Specific Gravity @ 60 F	1.000
Magnesium as Mg	164
Total Hardness as CaCO ₃	282
Chlorides as CL	70.6
Sulfate as SO ₄	145
Iron as Fe	0.25
Potassium	0.11
Hydrogen Sulfide	0
Conductivity mS/cm	0.78 @ 23.0° C
Total Dissolved Solids	380
Carbonate as CO ₃ G/L	0
Calcium as CA	118

Results reported as Parts Per Million Unless Stated.

Langelier Saturation Index • 0.52

Analysis By: Vickie Walker
Date: 7/14/93

PENROC OIL CORPORATION

STATE "AK" No. 1

APPLICATION FOR AUTHORIZATION TO INJECT

VI.

10-11-33

ORyx ENERGY Co. J. P. COLLIER No. 1 UNIT F

13³/₈" @ 321' w/ 300 sxs. cmt. circ.

8⁵/₈" @ 4199' w/ 805 sxs. cmt. circ.

5¹/₂" @ 11,187' w/ 750 sxs TOC 8595'

PB 9900' - Perfs: 9862'-72'

well currently producing.

HEADINGTON OIL TP "A" STATE No. 1 UNIT J

13³/₈" @ 350' w/ 375 sx. circ.

8⁵/₈" @ 3755' w/ 300 sxs.

5¹/₂" @ 10,300' w/ 750 sxs. + 300 sxs. w/ DV tool @ 469'

Perfs : 10,055 - 10,128'

9889 - 98,9495 - 9502, 9618' - 9624'

well currently producing.

VI-Contd.

10-11-33

(FELMONT OIL) TRIPPERARY OIL CORP.

STATE "F" No.1 UNIT K

13³/₈" @ 330' w/ 300 sxs. circ.

8⁵/₈" @ 4250' w/ 1750 sxs. circ.

5¹/₂" @ 10,121' w/ 750 sxs. TOC 7660'

Perfs : 10,058 - 10,118

Plugged by Felmont April, 1976. (see sketch)

Re-entered by Tripperary to test Abo 8600'-8700'-
water only - P & A'd as shown on sketch.

HEADINGTON OIL - TP State No.2 Unit O

13³/₈" @ 361' w/ 375 sxs. circ.

8⁵/₈" @ 3740' w/ 300 sxs. •

5¹/₂" @ 10,221 w/ 750 sxs. + 300 sxs. @ DV tool.

Perf : 10,110-26, 10,129 7 10,126-40, 10,148-54
9909-44' ; 9504-08, 10,032-36, 10056-64
8564-68, 8573-724', 8782-8820'

Well shut-in (TA'd)

15-11-33

Gulf Oil Corp. (Chevron) Lea "HP" State Unit B

13³/₈" @ 375' ~~375'~~ w/ 350 sxs. surface

8⁵/₈" @ 3800' w/ 500 sxs. TOC 2185' by TS

5¹/₂" @ 10,200' w/ 800 sxs.

Perfs. 10,072 - 98 ; 10,124 - 138

In 1970, ran 4¹/₂" to 9735' to repair damage

5¹/₂" csg TOL 7401' w/ 150 sxs.

In 1977, 4¹/₂" collapsed @ approx. 7800'.

Set CIBP @ 7564' w/ 47' cement on top.

Cut 4¹/₂" Liner @ 7010' - spotted cement plug 7054-6954

Perf. 2 holes @ 5180' - Under retainer pumped

800 sxs. circ. cement. Perf. 5¹/₂ 3414' - 3889'.

Tested water.

1978, pulled rods & pump. Set CIBP @ 3750'

w/ 35' cement. Gelled mud 3715 - 50'.

50' cement plug to surface. See sketch.

15.11.33

Allen K. Trebaugh ECS Com. No. 1 Unit D

12³/₄" @ 365' w/ 350 sxs.

8⁵/₈" @ 3789' w/ 400 sxs.

5¹/₂" @ 10,258' w/ 500 sxs.

Perf. 9500' - 22 ; 9587 - 9785'

RTTS & RBP @ 9248' & 9294' - csg. collapsed @ 3030'

Put 1200' cement on top of RTTS (9248')

LRBP @ 8700' w/ 35' cement on top.

Shot & pulled 6016' of 5¹/₂" - left 4241' in hole.

