

Original

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no
- II. Operator: MWJ PRODUCING COMPANY
Address: 1804 First National Bank Bldg. Midland, Texas 79701
Contact party: Stan Venable or John Schlagal Phone: (915) 682-5216
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- * VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) underlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If ~~one~~ logs have been filed with the Division they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification
- I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- Name: Stan Venable Title Engineer
Signature: *Stan Venable* Date: 9/28/83
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

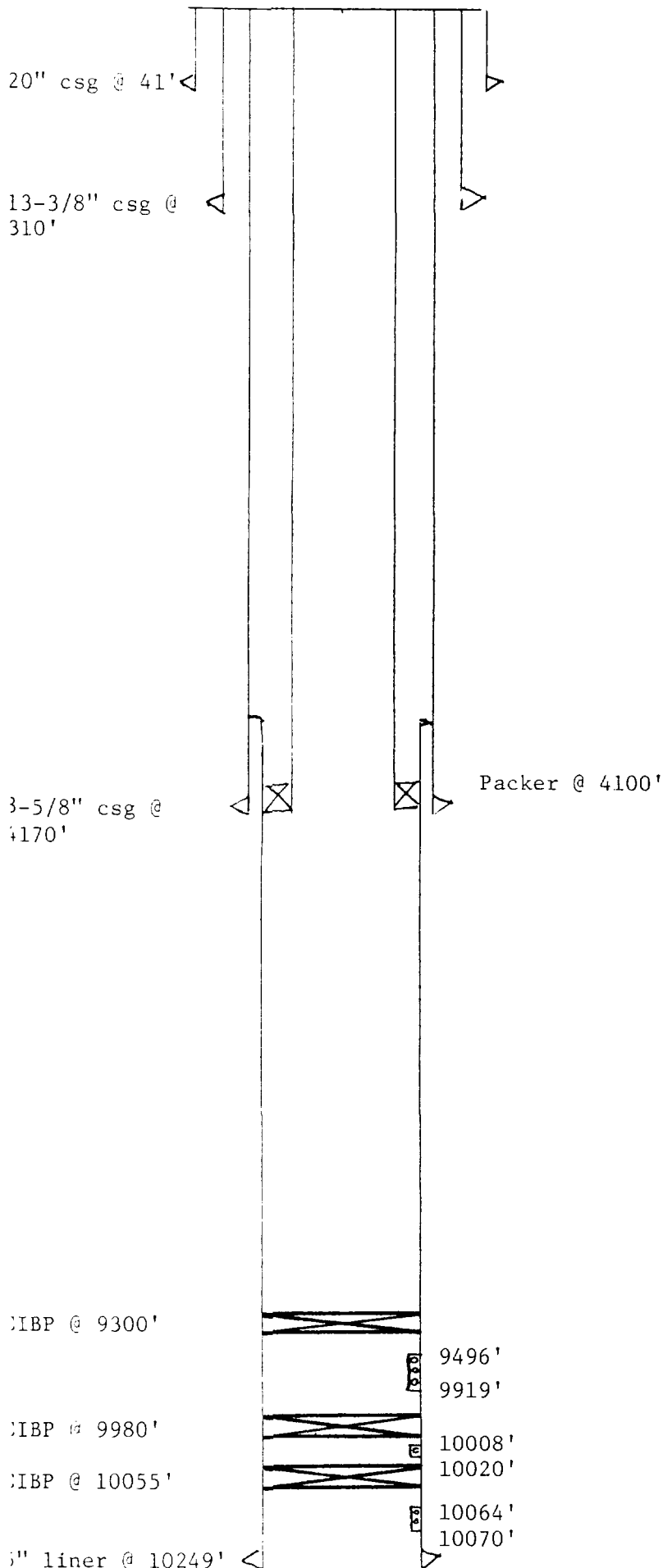
NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

MWJ PRODUCING COMPANY SAN STATE SWD #1 located 990' FNL & 660' FEL, Section 32, Township 14 South & Range 33 East, Lea County, New Mexico originally drilled as an oil well by Pogo Producing Company and taken over by MWJ Producing Company August 23, 1983.

SCHEMATIC



TUBULAR DATA

Conductor pipe:

20" csg set at 41'. Cemented with 3 yards of cement. Hole size 24".

Surface Casing:

13-3/8" 48# H-40 ST&C csg set at 310'. Cemented with 490 sx & circulated to surface. Hole size 17 1/2".

Intermediate Casing:

8-5/8" 24# K-55 ST&C csg set at 4170'. Cemented w/1810 sx and circulated to surface. Hole size 11".

Production Liner:

5 1/2" 17# K-55 & N-80 LT&C csg set at 10,249'. Cemented with 1690 sx. Hole size 7-7/8".

Tubing:

2-3/8" tubing which will be lined with a powdered epoxy coating. Tubing will be set in a Baker Model Packer at approximately 4100'.

Injection zone and interval:

San Andres - perforated injection interval 4100 to 5300'.

Next higher productive zone - none.

