MU 3-1765
OX 4-2029

Charles B. Gillespie, Jr.
GEOLOGIST-OIL PRODUCER
P. O. BOX 1179
MIDLAND, TEXAS 79701

1968 DEC 26 AM 9

December 13, 1968

JLC - 94

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

Re: Salt Water Disposal Well,
Section 1, T-16-S, R-35E,
Townsend Wolfcamp Field,
Lea County.

Dear Sirs:

Please consider this my formal request for an exception to Rule 701-A of The Oil Conservation Commission and for an administrative order approving this application.

Attached to this letter are the following:

1.) Three copies of C-108, Application to Dispose of Salt Water by injection into a Porous Formation.
2.) Plat showing the location of the proposed disposal well showing producing zone, wells and operators within a two mile radius of the disposal well.
3.) The electric log of the proposed injection well.
4.) A diagrammatic sketch of the proposed injection well.

The fluid will be injected into the San Andres formation at a depth of 6010 - 6040. The salt water is presently being produced on the Charles B. Gillespie, Jr. Snyder "B" and "C" lease located in Section 6, T-15-S, R-36-E at the rate of 45 - 80 barrels per day, and it is anticipated that this will be the only source of water for disposal and will be the total volume injected.

Your approval of this request is appreciated.

Yours truly,

Charles B. Gillespie, Jr.

CBG:jb

Attach.

Form C-108
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR		ADDRESS	
Charles B. Gillespie, Jr.		P. O. Box 1179 Midland, Texas 79701	
LEASE NAME	WELL NO.	FIELD	COUNTY
State "D"	3	Townsend - Wolfcamp	Lea

LOCATION

UNIT LETTER M ; WELL IS LOCATED 3000' FEET FROM THE South LINE AND 330 FEET FROM THE West LINE, SECTION 1 TOWNSHIP 16-S RANGE 35-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", -48#	294	350	Surface	Circulated
INTERMEDIATE	8 5/8", -24-32#	4649	2200	Surface	Circulated
LONG STRING	5½" - 17#	4518 - 10,601	600*	6210'	Temp. Survey
TUBING	2 3/8"-4.6#	5910	NAME, MODEL AND DEPTH OF TUBING PACKER: Baker Model "A" at 5910'		

NAME OF PROPOSED INJECTION FORMATION	TOP OF FORMATION	BOTTOM OF FORMATION
San Andres	4600' (est)	6267

IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?	PERFORATIONS OR OPEN HOLE?	PROPOSED INTERVAL(S) OF INJECTION
Tubing	Perforations	6010 - 6040

IS THIS A NEW WELL DRILLED FOR DISPOSAL?	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED?	HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE?
No	Completed in Townsend Wolfcamp	Yes

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH

10,546 - 10,598, 20 sx (180') cement on top of Guiberson Model "AN" plug

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA
120'	None	10,280

ANTICIPATED DAILY INJECTION VOLUME (BBLS.)	MINIMUM	MAXIMUM	OPEN OR CLOSED TYPE SYSTEM	IS INJECTION TO BE BY GRAVITY OR PRESSURE?	APPROX. PRESSURE (PSI)
65	45	80	Open	Gravity	-

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	NATURAL WATER IN DISPOSAL ZONE	ARE WATER ANALYSES ATTACHED?
Yes	See note on back	Yes	Yes

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

State, Lease E-9050

LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (½) MILE OF THIS INJECTION WELL

Cenard Oil and Gas Company, P. O. Box 446, Dallas, Texas 75221

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

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

Charles B. Gillespie, Jr. (Signature) | Operator (Title) | December 13, 1968 (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.

* Top of liner squeezed in January, 1960 with 200 sx.

Note: Waters to be disposed of are of San Andres Origin and are being produced from the wells as follows -

1.) Snyder C-1, 16-40 BPD, from the Wolfcamp formation because of dumping of quanities of water during liner squeeze operations in June and July, 1960. Periodic well tests show a wide variance of water production.

2.) Snyder B-2, 30-42 BPD, from the top of the liner at 4551'.

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

Reproduced By

West Texas Electrical Log Service

Dallas 1, Texas

REFERENCE No. W 6450 -C

Halliburton

OIL WELL CEMENTING CO.

ELECTRIC WELL LOG

COMPANY CABOT CARBON COMPANY
FILE
WELL STATE B # 3
FIELD Townsend
COUNTY Lea STATE NewMex.
SEC. 1 TWP. 16-S RGE. 3[illegible]-E
SURVEY

Location
[illegible]00' from South
330' from West
Sec. 1
Twp. 16-S
Rge. 3[illegible]-E

ES. (CON, CAL.)

Elevation: D.F. 3990'
K.B. 3992'
Gr. 3980'

Log Measured From Drive bushing Elevation 3992'
Drilling Measured From Drive bushing Elevation 3992'
Permanent Datum Ground Level Elevation 3980'

COMPANY CABOT CARBON COMPANY FILE
WELL STATE B # 3
FIELD Townsend
County Lea State NewMex.

