

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

June 28, 1969

C
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P
Y

Solar Oil Company
P. O. Box 5596
Midland, Texas

Gentlemen:

Enclosed herewith please find Administrative Order SWD-103 for your Rulon Well No. 1, located in Unit I of Section 1, Township 13 South, Range 37 East, Lea County, New Mexico.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

cc: Oil Conservation Commission - Hobbs
State Engineer Office - Santa Fe

CIVIL CONSERVATION COMMISSION
U. S. DEPT. OF AGRICULTURE
WASHINGTON, D. C. 20250

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SUBJECT: SALT WATER DISPOSAL WELL

THE APPLICATION OF SOLAR OIL COMPANY
FOR A SALT WATER DISPOSAL WELL.

ORDER NO. SWD-103

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION COMMISSION

Under the provisions of Rule 701 (C), Solar Oil Company made application to the New Mexico Oil Conservation Commission on June 13, 1969, for permission to complete for salt water disposal its Rulon Well No. 1 located in Unit I of Section 1, Township 13 South, Range 37 East, NMPM, Lea County, New Mexico.

The Secretary-Director finds:

1. That application has been duly filed under the provisions of Rule 701 (C) of the Commission Rules and Regulations;
2. That satisfactory information has been provided that all offset operators, surface owners, and the New Mexico State Engineer Office have been duly notified; and
3. That the applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 (C) will be met.
4. That no objections have been received within the waiting period prescribed by said rule.

IT IS THEREFORE ORDERED:

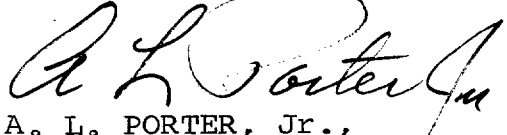
That the applicant herein, Solar Oil Company, is hereby authorized to complete its Rulon Well No. 1, Township 13 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner as to permit the injection of salt water for disposal purposes into the San Andres formation at approximately 5331 feet to approximately 5847 feet through 2 7/8 inch tubing with a packer set at approximately 5300 feet in the production string of said well.

IT IS FURTHER ORDERED:

That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order after notice and hearing the Commission may terminate the authority hereby granted in the interest of conservation. That applicant shall submit monthly reports of the disposal operation in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

APPROVED at Santa Fe, New Mexico, on this 28th day of June, 1969.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


A. L. PORTER, Jr.,
Secretary-Director

SEAL

NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR SOLAR OIL COMPANY		ADDRESS Box 5596, Midland, Texas	
LEASE NAME Rulon	WELL NO. 1	FIELD Undesignated	COUNTY Lea
LOCATION UNIT LETTER 1 ; WELL IS LOCATED 2310 FEET FROM THE South LINE AND 330 FEET FROM THE East LINE, SECTION 1 TOWNSHIP 13-S RANGE 37-E NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	11 3/4"	390'	400	Surface	Circulated
INTERMEDIATE	8 5/8"	4502'	400	2771	Calculated
LONG STRING	5 1/2"	12,288'	525	8,375'	Calculated
TUBING			NAME, MODEL AND DEPTH OF TUBING PACKER		

NAME OF PROPOSED INJECTION FORMATION San Andres		TOP OF FORMATION 4510	BOTTOM OF FORMATION 5979
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLES Perforations	PROPOSED INTERVAL(S) OF INJECTION 5331 - 5847
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil		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

9618 - 30; 10,560 - 70; 12268 - 86; 35 sks @ 9577

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 2267 (Top Anhydrite)		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None Known		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 9990 (Top Penny)	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 1000	MINIMUM 2000	OPEN OR CLOSED TYPE SYSTEM Open		IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) 500
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE -		WATER TO BE DISPOSED OF Yes		NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? No

NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)

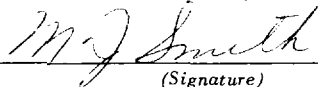
Mrs. Ura B. Anderson, Spring Hill, Kansas

LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL

Major, Giebel and Forster, 1126 Vaughn Bldg, Midland, Texas**Atlantic-Richfield, Box 352, Midland****Scoggins & Ronneberg, Ltd., 1224 Vaughn Plaza, Corpus Christi, Texas****Cosden Oil & Chemical, Box 1311, Big Spring, Texas**

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER Yes	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)	PLAT OF AREA Yes	ELECTRICAL LOG Yes	DIAGRAMMATIC SKETCH OF WELL Yes

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


(Signature)

Production Clerk

(Title)