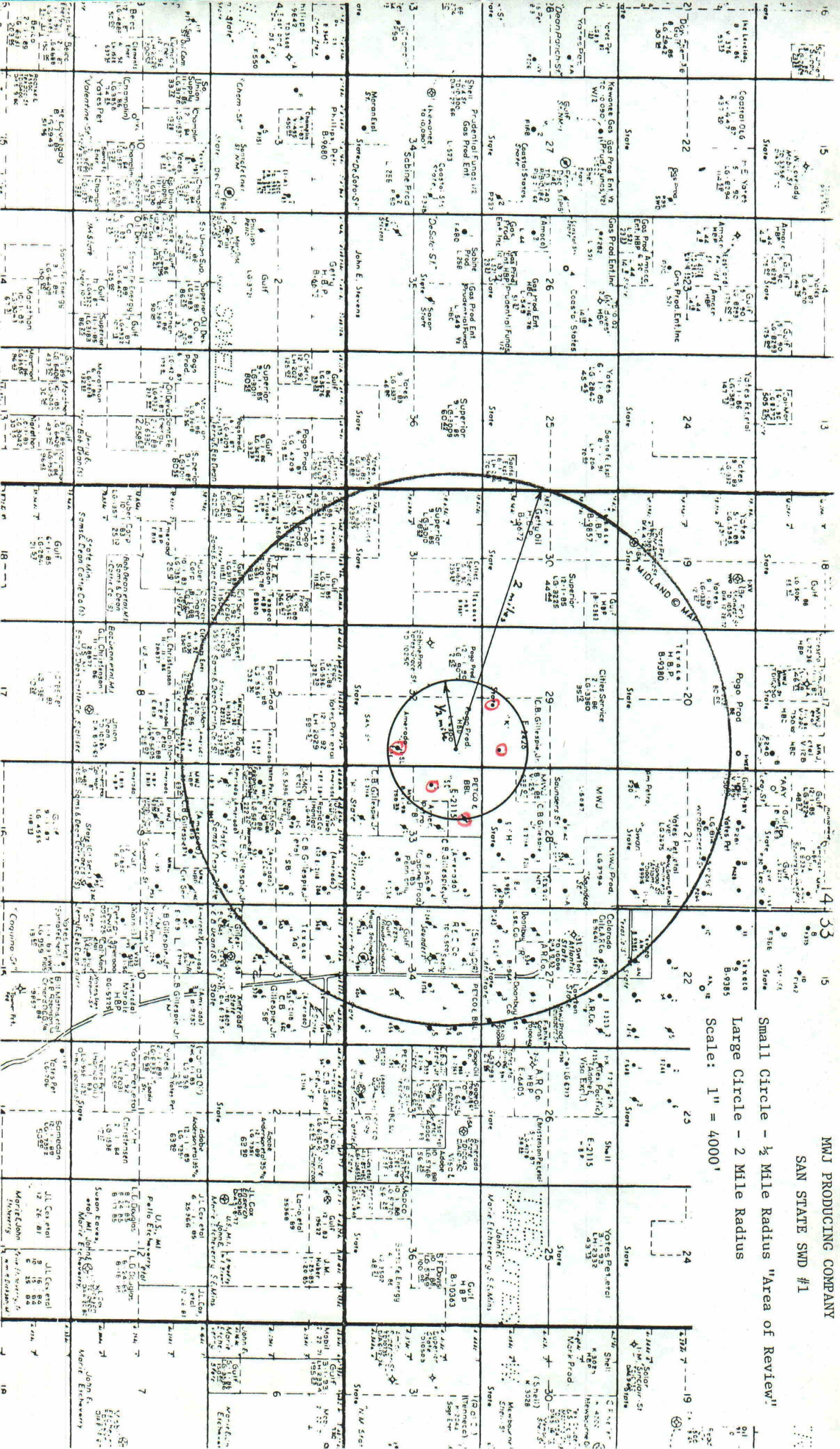
Next lower productive zone - Wolfcamp at 9175'

MMJ PRODUCING COMPANY
SAN STATE SWD #1

Small Circle - $\frac{1}{2}$ Mile Radius "Area of Review."

Large Circle - 2 Mile Radius

Scale: 1" = 4000'



OPERATOR: CHARLES D. GIBBONS, JR.

LEASE NAME: State "K"

FIELD NAME: Saunders Permo Upper Penn

LOCATION OF WELL: Sec 29, T-14S, R-33E, Lea County, New Mexico
660' FEL & 660' FSL

TYPE OF LEASE: State

WELL STATUS: Pumping Oil Well

PRODUCING FORMATION: Permo Penn

SPUD DATE: 1/9/59

COMPLETION DATE: 2/29/59

TOTAL DEPTH: 10,200'

PLUG BACK DEPTH: 10,108'

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD & TOP OF CEMENT</u>
13-3/8"	48#	341'	325 sx
8-5/8"	24# & 32#	4179'	1500 sx
5-1/2"	15.5# & 17#	10196'	300 sx

TUBING RECORD:

<u>SIZE</u>	<u>DEPTH</u>	<u>PACKER</u>
no record		

PERFORATIONS AND TREATMENT:

<u>INTREVAL</u>	<u>TREATMENT</u>
9944-76'	none

POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
8/28/60	Flwd 58 BOPD 50 BOPD GOR 995:1

OPERATOR: AMERADA HESS CORPORATION
LEASE NAME: State "SL" #1
FIELD NAME: Saunders Permo Upper Penn
LOCATION OF WELL: Sec 32, T-14S, R-33E, Lea County, New Mexico
660' FEL & 1980' FSL
TYPE OF LEASE: State
WELL STATUS: Plugged & Abandoned (12/20/69)
PRODUCING FORMATION: Permo Penn

SPUD DATE: 7/18/60 COMPLETION DATE: 8/28/60
TOTAL DEPTH: 10,104' PLUG BACK DEPTH: 10,095'

CASING RECORD:

SIZE	WEIGHT	DEPTH	CEMENTING RECORD & TOP OF CEMENT
13-3/8"	48#	296'	250 sx
8-5/8"	24# & 32#	4169'	1500 sx
5-1/2"	15.5 & 17#	10100'	600 sx

TUBING RECORD:

SIZE	DEPTH	PACKER
no record		

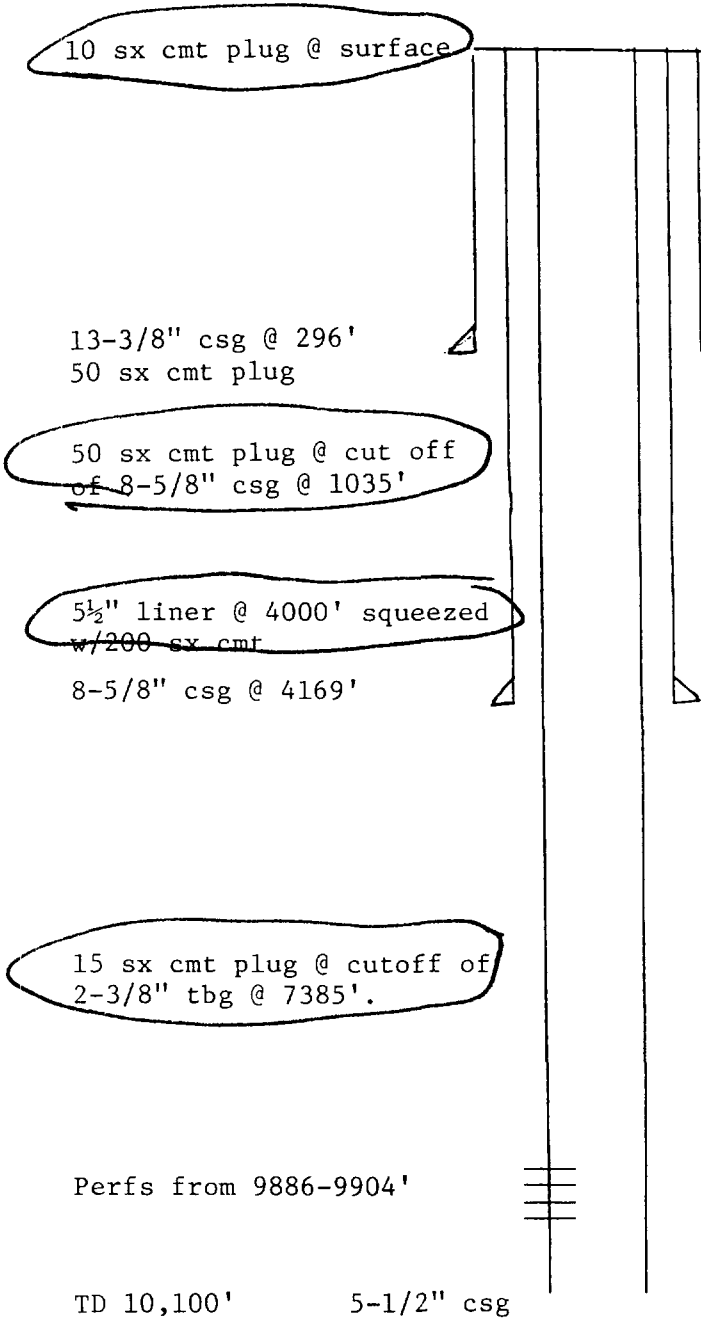
PERFORATIONS AND TREATMENT:

INTREVAL	TREATMENT
9886-9904'	500 gals acid

POTENTIAL TEST:

DATE	PRODUCTION
8/28/60	Pmpd 136 BOPD GOR 2090:1

SCHEMATIC



OPERATOR: PETROLEUM CORPORATION OF TEXAS
LEASE NAME: STATE "SC" #1
FIELD NAME: Saunders Permo Upper Penn
LOCATION OF WELL: Sec 33, T-14S, R-33E, Lea County, New Mexico
660' FNL & 1980' FWL
TYPE OF LEASE: State
WELL STATUS: Plugged & Abandoned (4/20/70)
PRODUCING FORMATION: Permo Penn
SPUD DATE: 6/13/59 COMPLETION DATE: 8/8/59
TOTAL DEPTH: 10,112' PLUG BACK DEPTH: 9891'

CASING RECORD:

SIZE	WEIGHT	DEPTH	CEMENTING RECORD & TOP OF CEMENT
13-3/8"	48#	342'	375 sx
8-5/8"	24# & 32#	4153'	1750 sx
5-1/2"	15.5# & 17#	10,110'	

TUBING RECORD:

SIZE	DEPTH	PACKER
no record		

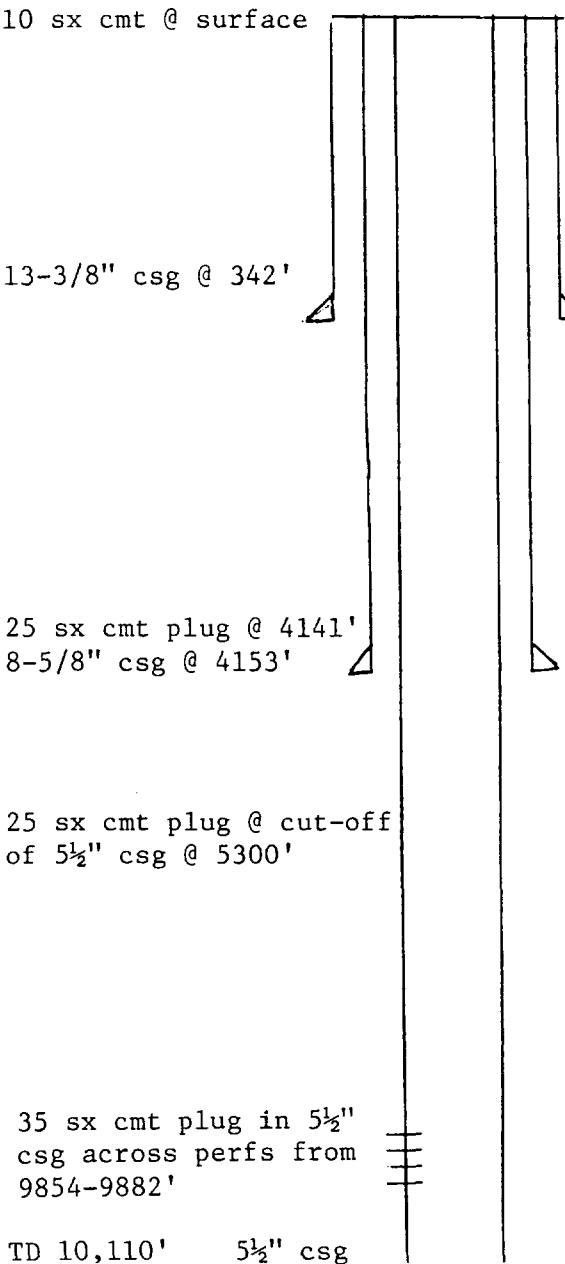
PERFORATIONS AND TREATMENT:

INTREVAL	TREATMENT
9854-82'	2000 gals acid

POTENTIAL TEST:

DATE	PRODUCTION
8/9/59	Pmpg 120 BOPD GOR 1480:1

SCHEMATIC



OPERATOR: Petroleum Corporation of Texas
LEASE NAME: STATE "SC" #2
FIELD NAME: Saunders Permo Upper Penn
LOCATION OF WELL: Sec 33, T-14S, R-33E, Lea County, New Mexico
1980' FNL& 660' FWL
TYPE OF LEASE: State
WELL STATUS: Pumping Oil Well
PRODUCING FORMATION: Permo-Penn

