



# SKELLY OIL COMPANY

P. O. Box 1650  
TULSA 2, OKLAHOMA

## PRODUCTION DEPARTMENT

C. L. BLACKSHER, VICE PRESIDENT

W. P. WHITMORE, MGR. PRODUCTION

W. D. CARSON, MGR. TECHNICAL SERVICES

ROBERT G. HILTZ, MGR. JOINT OPERATIONS

GEORGE W. SELINGER, MGR. CONSERVATION

May 15, 1964

Re: Order No. SWD-44  
State "O" Well No. 13  
Section 31-168-37E  
Lea County, New Mexico

Mr. A. L. Porter, Jr. - Secretary-Director  
Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Dear Mr. Porter:

On February 17, 1964, pursuant to an application filed on January 16, 1964, you issued Order No. SWD-44 granting Skelly Oil Company permission to complete its State "O" Well No. 13 for salt water disposal into the Seven Rivers formation at approximately 3640' to approximately 3890'. Recent work on this zone for injection proved unsuccessful. We now propose to attempt an injection completion in the Hueco zone of the Wolfcamp at 10,210-10,260'. There is presently no Wolfcamp production within a two mile radius of this proposed injection well. Shell Oil Company's State CA No. 1, located in Unit C, Section 23-168-36E, is the nearest well (approximately 13,000' northwest) known to have ever produced oil or gas from the Wolfcamp formation. This Shell well was P & A in 1960 after having produced 80,535 barrels of oil through perforations at 10,148-10,178' (-6269' to -6299'). The proposed Hueco perforations in our well will be from -6371' to -6421'. This puts the top of the Hueco perforations 72' lower (subsea) than the bottom of the former producing perforations in the Shell well.

We, therefore, respectfully request an amendment to Order No. SWD-44 granting permission to dispose of salt water into the Hueco zone of the Wolfcamp formation. By copy of this letter we are furnishing the offset operators shown on the application, as well as the Commissioner of Public Lands, and the State Engineer, a copy of our application.

A full scale log and plats were attached to the original application.

Yours very truly,

RJJ:br

Copies (via Certified Mail):  
Offset Operators  
Commissioner of Public Lands  
State Engineer

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

APPLICATION  
TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION  
NOT PRODUCTIVE OF OIL OR GAS

Operator Skelly Oil Company Address P. O. Box 730, Hobbs, New Mexico

Lease State "0" Well No. 13 County Lea

Unit F Section 31 Township 16 South Range 37 East

This is an application to dispose of salt water produced from the following pool (s):

Lovington (Abo)

Name of injection Formation(s) Wolfcamp (Hueco)

Top of injection zone 10,210 Bottom of injection zone 10,260

Give operator, lease, well no., and location of any other well in this area using this same zone for disposal purposes Unknown

CASING PROGRAM

	Diameter	Setting Depth	Sacks Cement	Top of Cement
Surface	13-3/8"	246'	245	Circulated
Intermediate	9-5/8"	3,270'	1,400	Circulated
Long String	5-1/2"	11,044'	1,982	3,782' (See sketch)

Will injection be through tubing, casing, or annulus? Tubing

Size tubing 2-7/8" Setting depth: 10,200' Packer set at 10,200'

Name and Model No. of packer 2-1/2" x 5-1/2" Tension Packer

Will injection be through perforations or open hole? Perforations

Proposed interval(s) of injection 10,210' to 10,260'

Well was originally drilled for what purpose? Producing oil well

Has well ever been perforated in any zone other than the proposed injection zone? Yes

List all such perforated intervals and sacks of cement used to seal off or squeeze each:

See attached sheet and sketch

Give depth of bottom of next higher zone which produces oil or gas 6,251' (Paddock)

Give depth of top of next lower zone which produces oil or gas 10,536' (Strawn)

Give depth of bottom of deepest fresh water zone in area: 200' (Ogallala)

Expected volume of salt water to be injected daily (barrels) 700 bbls. initial (3,000 bbls. max.)

