



SINCLAIR OIL & GAS COMPANY

P. O. BOX 1470

MIDLAND, TEXAS NOV 11 AM 5 13

November 8, 1963

MIDLAND DIVISION

New Mexico Oil Conservation Commission (3)  
P. O. Box 871  
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

Attached is Sinclair Oil & Gas Company's application to dispose of salt water by injection into a porous formation not productive of oil or gas.

The water to be disposed of is produced in association with oil from the Medicine Rock (Devonian) Pool and is unfit for domestic, stock, irrigation, or other use. Sinclair will operate the proposed disposal system for all operators in the field except J. L. Hamon and the Greathouse interests, who declined to join at this time.

Approval for Sinclair to dispose of this water into the San Andres formation in the Argo Thomlinson Well No. 1 was requested by our application dated November 14, 1962, and was granted by Order No. SWD-35 dated December 4, 1962. However, mechanical difficulties prevented our re-entry into the plugged Argo Thomlinson Well No. 1, making disposal into a different well necessary.

Sinclair now proposes to dispose of the water into the Wolfcamp and Pennsylvanian formations through selected perforations between 9,990 and 11,000 feet down plastic coated tubing in its C. S. Stone Well No. 3, located in Unit F, Section 22, T-15-S, R-38-E, Lea County, New Mexico. The present Devonian perforations would be squeezed with cement.

The attached plat shows the location of the proposed injection well and all other wells within a two mile radius and the formation from which the wells are producing.

Also attached is a diagrammatic sketch of the proposed injection well showing the present completion and the proposed completion.

Another attachment is a gamma ray-neutron log of the proposed injection well.

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We are this date sending a copy of this letter and a copy of the application form to all the offset operators listed on the back of the application form, to Mr. Troy Fort, the surface owner, and to the State Engineer's Office, by registered mail.

Please advise if any additional information is needed regarding this application.

Yours very truly,

A handwritten signature in cursive script, appearing to read "R. F. Sawyer", with a long horizontal flourish extending to the right.

R. F. Sawyer  
Division Production Superintendent

DWC:mg

**Attachments**

cc: Offset Operators listed on back  
of the application form.

Mr. Troy Fort, Tatum, New Mexico

State Engineer's Office,  
P. O. Box 1079  
Santa Fe, New Mexico

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

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Pool Name Medicine Rock Devonian County Lea

Operator Sinclair Oil & Gas Company

Address P. O. Box 1470, Midland, Texas

Lease Name C. S. Stone Well No. 3

Depth to top of injection zone 9,990 feet

Depth to base of injection zone 11,000 feet

Size of surface casing 13-3/8 inches

Length of surface casing 364 feet

Number of sacks of cement used on surface casing 400 (circulated to surface)

Size of long string 5-1/2 inches

Length of long string 12,815 feet

Number of sacks of cement used on long string 730

Size of tubing 3-1/2 inches Length of tubing 10,000 feet

Depth of tubing packer setting 9,960' (approximately)

Name and model of packer Retrievable Production Packer (Make to be selected later)

Is injection through tubing or long string or annulus? Through tubing

Is injection through perforations or open hole? Perforations

Was the well drilled for salt water disposal purposes? No

List perforated intervals and number of sacks of cement used on any squeeze cementing operations 12,738'-12,758', 175 sacks; 12,687'-12,708', 350 sacks.

What is depth of the shallowest zone productive of oil or gas in this pool? 12,600 ft.

What is depth of the deepest zone containing fresh water in this pool? 240 ft. (est.)

Are there any other salt water disposal wells in this pool using this same zone for injection purposes? No If so, list operator, lease and well number \_\_\_\_\_

What is the approximate volume of salt water to be injected daily? 1,500 barrels

Will system be open or closed type? Closed

Will injection be by gravity or pump pressure? Gravity

If by pump pressure, give approximate number of pounds per square inch \_\_\_\_\_

Will it be necessary for water to be filtered or chemically treated? No

Is this well so cased and completed that water can enter no other formation than the above setout injection zone? Yes

1. Attach a complete full-scale electrical log of this well. (one copy to OCC only.)
2. List Names and addresses of all offset operators and surface owners.