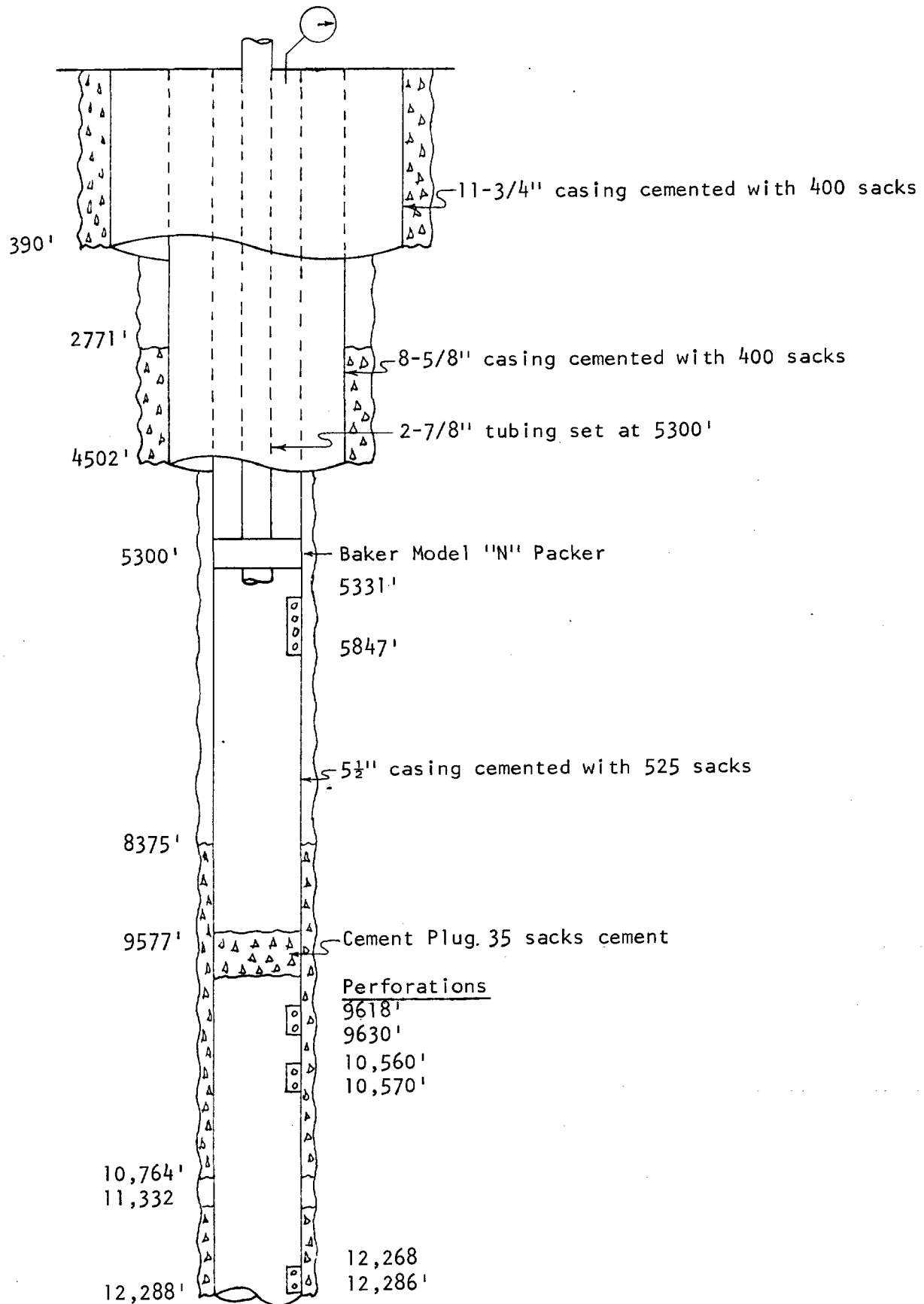
May 15, 1969

(Date)

NOTE: Should waivers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

DIAGRAMMATIC SKETCH

Rulon No. 1



15 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74
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PROXIMITY LOG MEMORANDUM

Date	1-6-69								
Run No.	ONE								
Depth—Driller	12271								
Depth—Logger	12262								
Btm. Log Interval	12260								
Top Log Interval	4502*								
Casing—Driller	8 5/8@4502	@		@			@		
Casing—Logger	4498								
Bit Size	7 7/8								
Type Fluid in Hole	GEL-CHEM								
Dens.	Visc.	9.4	91						
pH	Fluid Loss	10.0	6.4 ml		ml		ml		m
Source of Sample	CIRCULATED								
R _m @ Meas. Temp.	.92 @ 65 °F	@	°F	@	°F	@	°F	@	°F
R _{mf} @ Meas. Temp.	.526 @ 70 °F	@	°F	@	°F	@	°F	@	°F
R _{mc} @ Meas. Temp.	1.58 @ 65 °F	@	°F	@	°F	@	°F	@	°F
Source: R _{mf}	R _{mc}	M	M						
R _m @ BHT	.38 @ 158 °F	@	°F	@	°F	@	°F	@	°F
Time Since Circ.	4 HOURS								
Max. Rec. Temp.	158 °F		°F		°F		°F		°F
Equip.	Location	3722	HOBBS						
Recorded By	BECK								
Witnessed By	MR. SCOTT								

The well name, location and borehole reference data were furnished by the customer.

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REMARKS:

[illegible]