



SINCLAIR OIL & GAS COMPANY

P. O. BOX 1470

MIDLAND, TEXAS

November 14, 1962

NOV 14 1962
SWD-35

Due Nov 30

MIDLAND DIVISION

New Mexico Oil Conservation Commission (3)
P. O. Box 971
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. All Operators in the pool will be invited to participate in the disposal system, making it possible for all produced water to be disposed of subsurface.

The well to be used for disposal purposes is not owned presently by our company, but we have had assurances that we may obtain the well if this application is granted. We have attached a diagrammatic sketch of the well as we understand it is presently plugged, and of the method of conversion we intend to use on the well.

Since we do not, at present, own the well, we were unable to attach a full sized electrical log of the well to the application form, however, we have attached a small scale electrical log of the well which we were able to purchase.

We are this date sending a copy of this letter and a copy of the application form to all 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,

Joe Mefford
Division Production Supt.

JM:DC:tk
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

Pool Name Medicine Rock Devonian County Lea

Operator Sinclair Oil & Gas Company,

Address P. O. Box 1470, Midland, Texas

Lease Name Argo Oil Co.'s Thomlinson, et al Well No. 1 (P & A)

Depth to top of injection zone 4,877 feet

Depth to base of injection zone 6,500 feet

Size of surface casing 13 3/8 inches

Length of surface casing 316 feet

Number of sacks of cement used on surface casing 350

Size of long string 9 5/8 inches

Length of long string 4,877 feet

Number of sacks of cement used on long string _____

Size of tubing 3 inches Length of tubing 4,800 feet

Depth of tubing packer setting approx. 4,800 feet

Name and model of packer Baker Model "A"

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

Is injection through perforations or open hole? open hole

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 300 sacks

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

What is depth of the deepest zone containing fresh water in this pool? 240 feet (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? open

Will injection be by gravity or pump pressure? pump

If by pump pressure, give approximate number of pounds per square inch 1,700 psig

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.

Beulah Hanson, Address Unknown (Lease is undeveloped)

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 Bldg., Midland, Texas

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

- 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


By Joe Mefford, Division Production Supt.