Mr. Troy Fort, Tatum, New Mexico (Surface owner)

Tri-Service Drilling Company, P. O. Box 1785, Midland, Texas

The Atlantic Refining Company, P. O. Box 6640, Roswell, New Mexico

Jake L. Hamon, 511 Midland Savings Building, Midland, Texas (List continued at bottom of page.)

3. Have notices of this application been sent by registered mail or given to all offset operators and to the New Mexico State Engineer? Yes
4. Attach waivers from all offset operators and New Mexico State Engineer.
5. Attach waivers from surface owners of land on which well is located or a letter from company making application to the surface owner explaining said application and requesting waiver.
6. No application will be processed until Item 1 has been attached to the application. Should all necessary waivers not accompany application, the Commission shall hold such application for a period of fifteen (15) days from date of receipt in the Santa Fe Office. If, after said fifteen (15) day period, no protest or request for hearing is received in the Santa Fe Office, the application will then be processed.

Sinclair Oil & Gas Company  
Operator

R. F. Sawyer  
By R. F. Sawyer, Division Production Supt.

THE STATE OF Texas

COUNTY OF Midland

BEFORE ME, The undersigned authority, on this day personally appeared R. F. Sawyer 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 24th Day of November, 19 63.

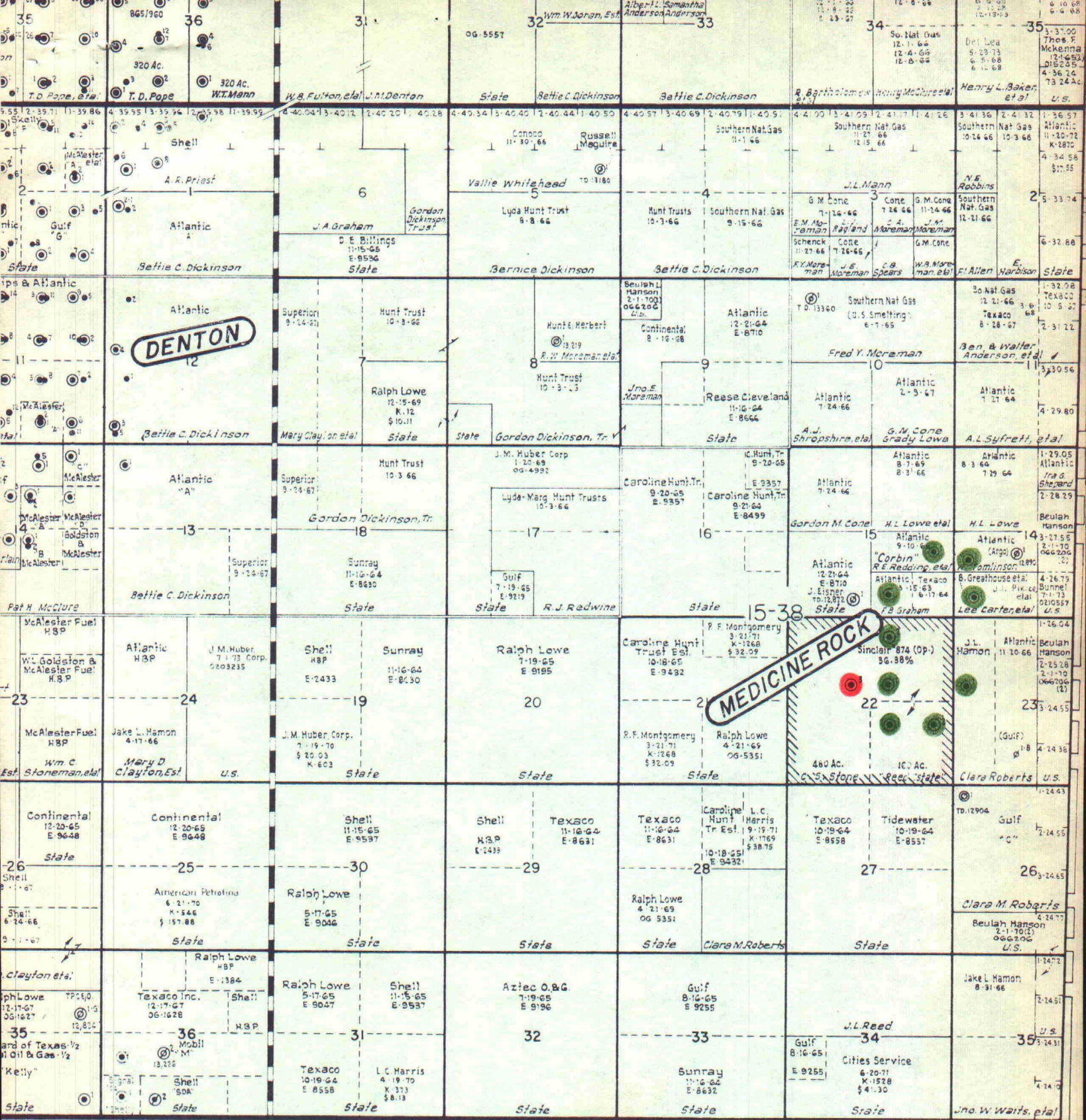
Shirley A. Richmond  
Notary Public in and for Midland  
County, Texas

