

Revised 9 16 58

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 CABOT CARBON COMPANY Address P. O. Box 1101, Pampa, Texas

Lease HOWARD FLEET Well No. 4 County Lea

Unit 0 Section 35 Township 13 South Range 37 East

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

King Field Devonian and Wolfcamp Reservoirs

Name of Injection Formation(s): San Andres (see letter)

Top of injection zone: 4580' Bottom of injection zone: 6064'

Give operator, lease, well no., and location of any other well in this area using this same

zone for disposal purposes: None in near vicinity

CASING PROGRAM

	Diameter	Setting Depth	Sacks Cement	Top of Cement
Surface	13-3/8"	351'	400	Surface
Intermediate	8-5/8"	4612'	2400	1010'
Long String	5-1/2"	12385'	700	8775'

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

Size tubing: 2-7/8" Setting depth: @ approx. 5825' Packer set at: 5800' approx.

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

Will injection be through perforations or open hole? Perforations

Proposed interval(s) of injection: 5840-5860'; 5900-5915'; 5955-6000'

Well was originally drilled for what purpose? To test Devonian

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:
Plug back T.D. 12,400'. Open hole 12,400' to 12,385'. Sqzd 440 sacks. Perf 12345-12366', set
bridging plug @ 9600' to seal off Devonian. Tested Wolfcamp. Perf 9553-63', set bridging plug
@ 9530'; Perf 9497-9501', 9482-92', 9439-42', 9432-36' & 9402-12' with a bridging plug @ 9510'.
Set bridging plug @ 9460' and tested perfs from 9402 to 9442'.

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 in this well; however, in the field the Wolfcamp at 9200'

Give depth of bottom of deepest fresh water zone in area: Approximately 2200'

Expected volume of salt water to be injected daily (barrels): 300-500 BPD now, ultimately 5000 BPD

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

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

Kerr-McGee Oil Industries, Inc., P. O. Box 1347, Odessa, Texas, Attn. Mr. J. W. Fletcher

T. & P. Coal & Oil Co., P. O. Box 1683, Hobbs, New Mexico

Gulf Oil Corporation, P. O. Box 669, Roswell, New Mexico, Attn. Mr. M. T. Taylor

The Atlantic Refining Co., P. O. Box 871, Midland, Texas, Attn. Mr. N. B. Winter

Forrest Oil Corporation, P. O. Box 2066, Midland, Texas, Attn. Mr. John C. Dorn

Name and address of surface owner J. L. Reed, P. O. Box 697, Lovington, 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: CABOT CARBON COMPANY

By: Joe M. Daniel, Jr.

Title: Senior Petroleum Engineer

STATE OF TEXAS)
) ss.
County of GRAY)

BEFORE ME, The undersigned authority, on this day personally appeared Joe M. Daniel, Jr. 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 30 day of June, 19 59.

Marcelene Nachlinger (MARCELENE NACHLINGER)
Notary Public in and for the County of Gray

June 1, 1961
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.