

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.

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

	-51A.	11、71 - NEW	MEXICO
ENERGY	AND	MINERALS	DEPARTMENT

#### OIL CONSERVATION DIVISION POST OFFICE BOX 2008 BTATE LAND OFFICE BUILDING BANTA FE, NEW MEXICO 8/501

FORM C-IUB Revised 7-1-81

APPLIC	ATION FOR AUTHORIZATION TO INJECT		
1.	Purpose:  Secondary Recovery  Pressure Maintenance  XX Disposal Storage Application qualifies for administrative approval?  XXyes  no		
11.	Operator: PENROC OIL CORPORATION		
	Address: P. O. BOX 5970 HOBBS NM 88241-5970		
	Contact party: M. Y. (Merch) Merchant Phone: (505) 397-3596		
111.	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  in the project		
۷.	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:		
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and</li> <li>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.).</li> </ol>		
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.		
Х.	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 avai¹able 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 Iitle President		
	Signature: 100 fit fer bet 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 Dil 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.

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- 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, TIIS, R33E Unit N Lea County, New Mexico PROPOSED PRESENT ≥ 13<sup>3</sup>/8" @ 368' w/ 425 sts. 27/8" Plastic Coatrol the \$ 81/8" @ 3777 w/ 700 SXS 2 3/8" PROD. TBG. Annulus filled w/ pkr. fluid TOC by TS 7865' 51/2"x 2 1/8" Nichol coated pkr -Perfs: 9500-10,151 ∑ 5<sup>1/2"</sup>, 17<sup>#</sup> @ 10, 200' w/ 525 & TOC by TS 7865'

### 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 \_\_\_

weeks. one

Beginning with the issue dated

March 13 , 19 94

and ending with the issue dated

March 13 19 94

General Manager Sworn and subscribed to before

\_ day of me this Notary Public.

My Commission expires March 15, 1997

(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 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 disposal. 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 applicant is to inject produced water from the Penn formation 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, between 9500' and 10,151'.

All interested parties must file any objections or requests 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, President, (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 alkilinity PPM	208
pH At Lab	7.14
Specific Gravity @ 60 F	1.000
Magnesium as Mg	164
Total Hardness as CaCO3	282
Clorides as CL	70.6
Sulfate as SO4	145
Iron as Fe	0.25
Potassium	0.11
Hydrogen Sulfide	0
Conductivity mS/cm	0.78 @ 23.0° C
Total Disolved Solids	380
Carbonate as CO3 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

ENROC 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. cire. 85/8" @ 4199' w/ 805 sxs. cmt. circ. 51/2" @ 11,187' w/ 750 5xs TOC 8595' PB 9900' \_ Perfs: 9862'-72' well currently producing.

HEADINGTON OIL TP A STATE NO.1 UNIT J 13 1/8" @ 350' W/ 375 5x Circ. 8 1/8" @ 3755' w/ 300 5×3. 51/2" @ 10,300' W 750 5x3. + 300 5x5. W/ DV tool@4696 Perfs: 10,055-10,128 9889 - 98, 9495-9502, 9618'- 9624'

Well currently prochecing.

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VI-Conto, 10.11.33 ( EELMONT 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 5x8. 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 ~/ 750 5×8. + 300 8×. @ DV tool. Perf: 10,110-26, 10,129 , 10,126-40, 10,148-54 9909-44'; \$504-08, 10,032-36, 10056-64 8564-68, 8573-114, 8782-8820' Well Shut-in (TALd)

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

50' coment plug to surface. See sketch.

