

SOUTHLAND ROYALTY COMPANY

HOME OFFICE:
1603 FIRST NATIONAL BLDG.
FT. WORTH 2, TEXAS
76102

MIDLAND, TEXAS

REPLY TO:
1405 WILCO BLDG.
MIDLAND, TEXAS
79704

November 8, 1965

Mr. A. L. Porter, Jr.
Secretary-Director
New Mexico Oil Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico

Dear Sir:

Enclosed please find application to dispose of salt water by injection into a porous formation. This application is to dispose of salt water produced from the Bough "C" formation on our McKinley Federal, J. D. Guye and Farrar Leases in the Inbe (Pennsylvanian) Field of Lea County, New Mexico. Included with form C-108 is a plat of the area, Laterolog and a diagrammatic sketch of the proposed injection well.

In compliance with section C of Rule 701 copies of this application have been sent to the offset operator, land owner and State Engineer requesting waivers. An executed copy of waiver from offset operator and land owner is included with application.

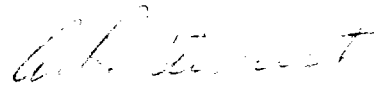
The proposed injection well will be a re-enter operation of an abandoned well on a State Lease currently held by Grove Oil and Gas Company. On consummating an agreement with Grove Oil and Gas Company, a salt water disposal well lease with the State Commissioner of Public Lands will be finalized.

Mr. A. L. Porter, Jr.
Page 2
November 8, 1965

We will furnish any additional information that may be required and will appreciate your early action regarding this application.

Very truly yours,

SOUTHLAND ROYALTY COMPANY



A. R. Steinert

ARS:jh

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

OPERATOR Southland Royalty Company		ADDRESS 1405 Wilco Bldg. Midland, Texas	
LEASE NAME Guye State	WELL NO. 1	FIELD Inbe (Penn.)	COUNTY Lea
LOCATION UNIT LETTER B ; WELL IS LOCATED 660 FEET FROM THE North LINE AND 1980' FEET FROM THE East LINE, SECTION 23 TOWNSHIP 11-S RANGE 33-E NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13 3/8	294'	300	Surface	Calculated
INTERMEDIATE					
LONG STRING	4 1/2	5245	500	Surface	Calculated
TUBING	2 3/8	4000	NAME, MODEL AND DEPTH OF TUBING PACKER Guiberson, Shorty Tension, set at 4000'		
NAME OF PROPOSED INJECTION FORMATION San Andres			TOP OF FORMATION 3805		BOTTOM OF FORMATION 5238
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Perforations	PROPOSED INTERVAL(S) OF INJECTION 4000-5200		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? DeVonian Test			HAS WELL EVER BEEN PERFORMED 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 None					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 1900		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 8775	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.) 1000	MINIMUM 1800	MAXIMUM Open	OPEN OR CLOSED TYPE SYSTEM Open	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) 1600
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 Yes		NATURAL WATER IN DISPOSAL ZONE Yes
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) J. D. Guye - Tatum, New Mexico			ARE WATER ANALYSES ATTACHED? *Yes		
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Cabot Corporation - Box 4395 Midland, Texas					
* Water analysis of water to be disposed are attached. Analysis of natural water in disposal zone are not available. Other operators in the area are disposing produced water in this same zone.					
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.

Allen R. Steinert
Allen R. Steinert
 (Signature)

Engineer
 (Title)

October 18, 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.

[illegible]

File
Analysis under
In the
(Room) Field

HALLIBURTON DIVISION LABORATORY

HALLIBURTON COMPANY
LOVINGTON, NEW MEXICO

No. W1-750-65

LABORATORY REPORT

Date September 21, 1965

To Southland Royalty
1405 Wilco Building
Midland, Texas

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.

Date Received

Well & Lease	As Marked	Depth	Formation	
Location	Field	Source		
	McKinley Federal Htr. Treater	Farrar #1 Htr. Tr.	Farrar A-1 Htr. Tr.	J.D. Guge Htr. Tr.
Specific gravity 60/60 °F	1.060	1.058	1.060	1.058
Color, filtrate	Clear	Clear	Clear	Clear
pH	6.6	6.7	6.6	6.6
Resistivity @ 82 °F ppm (mpl)	0.080	0.083	0.084	0.081
Chlorides, Cl	55,600	54,400	54,800	54,400
Sulfates, SO ⁴	1,800	1,600	1,700	1,500
Alkalinity, HCO ³	595	330	320	305
Calcium, Ca	4,880	5,040	5,600	4,800
Magnesium, Mg	775	485	1,070	970
Iron, Fe	Nil	Nil	Nil	Nil
Sodium, Na*	29,970	29,280	28,970	29,160
Sulfides, H ₂ S	Nil	Nil	Nil	Nil
Remarks				

ppm equals Parts per million uncorrected or milligrams per liter
* includes Potassium as Na.

