

RECEIVED
MARCH 10 1980
SANTA FE



Southland Royalty Company

March 5, 1980

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

Administrative approval is requested to continue injection authority for the Southland Royalty State D No. 1 located in unit letter H of Section 31, T-10-S, R-33-E.

Injection was terminated in this disposal well when the well quit taking water on a vacuum. The tubing was found to be plugged with scale and it was deemed uneconomical to install new tubing. Burro, Inc. is currently taking all water from this system. Southland requests an exception to the termination of injection authority for this well under Paragraph (2) of Division Rule 702 B. If for any reason Burro was unable to take Southland's produced water or their permit to dispose of water was cancelled, this disposal well could be reactivated. The wellbore has no casing leaks and is more than a mile from any producer. Disposal interval in this well is the Devonian.

Yours very truly,

C. Harvey Carr
District Engineer

DRC:cn

COPY

SOUTHLAND ROYALTY COMPANY

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

MIDLAND, TEXAS

March 17, 1967

REPLY TO:
1405 WILCO BLDG.
MIDLAND, TEXAS
79701

State Engineer
State of New Mexico
P.O. Box 1079
Santa Fe, New Mexico 87501

Re: Southland Royalty Company
Re-entry to make Salt Water
Disposal Well
State "D" Well No. 1
1980' FNL and 660' FEL,
Sec. 31, T-10-S, R-33-E
Lea County, New Mexico

Enclosed please find application with Diagrammatic Sketch for disposal of salt water into the Devonian formation in the above-captioned well. All available information is included with application.

Also enclosed is waiver. If there are no objections to this application, please execute one copy of the waiver and forward to the Secretary-Director of the Oil Conservation Commission, P.O. Box 2088, Santa Fe, New Mexico.

Yours very truly,

SOUTHLAND ROYALTY COMPANY



C. H. Carr
District Engineer

CHC:jh

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

SOUTHLAND ROYALTY COMPANY

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

MIDLAND, TEXAS

REPLY TO:
1405 WILCO BLDG.
MIDLAND, TEXAS
79701

March 21, 1967

*SW 2-66
New Apr 6*

HOME OFFICE 000

'67 MAR 22 PM 7 23

Mr. A. L. Porter, Jr.
Secretary Director
New Mexico Oil Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico 87501

Re: Southland Royalty Company
State "D" Well No. 1
Re-entry to make Salt Water
Disposal Well
1980 feet from north line
and 660 feet from east line
Sec. 31, T-10-S, R-33-E
Lea County, New Mexico

Dear Sir:

Attached please find New Mexico Oil Conservation Commission Form C-108 "Application to Dispose of Salt Water by Injection into a Porous Formation" on the above well. Included with the Form C-108 is a plat of the area, electrical log on the well, typical water sample of the water to be injected, and diagrammatic sketch of the well.

The well was originally drilled by Cabot Carbon Company and plugged February 24, 1957. Set 13 3/8" casing at 360', cement circulated; set 9 5/8" casing at 3780', cement circulated. The proposed injection zone in the State "D" Well No. 1 will be the Devonian. On drill stem test in the proposed disposal well at the interval of 12,000-12,040', tool open 2 1/2 hours, recovered 1500 feet water blanket, 2362 feet of salty sulfur water, initial flow pressure 560#, final flow pressure 1500#. We propose, in order to get more porosity available, to deepen the well from the present T.D. of 12,040 to 12,200 feet.

This application is to dispose of our salt water produced in the Inbe (Penn.) Field and Bagley (Penn.) North Field. We propose to inject our own produced water in the above-mentioned fields but also anticipate taking water eventually from other operators in the North Bagley Area to help defray the cost of re-entry.

In compliance with Section C, Rule 701, copies of this application have been sent to the offset operators, land owner, and State Engineer requesting waivers. As soon as executed copies of the waivers are received, they will be forwarded to your office. The minerals under Section 31 are retained by the State of New Mexico (OG 1829). The surface on Section 31 has been deeded.

We respectfully request that administrative approval be granted to dispose of water in the above well.

Very truly yours,

SOUTHLAND ROYALTY COMPANY

A handwritten signature in black ink, appearing to read "C. H. Carr", with a stylized flourish at the end.