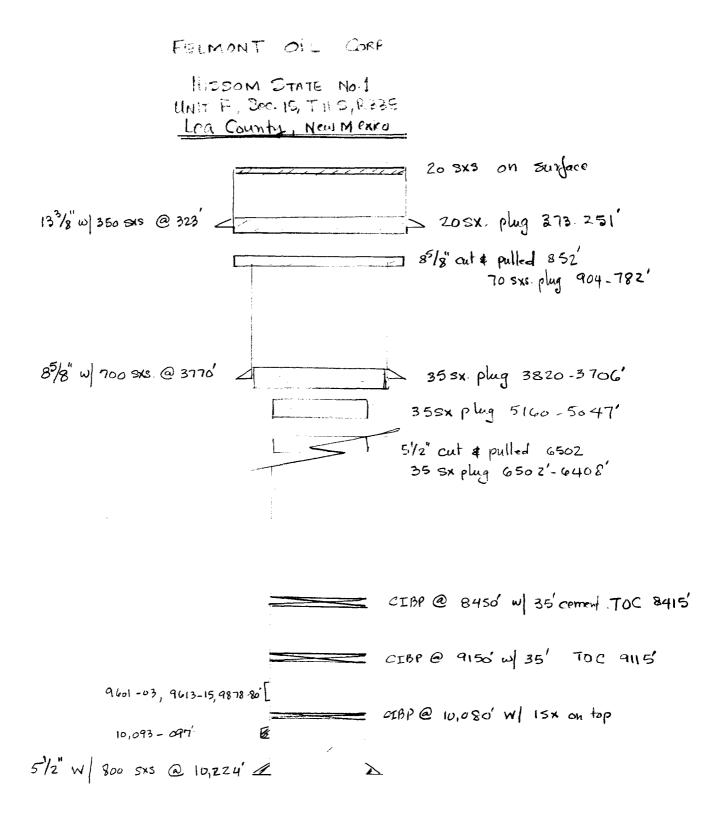
15.11.33 Allen K. Trobaugh FCS Com. No. 1 Unit D 123/4" @ 365 w/ 350 sxs. 85/8" @ 3789' al 400 SX1. 5 1/2" @ 10,258' as / 500 \$x 8. . Perf. 9500'-22; 9587-9785' таландыр талалар жана жана таларынан таларын таларын таларын таларын таларын таларын таларын таларын таларын та таларын т RTTS & RBP @ 9248' # 9294' - C=g. collapsed @ 3030' Put 1200' cement on top of RTTS (9248') CIBP @ 8700' w/ 35' cement on top. Shot & pulled 6016 of 51/2" - left 4241' in hole. 335 sxs. cement plug 4155 - 3000' Shot 8 5/8" @ 1052' and pulled 1037'. Left 2753' in the hole. Set 65 sxs. plug @ 775 - 1052'. 75 5×5. plug @ 314-415' 10 sx3. @ suface.

