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CERTIFIED MAIL NO. Z 106 681 468

November 9, 1995

Mr. David Catanach
NEW MEXICO OIL CONSERVATION DIVISION
2040 S. Pacheco St.
Santa Fe, New Mexico 87505-5472

Re: Application for Administrative Approval for Salt Water Disposal
State "E" Tract 18 Well No. 23

State "E" Tract 18 Well No. 23 Unit D, Section 1, T-17-S, R-36-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 wells in the Lovington Abo field. There are currently three (3) other wells disposing in the same zone and were approved by NMOCD via Order Nos. R-5855 and R-6461.

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,

M. Y. (Merch) Merchant

President

MYM/ddm attch.

cc: Surface Owner - Certified Mail (Copy Attached)
 Offset Operators - Certified Mail (Copy Attached)

FN: SWDAPPR

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

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING FORM C-108 Revised 7-1-81

	BANTA FE, NEW MEXICO 8/501
PPLICA	ATION FOR AUTHORIZATION TO INJECT
I.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Disposal one
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 no If yes, give the Division order number authorizing the project
٧.	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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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.).
111.	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 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.
111.	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: M. Y. (MERCH) MERCHANT Title PRESIDENT Date: 11/9/95
	, ,
mdua	he information required under Sections VI, VIII, X, and XI above has been previously itted, it need not be duplicated and resubmitted. Please show the date and circumstance he earlier submittal. N/A

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.

FORM C-108 (ATTACHMENTS)

III. A. WELL DATA:

- 1. State "E" Tract 18 Well No. 23
 Unit D, Section 1, T-17-S, R-36-E
 Lea County, New Mexico.
- 2. Well was drilled and completed in the Abo with the following casing configuration:

11 3/4", 32# @ 336' w/635 sxs. (circ. 15 sx) 8 5/8", 32# @ 5116' w/2800 sxs. 5 1/2", 14 - 17# @ 8356' w/1000 sxs. OH 8356 - 8442' BP @ 8350' Perf 8234 - 8243', 8250' - 8268'

- 3. Will use 2 7/8", plastic coated tubing to be set at 8350'.
- 4. Will use Model AD-1 plastic coated packer set at 8350'.

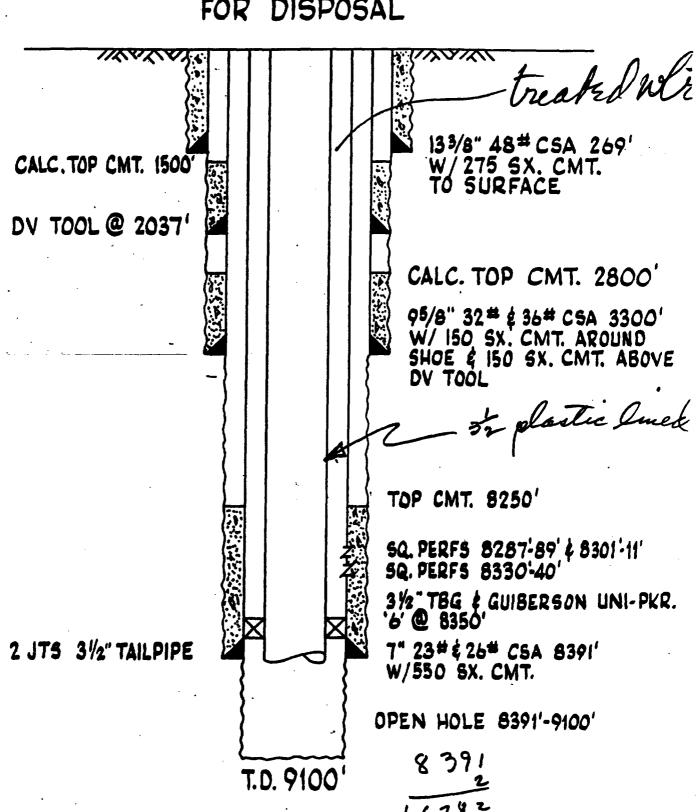
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1. Name of the injection	formation	Lower H	0/	
2. Name of Field or Pool	(if applicable)	Lovin	igton Hb6	
3. Is this a new well dr	illed for inject	ion? / 7 Yes	No No	
If no, for what purpo	se was the well-	or iginally dril	led?	nducer
4. Has the well ever bee	n perforated in	any other zone(s)? List all such p	erforated intervals
and give plugging det	ail (sacks of ce	ment or bridge :	plug(s) used)	
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LOVINGTON ABO FIELD

LEA COUNTY, NEW MEXICO STATE "E" TRACT 18 NO. 21

> WELLBORE ARRANGEMENT FOR DISPOSAL



ENGI	NEER	ING CHART	
WELL	No.	22	

PILE	 	
APPN	 	
DATE		

SUBJECT STATE "E" TRACT 18 WELL NO. 22

WELLBORE ARRANGEMENT

Loc: 1650'FNL & 1650'FEL, SEC. 2, T-17-5, R-36-E, LEA CO., NM

13%" CSA 270' 1/275 SXS CMT CMT Circ. To SURF.

DV TOOL @ 2106'

95/8" CSA 3287' CMT 4/300 SXS IN TWO EQUAL STAGES

> 3/2" INTERNALLY CONTED_TEG

T. CMT 1598' (CALC)

T. CMT 2779' (CALC.)

T. CMT 4150'
(RAISED FROM 5400'
BY DISPLACING 451
SXS CMT JNTO PFS
C 5000')

SQZ. ABO PYS 8292-831L W/300 SXS CMT

Guiberson Uni-PKR VII CB3. 1 Jt 31/2" TAILPIPE

hen all easy ann!

