

GENERAL OFFICE  
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TULSA, OKLA. 74102

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*SWD -*

AMERADA PETROLEUM CORPORATION

Box 668  
HOBBS, NEW MEXICO 88249

September 18, 1968

*Devonian Producer*

*Set for hearing*

New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico

*Case 3888*

Re: Application of Amerada Petroleum Corporation for Salt Water Disposal in the State E"B" No. 1 in the North Echols Devonian Field, Lea County, New Mexico.

Gentlemen:

Amerada Petroleum Corporation requests administrative approval to dispose of produced salt water into the San Andres Formation in the State E"B" No. 1, Unit "E", Section 27, T-10-S, R-37-E. It is proposed to dispose of the water into the San Andres Formation by injecting down the annulus between the tubing and the 5-1/2" casing.

In support of the application, the following information is submitted:

(1) Applicant is owner and operator of the State E"B" Lease described as the North half of Section 27, T-10-S, R-37-E, Lea County, New Mexico.

(2) The State E"B" No. 1 is the last producing well in the field. August average production was 29 barrels of oil and 493 barrels of water per day.

(3) All other wells in the field which could potentially be used for salt water disposal have been plugged and abandoned. The cost to re-enter these wells will be prohibited.

(4) To transport produced water to existing salt water disposal facilities is uneconomical.

(5) Proposed installation will be equipped with permanent type packer immediately below the San Andres perforations and will be equipped such that a plug can be run and set prior to pulling the tubing, therefore, eliminating any danger of fluids flowing from one zone to another.

(6) The water to be disposed of is to be treated for both scale and corrosion.

DOCKET MAILED

Date 9-26-68

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(7) The formation between the proposed San Andres perforations and the top of the cement outside the 5-1/2" casing are all non-productive of oil or gas based on drill stem tests.

(8) The State E"B" No. 2 encountered a lost circulating zone in the proposed disposal interval, therefore, it is anticipated that injection will be on a vacuum.

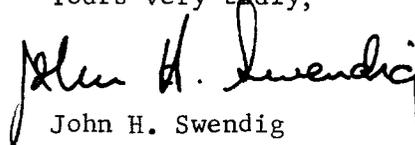
(9) If circulation can be established in the annulus between the 5-1/2" and 8-5/8" casing this annulus will be filled with treated oil.

(10) All potential fresh water zones are protected by 13-3/8" casing set at 340' on which cement was circulated.

(11) The annulus between the 13-3/8" and the 8-5/8" casing and the annulus between the 8-5/8" and the 5-1/2" will be equipped with pressure gauges.

In order to prevent premature abandonment on the State E"B" No. 1, administrative approval is requested on this application.

Yours very truly,

  
John H. Swendig

Attachments: Application to Dispose of Salt Water  
Schematic of State E"B" No. 1  
Map of North Echols Field

cc: N.M.O.C.C. - Santa Fe (Original and 2)  
N.M.O.C.C. - Hobbs (2)  
Commissioner of Public Lands - P.O. Box 1148 - Santa Fe, N.M.  
State Engineer Office - State Capitol - Santa Fe, N.M.  
Ralph Lowe - P.O. Box 832 - Midland, Texas  
John Bates - P.O. Box 5022 - Midland, Texas  
Pan American Petroleum Corp. - P.O. Box 68 - Hobbs, N.M.  
Warren American - P.O. Box 971 - Midland, Texas  
U.S. Smelting - P.O. Box 1877 - Midland, Texas

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STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

Case 3885

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

Operator Amerada Petroleum Corporation Address P. O. Box 668 - Hobbs, N.M.

Lease State E"B" Well No. 1 County Lea

Unit E Section 27 Township 10-S Range 37-E

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

North Echols Devonian

Name of Injection Formation(s): San Andres

Top of injection zone: 5220' Bottom of injection zone: 5250'

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	13-3/8"	340'	250	Circulated
Intermediate	8-5/8"	4270'	1500	2444'
Long String	5-1/2"	11,930'	200	11,100'

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

Size tubing 2-7/8"-2-3/8" Setting depth: 3224-5300' Packer set at: 5300'

Name and Model No. of packer: Baker Model "D"

Will injection be through perforations or open hole? Perforations

Proposed interval(s) of injection: 5220-5250'

Well was originally drilled for what purpose? Devonian producer

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:

11,755' to 11,834' - Perforations are presently open.

Give depth of bottom of next higher zone which produces oil or gas: None

Give depth of top of next lower zone which produces oil or gas: None

Give depth of bottom of deepest fresh water zone in area: 200

Expected volume of salt water to be injected daily (barrels): 500

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

Is system open or close type? Close Is filtration or chemical treatment necessary? Yes

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? \_\_\_\_\_

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

Ralph Lowe - P. O. Box 832 - Midland, Texas

John Bates - P. O. Box 5022 - Midland, Texas

Pan American - P. O. Box 68 - Hobbs, New Mexico

U. S. Smelting - Box 1877 - Midland, Texas

Warren American - P. O. Box 971 - Midland, Texas

Name and address of surface owner State of 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? No

Operator: Amerada Petroleum Corporation

By: John H. Swendig

Title: District Engineer

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

BEFORE ME, The undersigned authority, on this day personally appeared John H. Swendig 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 18th day of September, 19 68

Emma Lou Hensley  
Notary Public in and for the County of Lea

EMMA LOU HENSLEY, NOTARY  
MY COMMISSION EXPIRES JULY 26, 1972  
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.