

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

OPERATOR Rice Engineering & Operating, Inc.		ADDRESS Box 1142, Hobbs, New Mexico	
LEASE NAME South Lane SWD	WELL NO. D-35	FIELD South Lane	COUNTY Lea
LOCATION UNIT LETTER <u>D</u> ; WELL IS LOCATED <u>500</u> FEET FROM THE <u>north</u> LINE AND <u>500</u> FEET FROM THE <u>west</u> LINE, SECTION <u>35</u> TOWNSHIP <u>10 S</u> RANGE <u>33 E</u> N.M.P.M.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13-3/8	347'	400	Circulated	-
INTERMEDIATE	8-5/8	4088'	1500	Circulated	-
LONG STRING	5 1/2	12,819'	750	8925'	Temperature Survey by Worth Well
TUBING (Proposed)	3 1/2 EUE	12,819'	None	NAME, MODEL AND DEPTH OF TUBING PACKER	
NAME OF PROPOSED INJECTION FORMATION Devonian			TOP OF FORMATION 12,819'		BOTTOM OF FORMATION 12,990'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Open hole	PROPOSED INTERVAL(S) OF INJECTION 12,819' to 12,990' TD		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil Humble N.M. St. CA No. 1			HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? No	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH -					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 200		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 9700		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 9000	
ANTICIPATED DAILY INJECTION VOLUME (BBL'S.) 4800	MINIMUM 4200	MAXIMUM 7200	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESS. REG? Gravity	APPROX. PRESSURE (PSI) 0
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 - Yes			WATER TO BE DISPOSED OF Penn. Bough "C"		NATURAL WATER IN DISPOSAL ZONE Devonian
			ARE WATER ANALYSES ATTACHED? Bough "C" attached		
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) State (owner) Bogle Farms, Inc. (lessee) Hagerman, New Mexico					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF MILE OF THIS INJECTION WELL					
T. F. Hodge, 901 W. Missouri, Midland, Texas					
Tenneco Oil Company, Box 1031, Midland, Texas					
Texaco Inc., Box 728, Hobbs, New Mexico					
Cabot Corporation, Box 4395, Midland, Texas					
Pubco Petroleum Corporation, Box 1419, Albuquerque, New Mexico					
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		THE NEW MEXICO STATE ENGINEER 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.

W. G. Abbott  
(Signature) W. G. Abbott

Division Manager  
(Title)

November 9, 1965  
(Date)

NOTE: Should waivers from the State Engineer, 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.