Laboratory Analyst
Brewer

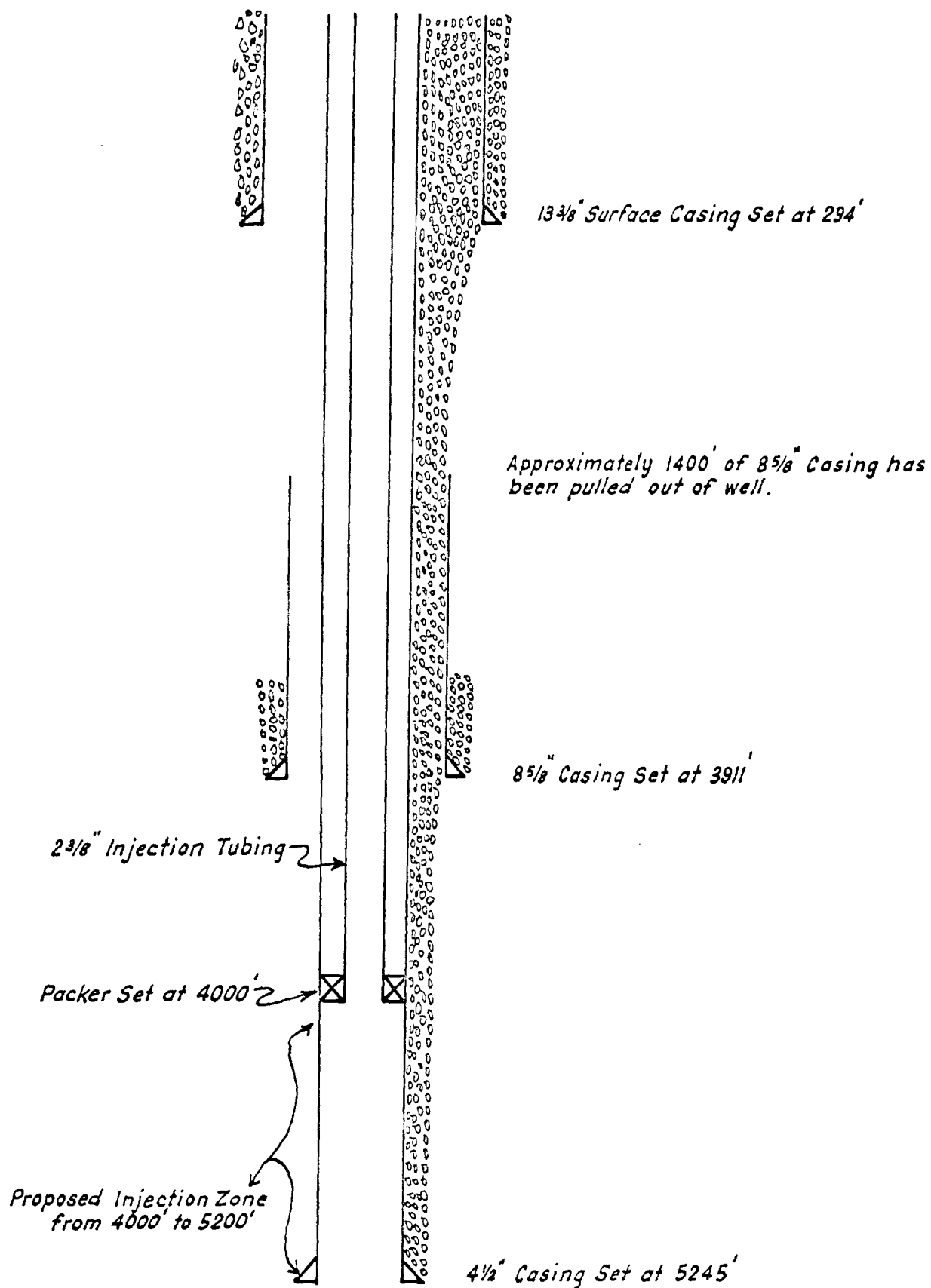
Respectfully submitted

HALLIBURTON COMPANY

By Rex L. Hammack, Jr.
Rex L. Hammack, Jr., Division Chemist

NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether due to act or omission, resulting from such report or its use.



DIAGRAMMATIC SKETCH
OF
PROPOSED INJECTION WELL
GUYE STATE No. 1

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

Re: Application to Dispose of
Salt Water by Injection
into a Porous Formation

The undersigned hereby waives any objection to the application of Southland Royalty Company to inject produced salt water from the Bough "C" formation into the San Andres formation from 4000 feet to 5200 feet in the Guye State Well No.1 located 660 feet from the north line and 1980 feet from the east line of Section 23, Township 11-S, Range 33-E, Lea County, New Mexico.