Run No.	ONE				
Date	5-13-56				
Footage Logged	5951'				
Total Depth, El. Log	10611'				
Total Depth, Driller	10615'				
Total Depth, Reached	10614'				
Csg. Shoe, El. Log	4660'				
Csg. Shoe, Driller	4659'				
Csg. Size	8 5/8"				
Bit Size	7 7/8"				
Mud-Kind	Water Base				
Treatment	Caustic Soda				
Soda Ash	Quebracho				
Magcogel	Driscose				
Weight	8.9				
Viscosity	48				
ph	11 @ °F	@ °F	@ °F	@ °F	
Loss ml/30 min	7 @ °F	@ °F	@ °F	@ °F	
Res Ohms m²/m	1.04 @ 84 °F	@ °F	@ °F	@ °F	
Mud Res. @ M.H.T.	.7 @ 123 °F	@ °F	@ °F	@ °F	
Max. Temp.	123 °F	°F	°F	°F	
Source Mud Sample	Pit				

0 32" Limestone Curve 150

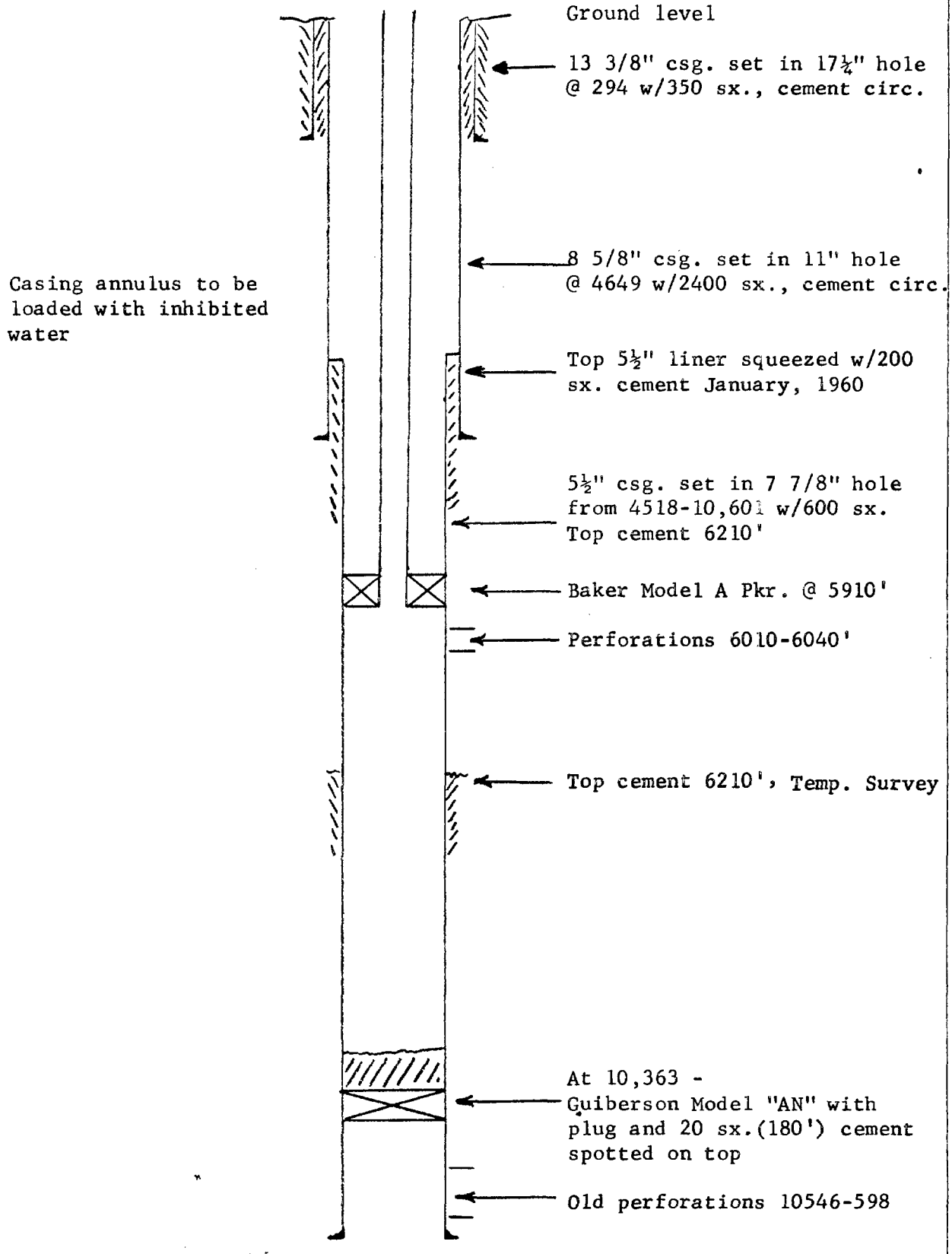
3 5/8" CASING 4660'

4700

Proposed

5300 5400 5500 5600 5700 5800 5900 6000

6010



CHARLES B. GILLESPIE, JR.

FORM LR 4A

BJ BORG-WARNER

BYRON JACKSON INC.

