

NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR J. M. Huber Corporation		ADDRESS 1900 Wilco Building, Midland, Texas	
LEASE NAME Griffin	WELL NO. 1	FIELD McDonald (Penn)	COUNTY Lea
LOCATION UNIT LETTER A ; WELL IS LOCATED 660' North LINE AND 660' FEET FROM THE East LINE, SECTION 4 TOWNSHIP 14S RANGE 36E NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13-3/8"	423'	350'	Surface	Circulated
INTERMEDIATE	9-5/8"	4575'	450'	3740'	Calculated
LONG STRING	5-1/2"	10,700'	340'	9000'	Calculated
TUBING	2-3/8"	10,177'	NAME, MODEL AND DEPTH OF TUBING PACKER Guiberson Uni-Pack IV at 10,177'		
NAME OF PROPOSED INJECTION FORMATION Cisco			TOP OF FORMATION 10,521'		BOTTOM OF FORMATION 11,140'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLES? Open Hole	PROPOSED INTERVAL(S) OF INJECTION 10,870'-10,895' & 11,045'-11,093'		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil Producer				HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? Yes
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH 10,203'-210', 10,266', 10,275', 10,293', 10,305', 10,502'-511'					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 2500' Top of anhydrite		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None Known		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA None Known	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 200	MINIMUM 450	MAXIMUM 450	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) 250
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		ARE WATER ANALYSES ATTACHED? Yes
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) James A. Foster, Jr., 1901 W. Avenue "J", Lovington, New Mexico 88260					

LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL

Getty Oil Company, P. O. Box 1231, Midland, Texas 79701

Geo-Dynamics Oil & Gas, Inc., 1100 Western United Life Building, Midland, TX.

Samedan Oil Corporation, 900 Wall Towers East, Midland, Texas 79701

AVE 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
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.

(Signature)

Senior Petroleum Engineer

(Title)

6/25/80

(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.

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(15) State Dolco 1-18-78 L-4078 3421 State Del Apache Superior-St. T-10, 600 DAS 5-64 State Shell 1-18-78 K-5626 3421 State Southland Roy. 8-20-78 L-1085 2537 State La. Ld. & Exp. L. Freeport Oil 10-15-78 L-1579 3634 State G.M. Cone 12-1-80 L-1448 108 State ARCA 2-21-77 K-6709 1912 State G.M. C. 1-1-80 L-1448 108	State 17 Dolco 9-19-77 L-237 1212 State 16 Dolco 9-19-77 L-237 1212 State 13 Shell 8-15-75 K-5066 2753 State 15 La. Ld. & Exp. L. Freeport Oil 11-19-78 L-1654 1712 State G.M. Cone 8-7-78 L-1383 1627 State ARCA 2-21-77 K-6709 1912 State G.M. C. 1-1-80 L-1448 108	State 20 Read & Stevens 7-18-77 L-111 H 2 State 21 Read & Stevens 7-18-77 L-111 H 2 State 22 L.C. Morris 2-1-84 L-1535 1506 State 23 Amoco 9-17-78 L-1468 204 State G.M. Cone 11-1-83 L-1383 1627 State ARCA 2-21-77 K-6709 1912 State G.M. C. 1-1-80 L-1448 108	State 29 Read & Stevens 7-18-77 L-111 H 2 State 30 Read & Stevens 7-18-77 L-111 H 2 State 31 Read & Stevens 7-18-77 L-111 H 2 State 32 Read & Stevens 7-18-77 L-111 H 2 State 33 Read & Stevens 7-18-77 L-111 H 2 State 34 Read & Stevens 7-18-77 L-111 H 2 State 35 Read & Stevens 7-18-77 L-111 H 2 State 36 Read & Stevens 7-18-77 L-111 H 2
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P. O. BOX 1468
MONAHANS, TEXAS 79756
PHONE 943-3234 OR 563-1040

Martin Water Laboratories, Inc

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4821

RESULT OF WATER ANALYSES

LABORATORY NO. 380369

SAMPLE RECEIVED 3-31-80

RESULTS REPORTED 4-8-80

TO: Mr. Robert Setzler
1900 Wilco Building, Midland, Texas

COMPANY J.M. Huber Corporation LEASE Griffen #1

FIELD OR POOL _____
SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE New Mexico