Yours very truly,

Cabot Corporation

By Percy C. Quinn

Date 10-21-65

11-15-65
11-15-65
11-15-65

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

RE: Application to Dispose of
Salt Water by Injection
into a Porous Formation

The undersigned hereby waives any objection to the application of Southland Royalty Company to inject produced salt water from the Bough "C" formation into the San Andres formation from 4000 feet to 5200 feet in the Guye State Well No. 1 located 660 feet from the north line and 1980 feet from the east line of Section 23, Township 11 South, Range 33 East, Lea County, New Mexico.

Yours very truly,

Mr. J. D. Guye

BY J. D. Guye

Date 11/1/65

COPY

SOUTHLAND ROYALTY COMPANY

HOME OFFICE
1603 FIRST NATIONAL BLDG.
FT. WORTH 2, TEXAS
76102

MIDLAND, TEXAS

REPLY TO:
1405 WILCO BLDG.
MIDLAND, TEXAS
79704

November 5, 1965

State Engineer
Box 1079
Santa Fe, New Mexico

Dear Sir:

Enclosed please find application for Southland Royalty Company to dispose of produced salt water in the Inbe (Penn.) Field of northern Lea County, New Mexico. All information relative to this proposed disposal is included with application.

Also included are waivers. If there are no objections to this application, we will appreciate your executing one copy of the waiver and forwarding to Secretary-Director of the Oil Conservation Commission in Santa Fe, New Mexico.

Yours very truly,

SOUTHLAND ROYALTY COMPANY



A. R. Steinert

ARS:jh

1990

[illegible]



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

November 15, 1965

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

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, N. M.

Dear Mr. Porter:

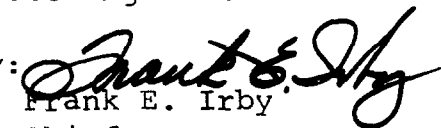
Reference is made to the application of Southland Royalty Company which seeks administrative approval to dispose of salt water by injection into the porous formation through their Guye State No. 1 well in the Inbe (Penn.) field.

This office offers no objection to the granting of the application provided the well is completed in accordance with the diagrammatic sketch of this well and the statements made on Form C-108 executed by Allen R. Steinert, Engineer for the company.

FEI/ma
cc-Southland Royalty Co.
F. H. Hennighausen

Yours truly,

S. E. Reynolds
State Engineer

By: 
Frank E. Irby
Chief
Water Rights Div.

OIL CONSERVATION COMMISSION
I DISTRICT

'65 NOV 22 AM 11:00

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE Nov. 17, 1965

Re: Proposed NSP _____
Proposed Triple _____
Proposed NSL _____
Proposed NFO _____
Proposed DC _____

SWD X

Gentlemen:

I have examined the application dated 11/11/65
for the Southland Royalty Co. Guye State #1-B 23-11-33
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

O.K.---E.F.E.

O.K.---J.W.R.

Yours very truly,

[Signature]

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Laterolog

WITH GAMMA RAY

COUNTY _____ FIELD or LOCATION _____ WELL _____ COMPANY _____	COMPANY <u>J. C. WILLIAMS DR.</u>	Other Surveys MEL COM
	WELL _____	Location of Well _____
	FIELD <u>W. LOGAN</u>	Elevation K.B. _____ D.F. _____ or G.L. _____
	LOCATION <u>SEC 23 T1S R1E</u>	
	COUNTY <u>SEA</u>	
STATE <u>NEW MEXICO</u>		

Log Depths Measured From _____		_____ Ft. above _____	
RUN No.	<u>12-21-60</u>		
Date	<u>11213</u>		
First Reading	<u>3905</u>		
Last Reading	<u>7308</u>		
Feet Measured	<u>3905</u>		
Csg. Schlum.	<u>3910</u>		
Csg. Driller	<u>11218</u>		
Depth Reached	<u>11210</u>		
Bottom Driller	<u>SALT GEL STARCH</u>		
Mud Nat.	<u>10 3 39</u>		
Dens. Visc.	<u>15 @ 40</u>		
Mud Resist.	<u>04 @ 176</u>		
Res. BHT	<u>22 @ 52</u>		
pH	<u>7.78</u>		
Wtr. Loss	<u>11 @ 52</u>		
Rmf	<u>22 @ 52</u>		
Rmc	<u>11 @ 52</u>		
Bit Size	<u>3 1/2</u>		
Laterolog 3	<u>11 @ 52</u>		
Laterolog 7	<u>11 @ 52</u>		
Opr. Rig Time	<u>3 HRS.</u>		
Truck No.	<u>1555 ARTES A</u>		
Recorded By	<u>EASLEY</u>		
Witness	<u>RE SER</u>		

Reproduced By

West Texas Electrical Log Service

Dallas 2, Texas

REFERENCE W 521L



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COMPLETION RECORD

SPUD DATE

COMP DATE

DST RECORD