

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form C-107
5-1-61

Operator Phillips Petroleum Company		County Graves	Date March 2, 1970
Address Room B-2, Phillips Building Odessa, Texas 79760		Well No. Marley A	Well No. 1
Location of Well P	Section 3	Range 11-E	Range 31-E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES ☐ NO ☒
2. If answer is yes, identify one such instance: Order No. : Operator Lease, and Well No.:

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Wildcat--San Andres	--	San Andres
b. Top and Bottom of Pay Section (Perforations)	4148-4165'	--	4344-64', 4780-4800'
c. Type of production (Oil or Gas)	Oil	--	Salt Water Disposal
d. Method of Production (Flooding or Artificial Lift)	Artificial Lift	--	Gravity Injection

4. The following are attached. (Please check YES or NO.)

- | | | |
|-------------------------------------|--------------------------|---|
| ☒ | ☐ | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbochargers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. |
| ☒ | ☐ | b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease. |
| ☒ | ☐ | c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.* |
| ☒ | ☐ | d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.) |

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

American Lease Corporation, Box 2040, Tulsa, Oklahoma 74102

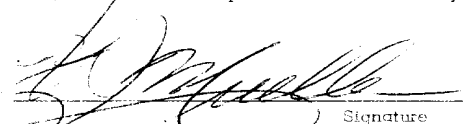
Par American Petroleum Corporation, Box 1410, Oil and Gas Bldg., Ft. Worth, Texas 76101

First Oil Company, 1401 Elm, Dallas, Texas 75202

Calco Oil Company of California, 300 Security National Bldg., Roswell, New Mexico 88201

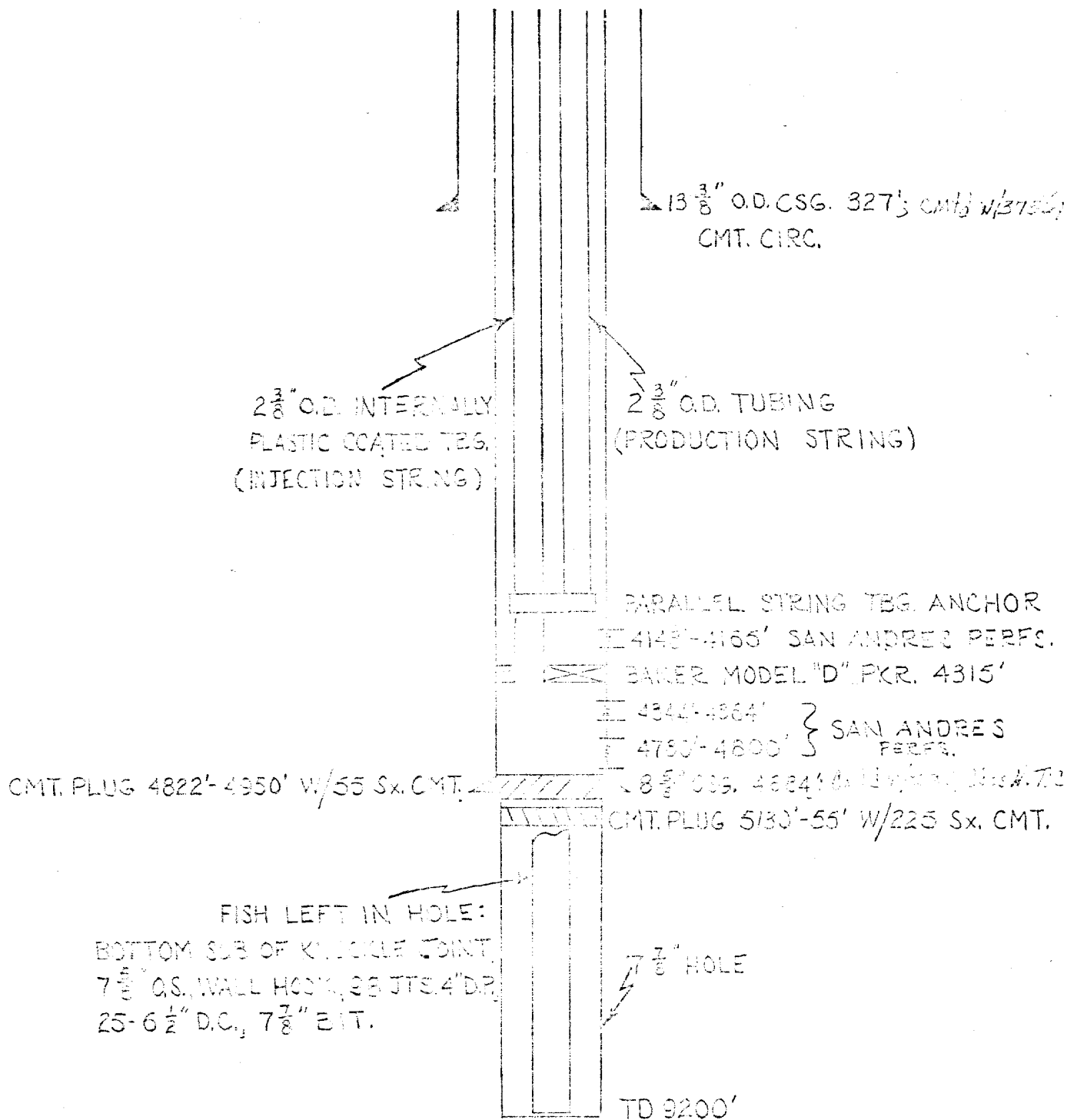
6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☒ NO ☐ . If answer is yes, give date of such notification March 4, 1970