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Produced water - taken from Griffen #1. 3-23-80

NO. 2 _____

NO. 3 _____

NO. 4 _____

REMARKS: _____

CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.1296			
pH When Sampled				
pH When Received	5.9			
Bicarbonate as HCO ₃	171			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	55,000			
Calcium as Ca	16,300			
Magnesium as Mg	3,463			
Sodium and/or Potassium	54,734			
Sulfate as SO ₄	587			
Chloride as Cl	122,863			
Iron as Fe	40.0			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	198,118			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	0.058			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Amine, as Tretolite KW-147	73.0			

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks We are not familiar with the circumstances herein:
but if we can be of any assistance in interpreting the results, please contact us.

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DATE 5/2/80

HUBER W.I. 36.3321

DEAL NO. 14-N-95-A

PROPERTY NO. 14P2850

PROPOSED
WELL DATA SHEET

Lease Griffin

Well No. 1

Location 660' FN & EL. Sec. 4, T-14S. County Lea State New Mexico

R-36E

Date Completed 7/29/71

K.B. Elev. 3960'

Formation(s) Bough "A"

G.L. Elev. 3948'

D.F. Elev. 3959'

Flowing 179 BOPD, 0 BWPD, 580 MCFD
gas FTP 350 psi, 24/64" choke, GOR
1623:113-3/8" H40.48 #
Gr. Thd.
Set @ 423'
w/ 350 Sks.
Hole Size 17 1/2"
Cement Circulated

Top Cement @ 3740'

9-5/8" 36 & 40 #
Gr. K55 Thd. ST&C
Set @ 4575'
w/ 450 Sks.
Hole Size 12 1/4"

Top Cement @ 9000'

10,203' 2 HPF
10,210'10,266' 2 HPF
10,275'10,293' 2 HPF
10,305'Baker Model "D" parallel string
anchor w/J-Latch sub
10,502'
10,511'Baker "A-2" Lockset pkr.
5 1/2" 15,5617 #
Gr. K55 Thd. ST&C
Set @ 10,700'
w/ 340 Sks.
Hole Size 8-3/4"

Cmt. Plug 11,150 to 11,250'

Plug Back Total Depth 11,150' (est.)
Total Depth 11,474'
Well Name Griffin #1Initial Treatments: Perf. 2 hpf
10,502'-10,511', ran tbg. w/pkr.,
swab tested, made total of 122 BO
& 157 BW, set BP @ 10,630' (lost),
set BP @ 10,435' w/10' cmt. on top
PSTD 10,425' perforated 2 hpf
10,293'-10,305', ran tbg. w/pkr.
Acidized w/1000 gals. 15% acid @
5500 psi @ 1 1/2-2 BPM, swab tested
w/no show oil/gas. POH, perf. 2
hpf 10,266'-10,275'. Ran tbg. w/
pkr. & retrievable BP. Set BP @
10,284', acidized perfs. 10,266'-
10,275' w/1000 gals. 15% acid @
5900 -6000 psi @ 2 BPM. Swabbed
dry, no show. POH, perf. 2 hpf
10,203'-10,210', re-set BP at
10,284'. Re-acidized perfs. 10,266'-
thru 10,275' w/1000 gals. 15% acid
at 4000-3100 psi. Avg. 4325 psi @
2 BPM. Swabbed, kicked off flowed
7-16 BOPH, ran BHPBU, re-treated
perfs. 10,203'-10,210' w/3000 gals
retarded 20% acid @ 4300-3800 psi
@ 2.8-2.9 BPM. Swabbed 1 hr.,
kicked and flowed. Killed well. POH
with tbg., pkr. & retrievable BP.
Ran 328 jts. tbg. w/Guiberson Uni-
pkr. IV. Set at 10,177'. SN @
10,146'. Swabbed & kicked off wellWorkover - 2/5/79 to 2/27/79
Lufkin 320-256-120 Pumping Equip.Tbg. set @ 10,348'
Guiberson Tbg. Anchor set @10,316'
SN set at 10,312'Workover - 2/1/80 Tubing set at
10,363', rods and pump @ 10,327'.

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