



MARATHON OIL COMPANY  
FORMERLY THE OHIO OIL COMPANY

December 3, 1963

DEC 11 1963

P. O. Box 220  
Hobbs, New Mexico

Mr. A. L. Porter, Jr.  
New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Dear Sir:

Marathon Oil Company respectfully requests that the New Mexico Oil Conservation Commission approve the attached application for authorization to dispose of salt water by injection into a porous formation not productive of oil or gas. The proposed disposal well is Lea Unit, SWD No. 1, located in Section 12, Township 20-S, Range 34-E, Lea County, New Mexico.


The subject well was air drilled to 3899' and 5 1/2" casing was set to 3898'. After 24 hours waiting on cement, the well was air drilled to total depth (4137'). There were no shows of oil or gas encountered during the entire drilling operations. A representative of the United States Geological Survey was present during the drilling operations from 3899' to 4137'.

In accordance with NMOCC Rule 701-C, a true and correct copy of the enclosed application has been sent by registered mail to the State Engineer's office in Santa Fe, New Mexico, as well as to all offset operators and the surface owner.

This application is submitted by Marathon Oil Company, as operator of the Lea Unit, with the knowledge and approval of all working interest owners in the Lea Unit. A mailing list of all interested parties known to Marathon is attached hereto.

Yours very truly,

MARATHON OIL COMPANY

  
John R. Barber  
Area Petroleum Engineer

JRB:bje

FORM 11-1, 11-11-60

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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 Marathon Oil Company Address Box 220, Hobbs, New Mexico

Lease Lea Unit Well No. SVD-1 County Lea

Unit L Section 12 Township 20S Range 34E

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

Lea Bone Springs and Lea Devonian

Name of injection Formation(s): Seven Rivers

Top of injection zone 3898 Bottom of injection zone: 4137

Give operator, lease, well no., and location of any other well in this area using this same zone for disposal purposes None

CASING PROGRAM

	Diameter	Setting Depth	Sacks Cement	Top of Cement
Surface	8 5/8	1357	600	Circulated
Intermediate				
Long String	5 1/2	3898	800	Circulated

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

Size tubing 2 7/8 Setting depth: Approximately 3900 Packer set at: Approx. 3875

Name and Model No. of packer: Halliburton Model R-3

Will injection be through perforations or open hole? Open Hole

Proposed interval(s) of injection: 3898 to 4137

Well was originally drilled for what purpose? Salt Water Disposal

Has well ever been perforated in any zone other than the proposed injection zone? No

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

Give depth of bottom of next higher zone which produces oil or gas None in this area

Give depth of top of next lower zone which produces oil or gas 9480'

Give depth of bottom of deepest fresh water zone in area: 370'

Expected volume of salt water to be injected daily (barrels) 1000 bbls. initially

Will injection be by gravity or pump pressure? Gravity Estimated pressure: -

Is system open or close type? Close 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  
A mailing list of offset operators and working interest owners is attached hereto.

Name and address of surface owner Nathan T. Roberts, Hobbs, 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? Yes

Operator: Marathon Oil Company

By: John R. Barber

Title: Area Petroleum Engineer

STATE OF New Mexico )  
 ) ss.  
County of Lea )

BEFORE ME, The undersigned authority, on this day personally appeared John R. Barber 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 2nd day of December, 19 63.

John E. Barber  
Notary Public in and for the County of Lea

1-13-67  
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.

MARATHON OIL COMPANY  
LIST OF INTERESTED PARTIES  
KNOWN TO APPLICANT  
LEA UNIT, LEA COUNTY, NEW MEXICO

Gulf Oil Corporation  
P. O. Box 2167  
Hobbs, New Mexico

The Pure Oil Company  
P. O. Box 671  
Midland, Texas

Drilling and Exploration Co., Inc.  
P. O. Box 2075  
Hobbs, New Mexico

Edwin Cox  
2100 Adolphus Tower  
Dallas, Texas

Jake Hamon  
908 Vaughn Building  
Midland, Texas

Mr. W. G. Ross  
Box 1094  
Midland, Texas

Mrs. V. K. Ross  
Box 1094  
Midland, Texas

Sinclair Oil and Gas Company  
520 East Broadway  
Hobbs, New Mexico

State Land Commissioner  
Box 791  
Santa Fe, New Mexico

U. S. Geological Survey  
Box 1857  
Roswell, New Mexico

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

December 4, 1963

Marathon Oil Company  
Post Office Box 220  
Hobbs, New Mexico

Attention: Mr. John R. Barber

Gentlemen:

Reference is made to your application for authorization to dispose of salt water through Lea Unit SWD Well No. 1, located in Section 12, Township 20 South, Range 34 East, Lea County, New Mexico. Your attention is called to Rule 701-C as amended by Order R-2490, second paragraph, which states in part: "said application to be filed in accordance with Rule 701-B above." The plat showing location of the proposed injection well and the location of all other wells within a radius of two miles from said proposed injection well and the formation from which said wells are producing or have produced, was not included with your application. Also omitted was the diagrammatic sketch requested by Rule 701-B 3.

Your application has been placed in suspense for a 15-day waiting period but cannot be processed further until above requested data has been received by this office.

Very truly yours,

J. E. KAPTEINA  
Engineer

JEK/ir