

TEXACO  
INC.

PETROLEUM PRODUCTS



DRAWER 728

HOBBS, NEW MEXICO 88240

November 8, 1968

MAIL OFFICE 000

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New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Application For S&W  
TEXACO Inc.  
B. E. Spencer "B" Federal Well No. 1  
Little Lucky Lake Pool Area  
Chaves County, Texas

Gentlemen:

Attached please find an "Application to Dispose of Salt Water By Injection Into A Porous Formation" for TEXACO'S B. E. Spencer "B" Federal Well No. 1. The subject well was drilled as a test of the Devonian formation and was plugged and abandoned as a dry hole on January 10, 1961. It is now proposed to reenter this well and commence salt water disposal into the Queen formation from 2450' to 2782'. Although TEXACO has no water analysis of the water in this zone, a wireline test at 2705' run by Schlumberger during the drilling of the well indicates that the water contains 7950 ppm chlorides.

This disposal well will serve TEXACO'S properties in the Little Lucky Lake Devonian Pool. Current water production is 650 barrels of water per day and it is anticipated that water production will reach a maximum of 2650 BWPD. Injection will be down 2-3/8" O.D. internally plastic coated tubing set on a packer at approximately 2400 feet.

TEXACO Inc. does not currently have an Oil and Gas Lease on the lands on which the subject well is located. Therefore, TEXACO has made application to the U. S. Department of Interior, Bureau of Land Management, for right of way and a special use permit to enable TEXACO to use the well for S&W purposes. The Bureau of Land Management has advised that a copy of the New Mexico Oil Conservation Commission Order approving TEXACO'S proposed S&W operations is necessary before they will take further action on TEXACO'S applications.

NMOCC

-2-

November 8, 1968

It is respectfully requested that the New Mexico Oil Conservation Commission issue an order as soon as the required waiting period has elapsed, so that TEXACO may meet the January 1, 1969 deadline date on discontinuing disposal of salt water into unlined surfaced pits. Your usual cooperation will be appreciated.