SPUD DATE: 4/26/80 COMPLETION DATE: 6/2/60
TOTAL DEPTH: 10,100' PLUG BACK DEPTH:

CASING RECORD:

<u>SIZE</u>	<u>WEIGHT</u>	<u>DEPTH</u>	<u>CEMENTING RECORD & TOP OF CEMENT</u>
13-3/8"	48#	306'	350 sx
8-5/8"	24# & 32#	4170'	668 sx
5-1/2"	15.5# & 17#	10096'	200 sx

TUBING RECORD:

<u>SIZE</u>	<u>DEPTH</u>	<u>PACKER</u>
no record		

PERFORATIONS AND TREATMENT:

<u>INTREVAL</u>	<u>TREATMENT</u>
9861-87'	500 gals acid

POTENTIAL TEST:

<u>DATE</u>	<u>PRODUCTION</u>
6/3/60	Flwg 300 BOPD GOR 1254:1

MWJ PRODUCING COMPANY

★ PETROLEUM PRODUCERS ★

1804 FIRST NATIONAL BANK BUILDING

MIDLAND, TEXAS 79701

TELEPHONE (915) 682-5216

VII.

SAN STATE SWD #1 PROPOSED OPERATION

MWJ PRODUCING COMPANY proposes to utilize the San State SWD to dispose of produced water from the Bough "B" & Bough "C" formations from several wells in the Baum and Saunders fields, Lea County, New Mexico. The proposed average volume of water to be injected is 1000 barrels per day. The maximum anticipated daily volume to be disposed of is 1500 barrels per day. The average anticipated injection rate is one barrel per minute at an average pressure of 500 psi. Maximum anticipated rate is $1\frac{1}{2}$ barrels per minute at a maximum pressure of 750 psi. The injection system would be classified as "open", as access to the system is obtainable through a valve. This valve remains closed at all times unless the disposal pump becomes inoperative.

MWJ PRODUCING COMPANY

★ PETROLEUM PRODUCERS ★

1804 FIRST NATIONAL BANK BUILDING

MIDLAND, TEXAS 79701

TELEPHONE (915) 682-5216

VIII.

SAN STATE SWD #1

GEOLOGICAL DATA

The injection zone in this proposed well is the San Andres Formation which is composed of dolomite, lime and limey sand. The top of the San Andres is at 4100', and the zone is approximately 1500' thick. We propose to dispose of water thru perforations from 4100' to 5300'.

The depth to the bottom of the underground source of drinking water is at 270', which is the base of the Ogallala formation, Tertiary age. There are two water wells within a one mile radius of the proposed disposal well. The closest well is located approximately 4600' west/northwest from the proposed disposal well.

Mr. Jim Wright of the New Mexico State Engineer's office gave us information on fresh water in the area: chlorides 40-77 ppm and conductivity 500-800. Chemical analysis on the water well could not be obtained, so we are including an analysis of Ogallala formation water from the area. The State Engineer's office assured me this information would be satisfactory to your commission.

Attached are the chemical analysis of the closest Glorietta water measured in our area from the New Mexico Oil and Gas Commission files.

Logs and test data were filed with the form C-105 when completed as an oil well by Pogo Producing Company.

RESULT OF WATER ANALYSES

JOHN FULLER

LABORATORY NO.

SAMPLE RECEIVED 1-20-83

RESULTS REPORTED.

COMPANY M W J PRODUCING CO. LEASE SAUNDER

FIELD OR DOG: SAUNDERS

SECTION _____ BLOCK _____ SURVEY _____ COUNTY LEA STATE NEW MEXICO

SOURCE OF SAMPLE AND DATE TAKEN:

WELL # 26-1 (1-19-83)

204

Chemical Analysis of water we will be pumping into

NO. OUR disposal well: San State #1 SWD

REMARKS:

PERMO. PENN.

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0237			
pH When Sampled				
pH When Received	6.7			
Bicarbonate as HCO_3	1830			
Supersaturation as CaCO_3				
Undersaturation as CaCO_3				
Total Hardness as CaCO_3	4025			
Calcium as Ca	1180			
Magnesium as Mg	261			
Sodium and/or Potassium	8978			
Sulfate as SO_4	3284			
Chloride as Cl	13,210			
Iron as Fe	19.7			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	28,743			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	2050			
Resistivity, ohms/m at 77° F.	0.26			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

SAMPLE TAKEN AT 9848-9894'

LABORATORY WATER ANALYSIS

No. W80-1074

To MWJ Production Company

Date 10-2-80

1804 1st National Bank 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.

Submitted by _____ Date Rec. 10-2-80

Well No Saunders "16" #1 Depth 4,943' Formation San Andres

County Lea Field Saunders Source DST #1

	<u>Sampler</u>	<u>Tool Top</u>	<u>Top of Fluid</u>
Resistivity	<u>0.096 @ 74°F.</u>	<u>0.100 @ 74°F</u>	<u>0.163 @ 74°F.</u>
Specific Gravity	<u>1.071</u>		
pH	<u>6.3</u>		
Calcium (Ca)	<u>3,000</u>		<u>*MPL</u>
Magnesium (Mg)	<u>1,200</u>		
Chlorides (Cl)	<u>61,000</u>	<u>57,500</u>	<u>26,500</u>
Sulfates (SO ₄)	<u>3,600</u>		
Bicarbonates (HCO ₃)	<u>390</u>		
Soluble Iron (Fe)	<u>40</u>		

Fluid Change - Res. @ 74°F. - 0.125 Chlorides, mpl - 40,000

Pit Sample - Res. @ 74°F. - 0.162 Chlorides, mpl - 27,000

Remarks: To the best of our knowledge, the chemical analysis of this San Andres water is the closest test of the disposal zone formation water for the proposed SWD well. This should be adequate for requirement 7-5 of form C-108. *Milligrams per liter

Respectfully submitted,

Analyst: Brewer

HALLIBURTON COMPANY

cc:

By W. L. Brewer
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 IT BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE.

