Called in by Joe Karney

Memo Florene DAVIDS

OC Staff Specialist

August 6, 1986

To To Osborn Heirs Company Salt Water Llisposal mattie Price # 6 1820/N + 23/0/E 6-175-38E Loa County West Garrett-Glevonian Devonian formation Pool Open-Hole Interval 12,887'-12,951'

Oil Conservation Division Santa Fe, New Mexico 87504-2088 827-5802

JIL CUNSERVATION DIVISION

POST OFFICE BOX 2088 87ATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 8/501

FURM C-1U8 Revised 7-1-81

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APPLICA	ATION FOR AUTHORIZATION TO INJECT RECEIVED
I.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? yes Ino
II.	Operator: Osborn Heirs Company Oll Constitution DIVISION
	Address: P. O. Box 17968 San Antonio, Tx 78286
	Contact party: Joe D. Ramey Phone: 505 392-6525
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
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; Whather 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.).
·V]II.	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 cone as well as any such source known to be immediately underlying the injection unterval.
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 D.vision 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 o`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: Noe D. Ramey Title Agent
	Signature: Date: 7 /86
* If t subm of t	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.

111. 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.

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INJECTION WELL DATA SHEET

6 2310 E &	1820 N	6 SECTION	17S TOWNSHIP	38E
ELL NO. FOOTAGE LO Lea County, N		SECTION	TOWNSHIP	38E RANGE
Dea oomey, n	CW HEXTEO		<u> </u>	
Schematic			Tabular Data	
u i		Surface Casing	•	
		Size 13 3/8	_" Cemented with	sx.
		TOC Circulated	_ feet determined by	·
	441'	Hole size 17½		
*	441	Intermediate Casing		
3 {		Size 8 5/8	_" Cemented with	430
311			feet determined by	
411 1 111		Hole size1	1	
{		Long string		
		Size5½	Cemented with	250 s
	,		feet determined by _	
		Hole size	_	
	163'	Total depth 12	,951	
		Injection interval		
- / 1		-	to 12,951	F
)		(perforated or open-	hole indicate which)	_ 1886
- { - - -				
X	887'			
12	.887 '			
12	887 '			
12	887 '		•	
) .}		DVC.	•	
ubing size 2 7/8	lined	(ma	terial)	set in a
ubing size 2 7/8	lined C Double G	(ma	terial) at <u>10,000 & 12,8</u>	
ubing size <u>2 7/8</u> Baker 1odel R	lined Double G1	rip packer	·	
ubing size <u>2 7/8</u> Baker lodel R (brand and model	lined Double G1	rip packer	·	
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Baker 10del R (brand and model or describe any other continuous co	lined Double Gr) asing-tubing n formation	(ma rip packer seal). Devonian	·	00 feet
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Wells within area of interest

Osborn Heirs Company Mattie Price No. 1 660' NaE

Section 6, T17S, R38E

Spud 2'9/70

Completed 4/13/70

Devonian oil well producing from open hole 12680-12696

Hole size	Csg. size	Depth	Sxs. cement	Top cement
171/2	12 3/4	420	400	Circ.
17.	8 5/8	5185	500	4000 Est.
7 7/8	5 ½	12680	7 50	7800 Est.

Osborn Heirs Company Mattie Price No. 2

1650 N & 990E

Section 6, T17S, R38E

Spud 4'21/70

Completed 7/5/70

Devonian oil well producing from open hole 12560-12684

Osborn Heirs Company Mattie Price No. 3

2300 S & 990 E

Section 6, T17S, R38E

Spud 7'6/70

Completed 11/24/70

Devonian oil well producting from perf. 12842-12877

1 7 ½	12 3/4	410	400	Circ.		
1	8 5/8	5154	520	3500	Est.	
77/8	5 ½	13146	350	11100	Temp.	survey

Osborn Heirs Company

Mattie Price No. 4

Spud 1 / 1 / 70

Completed 3/5/71

Devonian oil well producing from open hole 12847-12906

980S & 1650E

Section 6, T17S, R38E

1 7 1/2	12 3/4	407	400	Circ	
1.	8 5/8	5209	575	5140 Temp.	survey
7 7/8	5 ½	12847	525	12381 Temp.	survev

Osborn Heirs Company seeks to dispose of up to 4500 barrels of water per day which is produced from the four wells on the Mattie Price lease. The water is all produced from the West Garrett Devonian Pool and will be disposed of in the Devonian formation in their presently temporary abandoned Mattie Price No. 6. This well was producing 99% water and after testing two other possible zones in the well it was shut-in on 12/10/1973.

Osborn will operate a closed system and it is anticipated that the well will take the 4500 barrel per day on a vacuum. However, a maximum injection pressure of 257% is requested.

From core analysis, the Devonian is a dolomite with large rugs and fractures which would indicate excellent permeability and should be an excellent disposal zone. No well in the area has completely penetrated the Devonian but the Mattie Price Well No. 3 did penetrate over 330 feet of Devonian.

The West Garrett Devonian Pool produces through a water drive mechanism. Since the proposed disposal well did water out in late 1973, it is concluded that water injected in the well will be injected below the water-oil contact and will not interfere with the producing ability of nearby producing oil wells in the pool.

The only known fresh water in the area is from the Ogallala formation. The depth to the base of the Ogallala in the area is around 300 feet. There are no water wells within one mile of the proposed disposal well and no water tests are included in this application. However, nothing would indicate anything but high quality water in the Ogallala in the area. After examining the available geologic and engineering data, there is no evidence of open faulting or any other hydrologic connection between the disposal zone and any underground source of drinking water.

Injection into the well will be through plastic coated tubing below a packer. The present perforated interval in the well (10262-10296) will be isolated from injection by placing packers above and below this interval. Pressure tests of the annulus will establish the integrity of the upper packer and injectivity testing can establish fluid entry and lower packer integrity. The annular space will be filled with a non-corrosive packer fluid.

Copies of this application have been furnished to the surface owner and to all leasehold operators within one-half mile of the proposed disposal well, address list attached.

Copies of this application were sent by Certified Mail to the following:

Amerada Hess Corp. P. O. Box 2040 Tulsa, OK 74102

Avance 0il & Gas 625 Vaughn Building Midland, TX 79702

Clemco 120 South College Tyler, TX 75702

S. E. Cone P. O. Box 10321 Lubbock, TX 79408

Exchange Oil & Gas 1250 Poydras Street-24th floor New Orleans, LA 70112

Exxon Corp.
P. 0. Box 1600
Midland, TX 79702

Vernon E. Faulconer 1100 Peoples National Bank Tyler, TX 75702

Freeport Oil Co. P. O. Box 3038 Midland, TX 79701

Inexco 910 Wilson Tower Corpus Christi, TX 78476

Mobil Producing Texas & New Mexico Inc. P. O. Box 633 Midland, TX 79702

Mattie Price P. O. Box 13 Tatum, NM 88267