OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

WFX

FORM C-108 Revised 4-1-98 3/29/99

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Yes No
II.	OPERATOR: PENZOE VIL CORP
	ADDRESS: P. OB 3x 5970 Hobbs Now Mexico 88240
	CONTACT PARTY: VERRY SEXTON PHONE: 377-705
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 9-9556 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: MAR 2 1999
	 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.).
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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 sources 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: JERRY SEXTUN TITLE: NOENT
	NAME: SIGNATURE: DATE: 3-6-99
*	If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:
DISTR	IBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office
	Not Rom

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 the 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, 2040 South Pacheco, Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NM Oil Conservation Div. 2040 Pacheco St. Santa Fe, New Mexico

Attention: David Catanach

Subject: Expansion of the Eumont Federal"D"

Lease Pilot Waterflood

Gentlemen:

It is proposed to expand the Eumont Federal D Pilot Waterflood project by converting the Federal D No. 3 well to an injection well. The location of the Federal D No. 3 well is 1980'FNL, 660'FEL, Sec 27-T20S-R36E, Lea Co. New Mexico.

To date the pilot waterflood has responded, but not as effectively as been hoped. The conversion of Fed. D well No. 3 will allow additional water to be injected into essentially the same pattern as the No. 2 well, which will allow better evaluation of the area.

The water injection into the Fed. D well No. 2 is approximately 60 to 70 BWPD at 750 psi pressure which is the max. pressure for the well. This volume is not sufficient to build up a strong enough flood front to move oil to the offset oil well as had been expected.

It is estimated that the Federal D Lease could produce 100 bbls. of additional water by speeding up some of pumping units on the leases oil wells. This water could be injected into the proposed Fed D No. 3 well injection well.

The current price of oil will not allow a major workover to increase water injection to be done on the no. 2 injection well at the present time since the lease has not responded to the water injection.

Since the OCD Order No. R-9556 set up the Eumont Federal D as a waterflood and allowed for expanion of injection into other wells. It is asked that the injection of water into the No. 3 well be done administratively. While the No. 3 well is on the outside edge of the waterflood it is 660' from the lease line and Penroc is operater of the offset lease.

The review of well bores within 1\2 mile of the proposed injection well with the exception of Penroc's State WED Lease well No. 2 ,Located 1980'FSL, 1980'FEL, Sec. 27-T20S-R36E, Lea Co. New Mexico were included in the application to inject into Eumont Federal "D" pilot waterflood (order no.9556).

For your convenience all of the well bores schmatics have been included in this application.

Attached is the C-108 for the injection of water into the Eumont Federal "D" well No.3.

If you have any questions on the application please contact Jerry Sexton

Yours truly,

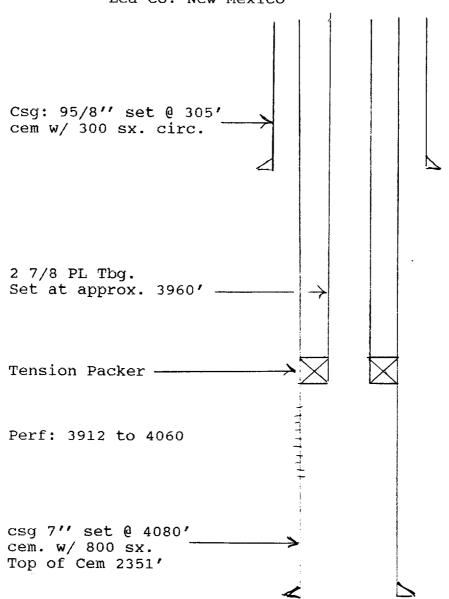
Jerry Séxton

agent

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Well Schematic Penroc Oil Corp. Proposed Eumont Federal''D'' inj. well No. 3

Loc. 1980'FNL,660'FEL Sec. 27-T20S-R36E Lea Co. New Mexico



TD 4080'

Well Data

Company: Penroc Oil Corp.

Lease Name: Eumont Fed."D"waterflood

Well No.:

Loc: 1980'FNL 660''FEL, Sec. 27

-T20S-R36E, Lea Co. NM

Surface Csg.: 9 5/8" set @ 305' cem. w/

300 sx. cem. (circ.)

133/8" hole

Production Csg. 7" set @ 4075' cem. w/

800 sx. cem. Top Cem 2351TS

Perf.: 3912-4060

Stimulation: 2000 gal. acid @ Fraced w/

27000 gal @ 27000 # sd

Date Drilled: 1954
Well Usage: oil well
Inj. Form.: Queen

Inj Interval: 3912 to 4060

Operational Data

Est Avg Injection rate: 100 BPD Maximum Injection rate: 200 BPD Max Inj pressure: 782 psi

Penroc Oil Corp.

Well Bore Data on Penroc's Oil Corp. State WED well No.2 (only well within 1\2 mile of proposed inj well Eumont Federal ''D'' No. 3. not previously Submitted

Operator: Penroc well name: State WED 2

Location: Unit J

Sec. 27-T20S-R36E

Date Drilled: 1980 TD: 4303

Status: Oil well SI Casing: 133\8 @ 61' Cemt. circ.

85\8 @ 350'
Cemt. circ.
51\2 @ 4298'
cemt. w\ 900sx.
77\8'' hole 75%

fillup

Est. Top Cem surface

Perforations: 3550-70 Formation: Queen

Treatment: 3000 gal acid

FEDERAL "D" NO. 2

Well Name:

State WE "D" #1

Original Operator: Amerada Petroleum Corp.

Current Operator: Warriors Inc.