C. H. Carr
District Engineer

CHC: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 79701		
LEASE NAME State "D"		WELL NO. 1*	FIELD Wildcat		COUNTY Lea
LOCATION UNIT LETTER H ; WELL IS LOCATED 1980 FEET FROM THE North LINE AND 660 FEET FROM THE East LINE, SECTION 31 TOWNSHIP 10-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"	360	350	Cement circ.	67 MAR 22 PM 7 24
INTERMEDIATE	9 5/8"	3780	1650	Cement circ.	
LONG STRING Liner	4 1/2"	3600-12,200	2500	Circ. cement to 3500'	
TUBING	2 3/8"	12,000	NAME, MODEL AND DEPTH OF TUBING PACKER Guiberson Shorty Tension set @ 12,000'		
NAME OF PROPOSED INJECTION FORMATION Devonian			TOP OF FORMATION 12,000		BOTTOM OF FORMATION 12,040' T.D.
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Perforations	PROPOSED INTERVAL(S) OF INJECTION 12,000-12,200		
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 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 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 9800 (Penn.)		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA None	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.)	MINIMUM 1000	MAXIMUM 2000	OPEN OR CLOSED TYPE SYSTEM Open	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Gravity	APPROX. PRESSURE (PSI) -
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) Carl Johnson, Box 916, Tatum, N.M. (Originally State land but ^{Surface} deeded in 1935)			ARE WATER ANALYSES ATTACHED? Yes**		
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Pubco Pet. Corp., Albuquerque, N.M.; Union Oil Co. of Calif., Union Oil Bldg. Midland, Texas					
*Well originally drilled by Cabot Carbon Co., plugged 2-24-57 at a T.D. of 12,040'. We propose to deepen well to 12,200'.					
**Water analysis of water to be disposed is attached. Analysis of natural water in disposal zone not available.					
Other operators in area are disposing of produced water in this 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.

C.H. Carr
(Signature)

District Engineer
(Title)

March 17, 1967
(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.

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 79701	
LEASE NAME State "D"	WELL NO. 1*	FIELD Wildcat	COUNTY Lea
LOCATION UNIT LETTER H ; WELL IS LOCATED 1980 FEET FROM THE North LINE AND 660 FEET FROM THE East LINE, SECTION 31 TOWNSHIP 10-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"	360	350	Cement circ.	WELL OFFICE OF MAR 22 PM 7 24
INTERMEDIATE	9 5/8"	3780	1650	Cement circ.	
LONG STRING Liner	4 1/2"	3600- 12,200	2500	Circ. cement to 3500'	
TUBING	2 3/8"	12,000	NAME, MODEL AND DEPTH OF TUBING PACKER Guiberson Shorty Tension set @ 12,000'		

NAME OF PROPOSED INJECTION FORMATION Devonian		TOP OF FORMATION 12,000	BOTTOM OF FORMATION 12,040' T.D.
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Perforations	PROPOSED INTERVAL(S) OF INJECTION 12,000-12,200
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 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 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 9800 (Penn.)		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA None	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.)	MINIMUM 1000	MAXIMUM 2000	OPEN OR CLOSED TYPE SYSTEM Open	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Gravity	APPROX. PRESSURE (PSI) -
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? Yes**

NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Carl Johnson, Box 916, Tatum, N.M. (Originally State land but ^{Surface} deeded in 1935)
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Pubco Pet. Corp., Albuquerque, N.M.; Union Oil Co. of Calif., Union Oil Bldg. Midland, Texas

*Well originally drilled by Cabot Carbon Co., plugged 2-24-57 at a T.D. of 12,040'. We propose to deepen well to 12,200'.

**Water analysis of water to be disposed is attached.
Analysis of natural water in disposal zone not available.

Other operators in area are disposing of produced water in this 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.

C.H. Can
(Signature)

District Engineer
(Title)

March 17, 1967
(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.



BRAKE SOL INC.
BOX 18506
OKLAHOMA CITY, OKLA. 73118

Telephone: Victor 3-6628

OIL FIELD CHEMICALS

LAB REPORT OF WATER ANALYSIS

Oil Company **Southland Royalty Co.**
Midland, Texas
Sample Marked **Farrar A#1 Lease**
South Lane Field #3

Sampling Date — **3/1/66**
Date Sample Rec'd — **3/4/66**
Temp. When Taken — **NI** °F

A. MINERAL ANALYSIS # **M-1113**

in parts per million.

Dissolved Solids — **56,000**
Total Alkalinity (as CaCO₃) — **180**
Total Iron (as Fe) — **2.6**
SULFATE (as Na₂SO₄) — **443**

CO₂ (calc.) — **12.6**
pH — **7.72**
Appearance — **Clear**
Chlorides (as NaCl) — **25,000**

Comments:

B. MICROBIAL ACTIVITY # **B-633**

in organisms per ml of sample.