Offset Operators (Continued)

R. F. Montgomery, P. O. Box 2414, Hobbs, New Mexico  
Caroline Hunt Trust Estate, 700 Mercantile Bank Building, Dallas, Texas  
Ralph Lowe, P. O. Box 832, Midland, Texas  
L. C. Harris, Address Unknown, (Lease is undeveloped)  
Tidewater Oil Company, P. O. Box 1231, Midland, Texas  
Texaco, Incorporated, P. O. Box 3109, Midland, Texas  
Greathouse, Pierce & Davis, 1006 V & J Tower Building, Midland, Texas







## LEGEND



DEVONIAN PRODUCER



PROPOSED-INJECTION WELL

SINCLAIR OIL & GAS CO.

LEA COUNTY, NEW MEXICO

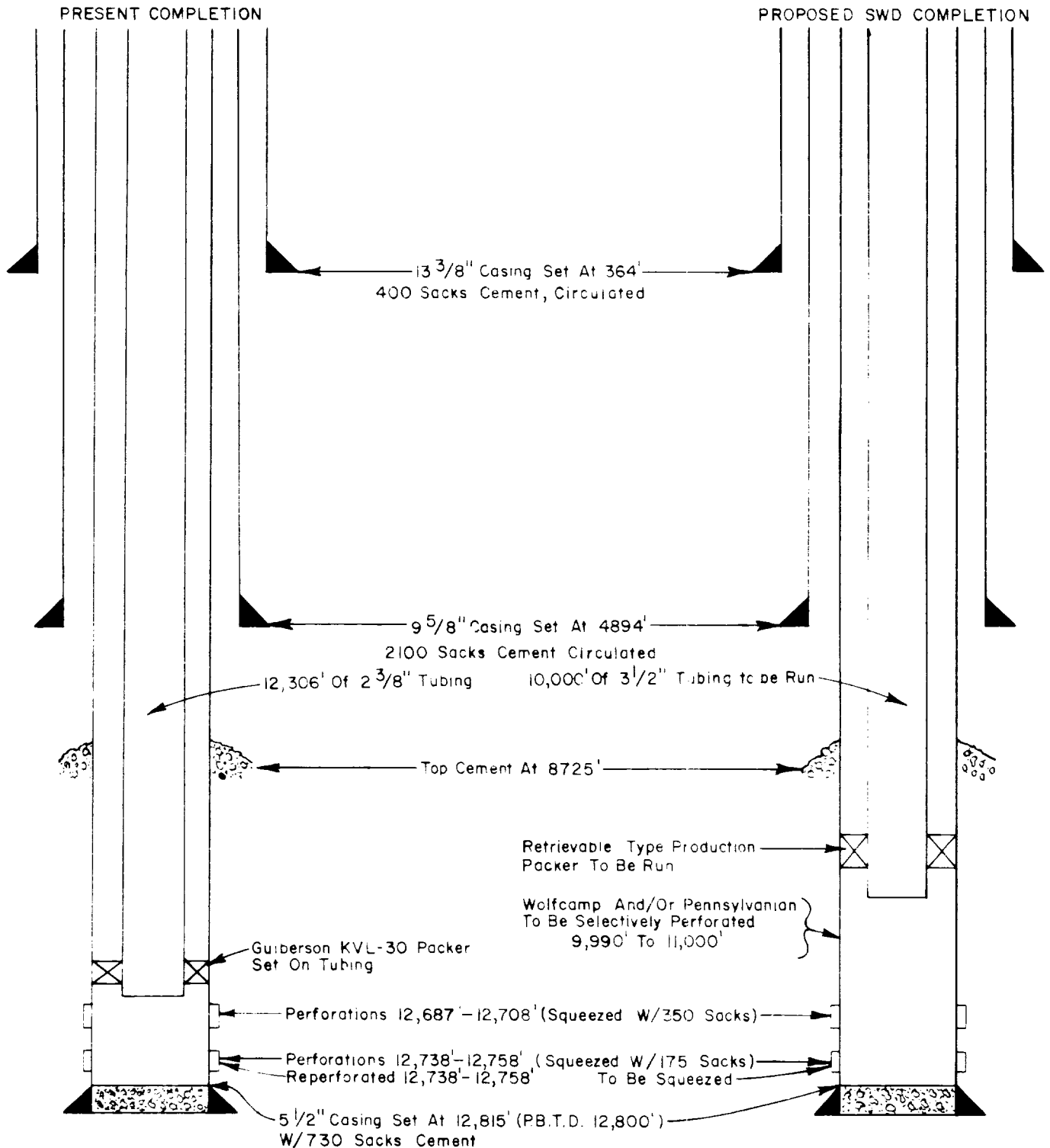
DRAWN BY B.W.R. CHECKED BY W.L.H. DATE 10-17-63