CERTIFICATE: I, the undersigned, state that I am the duly authorized agent of the Phillips Petroleum Co. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.
*Waivers requested by copy this form and transmittal letter.


Signature **W. J. Mueller**

*Should waivers from the offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest or request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard perforation unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.



BARTLESVILLE, OKLAHOMA

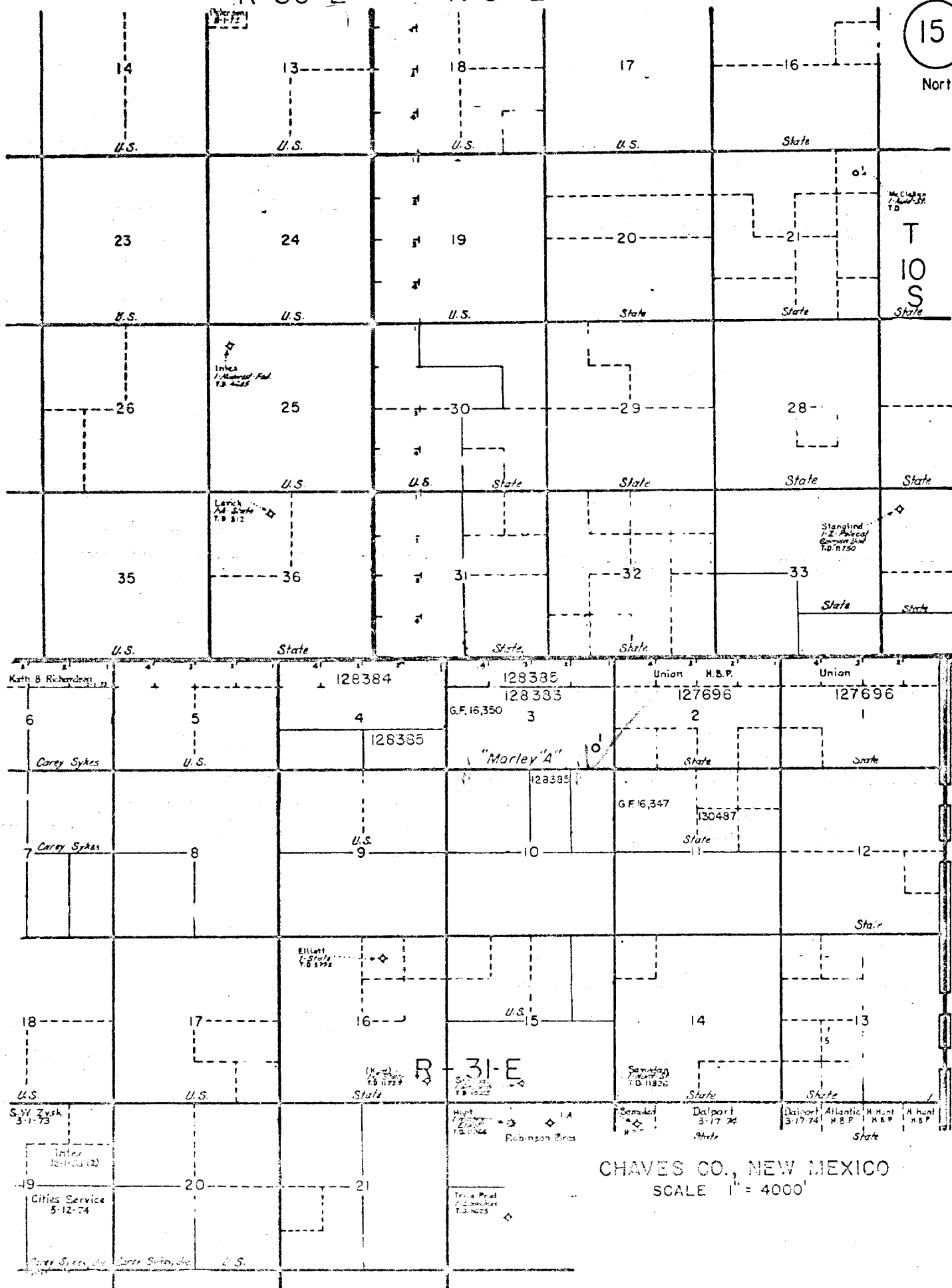
		WELL NO. 1	
		FR. 1.2.3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48.49.50.51.52.53.54.55.56.57.58.59.60.61.62.63.64.65.66.67.68.69.70.71.72.73.74.75.76.77.78.79.80.81.82.83.84.85.86.87.88.89.90.91.92.93.94.95.96.97.98.99.100.101.102.103.104.105.106.107.108.109.110.111.112.113.114.115.116.117.118.119.120.121.122.123.124.125.126.127.128.129.130.131.132.133.134.135.136.137.138.139.140.141.142.143.144.145.146.147.148.149.150.151.152.153.154.155.156.157.158.159.160.161.162.163.164.165.166.167.168.169.170.171.172.173.174.175.176.177.178.179.180.181.182.183.184.185.186.187.188.189.190.191.192.193.194.195.196.197.198.199.200.201.202.203.204.205.206.207.208.209.210.211.212.213.214.215.216.217.218.219.220.221.222.223.224.225.226.227.228.229.230.231.232.233.234.235.236.237.238.239.240.241.242.243.244.245.246.247.248.249.250.251.252.253.254.255.256.257.258.259.260.261.262.263.264.265.266.267.268.269.270.271.272.273.274.275.276.277.278.279.280.281.282.283.284.285.286.287.288.289.290.291.292.293.294.295.296.297.298.299.300.301.302.303.304.305.306.307.308.309.310.311.312.313.314.315.316.317.318.319.320.321.322.323.324.325.326.327.328.329.330.331.332.333.334.335.336.337.338.339.340.341.342.343