Will injection be by gravity or pump pressure? Pump Press. Estimated pressure: Unknown

Is system open or close type? Closed Is filtration or chemical treatment necessary? No

Is the water to be disposed of mineralized to such a degree as to be unfit for domestic, stock, irrigation, and/or other general use? Yes

Is any water occurring naturally within the proposed disposal formation mineralized to such a degree as to be unfit for domestic, stock, irrigation, and/or other general use? Yes

List all offset operators to the lease on which this well is located and their mailing address

Amerada Petroleum Corporation, Ashland Oil & Refining Co., Late Oil Company, Mobil Oil Company, Resler & Sheldon, Shell Oil Company, Sinclair Oil & Gas Company, Sunray DK Oil Company, Texaco, Inc., Tidewater Oil Company

(For addresses, See attached sheet)

Name and address of surface owner State of New Mexico, Commissioner of Public Lands Santa Fe, New Mexico

Have copies of this application been sent by registered mail or given to all offset operators, surface owners, and to the New Mexico State Engineer? Yes

Is a complete electrical log of this well attached? Previously furnished

Operator: Skelly Oil Company

By: George W. Selinger

Title: Manager of Conservation

STATE OF Oklahoma )  
 ) ss.  
County of Tulsa )

BEFORE ME, The undersigned authority, on this day personally appeared George W. Selinger known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein and that said report is true and correct.

SUBSCRIBED AND SWORN TO before me this the 15th day of May, 19 64

W. E. P. [Signature]  
Notary Public in and for the County of Tulsa, Oklahoma

July 31, 1964  
My Commission Expires

NOTE: Should waivers from all offset operators, the surface owner, and the State Engineer not accompany an application, the New Mexico Oil Conservation Commission will hold the application for a period of fifteen (15) days from date of receipt by the Commission's Santa Fe office. If at the end of said fifteen-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

LOVINGTON (ABO) S.W.D.S. WELL NO. 1  
(Formerly State "O" Well No. 13)  
Unit "F" Sec. 31-16S-37E  
Lea County, New Mexico

List of perforated intervals and sacks of cement used to seal off or squeeze each:

Well plugged back as follows:

Open hole 11,989-12,251' w/ 100 sx. plug.  
Open hole 11,497-11,760' w/ 100 sx. plug.  
Open hole 11,070-11,333' w/ 100 sx. plug.  
Open hole 11,044-11,060': squeezed w/ 43 sx. 7200#.  
Perf. 10,930-10,968': covered by retainer @ 10,652'.  
Perf. 10,534-10,614': squeezed w/ 65 sx. 7000#.  
Perf. 10,546-10,612': squeezed w/ 55 sx. 7400#.  
Perf. 10,536-10,592': produced for 90 days.

Drilled out to 11,015' and re-completed well from all perfs. (10536-10,968'). Later set C. I. Bridge plug @ 6298' and dumped 28 gallons Hydromite on top. Perfs. 6112-6254': Present producing perforations.

List of offset operators:

Amerada Petroleum Corp.  
Petroleum Life Bldg.  
Midland, Texas

Sinclair Oil & Gas Co.  
Box 1470  
Midland, Texas

Ashland Oil & Refining Co.  
2009 Tower Bldg.  
Denver, Colorado

Sunray DX Oil Company  
308 West Taylor  
Hobbs, New Mexico

Late Oil Co.  
Box 670  
San Angelo, Texas

Texaco, Inc.  
Box 3109  
Midland, Texas

Mobil Oil Co.  
Box 2406  
Hobbs, New Mexico

Tidewater Oil Company  
Box 1404  
Houston, Texas

Resler & Sheldon  
Carper Bldg.  
Artesia, New Mexico

Shell Oil Co.  
Box 845  
Roswell, New Mexico

DIAGRAMMATIC SKETCH  
OF  
PROPOSED SALT WATER DISPOSAL WELL

Company Skelly Oil Company

Lease Lovington (Abo) S.W.D.S. Well No. 1  
(Formerly State "O" Well No. 13)

Location 2310' FNL and 2626' FNL Section 31-T16S-R37E

County Lea State New Mexico