335 sxs. cement plug 4155 - 3000'

Shot 8⁵/₈" @ 1052' and pulled 1037'. Left
2753' in the hole.

Set 65 sxs. plug @ 775 - 1052'.

75 sxs. plug @ 314 - 415'

10 sxs. @ surface.

See sketch.

15-11-33

Felmont Oil Corp. Hissom State No.1 Unit F

13³/₈" @ 323 w/ 300 sxs.

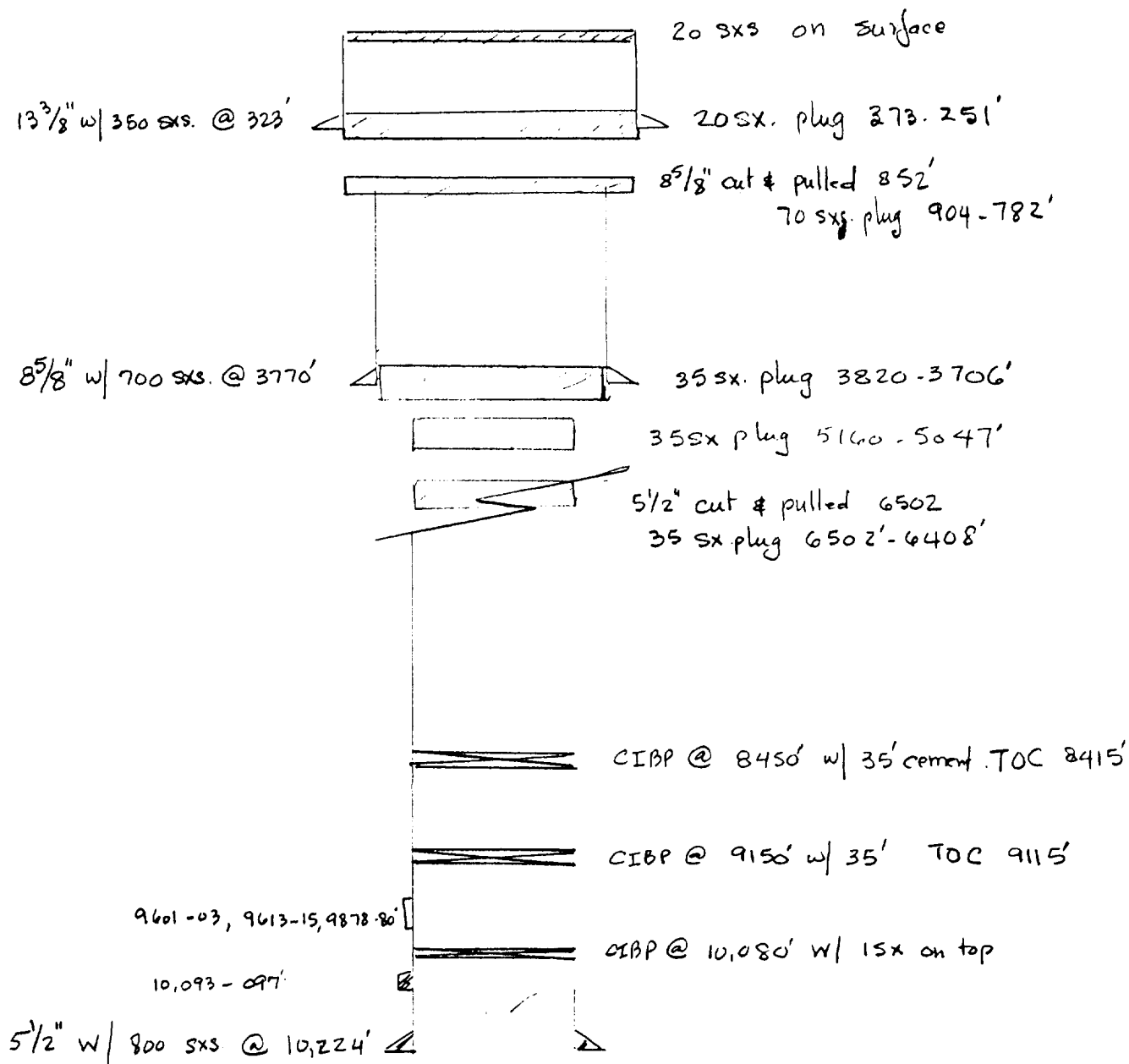
8⁵/₈" @ 3770 w/ 500 sxs.