THE STATE OF Texas

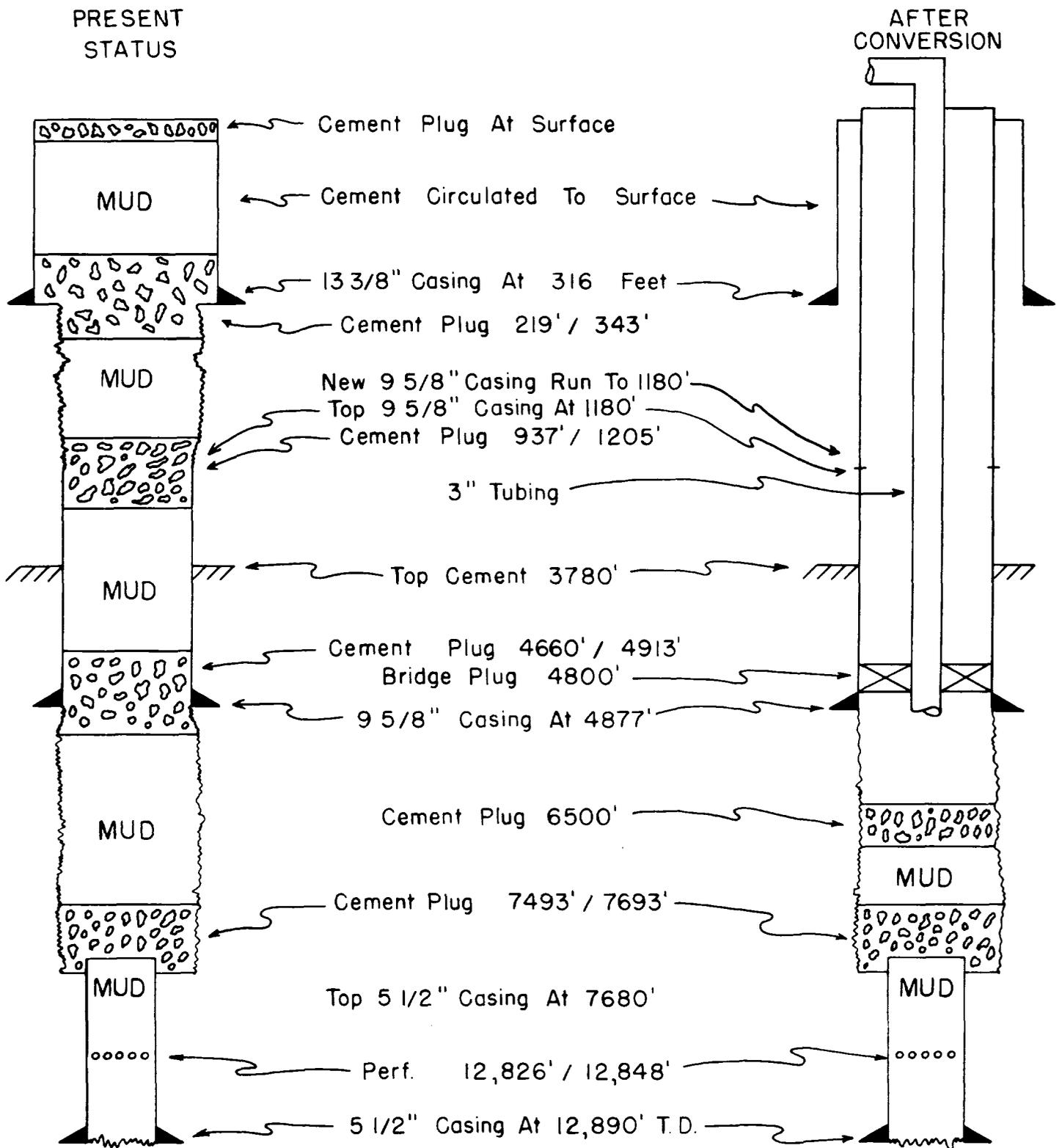
COUNTY OF Midland

BEFORE ME, The undersigned authority, on this day personally appeared Joe Mefford 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 11th day of November, 1962.

Virgil H. Piccolo Virgil H. Piccolo
Notary Public in and for Midland
County, Texas

DIAGRAMATIC SKETCH
 PROPOSED SALT WATER DISPOSAL WELL
 MEDICINE ROCK (DEVONIAN) POOL
 Lea County , New Mexico



SINCLAIR OIL & GAS CO.
 (ARGO OIL CORP.)

W. R. TOMLINSON WELL No. 1

NE/SW Sec. 14 T18S R38 E

DRY & ABANDONED 2-19-54

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

MAR 25 1965
MAR 25 1965

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-4-65

SUNDRY NOTICES AND REPORTS ON WELLS <small>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT - 1" (FORM C-101) FOR SUCH PROPOSALS.)</small>	
1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- Salt Water Disposal	5a. Indicate Type of Lease State <input type="checkbox"/> Fee <input checked="" type="checkbox"/>
2. Name of Operator Sinclair Oil & Gas Company	7. Unit Agreement Name
3. Address of Operator P. O. Box 1920, Hobbs, New Mexico	8. Farm or Lease Name Argo Thomlinson
4. Location of Well UNIT LETTER K 1980 FEET FROM THE West LINE AND 1980 FEET FROM THE South LINE, SECTION 14 TOWNSHIP 15S RANGE 38E NMPM.	9. Well No. 1
10. Field and Pool, or Wildcat Medicine Rock Dev.	
11. Elevation (Show whether DF, RT, GR, etc.) 3729 GR	12. County Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> OTHER <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> REMEDIAL WORK <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> CASING TEST AND CEMENT JOB <input type="checkbox"/> OTHER <input type="checkbox"/>
ALTERING CASING <input type="checkbox"/>	PLUG AND ABANDONMENT <input checked="" type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1709.