TABLE 9A.--WATER-QUALITY DATA FOR ENVY AND LEA COUNTIES, NEW MEXICO, ARRANGED BY BOTH FORMATION SOURCE AND GEOGRAPHIC LOCATION.

LEA COUNTY

TABLE 9A.--WATER-QUALITY DATA FOR ENVY AND LEA COUNTIES, NEW MEXICO, ARRANGED BY BOTH FORMATION SOURCE AND GEOGRAPHIC LOCATION.

[illegible]

Glorieta:

TABLE 9A.--WATER-QUALITY DATA FOR FOOD AND LIFE COUNTIES, NEW MEXICO, ARRANGED BY BOTH FORMATING SOURCE AND GEOGRAPHIC LOCATION.

1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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TABLE 4A.--WATER-QUALITY DATA FOR RIVERS AND LAKES, NEW MEXICO, ARRANGED BY RIVER BASIN, SOURCE AND GEOGRAPHIC LOCATION.

[illegible]

MWJ PRODUCING COMPANY

★ P E T R O L E U M P R O D U C E R S ★

1804 FIRST NATIONAL BANK BUILDING

MIDLAND, TEXAS 79701

TELEPHONE (915) 682-5216

IX.

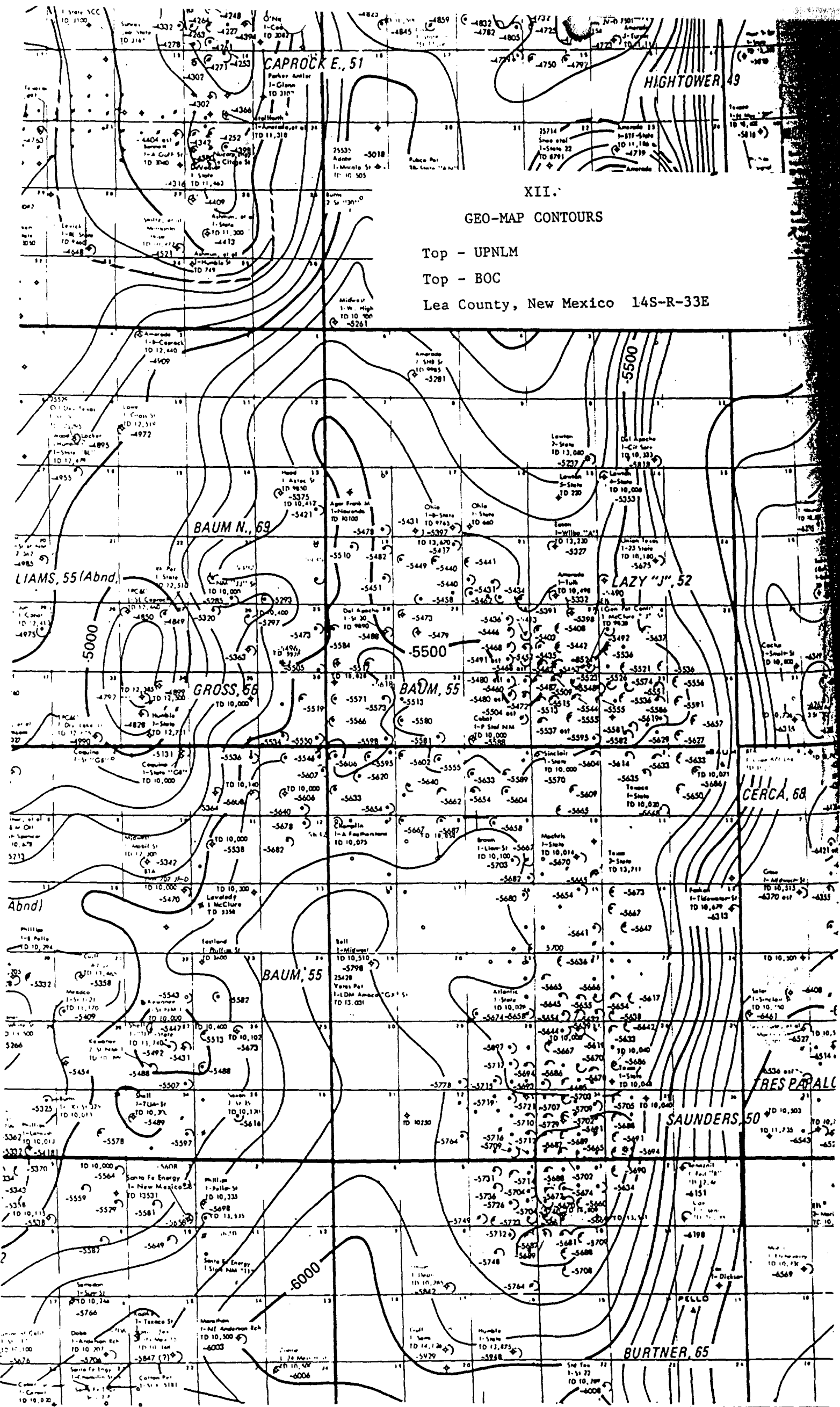
SAN STATE SWD #1

PROPOSED STIMULATION

MWJ PRODUCING COMPANY proposes to perforate from 4100-5300' and acidize with 3000 to 5000 gallons 15% acid, run and set a packer at 4100' and dispose of water into a non-productive zone.

XII.

We have examined available geological and engineering data and found no evidence of open faults or any other hydrologic connections between the disposal zone and any underground source of drinking water. (See attached Geo-Map contour maps).



XII.