5¹/₂" @ 10,224 w/ 800 sxs.

well was plugged in 1976 - sketch attached.

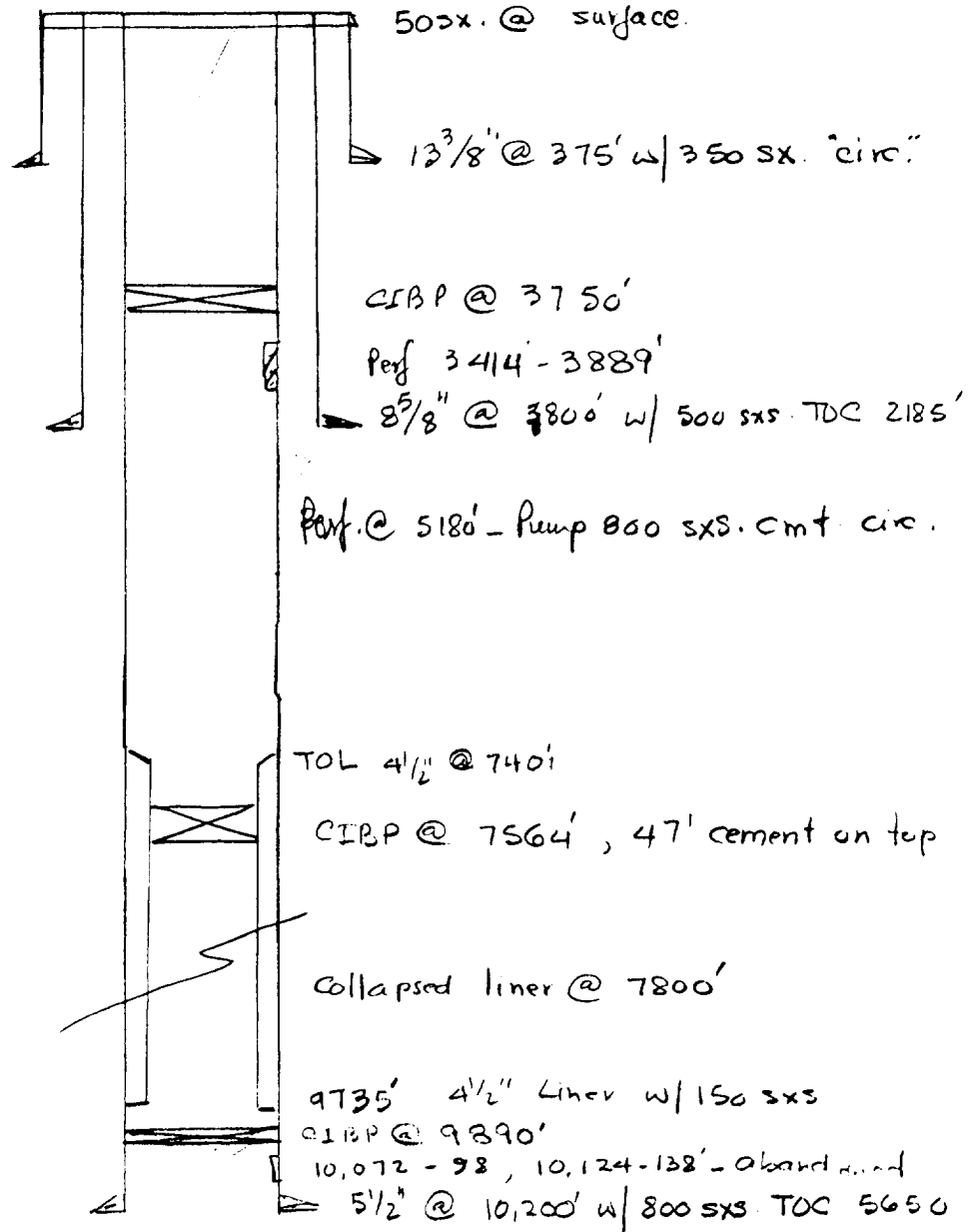
FELMONT OIL CORP

HISSOM STATE No. 1
UNIT F, Sec. 15, T11 S, R33 E
Lea County, New Mexico



GULF OIL CORP.