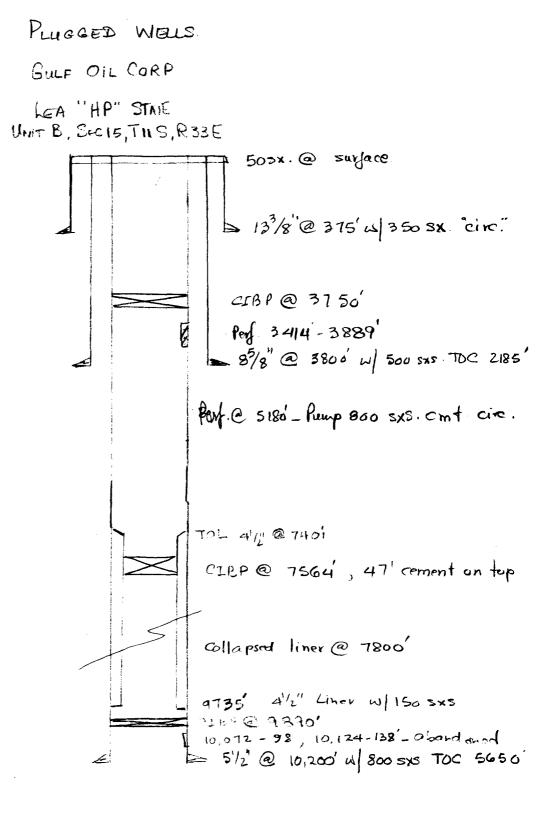
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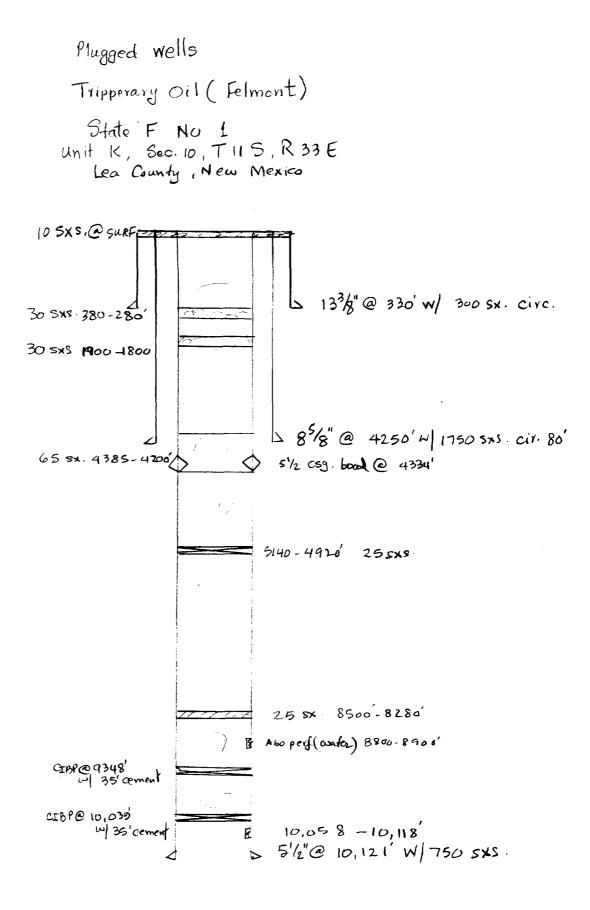
15-11-33 Felmont Oil Corp. Hissom State No.1 Unit F 133/8" @ 323 W/ 300 SXJ. 85/8" @ 3770 w/ 500 sx1. 51/2" @ 10,224 w/ 800 523. well was plugged in 1976 - Sketch attached. . . . . . . . . . · · · · · · · · . .

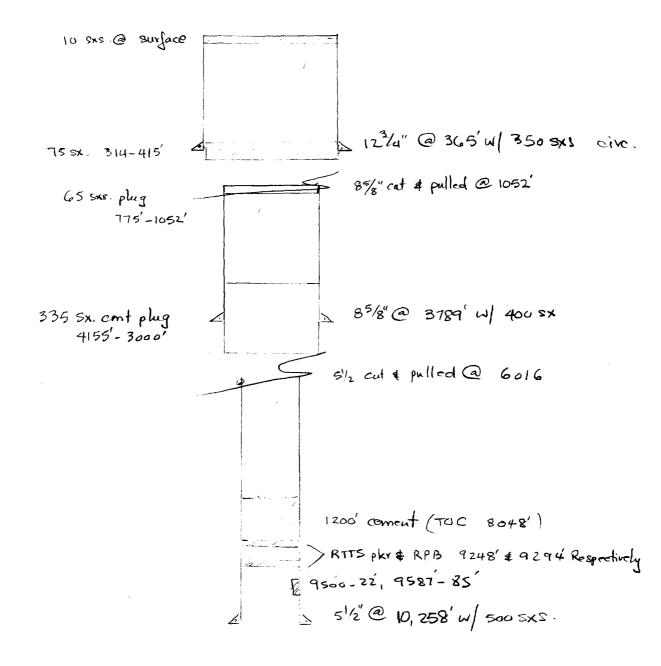
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OFFSET OPERATORS:

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-562 874 487

P-562 874 405

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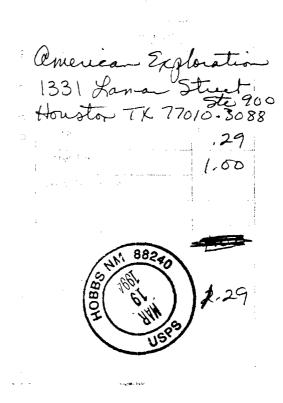
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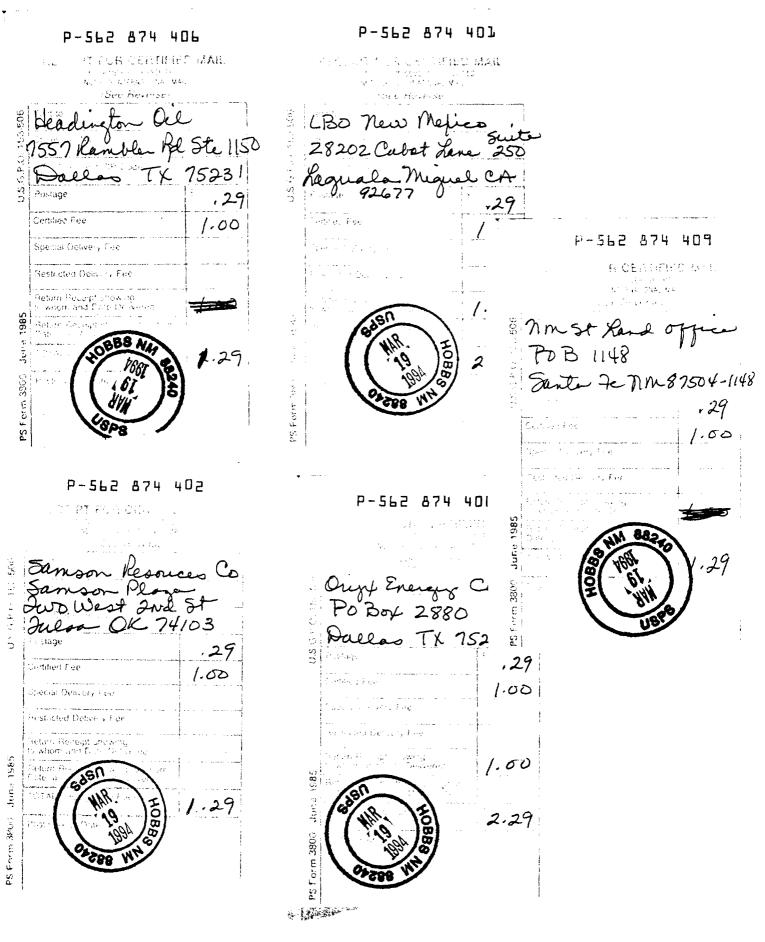
P-562 874 403

A.K. Irobang 4305 N Barfiel Ste 233 Midland 24 79705 . 29 1.00



P-562 874 408





### 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

Beginning with the issue dated

<u>April 10</u>, 19 <u>94</u> and ending with the issue dated

\_\_ weeks.

,19 94 April 10 General Manager

Sworn and subscribed to before

me this day of

Notary Public.

My Commission expires March 15, 1997 (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.

# '94 APX 19 AM 8 50

#### LEGAL NOTICE April 10, 1994

PENROC OIL CORPORA-TION, P.O. Box 5970, Hobbs, New Mexico 88241-5970, is filling an application to convert its State "AK" Well No. 1 to water disposal. This well is located 660' FSL, 1980' FWL in Section 10, T-11-S, R-33-E, Lea County, New Mexico.

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All interested parties must file any objections or requests 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, President, (505) 397-3596. VISION



NERGY MINERALS AND NATURAL RESOURCES DEPARTMENT

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

4.8-94

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

OIL CO	DNSEF	RVAT	ON DIVI	SION
P. O.	BOX	2088	3	
SANTA	FE.	NEW	MEXICO	87501

RE: Proposed:

MC		
DHC		
NSL		
NSL NSP		<u></u>
SWD	X	
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Gentlemen:

I have examined the application for the: 10-11-33 Operator Unit S-T-R Lease and my recommendations are as follows:

Yours very truly,

Jerry Sexton Supervisor, District 1

/ed