Drilled cement inside 13-3/8"OD surface casing 210' to 316'. Drilled to TD 1950', unable to locate 9-5/8"OD casing stub. Filled hole w/heavy mud. Spotted 25 sacks cement @ 330' to 305'. Spotted 10 sacks cement in collar and filled pits, regulation marker set, cleaned and levelled, plugged and abandoned.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Hubert TITLE **Superintendent** DATE **4-7-65**

APPROVED BY *John W. Runyan* TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:
 Orig:2cc; OOC, cc:Mr.RFS, cc:file



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

December 14, 1962

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

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

Dear Mr. Porter:

Reference is made to the application of Sinclair Oil and Gas Company dated November 14, 1962 which seeks to convert a plugged and abandoned well in the Medicine Rock Devonian Pool in Lea County to a salt water injection well. Reference is also made to my letter of November 27th, 1962 addressed to Mr. Joe Mefford and to his reply to me dated December 4th, 1962, copies of which have been forwarded to you. Mr. Mefford's reply to my letter gives satisfactory answers to the questions and it now appears that the granting of this application would not constitute a threat to any fresh waters which may exist in the area. Therefore, this office offers no objection to the granting of this application.

Yours truly,

S. E. Reynolds
State Engineer

FEI/ma
cc-Mr. Joe Mefford
F. H. Hennighausen

By: 
Frank E. Irby
Chief
Water Rights Division

REFERENCE N° W 4367 -E

SCHLEIBERGER WELL SERVING CORPORATION



FIELD or LOCATION WELL TOMLINSON # 1 COMPANY ARGO OIL CO.	COMPANY ARGO OIL CO.	Location of Well 1980' f S&W/L Sec. 14-15S-38E
	WELL TOMLINSON # 1	ES-GRN (ML-GRN)
	FIELD WILDCAT	Elevation: D.F. 3710 K.B. _____ or G.L. _____
	LOCATION SEC. 14-15S-38E	FILING No. _____
	COUNTY LEA	
STATE NEW MEXICO		

RUN No.	1	2	3					
10-14-53	10-16-53	2-3-54						
1) Reading	4707	4875	12887					
2) Reading	317	317	4880					
3) Measured	4390	168	8007					
4) Schlum.	317	317	4880					
5) Driller	316	316	4875					
6) Depth Reached from Driller	4710	4878	12880					
7) Depth Datum	4712	4875	12800					
8) Fluid	RDB 12.4" Adv. GL							
9) Density	Water-Gal-Caustic-F-Iannex-Soda Ash-Starc.							
10) Viscosity	10-5 80							
11) Resist.	0.05660 @ 70°F	0.0265 @ 70°F	0.0116 @ 70°F					
12) Res. BHT	0.04 @ 107°F	0.039 @ 116°F	0.017 @ 117°F					
13) pH			9					
14) Wtr. Loss	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.			
15) Temp. °F	107	116	117					
16) Size	12" w	12" w	8 3/4" Csg.	12830-Y	3/4" -TD			
17) Cgs. -AM	10"	10"	10"					
18) A	12" LS	12" LS	12" LS					
19) AO	19'	19'	19'					
20) Rig Time	2 Hrs.	2 Hrs.	5 Hrs.					
21) Log No.	1759-Habbs-1762-1758-NoHbs							
22) Logged By	Rayless Kelianhroner Jeff							
23) Witness By	WOOD	WOOD	WOOD					

MARKS
 Gamma Ray Calibration (Applies to Run 2 only)
 5 52-5 100-155 cpr-100 dpr 500' - 100 cpr

POTENTIAL	DEPTH	RESISTIVITY
millivolts		-ohms. m ² /m
Run 1:		0
0	10" Normal	150
0		150
0	32" LS Lateral	4

Resistivity increases