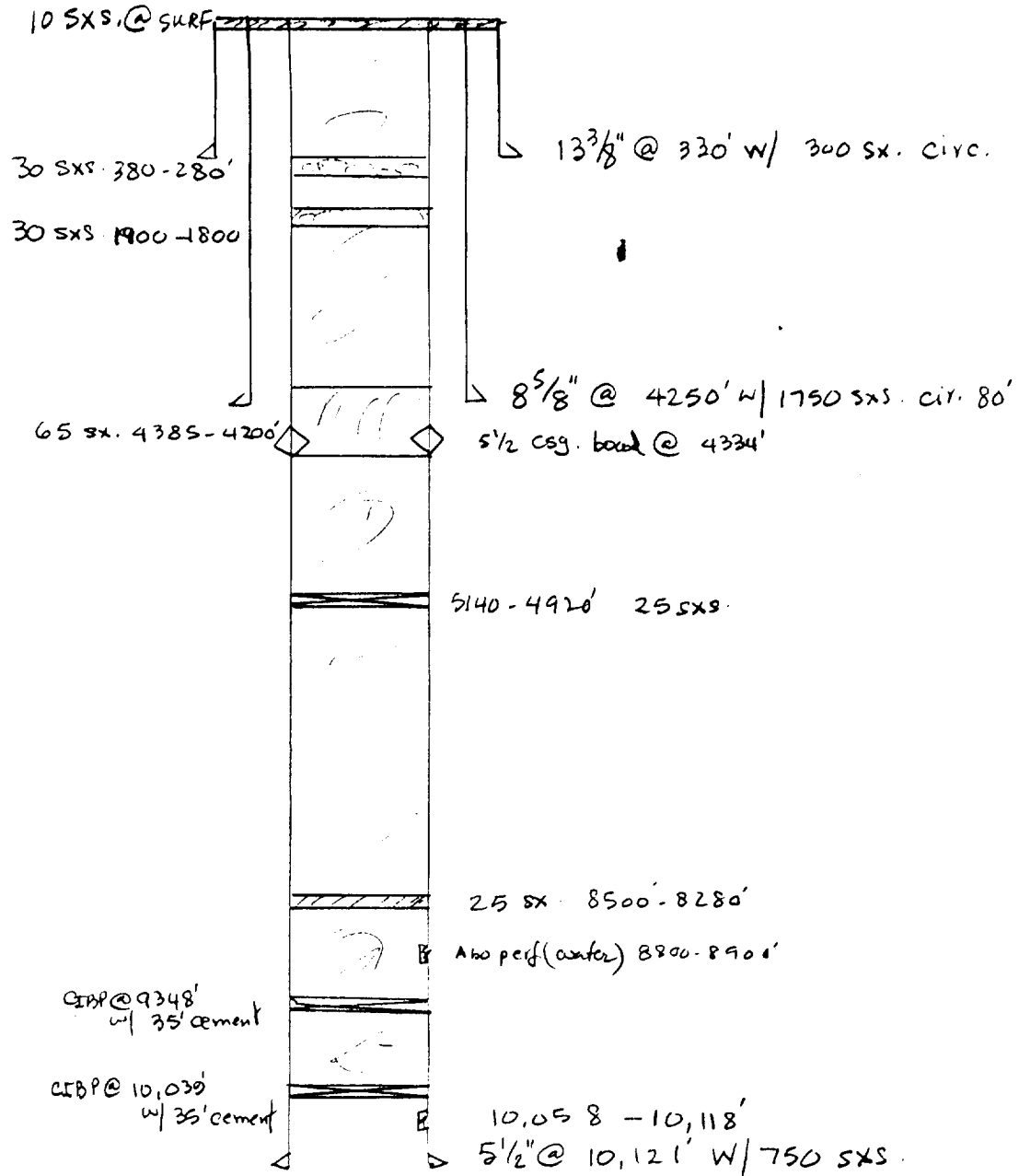
LEA "HP" STRIE
UNIT 8, SEC 15, T11S, R33E



Plugged wells

Tripperary Oil (Felmont)