GEO-MAP CONTOURS

Top - UPNLM

Top - BOC

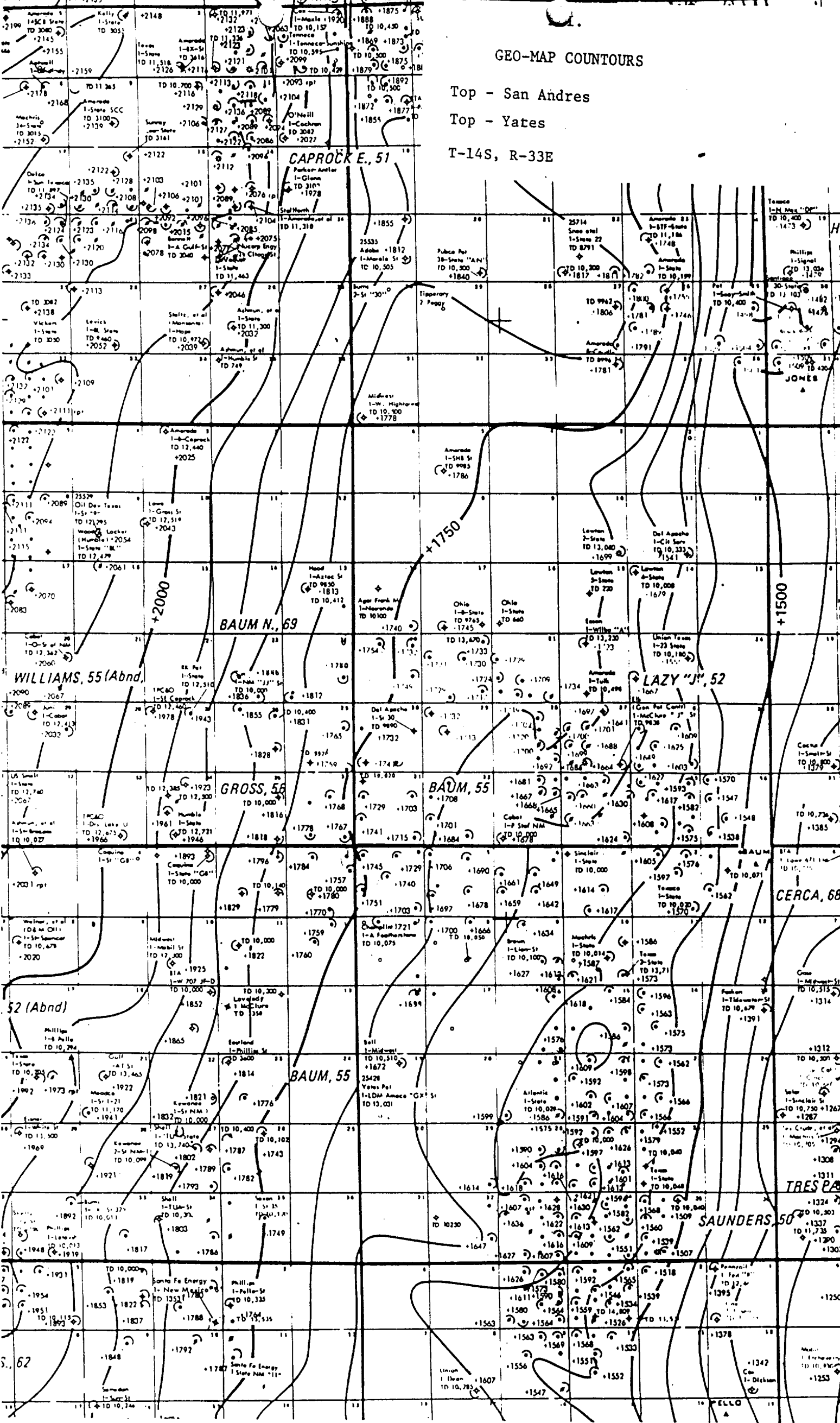
Lea County, New Mexico 14S-R-33E

GEO-MAP COUNTOURS

Top - San Andres

Top - Yates

T-14S, R-33E



MWJ PRODUCING COMPANY

★ PETROLEUM PRODUCERS ★

1804 FIRST NATIONAL BANK BUILDING

MIDLAND, TEXAS 79701

TELEPHONE (915) 682-5216

September 27, 1983

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

RE: MWJ Producing Company-San State SWD #1
Sec 32, T-14S, R-33E
Lea County, New Mexico
Application for Authorization to Inject
Form C-108

Gentlemen:

In connection with the above captioned, MWJ Producing Company is preparing to make a Salt Water Disposal well located 990' FNL & 660' FEL, Section 32, Township 14 South, Range 33 East, Lea County, New Mexico, which is in accordance with the State of New Mexico Rule 701-D.

Inasmuch as Petroleum Corporation of Texas is a leasehold operator within one-half mile of this location and has no objections to this location, we hereby request that you agree to the proposed variance at your earliest convenience.

Very truly yours,

MWJ PRODUCING COMPANY



Stan Venable

SV:pb

Approved by: PETROLEUM CORPORATION OF TEXAS

By: _____

Title: _____

Date: _____

MWJ PRODUCING COMPANY

★ PETROLEUM PRODUCERS ★

1804 FIRST NATIONAL BANK BUILDING

MIDLAND, TEXAS 79701

TELEPHONE (915) 682-5216

September 27, 1983

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

RE: MWJ Producing Company-San State SWD #1
Sec 32, T-14S, R-33E
Lea County, New Mexico
Application for Authorization to Inject
Form C-108

Gentlemen:

In connection with the above captioned, MWJ Producing Company is preparing to make a Salt Water Disposal well located 990' FNL & 660' FEL, Section 32, Township 14 South, Range 33 East, Lea County, New Mexico, which is in accordance with the State of New Mexico Rule 701-D.

Inasmuch as the State of New Mexico is the owner of the surface of the land on which the disposal well is to be located and has no objection to this location, we hereby request that you agree to the proposed variance at your earliest convenience.

Very truly yours,

MWJ PRODUCING COMPANY



Stan Venable

SV:pb

Approved by: COMMISSIONER OF PUBLIC LANDS

By: _____

Title: _____

Date: _____

MWJ PRODUCING COMPANY

★ PETROLEUM PRODUCERS ★

1804 FIRST NATIONAL BANK BUILDING

MIDLAND, TEXAS 79701

TELEPHONE (915) 682-5216

September 27, 1983

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

RE: MWJ Producing Company-San State SWD #1
Sec 32, T-14S, R-33E
Lea County, New Mexico
Application for Authorization to Inject
Form C-108

Gentlemen:

In connection with the above captioned, MWJ Producing Company is preparing to make a Salt Water Disposal well located 990' FNL & 660' FEL, Section 32, Township 14 South, Range 33 East, Lea County, New Mexico, which is in accordance with the State of New Mexico Rule 701-D.

