

REGIONAL OFFICE
MIDLAND, TEXAS 79701

P. O. BOX 4067
1509 WEST WALL STREET

TEL. 915-684-5584
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March 2, 1981

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

Attention: Mr. Joe D. Ramey
Director

RE: Salt Water Disposal
Lea County, New Mexico
For Sun Texas Company

Dear Mr. Ramey:

Enclosed is the N.M.O.C.C. Form C-108, Lease Water Analyses, location plat,
and wellbore sketches as required by the Commission.

Very truly yours,

SUN TEXAS COMPANY

A handwritten signature in cursive script that reads "Melvin L. Schroeder".

Melvin L. Schroeder
Regional Engineer

SJG:lw

Enclosure



A DIVISION OF SUN OIL COMPANY (DELAWARE)

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

Form O-101 REEIVED
HARRISON 11-68

MAR 10 1981

OPERATOR SUN TEXAS COMPANY		ADDRESS BOX 4067, MIDLAND, TEXAS 79704 SANTA FE	
LEASE NAME STATE "C" a/c - 1	WELL NO. 3	FIELD BAGLEY (SILURO-DEVONIAN)	COUNTY LEA
LOCATION UNIT LETTER L WELL IS LOCATED 1980 FEET FROM THE SOUTH LINE AND 660 FEET FROM THE WEST LINE, SECTION 2 TOWNSHIP 12-S RANGE 33-E			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13-3/8"	324'	350	Circ'd	
INTERMEDIATE	9-5/8"	3894'	2700	Circ'd	
LONG STRING	5 1/2"	11,034'	3000	Circ'd	
TUBING	3 1/2"	10,780'	NAME, MODEL AND DEPTH OF TUBING PACKER GUIBERSON UNITPACKER - VI @ 10,780'		
NAME OF PROPOSED INJECTION FORMATION DEVONIAN			TOP OF FORMATION 10,846'		BOTTOM OF FORMATION NOT PENETRATED
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?		PERFORATIONS OR OPEN HOLES		PROPOSED INTERVAL, TOP OF INJECTION	
TUBING		PERF & OPEN HOLE		10,846' - 11,370'	
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		SILURO - DEVONIAN PRODUCING WELL		NO	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF ON SCHEDULE EACH 10,907-994' - sqz'd w/50 sxs, 10,856-60' - Swb'd dry; 10,860-90' - open					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 150' (est'd)		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA Penn (Collier) - 9,950'		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA None	
ANTICIPATED DAILY INJECTION VOLUME (GALLS.)	MINIMUM 6,400	MAXIMUM 8,000	OPEN OR CLOSED TYPE SYSTEM closed	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 UNSUIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE -		WATER TO BE DISPOSED OF yes		NATURAL WATER IN DISPOSED ZONE yes	ANALYSIS ATTACHED? yes
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) LESSOR: Marsha Hilburn Mathers, P. O. Box 303, Caprock, New Mexico 88213					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Amerada Hess, P. O. Box 840, Seminole, Texas 79360					
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			
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-1)?		FLAT 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.

B. A. Wickert Regional Operations Supt. 2-24-81
(Signature) (Title) (Date)

NOTE: Should notices from 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.

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

110005, NEW MEXICO 88210

LABORATORY WATER ANALYSIS

No. WBL-171To Sun-Texas Oil CompanyDate 2-25-81Box 4067Midland, TexasATTN: Scott Glaser

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Submitted by _____

Date Rec. 2-24-81Well No. As Marked

Depth _____

Formation Siluro-DevonianCounty LeaField Bagley

Source _____

	State "C" a/c #1	State "D" a/c #1
Resistivity	0.153 @ 74°F.	0.153 @ 74°F.
Specific Gravity	1.035	1.035
pH	6.1	6.0
Calcium (Ca)	2,250	2,350
Magnesium (Mg)	90	60
Chlorides (Cl)	26,000	26,500
Sulfates (SO ₄)	2,300	2,400
Bicarbonates (HCO ₃)	580	570
Soluble Iron (Fe)	Nil	Nil