LABORATORY REPORT

BRINE OR WATER ANALYSIS DEPTH: FORMATION:

Company Charles B. Gillespie, Jr. (Austral Oil Exploration) Farm Snyder "C" Well No. 1

Location County Lea State New Mexico Date 3/21/66

Pool Samples Submitted by Bill Poplin

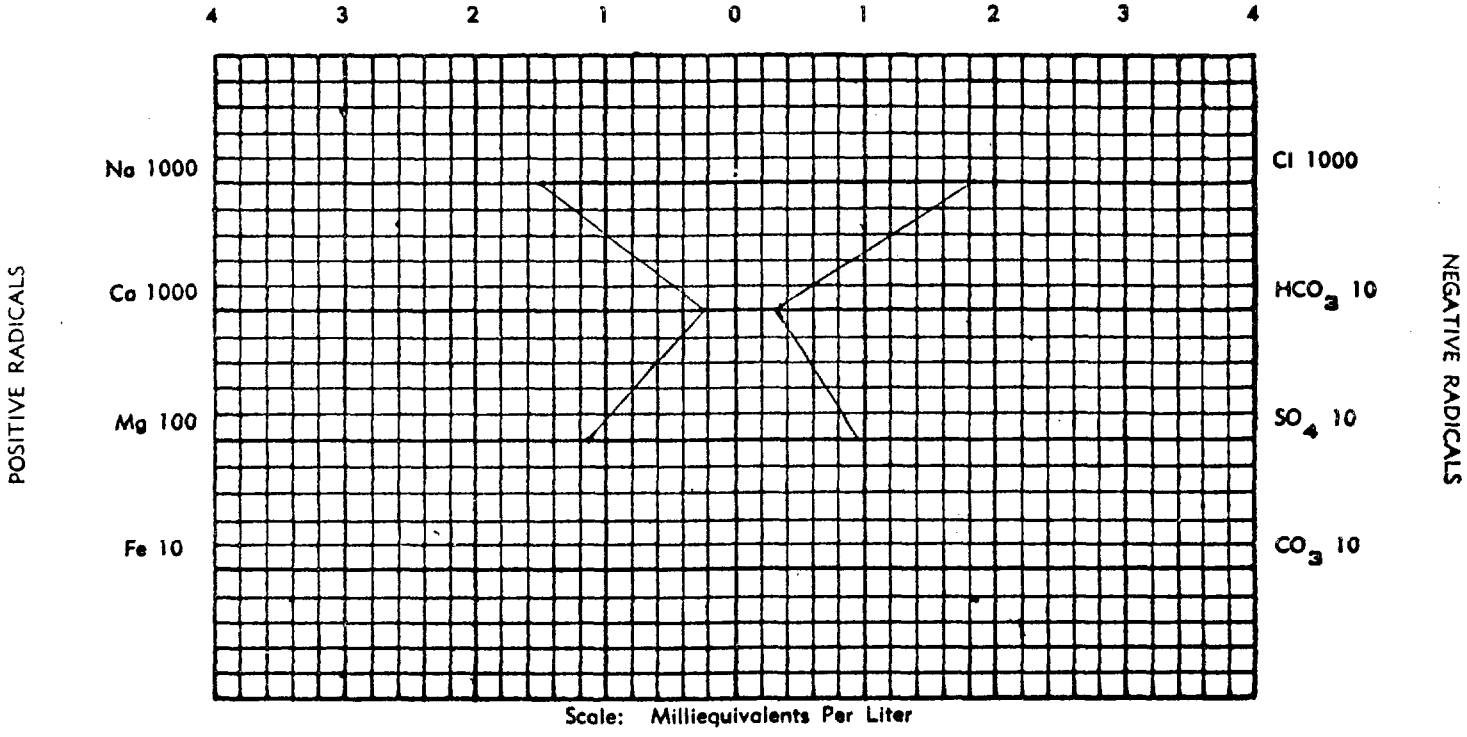
SPECIFIC GRAVITY: 1.08
pH: 6.9

PRINCIPAL CONSTITUENTS

RADICAL	PARTS PER MILLION	EQUIVALENTS PER MILLION	REACTING VALUE	PER CENT
SODIUM	34,550	34,550	1,500.07	40.86
CALCIUM	4,770	4,520	237.00	6.40
MAGNESIUM	1,418	2,836	116.40	3.14
CHLORIDE	65,400	65,400	1,840.00	49.64
SULPHATE	467	234	9.71	.26
BICARBONATE	229	62	3.76	.10

PRIMARY SALINITY:	80.92	PER CENT TOTAL REACTING VALUE
SECONDARY SALINITY:	18.88	PER CENT TOTAL REACTING VALUE
SECONDARY ALKALINITY:	.20	PER CENT TOTAL REACTING VALUE

General Remarks: from separator



Scale: Milliequivalents Per Liter

LAB. NO. WTB 1976

DISTRICT

ANALYZED BY GF

DISTRIBUTION

Signed Guinn Ferguson

Guinn Ferguson

3M 8-65 CJ