Slime Forming Bacteria
 Non-Sporeforming
 Flavobacterium —
 Mucoids —
 Aerobacter —
 Pseudomonas — **Present**
 Sporeforming **None**
 B. subtilis —
 B. cereus —

Corrosive Bacteria — **12/ml**
 Desulfovibrio — **Present**
 Clostridium —

Iron Depositing Bacteria **None**

Other Bacteria —

Total Count — **1,000**

Comments:

The above results are based on initial microbial studies. Samples will be retained for subsequent evaluations, and if substantial changes are noted, a supplemental report will be submitted.

COUNTY: Lea FIELD: Wildcat WELL: CABOT CARBON CO
1-D State of
LOCATION: Sec 31-10-33 - 1980' FNL 660' FEL. New Mexico

STATE: NM SPUD: 11-8-56 COMP.: 2-24-57 ELEV. 4247' DE ✓
T.D.: 12,040' 11 TOPS: REMARKS: Wolfcamp 11,905' (11,620')
T.PAY: Mississippi 11,245' (11,200') Devonian 11,990'
PT.: P & A DST 8480-8589', 1' 15", rec 60' SGCM, FP 120#
15"-120'.
WATER: DST 9172-9278', 2 hrs, rec 180' SGCM, 470'
PRESSURES: SO&GCM, 1260' SW, FP 150-1275#, 15"-2835'.
GOR.: DST 9390-9400', 2 hrs, rec 120' GCM FP 35#
GRAV.: 15"-215'. DST 9350-9400', 2 hrs, rec:
PERFS.: 120' GCM, FP 35#, 15"-215'.
ACID: DST 12,000-040', 2 1/2' 1500' WB, rec WB 2162'
NITRO: slty sulf wtr. FP 560-1500#, 20"-4585'.
CASING: 13 3/8" 360'/350 sx, 9 5/8" 3780'/1800 sx

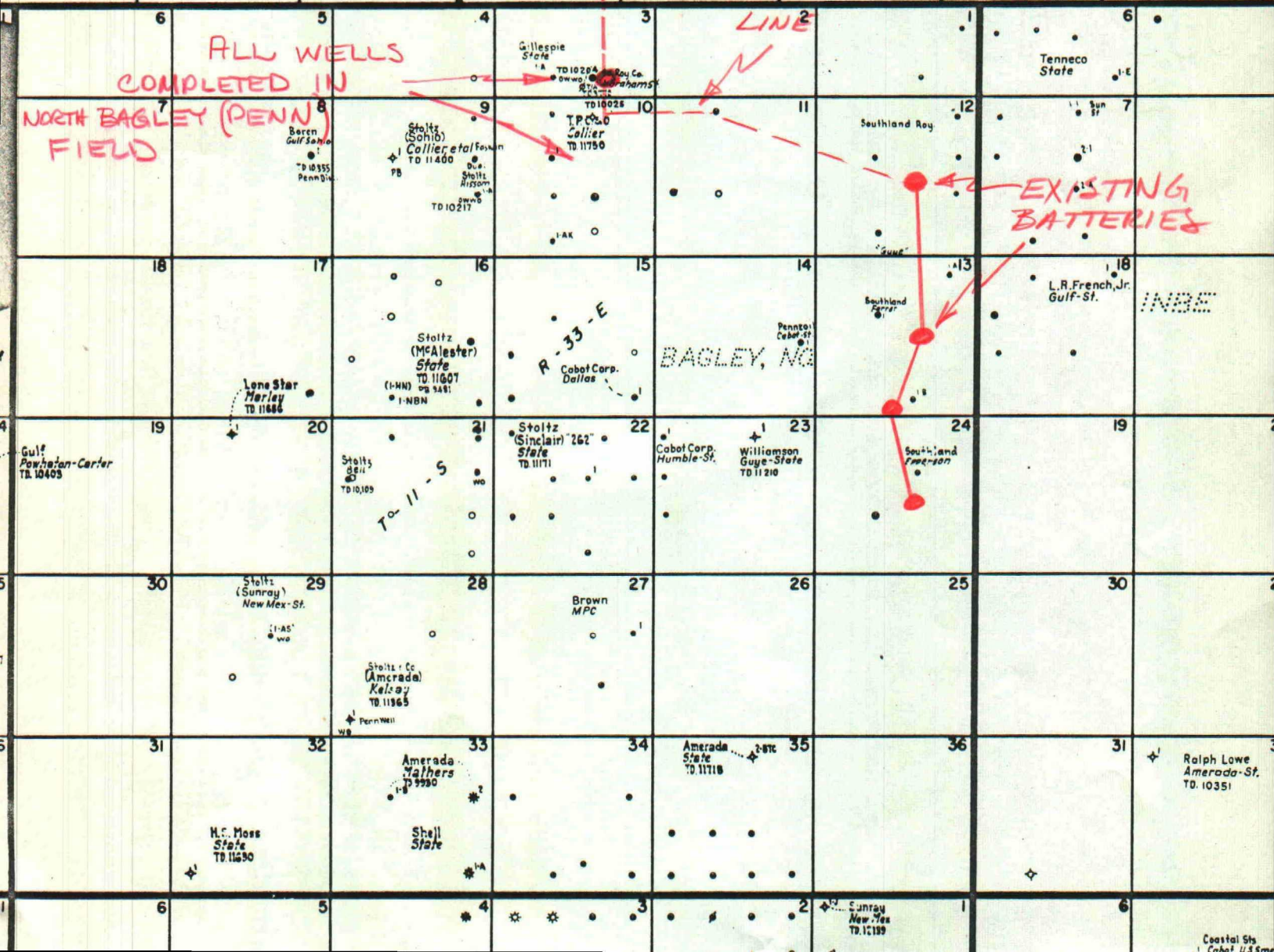
Five Star * * * * *
OIL REPORT, INC.