*MPL

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Brewer

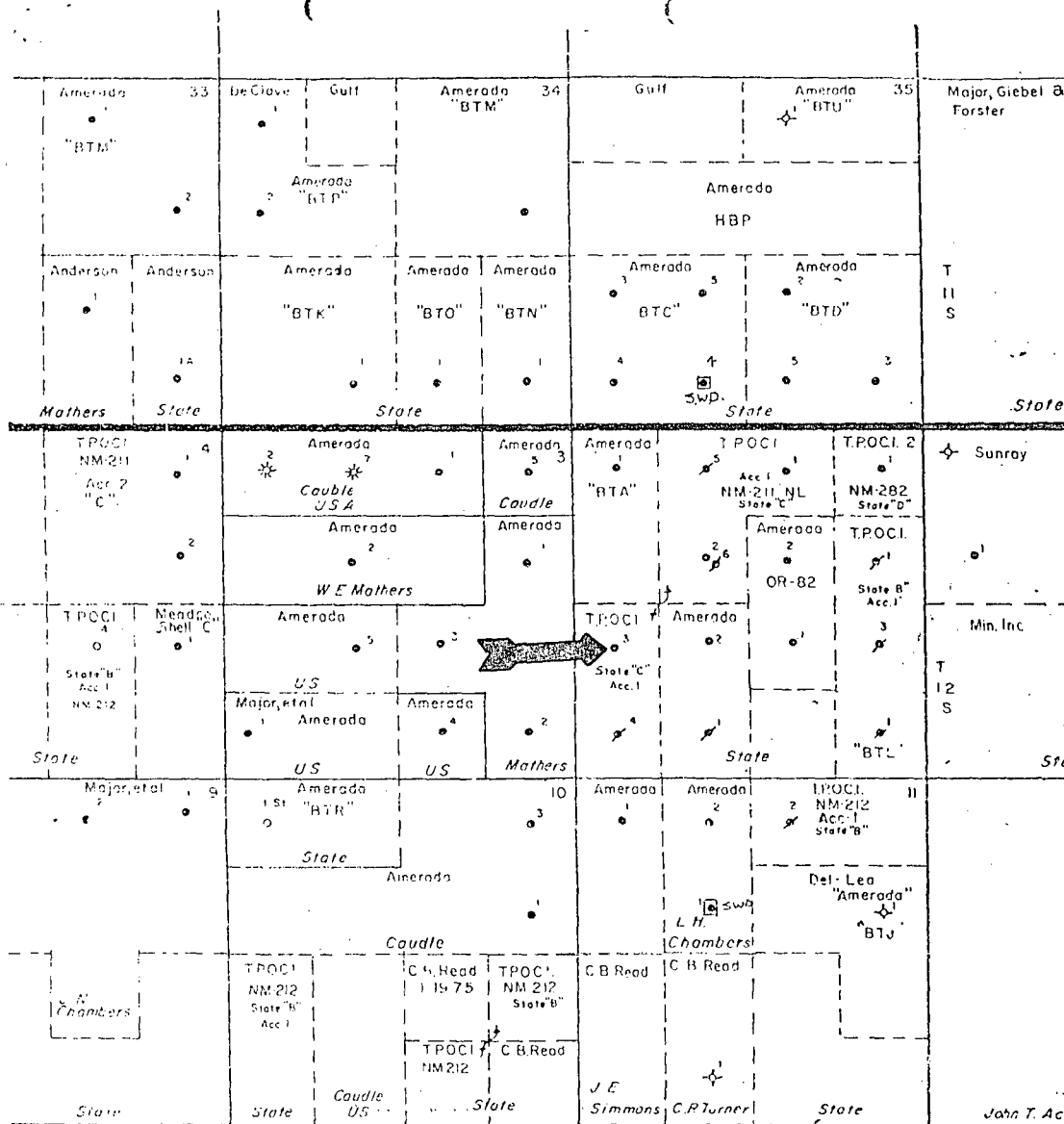
HALLIBURTON COMPANY

cc: Elmer Teel, Sun-Texas Oil Co.,
Box 1255, Eunice, N.M.By W. L. Brewer

CHEMIST

NOTICE

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ARROW - S.W.D.W. CONVERSION

TEXAS PACIFIC OIL COMPANY, INC.
BAGLEY POOL AREA
Lea County New Mexico

T 114 12.5 - R 33 E

C 1 S
Scale 1" = 2000'

Date 12.11.71
By J.P.L.

Elevation: 4254 DF
Datum: Zero @ DF - 12 AGL

State C-72-1 No. 3
1780 FSL & 640' Fwi
Sect. 2, T-12-S, R-33-E
Bayley (Devonian) Field
Lea County, New Mexico

13 3/8" 48" H-40 @ 324'
Cmt'd w/ 350 SY - Circ'd

9 7/8" 36" J-55 @ 3894'
Cmt'd w/ 2700 SY - Circ'd

Present
Well bore
3-1-81

9950'
2 3/8" tubing w/ Pkr
& Hyd. Pump @ 10,780'

10850'
10,890'
Cmt. Re-lin @ 10,900' →
10950'

10974'
OPBTD @ 11025'
(11025' hole w/ 11025' cmt)

Perf'd 45 PF @ 9950'
Circ'd Cmt w/ 2800 SY

OTOC @ 9980' after 200 SY
(Temp. Surv.)

Perf'ns 10856-60 (25 PF)
300 SY

Perf'ns 10860-90 (15 PF)

Perf'ns 10907-94 (510 J Shols)
300 SY w/ 50 SY

5 1/2" 17" H-80 @ 11034'
Cmt'd w/ 200 SY
11034' Shole to 11033'

Elevation: 4254 DF
Datum: Zero @ DF-12' AGL

State: N.M.
1780' F31 & 660' F.W.L.
Sect. 2, T-12-S, R-33-E
Badley (Devonian) Field
Lea County, New Mexico

13 7/8" 48" H-40 @ 324'
Cmt'd w/ 350 SY - Circ'd

PROPOSED
S.W.D.W.
CONVERSION

9 7/8" 36" J-55 @ 3894'
Cmt'd w/ 2700 SY - Circ'd

3 1/2" tubing w/ PKR
@ 10,750'

9950'

10,850'

10,890'

10,907'

10,974'

Perf'd 45 PF @ 9950'
Circ'd Cmt w/ 2800 SY

OTOC @ 9980' after 200 SY
(Temp. Surv.)

Perf'ns 10850-60 (25 PF)
5018' DRY

Perf'ns 10860-70 (25 PF)

Perf'ns 10907-94 (510 J Shots)
Sgt'd w/ 50 SY

5 1/2" 17" N-80 @ 11,034'
Cmt'd w/ 200 SY
Perf'd FCE Shoc to 11,033'

DRILL OUT TO
TD @ ~11,370'