Inasmuch as Charles B. Gillespie is a leasehold operator within one-half mile of this location and has no objections to this location, we hereby request that you agree to the proposed variance at your earliest convenience.

Very truly yours,

MWJ PRODUCING COMPANY



Stan Venable

SV:pb

Approved by: CHARLES B. GILLESPIE

By: _____

Title: _____

Date: _____

MWJ PRODUCING COMPANY

★ PETROLEUM PRODUCERS ★

1804 FIRST NATIONAL BANK BUILDING

MIDLAND, TEXAS 79701

TELEPHONE (915) 682-5216

September 27, 1983

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

RE: MWJ Producing Company-San State SWD #1
Sec 32, T-14S, R-33E
Lea County, New Mexico
Application for Authorization to Inject
Form C-108

Gentlemen:

In connection with the above captioned, MWJ Producing Company is preparing to make a Salt Water Disposal well located 990' FNL & 660' FEL, Section 32, Township 14 South, Range 33 East, Lea County, New Mexico, which is in accordance to the State of New Mexico Rule 701-D.

Inasmuch as Pogo Producing Company is a leasehold operator within one-half mile of this location and has no objections to this location, we hereby request that you agree to the proposed variance at your earliest convenience.

Very truly yours,

MWJ PRODUCING COMPANY



Stan Venable

SV:pb

Approved by: CITIES SERVICE

By: _____

Title: _____

Date: _____

MWJ PRODUCING COMPANY

★ PETROLEUM PRODUCERS ★

1804 FIRST NATIONAL BANK BUILDING

MIDLAND, TEXAS 79701

TELEPHONE (915) 682-5216

September 27, 1983

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

RE: MWJ Producing Company-San State SWD #1
Sec 32, T-14S, R-33E
Lea County, New Mexico
Application for Authorization to Inject
Form C-108

Gentlemen:

In connection with the above captioned, MWJ Producing Company is preparing to make a Salt Water Disposal well located 990' FNL & 660' FEL, Section 32, Township 14 South, Range 33 East, Lea County, New Mexico, which is in accordance to the State of New Mexico Rule 701-D.

Inasmuch as Pogo Producing Company is a leasehold operator within one-half mile of this location and has no objections to this location, we hereby request that you agree to the proposed variance at your earliest convenience.

Very truly yours,

MWJ PRODUCING COMPANY



Stan Venable

SV:pb

Approved by: POGO PRODUCING COMPANY

By: _____

Title: _____

Date: _____

LEGAL NOTICE

MWJ PRODUCING COMPANY, 1804 First National Bank Bldg., Midland, Texas 79701, has made application for authorization to inject salt water into a non-producing zone in Sec. 32, T-14S, R-33E, Lea County, New Mexico, located 990' FNL & 660' FEL in the San Andres Formation at a depth of 4100' to 5300', and with an expected injection rate of 20 BPH at 300 psi. Interested parties must file objections or requests for hearing with the OIL CONSERVATION DIVISION, P.O. Box 2088, Santa Fe, New Mexico 87601, within 15 days. For additional information, contact Stan Venable or John Schlagal, MWJ PRODUCING COMPANY, (915) 682-5216. Published in the Lovington Daily Leader October 3, 1983.

PS Form 3811, Dec. 1980

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

● **SENDER:** Complete items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).
☒ Show to whom and date delivered
☐ Show to whom, date, and address of delivery
 2. ☐ **RESTRICTED DELIVERY**
 (The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$

3. ARTICLE ADDRESSED TO:
 Commissioner of Public Lands
 P. O. Box 1148
 Santa Fe, New Mexico 87501

4. TYPE OF SERVICE: ARTICLE NUMBER
☐ REGISTERED ☐ INSURED
☒ CERTIFIED ☐ COD
☐ EXPRESS MAIL 4924047

(Always obtain signature of addressee or agent)
 I have received the article described above.
 SIGNATURE ☐ Addressee ☐ Authorized agent
Horacio Masera

5. DATE OF DELIVERY: *SEP 30 1983*

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS

PS Form 3811, Dec. 1980

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

● **SENDER:** Complete items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).
☒ Show to whom and date delivered
☐ Show to whom, date, and address of delivery
 2. ☐ **RESTRICTED DELIVERY**
 (The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$

3. ARTICLE ADDRESSED TO:
 Charles B. Gillespie
 P. O. Box 8
 Midland, Texas 79702

4. TYPE OF SERVICE: ARTICLE NUMBER
☐ REGISTERED ☐ INSURED
☒ CERTIFIED ☐ COD
☐ EXPRESS MAIL 4924046

(Always obtain signature of addressee or agent)
 I have received the article described above.
 SIGNATURE ☐ Addressee ☐ Authorized agent
Donna Howard

5. DATE OF DELIVERY: *SEP 30 1983*

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS

PS Form 3811, Dec. 1980

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

● **SENDER:** Complete items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).
☒ Show to whom and date delivered
☐ Show to whom, date, and address of delivery
 2. ☐ **RESTRICTED DELIVERY**
 (The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$

3. ARTICLE ADDRESSED TO:
 Cities Service
 P. O. Box 1919
 Midland, Texas 79702

4. TYPE OF SERVICE: ARTICLE NUMBER
☐ REGISTERED ☐ INSURED
☒ CERTIFIED ☐ COD
☐ EXPRESS MAIL 4924048

(Always obtain signature of addressee or agent)
 I have received the article described above.
 SIGNATURE ☐ Addressee ☐ Authorized agent
K. E. Hoelt

5. DATE OF DELIVERY: *SEP 29 1983*

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS

PS Form 3811, Dec. 1980

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

● **SENDER:** Complete items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).
☒ Show to whom and date delivered
☐ Show to whom, date, and address of delivery
 2. ☐ **RESTRICTED DELIVERY**
 (The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$

3. ARTICLE ADDRESSED TO:
 Pogo Producing Company
 P. O. Box 10340
 Midland, Texas 79702

4. TYPE OF SERVICE: ARTICLE NUMBER
☐ REGISTERED ☐ INSURED
☒ CERTIFIED ☐ COD
☐ EXPRESS MAIL 4924049

(Always obtain signature of addressee or agent)
 I have received the article described above.
 SIGNATURE ☐ Addressee ☐ Authorized agent
Donna Howard

5. DATE OF DELIVERY: *SEP 29 1983*

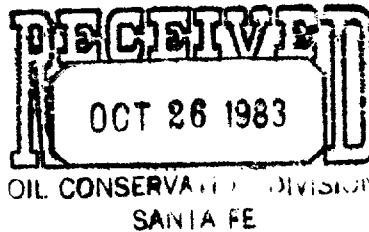
6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS

MWJ PRODUCING COMPANY

★ PETROLEUM PRODUCERS ★

RECEIVED
OCT 10 1983
M. W. J.