SCALE: 1" = 4000'

REVISED



SINCLAIR O. & G. CO.  
 PROPOSED SALT WATER DISPOSAL PLANT  
 MEDICINE ROCK (DEVONIAN) POOL  
 C.S. STONE NO. 3  
 UNIT F, SECTION 15, T-15-S, R-38-E  
 LEA COUNTY, NEW MEXICO



NOV 14 1963

November 13, 1963

Mr. R. F. Sawyer  
Division Production Superintendent  
Sinclair Oil & Gas Company  
Box 1470  
Midland, Texas

Dear Mr. Sawyer:

Please be advised that the copy of your application to the New Mexico Oil Conservation Commission dated November 8, 1963, seeking to dispose of salt water into a non-productive porous formation, which was forwarded to me did not contain a copy of the diagrammatic sketch of the proposed injection well.

It will not be possible for me to determine whether this office can agree to the granting of this application until the sketch is received. If you can forward me the sketch by return mail, it may save both of us the trouble of having an objection to the granting of this application entered by the State Engineer.

Yours truly,

S. E. Reynolds  
State Engineer

FEI/ma

By:

Frank E. Irby  
Chief  
Water Rights Division

C  
O  
P  
Y



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS  
STATE ENGINEER

ADDRESS CORRESPONDENCE TO:  
STATE CAPITOL  
SANTA FE, N. M.

November 18, 1963

Mr. A. L. Porter, Jr.  
Secretary-Director  
Oil Conservation Commission  
Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to the application dated November 8, 1963 of Sinclair Oil & Gas Company which seeks to dispose of salt water into the Wolfcamp and Pennsylvanian formations through well #3 on their C. S. Stone Lease in the Medicine Rock (Devonian) Pool. Reference is also made to my letter of November 13, 1963 to Mr. R. F. Sawyer concerning this application.

I have now received a copy of the diagrammatic sketch requested. After reviewing the application and diagrammatic sketch, it appears that no threat of contamination to the fresh waters which may exist in the area will occur, provided injection is through plastic coated tubing set at approximately 10,000 feet as indicated on the sketch. Therefore, this office offers no objection to the granting of the application.

Yours truly,

S. E. Reynolds  
State Engineer

FEI/ma  
cc-R. F. Sawyer  
F. H. Hennighausen

By: *Frank E. Irby*  
Frank E. Irby  
Chief  
Water Rights Division