DATE: 3-15-57 CARD NO.: 306 aj

5238
4247
9487

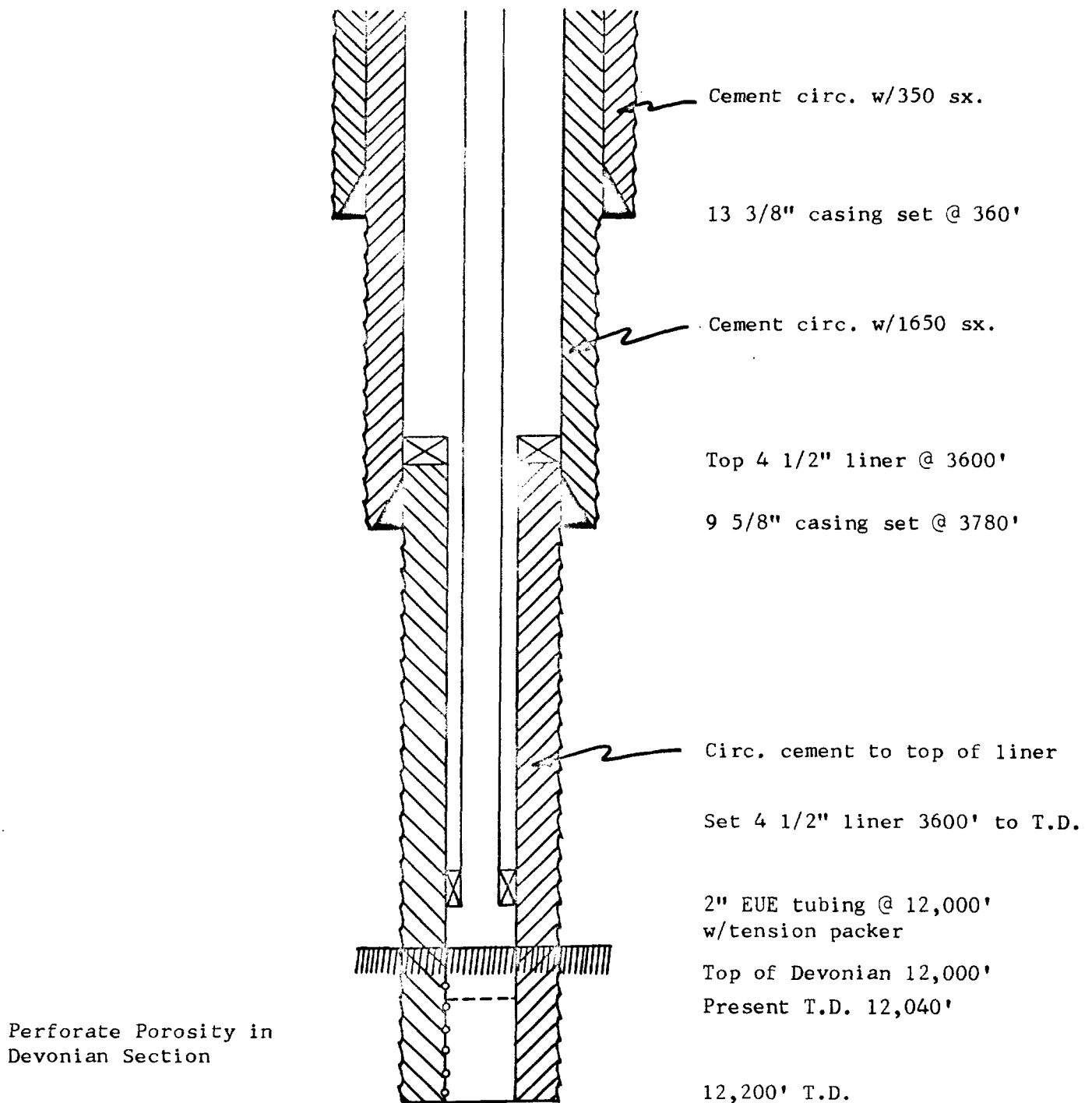
5238
4273
9511

5129
4273
9402



SOUTHLAND ROYALTY COMPANY
State "D" Well No. 1

*(Originally Drilled as Cabot Carbon Co. State "D"
Well No. 1 and plugged 2-24-57)*



DIAGRAMMATIC SKETCH



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

March 27, 1967

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

57
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 produced in the Inbe (Penn) and Bagley (Penn) fields into the State "D" well #1 in Unit H of Sec. 31, T. 10 S., R. 33 E.

From the information given in the application and the diagrammatic sketch of the well, it does not appear that contamination would result if the application is approved.

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

Yours truly,

S. E. Reynolds
State Engineer

By: 
Frank E. Irby
Chief
Water Rights Div.

SOUTHLAND ROYALTY COMPANY

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

MIDLAND, TEXAS

April 6, 1967

REPLY TO:
1405 WILCO BLDG.
MIDLAND, TEXAS
79701

APR 10 AM 7 53

Mr. A. L. Porter, Jr.
Secretary Director
New Mexico Oil Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico 87501

Re: Southland Royalty Company
State "D" Well No. 1
Re-entry to make salt water
disposal well
1980' FNL, 660' FEL, Sec. 31,
T-10-S, R-33-E, Lea County,
New Mexico

Gentlemen:

Attached please find waivers of objections from the offset lease owners and State Engineer on the above well which is a proposed re-entry to make a salt water disposal well.