65 Nov 16 AM 11

# FORMATION WATER ANALYSES

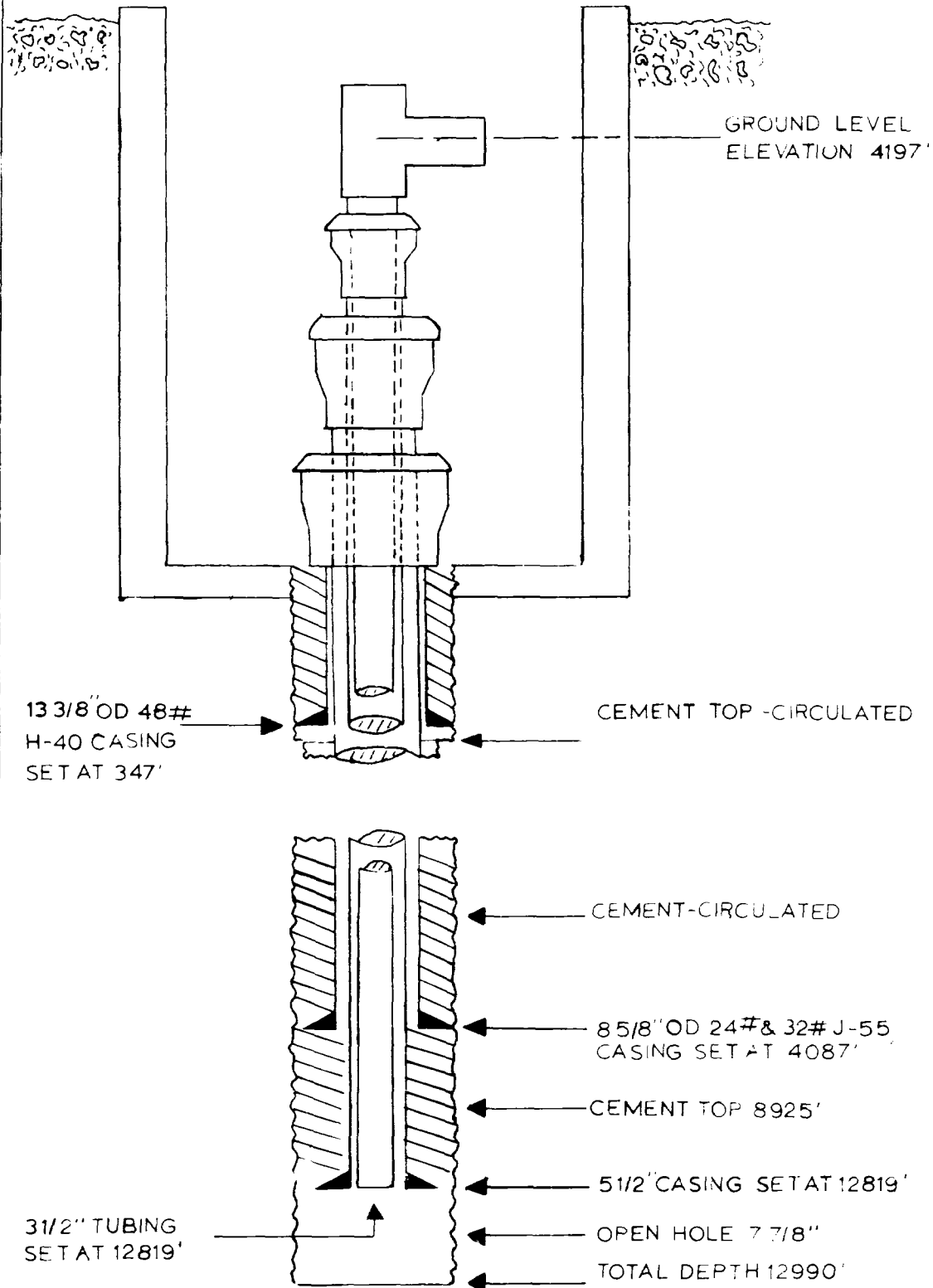
MILLIGRAMS PER LITER

	<u>No. 1</u>	<u>No. 2</u>
Sodium, Na	29,913	29,965
Calcium, Ca	4,738	4,858
Magnesium, Mg	873	878
Sulfate, SO <sub>4</sub>	570	598
Chloride, Cl	56,450	56,750
Bicarbonate, HCO <sub>3</sub>	305	281
Carbonate, CO <sub>3</sub>	nil	nil
Hydrogen Sulfide, H <sub>2</sub> S	nil	nil
Barium, Ba	<u>nil</u>	<u>nil</u>
TOTAL	92,849	93,330
Specific Gravity @ 60°F	1.068	1.069
Iron	trace	trace

Source of sample and date taken:

- No. 1 Produced water - taken from Midwest's Louisiana, Land & Exploration Lease, S/2 Section 14, Township 10 South, Range 33 East, Lea County, New Mexico. 2-24-63
- No. 2 Produced water - taken from L. R. French's Gulf Lease, E/2 NE/4 Section 18, Township 11 South, Range 34 East, Lea County, New Mexico. 2-24-63

KB-42145



DCM 11-65

SOUTH LANE SWD WELL  
D-35-SWD WELL COMPLETION

NONE

Rice Engineering & Operating, Inc.

Hobbs, New Mexico

A-226

LARGE FORMAT  
EXHIBIT HAS  
BEEN REMOVED  
AND IS LOCATED  
IN THE NEXT FILE

OIL CONSERVATION COMMISSION  
P. O. BOX 871  
SANTA FE, NEW MEXICO

Int - 58

November 17, 1965

Rice Engineering & Operating, Inc.  
P. O. Box 1142  
Hobbs, New Mexico

Attention: Mr. W. G. Abbott

Gentlemen:

To obtain administrative approval for salt water disposal wells, operator shall submit in "Triplicate" Commission Form C-108. One copy of the application is forwarded to the district office having jurisdiction of the area in which the well is located and two copies retained by the Santa Fe office. Since we received only two copies of your application to complete your South Lane SWD Well No. 35 for disposal purposes, will you kindly supply the Hobbs office of the Oil Conservation Commission with a copy of said application.

Very truly yours,

J. E. KAPTEINA  
Engineer

JEK/og



**STATE OF NEW MEXICO**  
**STATE ENGINEER OFFICE**  
**SANTA FE**

**S. E. REYNOLDS**  
**STATE ENGINEER**

November 17, 1965

ADDRESS CORRESPONDENCE TO:  
STATE CAPITOL  
SANTA FE, NEW MEXICO 87501

MAILED  
NOV 17 1965  
AHS

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

Dear Mr. Porter:


Reference is made to Rice Engineering & Operating, Inc., application to dispose of salt water by injection into a porous formation dated November 9, 1965. The well to be used is the South Lane SWD Well No. D-35 in Sec. 35, T. 10 S., R. 33 E.

This office offers no objection to the granting of the application provided the well is constructed and equipped in the manner set forth on their drawing No. A-226 dated 11-65.

FEI/ma  
cc-Rice Engineering & Operating, Inc.  
F. H. Hennighausen

Yours truly,

S. E. Reynolds  
State Engineer

By:   
Frank E. Irby  
Chief  
Water Rights Div.