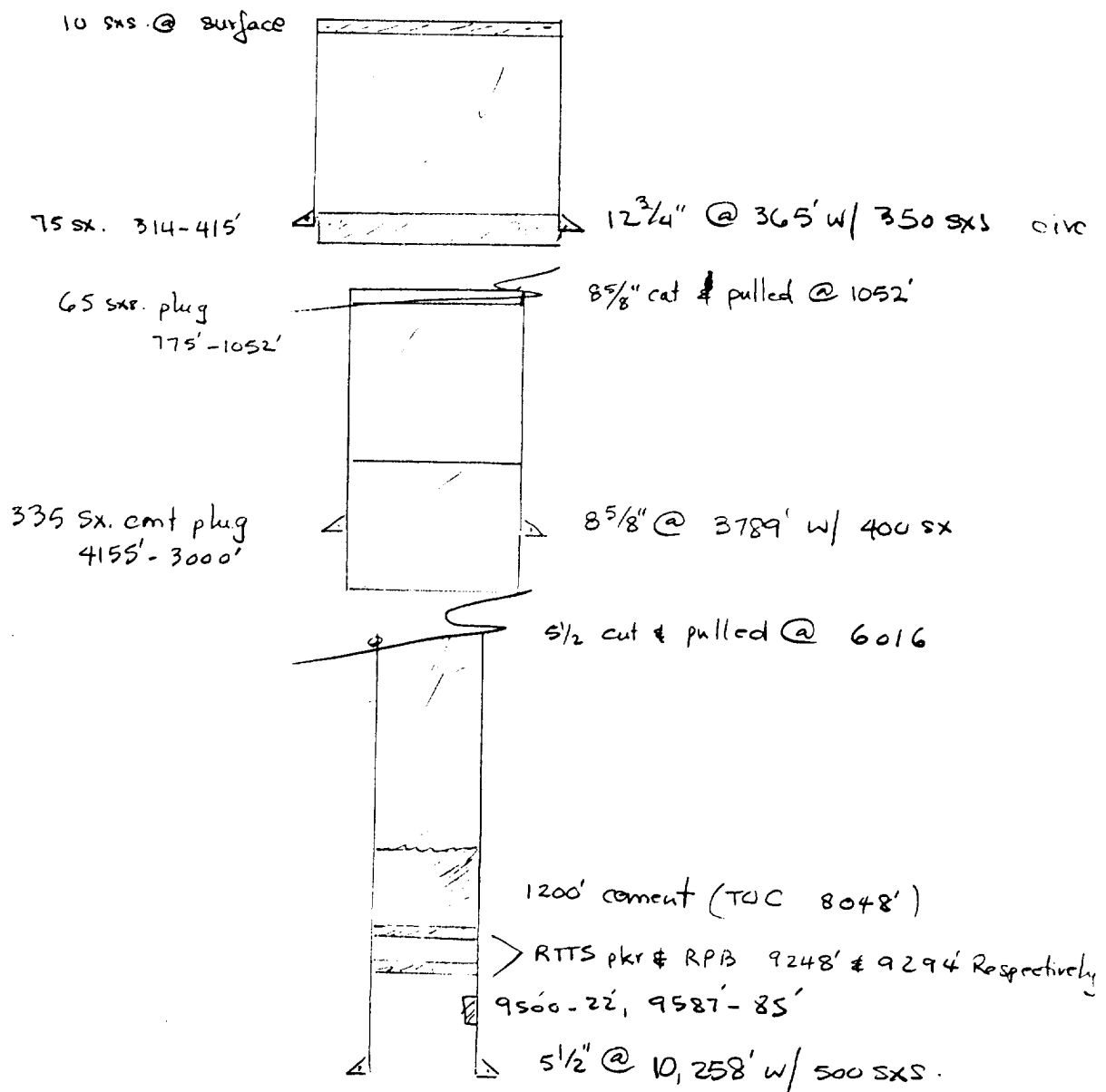
State F No 1
Unit K, Sec. 10, T11S, R33E
Lea County, New Mexico



Plugged Wells

Allen K. Trobaugh

FCS Com. No. 1
Unit D, Sec. 15-11-33



OFFSET OPERATORS:

Oryx Energy Company
P. O. Box 2880
Dallas, TX 75221-2880

Samson Resources Co,
Samson Plaza
Two West Second Street
Tulsa OK 74103

Chevron U.S.A.
P. O. Box 1150
Midland TX 79702

Fasken Oil & Ranch Interests
303 W. Wall Avenue
Suite 1900
Midland TX 79701

LBO New Mexico
28202 Cabot Lane
Suite 250
Laguala Miguel CA 92677

A. K. Trobaugh
4305 N. Garfield
Suite 233
Midland TX 79705

Headington Oil
7557 Rambler Road
Suite 1150
Dallas TX 75231

American Exploration
1331 Lamar Street
Suite 900
Houston TX 77010-3088

LAND OWNERS:

New Mexico State Land Office
P. O. Box 1148
Santa Fe, NM 87504-1148

P-562 874 407

FIRST CLASS PERMIT NO. 1111

HOBBS, NEW MEXICO

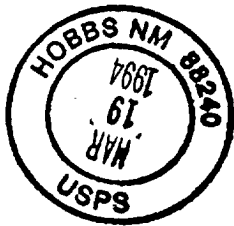
Post Office

Fasken Oil & Ranch Interest
303 W. Wall Ste 1900

Midland TX 79701

.29

1.00



1.29

P-562 874 405

FIRST CLASS PERMIT NO. 1111

HOBBS, NEW MEXICO

Post Office

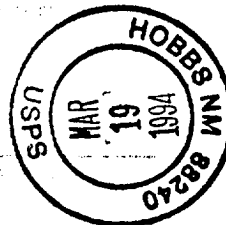
Chevron U.S.A.

P.O. Box 1150

Midland TX 79702

.29

1.00



1.29

P-562 874 403

FIRST CLASS PERMIT NO. 1111

HOBBS, NEW MEXICO

Post Office

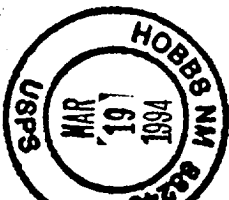
A.K. Trobaugh

4305 N Mayfield Ste 233

Midland TX 79705

.29

1.00



1.29

P-562 874 408

FIRST CLASS PERMIT NO. 1111

HOBBS, NEW MEXICO

Post Office

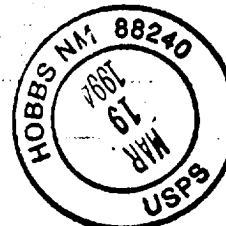
American Exploration

1331 Lamar Street

Houston TX 77010-3088

.29

1.00



1.29

P-562 874 406

POSTAGE FOR CERTIFIED MAIL
 RETURN RECEIPT MAIL
 NOT FOR INTERNATIONAL MAIL
 See Reverse

Headington Oil
 1557 Rambler Rd Ste 1150
 Dallas TX 75231

Postage	.29
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	1.00
Return Receipt Fee	1.29

PS Form 3800 June 1985



P-562 874 402

POSTAGE FOR CERTIFIED MAIL
 RETURN RECEIPT MAIL
 NOT FOR INTERNATIONAL MAIL
 See Reverse

Samson Resources Co
 Samson Plaza
 Two West 2nd St
 Tulsa OK 74103

Postage	.29
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	1.00
Return Receipt Fee	1.29

PS Form 3800 June 1985



P-562 874 401

POSTAGE FOR CERTIFIED MAIL
 RETURN RECEIPT MAIL
 NOT FOR INTERNATIONAL MAIL
 See Reverse

LBO New Mexico
 28202 Cubat Lane Suite 250
 Laguna Miguel CA 92677

Postage	.29
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Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	1.00
Return Receipt Fee	1.29

PS Form 3800 June 1985



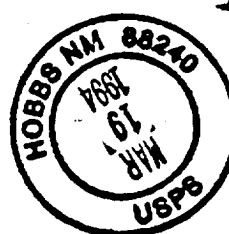
P-562 874 409

POSTAGE FOR CERTIFIED MAIL
 RETURN RECEIPT MAIL
 NOT FOR INTERNATIONAL MAIL
 See Reverse

Nm St Land office
 PO B 1148
 Santa Fe NM 87504-1148

Postage	.29
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	1.00
Return Receipt Fee	1.29

PS Form 3800 June 1985



P-562 874 401

POSTAGE FOR CERTIFIED MAIL
 RETURN RECEIPT MAIL
 NOT FOR INTERNATIONAL MAIL
 See Reverse

Oxyt Energy C
 PO Box 2880
 Dallas TX 752

Postage	.29
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	1.00
Return Receipt Fee	1.29

PS Form 3800 June 1985