.344.345.346.347.348.349.350.351.352.353.354.355.356.357.358.359.360.361.362.363.364.365.366.367.368.369.370.371.372.373.374.375.376.377.378.379.380.381.382.383.384.385.386.387.388.389.390.391.392.393.394.395.396.397.398.399.400.401.402.403.404.405.406.407.408.409.410.411.412.413.414.415.416.417.418.419.420.421.422.423.424.425.426.427.428.429.430.431.432.433.434.435.436.437.438.439.440.441.442.443.444.445.446.447.448.449.450.451.452.453.454.455.456.457.458.459.460.461.462.463.464.465.466.467.468.469.470.471.472.473.474.475.476.477.478.479.480.481.482.483.484.485.486.487.488.489.490.491.492.493.494.495.496.497.498.499.500.501.502.503.504.505.506.507.508.509.510.511.512.513.514.515.516.517.518.519.520.521.522.523.524.525.526.527.528.529.530.531.532.533.534.535.536.537.538.539.540.541.542.543.544.545.546.547.548.549.550.551.552.553.554.555.556.557.558.559.560.561.562.563.564.565.566.567.568.569.570.571.572.573.574.575.576.577.578.579.580.581.582.583.584.585.586.587.588.589.590.591.592.593.594.595.596.597.598.599.600.601.602.603.604.605.606.607.608.609.610.611.612.613.614.615.616.617.618.619.620.621.622.623.624.625.626.627.628.629.630.631.632.633.634.635.636.637.638.639.640.641.642.643.644.645.646.647.648.649.650.651.652.653.654.655.656.657.658.659.660.661.662.663.664.665.666.667.668.669.670.671.672.673.674.675.676.677.678.679.680.681.682.683.684.685.686.687.688.689.690.691.692.693.694.695.696.697.698.699.700.701.702.703.704.705.706.707.708.709.710.711.712.713.714.715.716.717.718.719.720.721.722.723.724.725.726.727.728.729.730.731.732.733.734.735.736.737.738.739.740.741.742.743.744.745.746.747.748.749.750.751.752.753.754.755.756.757.758.759.760.761.762.763.764.765.766.767.768.769.770.771.772.773.774.775.776.777.778.779.780.781