On March 21, 1967, the Form C-108 "Application to Dispose of Salt Water by Injection into a Porous Formation" was sent to you along with plat, electrical logs, diagrammatic sketch, etc.

The surface owner has verbally approved of the re-entry; this information will be sent as soon as received.

Very truly yours,

SOUTHLAND ROYALTY COMPANY



C. H. Carr
District Engineer

CHC:jh

Union Oil Company of California

M I D L A N D



D I S T R I C T

RECEIVED
APR 13 1967
AM 7 5

AREA CODE 915
MU 2-9731

P.O. Box 671
500 N. MARIENFELD
MIDLAND, TEXAS 79701

March 28, 1967

Southland Royalty Company
1405 Wilco Building
Midland, Texas 79701

Attention: Mr. C. H. Carr, District Engineer

Re: State "D" Well No. 1
Lea County, New Mexico

Gentlemen:

Union has no objection as offset operator for re-entry of subject well for the purpose of salt water disposal in the Devonian formation. Attached is executed waiver requested in your letter of March 17, 1967.

Very truly yours,

G. W. Coombes
District Operations Superintendent

GWC/bMc

Attachment

RECEIVED
MAR 30 1967

SOUTHLAND ROYALTY CO.
MIDLAND, TEXAS

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

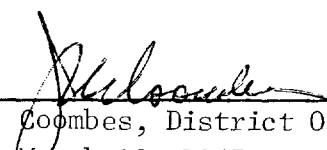

Re: Application to Dispose of Salt Water
by Injection into a Porous Formation

The undersigned hereby waives any objection to the application of Southland Royalty Company to inject produced salt water from the Inbe (Penn.) Field and North Bagley (Penn.) Field in the State "D" Well No. 1 re-entry, 1980 feet from north line and 660 feet from east line of Section 31, T-10-S, R-33-E, Lea County, New Mexico.