Yours very truly,



E. D. Raymond  
District Superintendent

EDMc/ndd

WDH

NMOCC-Hobbs

Attachments

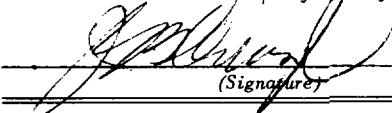
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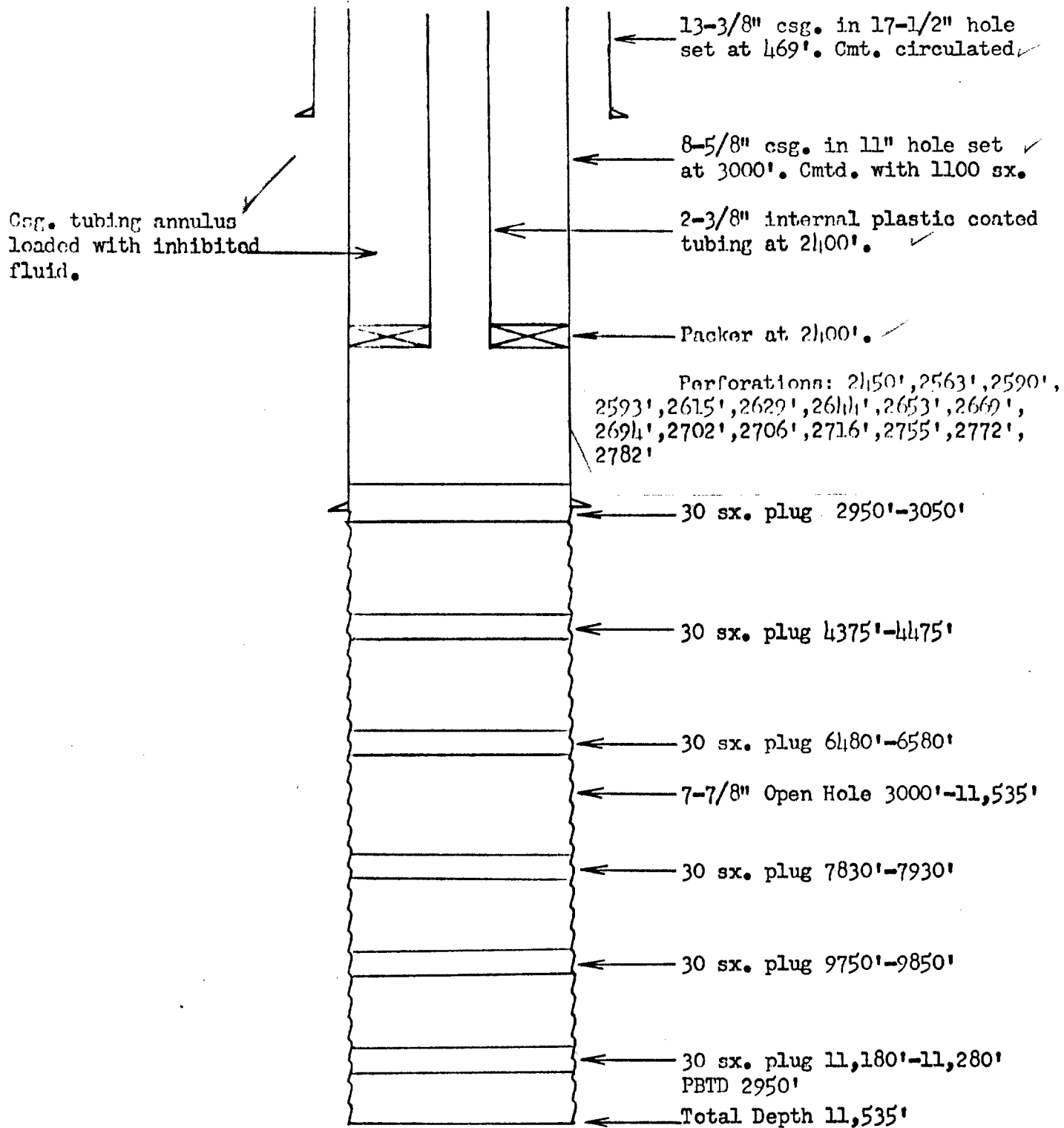
NEW MEXICO OIL CONSERVATION COMMISSION  
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR <b>TEXACO Inc.</b>				ADDRESS <b>Box 728 - Hobbs, New Mexico</b>	
LEASE NAME <b>B.E. Spencer 'B' Federal</b>		WELL NO. <b>1</b>	FIELD <b>Little Lucky Lake Area</b>		COUNTY <b>Chaves</b>
LOCATION UNIT LETTER <b>D</b> ; WELL IS LOCATED <b>660</b> FEET FROM THE <b>North</b> LINE AND <b>330</b> FEET FROM THE <b>West</b> LINE, SECTION <b>28</b> TOWNSHIP <b>15 South</b> RANGE <b>30 East</b> NMPM.					
<b>CASING AND TUBING DATA</b>					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	<b>13-3/8"</b>	<b>469'</b>	<b>600 sxs.</b>	<b>Surface</b>	<b>Visual</b>
INTERMEDIATE	<b>8-5/8"</b>	<b>3000'</b>	<b>1100 sxs.</b>	<b>Unknown</b>	<b>Calculates 3950' of fill w/50% fillup factor</b>
LONG STRING	<b>-</b>				
TUBING	<b>2-3/8"</b>	<b>2400'</b>	NAME, MODEL AND DEPTH OF TUBING PACKER <b>Tension Type (probably Baker Model 'AD') @ 2400'</b>		
NAME OF PROPOSED INJECTION FORMATION <b>Queen Sand</b>			TOP OF FORMATION <b>2428'</b>		BOTTOM OF FORMATION <b>2822'</b>
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? <b>Tubing</b>		PERFORATIONS OR OPEN HOLE? <b>Perforations</b>	PROPOSED INTERVAL(S) OF INJECTION <b>2450'-2782'</b>		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? <b>No</b>	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? <b>Oil Well (P&amp;A on completion)</b>				HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? <b>No</b>
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 <b>250'</b>		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA <b>None</b>		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA <b>11,050'</b>	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.) <b>650</b>	MINIMUM <b>2650</b>	MAXIMUM <b>2650</b>	OPEN OR CLOSED TYPE SYSTEM <b>Closed</b>	IS INJECTION TO BE BY GRAVITY OR PRESSURE? <b>Pressure</b>	APPROX. PRESSURE (PSI) <b>2000 Max.</b>
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 <b>Yes</b>	NATURAL WATER IN DISPOSAL ZONE <b>Yes</b>	ARE WATER ANALYSES ATTACHED? <b>Yes (for water to be disposed)</b>
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) <b>Federal (Bogle Farms, Inc., Dexter, N.M.)</b>					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL <b>Pan American Petroleum Corp. - P.O. Box 68, Hobbs, New Mexico 88240</b>					
<b>MAIN OFFICE 00</b>					
<b>'68 Nov 12 AM 8</b>					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER <b>Yes</b>		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL <b>Yes</b>	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		PLAT OF AREA <b>Yes</b>		ELECTRICAL LOG <b>Yes</b>	
				THE NEW MEXICO STATE ENGINEER <b>No</b>	
				DIAGRAMMATIC SKETCH OF WELL <b>Yes</b>	

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

 (Signature)	<b>Asst. District Superintendent</b> (Title)	<b>November 8, 1968</b> (Date)
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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.