Date Drilled:

Jan., 1954

Location:

1980' from South Line and 660' from East Line, Section 27,

T205, R36E, Lea County, New Mexico

Depth:

7201'

Completion Record: Size Wt. Depth. Cement Comments Casing: 13 3/8" 291' 300 sx (Cement Circulated) 8 5/8" 2990' 1500 sx (Cement Circulated) 5 1/2" 7189' 1150 sx (Top Cement @ 2000 ft.)

Perforations: 3930 - 4005

4025 - 4085

4125 - 4170

Stimulation: 1,000 gal. Acid

Frac w/10,000 # sand, set CIBP @ 4110'

4/60 set CIBP @ 3605' Perf. 3460 - 92 3530 - 3542

Stim. 1,000 gal. Acid

Frac 25,000 gal. + 64,000 # sand

"Not Successful"

[Temp. Abdon. 10/27/60]

Feb, 1973 - Ran Rods, Tubing and Pump and put on production.

Well is currently TA'd

FEDERAL "D" NO. 2

Well Name: Federal "D" #1

Type: Producing

Original Operator: Amerada Petroleum Corp.

Current Operator: Warrior Inc.

Date Drilled: July, 1954

Location: 660' from West Line and 1980' from South Line, Section 26,

T205, R36E, Lea County, New Mexico

Depth: 4145'

PBTD

Completion Record: Size Wt. Depth. Cement Comments

Casing: 9 5/8" 36# 337' 300 sacks

7" 23# 4145' 800 sacks (Top Cement @ 2433')

Perforations: 4027 -4063

Stimulation: 500 gal. Acid

Frac w/6,000 # sand, swab test 1 BW/hr. + 6 BW/hr.

sqz. w/100 sacks

Perforations: 3826 - 3910

3922 - 3975

Stimulation: 1,000 gal. Acid

Frac w/6,000 gal. oil and 6,000 # sand

Perforations: 3605 - 3625

3673 - 3714

Stimulation: 1,000 gal. Acid

Frac w/6,000 gal. + 6,000 # sand, swab 1 BW/hr. + 6 BW/hr.

sqz. w/75 sx.

Perforations: 3324 - 70

3380 - 3428

Stimulation: 1,000 gal. Acid

Frac w/6,000 gal. oil + 6,000 # sand, swab test 1 BW/hr.

sqz. w/755 sx.

Drill out plugs to open 3826 - 3910, 3922 - 3975

PBTD 3974

FEDERAL "D" NO. 2

Well Name:

Federal "D" #2

Type:

Producing Oil Well

Original Operator: Amerada Petroleum Corp.

Date Drilled:

August, 1954

Location:

1980'from N. Line and 660' from West Line, Section 26,

T205, R36E, Lea County, New Mexico

Depth:

3990'

Completion Record: Size Wt. Depth. Cement Comments

> Casing: 9 5/8" 36# 317' 300 Sacks (Cemented Circulated)

> > 7" 23# 3990' 800 Sacks (Cement Top @ 1457')

Perforations: 3804 - 3898

3910 - 3964

Stimulation: 1,000 gal. Acid

Frac w/20,000 gal. oil and 22,500 # sand

FEDERAL "D" NO. 2

Well Name: Federal "D" #4

Type: Currently producing

Original Operator: Amerada Petroleum Corp.

Current Operator: Warrior Inc.

Date Drilled: Oct., 1954

Location: 660' from West Line and 660' from North Line, Section 26,

T205, R36E, Lea County, New Mexico

Depth: 3980'

PBTD 3973'

Completion Record: Size Wt. Depth Cement Comments

Casing: 9 5/8" 36# 328' 300 sx

7" 23# 3980' 800 sx (Top Cement @ 2334')

Perforations: 3989 - 3947 Stimulation: 500 gal. Acid

Frac w/20,000 gal. + 22,500 # sand

Flowing well _- Currently pumping

Well Name:

Federal D #12

Type:

Producing

Original &

Current Oper.

Warrior Inc.

Dated Drilled: December, 1977

Location:

990' from the North Line & 330' from the East line Section 27, T-20-S, R-36-E, Lea County, New Mexico

Depth:

4122'

Completion

Record:

8 5/8" csg. 28#, H-40 set at 334' with 250 sxs. Circ. 50 sxs.

 $4 \ 1/2$ " csg. 10.5#, J-55 set at 4122' with 1150 sxs. circ.

125 sxs.

Perforations:

3180-3641' , 3950-4067'

Stimulation:

Acidized w/6000 gal. of FE acid and 160,000 SCF of Nitrogen

FEDERAL "D" NO. 2

PART VI FORM C-108

- 1) YARBROUGH OIL
 Elliott State No. 1 Unit Letter P
 330' FEL, 990' FSL
 Section 27, T205, R36E
 Lea County, New Mexico
- 2) 8 5/8" 24# @ 319' TOC Surface
 5 1/2" 155# @ 4080' w/800 sxs.

 Perf.: 3964' 84'; 3998' 4005'

 C-103 filed in '81 to set plug @ 3900'

 Perf. 3624' 3684'. No follow-up in OCD Hobbs office



STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

3/15/49

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 8B241-1980 (505) 393-6161

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OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501	(KM)	
RE: Proposed: MC DHC NSL NSP SWD WFX PMX	brby Lam	N D
Gentlemen:		
I have examined the application Penson Dil Corp Operator Lease and my recommendations are as for Mist Asshed + lowest of	Federal D 3-H e & Well No. Unit S-T-R	
Yours very truly,		
Chris Williams Supervisor, District l		

/ed