Yours very truly,

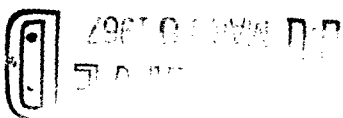
UNION OIL COMPANY OF CALIFORNIA

BY

 
G. W. Coombes, District Operations Supt.

Date March 28, 1967

SOUTHLAND ROYALTY CO.
MIDLAND, TEXAS




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

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 Inbe (Penn.) Field and North Bagley (Penn.) Field in the State "D" Well No. 1 re-entry, 1980 feet from north line and 660 feet from east line of Section 31, T-10-S, R-33-E, Lea County, New Mexico.

Yours very truly,

TEXACO, INC.

By 
W. C. Lenz - Asst. Division Manager
Date March 22, 1967

RECEIVED
MAR 24 1967

SOUTHLAND ROYALTY CO.
MIDLAND, TEXAS

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


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 Inbe (Penn.) Field and North Bagley (Penn.) Field in the State "D" Well No. 1 re-entry, 1980 feet from north line and 660 feet from east line of Section 31, T-10-S, R-33-E, Lea County, New Mexico.

Yours very truly,

PUBCO PETROLEUM CORPORATION

By 

Frank D. Gorham, Jr., President 

Date March 30, 1967

RECEIVED
APR - 3 1967
SOUTHLAND ROYAL
MIDLAND, TEXAS

SOUTHLAND ROYALTY COMPANY

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

MIDLAND, TEXAS

April 17, 1967

REPLY TO:
1405 WILCO BLDG.
MIDLAND, TEXAS
79701

Mr. A. L. Porter, Jr. -
Secretary-Director
New Mexico Oil Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico 87501

Re: Administrative Order SWD-66
Southland Royalty Company
State "D" Well No. 1
Re-entry to Make Salt Water
Disposal Well
Sec. 31, T-10-S, R-33-E
Lea County, New Mexico

Dear Sir:

Attached please find "Waiver of Objection" to put salt water in the above well signed by the surface owner where the well is located.

We have received Administrative approval from you and this is for your records.

Very truly yours,

SOUTHLAND ROYALTY COMPANY



C. H. Carr
District Engineer

CHC:jh

12
MAIN OFFICE

'67 APR 19 AM 8 06

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

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 Inbe (Penn.) Field and North Bagley (Penn.) Field in the State "D" Well No. 1 re-entry, 1980 feet from north line and 660 feet from east line of Section 31, T-10-S, R-33-E, Lea County, New Mexico.

Yours very truly,

CARL JOHNSON

Nine Ranch Co.
BY *Carl T. Johnson*
Date *April 13, 1967*

RECEIVED
APR 14 1967
MIDLAND ROYALTY CO.
MIDLAND, TEXAS

HOSTON, TEXAS



Other Surveys

Location of Well

★

Elevation: D.F.: 4247
K.B.: 4249
or G.L.: 4236

FILING No. .

FILING No. .

STATE NEW MEXICO

FILING No. .

RUN No.	2-14-57	2-23-57							
Rate	11818	12035							
1st Reading	3780	11818							
2nd Reading	8038	217							
per Measured	3780	3780							
sq. Section	3782	3782							
sq. Driller	1821	12038							
epth Reached	1816	12040							
atom Driller	KB 13'	Abv. GL:	KB 13'	Abv. GL					
epin Datum	Salt	Salt							
ud Nol	10	66	10	73					
ens "isc	1 @ .66	1 @ .62	@	F	@	"F	@	"F	@
ud Resist	.05	.045	@	F	@	"F	@	"F	@
" Res. BHT	.037	.140	@	F	@	"F	@	"F	@
Rmf	(@)	F	@	F	@	"F	@	"F	@
pHc	(@)	F	@	F	@	"F	@	"F	@
rml	(@)	F	@	F	@	"F	@	"F	@
Wtr. loss	8.8 CC 30 min	7.4 CC 30 min	CC 30 min		CC 30 min		CC 30 min		CC 30 min
t Size	7 7/8"	7 7/8"							
xgs.—AM	10"								
AQ	32"LS								
AO	19'								
pr Rio Time	2 Hrs.	2 Hrs							
uck No	1752-Hobbs	1759-Hotts							
ordred By	MARBLE	GELB							
ines	KPUC WCU								

MARKS

GR. B24 - 168 - 100(20.0)

LOG. SER. 150. TC - 2. SPEED 2200' & 4000' / hr

West Texas Electrical Log Service

REFERENCE W7110E

COMPLETION RECORD

SPUD DATE

COMP DATE