1804 FIRST NATIONAL BANK BUILDING
MIDLAND, TEXAS 79701
TELEPHONE (915) 682-5216
September 27, 1983

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

RE: MWJ Producing Company-San State SWD #1
Sec 32, T-14S, R-33E
Lea County, New Mexico
Application for Authorization to Inject
Form C-108

Gentlemen:

In connection with the above captioned, MWJ Producing Company is preparing to make a Salt Water Disposal well located 990' FNL & 660' FEL, Section 32, Township 14 South, Range 33 East, Lea County, New Mexico, which is in accordance to the State of New Mexico Rule 701-D.

Inasmuch as Pogo Producing Company is a leasehold operator within one-half mile of this location and has no objections to this location, we hereby request that you agree to the proposed variance at your earliest convenience.

Very truly yours,

MWJ PRODUCING COMPANY

A handwritten signature in cursive script, appearing to read "Stan Venable".

Stan Venable

SV:pb

Approved by: CITIES SERVICE

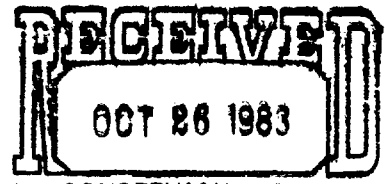
By: A handwritten signature in cursive script, appearing to read "K. Van Nieuwen".
Cities Service Oil & Gas Corp.

Title: _____

Date: 10/6/83

MWJ PRODUCING COMPANY

★ PETROLEUM PRODUCERS



OIL CONSERVATION DIVISION
SANTA FE

1804 FIRST NATIONAL BANK BUILDING

MIDLAND, TEXAS 79701

TELEPHONE (915) 682-5216

September 27, 1983

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

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Lea County, New Mexico
Application for Authorization to Inject
Form C-108

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Inasmuch as Petroleum Corporation of Texas is a leasehold operator within one-half mile of this location and has no objections to this location, we hereby request that you agree to the proposed variance at your earliest convenience.

Very truly yours,

MWJ PRODUCING COMPANY

Stan Venable

SV:pb

Approved by: PETROLEUM CORPORATION OF TEXAS

By: 1. J. W. Wainwright

Title: Asst. Pro Mgr.

Date: 10-11-83

MWJ PRODUCING COMPANY

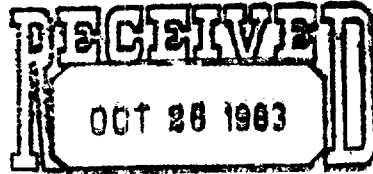
★ PETROLEUM PRODUCERS ★

1804 FIRST NATIONAL BANK BUILDING

MIDLAND, TEXAS 79701

TELEPHONE (915) 682-5216

September 27, 1983



OIL CONSERVATION DIVISION
SANTA FE

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

RE: MWJ Producing Company-San State SWD #1
Sec 32, T-14S, R-33E
Lea County, New Mexico
Application for Authorization to Inject
Form C-108

Gentlemen:

In connection with the above captioned, MWJ Producing Company is preparing to make a Salt Water Disposal well located 990' FNL & 660' FEL, Section 32, Township 14 South, Range 33 East, Lea County, New Mexico, which is in accordance to the State of New Mexico Rule 701-D.

Inasmuch as Pogo Producing Company is a leasehold operator within one-half mile of this location and has no objections to this location, we hereby request that you agree to the proposed variance at your earliest convenience.

Very truly yours,

MWJ PRODUCING COMPANY

A handwritten signature in cursive script that reads "Stan Venable".

Stan Venable

SV:pb

Approved by: POGO PRODUCING COMPANY

By: B. Williams

Title: Division Operations Manager

Date: October 18, 1983

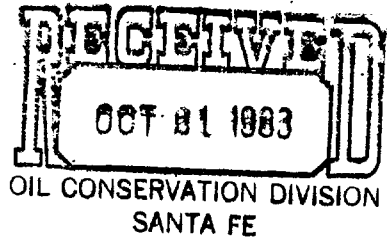
7

U.S. DEPARTMENT OF EDUCATION
NATIONAL INSTITUTE OF EDUCATION
5050
(5050 Inverse)

Breckenridge, Texas 76024

POSTAGE	\$
CERTIFIED FEE	\$
SPECIAL DELIVERY	\$
REGISTERED DELIVERY	\$
INSURANCE AND SIGNATURE REQUIRED	\$
HOW TO ARRIVE DATE AND ADDRESS OF RECIPIENT	\$
RETURN TO WORK ADDRESS OR HOME ADDRESS (PLEASE PRINT)	\$
ADDRESS OF DELIVERY ADDRESS (PLEASE PRINT)	\$
TOTAL POSTAGE AND FEES	\$
POSTMARK OR DATE	\$

OIL CONSERVATION DIVISION
DISTRICT I



OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

DATE October 18, 1983

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed NSP _____
Proposed SWD X _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

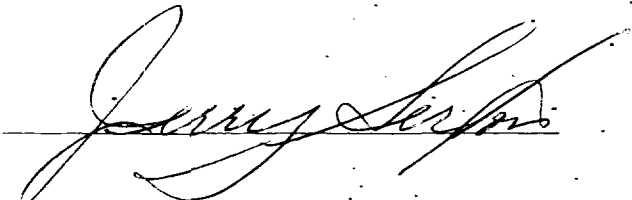
I have examined the application for the:

MWJ Producing Co.	San State	No. 1-A	32-14-33
Operator	Lease and Well No.	Unit, S - T - R	

and my recommendations are as follows:

Should go ahead and plug back to bottom of injection zone----J.S.

Yours very truly,


/mc