TEXACO INCORPORATED  
 Schematic Diagram  
 Proposed Salt Water Disposal Completion  
 SPENCER FEDERAL "B" NO. 1  
 CHAVES COUNTY, NEW MEXICO

November 8, 1968

Bogle Farms, Inc.  
Dexter, New Mexico 88230

Re: REQUEST FOR WAIVER  
SWD Application  
Little Lucky Lake Pool Area  
Chaves County, New Mexico

Gentlemen:

Attached please find an application for salt water disposal into the Queen formation in TEXACO's plugged and abandoned B. E. Spencer "B" Federal Well No. 1, Chaves County, New Mexico. It is believed that the application and the letter of transmittal will explain TEXACO's proposal in full, however, if you have any questions please advise.

Since the "no-pit" order deadline is very close it would be appreciated if you would sign the attached waiver, forward one (1) copy to the NMOCC and one(1) to TEXACO Inc. at your earliest convenience.

Yours very truly,

H. D. Raymond  
District Superintendent

EDMc-cmc

Attachment

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November 8, 1968

Pan American Petroleum Corp.  
P. O. Box 68  
Hobbs, New Mexico 88240

Re: REQUEST FOR WAIVER  
SWD Application  
Little Lucky Lake Pool Area  
Chaves County, New Mexico

Gentlemen:

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Yours very truly,

H. D. Raymond  
District Superintendent

EDMc-cmc

Attachment

2. 2001 年 12 月 31 日, 甲公司“应付账款”科目所属各明细科目期末贷方余额如下: 应付账款——A 公司 100 万元, 应付账款——B 公司 200 万元, 应付账款——C 公司 400 万元, 应付账款——D 公司 100 万元。甲公司 2001 年 12 月 31 日资产负债表中“应付账款”项目期末余额应填列的金额是 ( ) 万元。  
 A. 700  
 B. 800  
 C. 900  
 D. 1000

1. The first step is to identify the problem.
 2. The second step is to define the problem.
 3. The third step is to analyze the problem.
 4. The fourth step is to develop a solution.
 5. The fifth step is to implement the solution.
 6. The sixth step is to evaluate the solution.
 7. The seventh step is to monitor the solution.
 8. The eighth step is to maintain the solution.
 9. The ninth step is to improve the solution.
 10. The tenth step is to document the solution.

<sup>a</sup> The number of subjects who were included in each group.

[illegible]

10. The above information was obtained from the following sources:

*Journal of Management Education* 30(6)p. 789-804  
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<http://www.sagepub.com/journalsPermissions.nav>

Approved: \_\_\_\_\_  
 Special Agent in Charge

Figure 1 is a schematic representation of the experimental design. It shows a sequence of events: a subject is presented with a stimulus (a face), then a response is recorded (a button press), and finally, the subject is rewarded (a coin is placed in a slot). The sequence is labeled 'Stimulus', 'Response', and 'Reward'.

Figure 2. *Phragmites* and *Spartina* coverages in the marshes of the Sacramento-San Joaquin River Delta, California, 1990-1999.



New Mexico Oil Conservation Commission  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Re: SWD Application  
TEXACO Inc. B.E. Spencer 'B' Fed.  
Well No. 1  
Chaves County, New Mexico

Gentlemen:

TEXACO Inc. has advised by copy of an application with attachments of their proposal to re-enter their B.E. Spencer 'B' Federal Well No. 1, located 660' FNL and 330' FWL of Section 28, T-15-S, R-30-E, Chaves County, New Mexico, and complete it as a SWD well in the Queen Formation from 2450' to 2782'.

The undersigned, as an Operator within one-half mile of the proposed SWD well, or as surface lessee, hereby waives objection to TEXACO's described application.

Signed \_\_\_\_\_

Company \_\_\_\_\_

Date \_\_\_\_\_

EDMc-bh

# HALLIBURTON DIVISION LABORATORY

HALLIBURTON COMPANY

LOVINGTON, NEW MEXICO

## LABORATORY REPORT

No. **WL-62-62**

Date **February 12, 1962**

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

To **Texaco, Inc**

**Box 727**

**Lovington, New Mexico**

Date Received

Well & Lease **Peery Fed # 2.**

Depth

Formation **Devonian**

Location **Little Lucky Lake**

Field

Source **Well Head**

Specific gravity **1.038**

60/60 °F

Color. filtrate

pH **6.9**

Resistivity

°F

ppm (mpl)

Chlorides, Cl **27,700**

Sulfates, SO<sub>4</sub> **Med (2500)**

Alkalinity, HCO<sub>3</sub> **425**

Calcium, Ca **1,840**

Magnesium, Mg **925**

Iron, Fe **Negl.**

Sodium, Na\* **15,400**

Sulfides, H<sub>2</sub>S **Negl.**

Remarks:

ppm equals Parts per million uncorrected or milligrams per liter

\* includes Potassium as Na.

Laboratory Analyst

**Brewer**

Respectfully submitted

HALLIBURTON COMPANY

By

**Dave Sutton, Division Chemist**

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