51/2°CSA 8330' 6/835 Sks CMT * 835 H. Perlite

PENROC OIL CORPORATION

APPLICATION FOR AUTHORIZATION TO INJECT

FORM C-108

VI. Only two (2) wells penetrated the proposed injection zone. They are **PENROC** operated State "E" Tract 18 Wells Nos. 21 and 22. Both were approved by NMOCD (Order # R-5855 and R-6461). Well sketches attached.

VII.

- 1. Average Daily Rate: 1500 BW Maximum Daily Rate: 2500 BW
- 2. Closed System
- 3. Vacuum most of the time 150 psig sometime.
- 4. Re-inject produced water from Penroc operated State "E" Tract 18 & 17 and C. S. Caylor No. 3 (Lovington Abo Field).
- 5. No water is available in the zone of disposal to our knowledge, therefore no analysis can be done.

VIII.

The proposed injection zone is considered to be of Pennsylvanian Age. Lithologically it is a limestone of shelf origin. The fresh water aquifer at this site is the Ogalla found 200' from the surface.

- IX. None at this time.
- X. Logs on file with the NMOCD.
- XI. Water analysis attached.
- XII. Applicant attests that a through 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 aguifer.



To Penroc Oil			Sample	Number 230	- ,
			part thereof our a copy thereof is securing the copyrise writing up however, be used in the cours	aliburton Company and solibur is nor a so be published or disclosed without fi reveal of laboratory management; it is a of regular business operations by a our thereof receiving such report for	ist uy ay
Submitted by Ric	ce Eng.	,	Oate Re	ceived November	1, 199
Well No Lovington	n City #17	Depth	For	mation Water Sand	
County_Lea		Field Sec 1:	Twn 17S; Rng 36E	Source	·
Resistivity	. 11. 2 @ 70F				
Specific Gr					-
pH	7.01	<u> </u>			
Calcium*	227		-		
Ca Magnesium*	145	·			
Mg Chlorides*	150				
Cl Sulfates*	139				
so. Bicarbonates*		,			
ECO3 Soluble Iron*	•	,			
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Sodium C1 (Calc)	245				
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			- 1	emt st	

XIII. Off-Set Operators and Surface Owners for PENROC Operated State "E" Tract 18 Well No. 23

Surface Owner:

Mr. Bob Carter City of Lovington 214 South Love Lovington, New Mexico 88260 (505) 396-2884

Off-Set Operators:

Greenhill Petroleum Corporation Attn: SE New Mexico Operations 11490 Westheimer, Suite 200 Houston, Texas 77077 (713) 589-8484

Amerada Hess Corporation Attn: Rob Williams 7000 South Highway 322 Monument, New Mexico 88267 (505) 393-2144

Samson Resources
Attn: Mr. Jeff Ross
Samson Plaza
2 West Second Street
Oklahoma City, Oklahoma 74103

Hawkins Oil and Gas Attn: Mr. Butch Smith 400 S. Boston, Suite 800 Tulsa, Oklahoma 74103 (918) 585-3121

Oxy USA Inc. Attn: Land Department P.O. Box 50250 Midland, Texas 79710 (915) 685-5600

Rice Engineering Attn: Mr. Dave Abott 122 W. Taylor Hobbs, New Mexico 88240 (505) 393-9174

AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

i, Katni 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
1 weeks.
Beginning with the issue dated
November 5 , 1995
and ending with the issue dated
November 5,1995
General Manager Sworn and subscribed to before
me this day of
<u>Spowmulask</u>), 1995
me this day of
My Commission expires March 24, 1998
(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 November 5, 1995

PENROC OIL CORPORA-TION, P.O. Box 5970, Hobbs, New Mexico 88241-5970, is filing an application to convert its State "E" Tract 18 Well No. 23 to water disposal. This well is located in the NW/4 of NW/4, Section 23, Township 17 South, Range 36 East, Lea County, New Mexico

The intention of the applicant is to inject produced water from the Abo formation at its producing wells in the Lovington Abo Field Into the Lower Abo formation in this well which is depleted.

Maximum injection rates will be 2500 barrels of water per day at pressures not to exceed 500 psig. The depth of the injection zone will be 8356' to 9100'.

All interested parties must file any objections or requests for hearing with the Oil Conservation Division, 2040 S. Pacheco Street, Santa Fe, New Mexico 87505-5472 within 15 days of this notice. M. Y. (Merch) Merchant, President, (505) 397-3596.



CERTIFIED MAIL NO. Z 106 681 467

November 9, 1995

RICE ENGINEERING

Attn: Dave Abott 122 W. Taylor

Hobbs, New Mexico 88240

Re:

State "E" Tract 18 Well No. 23 Unit D, Section 1, T-17-S, R-36-E

Lea County, New Mexico

Dear Mr. Abott:

PENROC OIL CORPORATION is filing an application with the State of New Mexico Oil Conservation Division to convert the captioned well which it currently operates. This well has been depleted for a long time in the Abo formation. The well is needed to dispose produced water from the Abo formation from three (3) other PENROC wells in the Lovington Abo Field.

As required by the New Mexico Oil Conservation Division we have advertized our intent in the Hobbs News Sun on November 8, 1995. We would appreciate your comments at an early date.

Please call the undersigned or write and discuss the matter if you have any questions. Your cooperation in this matter is greatly appreciated.

Minn

D. Denise Mohar

Assistant to the President

M. Y. (Merch) Merchant

ddm

cc: Copy of Map

FN: SWDAPPR

MAILING ADDRESS: PO Box 5970 Hobbs, NM 88241-5970 DELIVERY ADDRESS 5014 Carlsbad Hwy Hobbs, NM 88240-1118

(505) 397-3596 Phon (505) 393-7051 FAX

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