.782.783.784.785.786.787.788.789.790.791.792.793.794.795.796.797.798.799.800.801.802.803.804.805.806.807.808.809.810.811.812.813.814.815.816.817.818.819.820.821.822.823.824.825.826.827.828.829.830.831.832.833.834.835.836.837.838.839.840.841.842.843.844.845.846.847.848.849.850.851.852.853.854.855.856.857.858.859.860.861.862.863.864.865.866.867.868.869.870.871.872.873.874.875.876.877.878.879.880.881.882.883.884.885.886.887.888.889.890.891.892.893.894.895.896.897.898.899.900.901.902.903.904.905.906.907.908.909.910.911.912.913.914.915.916.917.918.919.920.921.922.923.924.925.926.927.928.929.930.931.932.933.934.935.936.937.938.939.940.941.942.943.944.945.946.947.948.949.950.951.952.953.954.955.956.957.958.959.960.961.962.963.964.965.966.967.968.969.970.971.972.973.974.975.976.977.978.979.980.981.982.983.984.985.986.987.988.989.990.991.992.993.994.995.996.997.998.999.1000.1001.1002.1003.1004.1005.1006.1007.1008.1009.1010.1011.1012.1013.1014.1015.1016.1017.1018.1019.1020.1021.1022.1023.1024.1025.1026.1027.1028.1029.1030.1031.1032.1033.1034.1035.1036.1037.1038.1039.1040.1041.1042.1043.1044.1045.1046.1047.1048.1049.1050.1051.1052.1053.1054.1055.1056.1057.1058.1059.1060.1061.1062.1063.1064.1065.1066.1067.1068.1069.1070.1071.1072.1073.1074.1075.1076.1077.1078.1079.1080.1081.1082.1083.1084.1085.1086.1087.1088.1089.1090.1091.1092.1093.1094.1095.1096.1097.1098.1099.1100.1101.1102.1103.1104.1105.1106.1107.1108.1109.1110.1111.1112.1113.1114.1115.1116.1117.1118.1119.1120.1121.1122.1123.1124.1125.1126.1127.1128.1129.1130.1131.1132.1133.1134.1135.1136.1137.1138.1139.1140.1141.1142.1143.1144.1145.1146.1147.1148.1149.1150.1151.1152.1153.1154.1155.1156.1157.1158.1159.1160.1161.1162.1163.1164.1165.1166.1167.1168.1169.1170.1171.1172.1173.1174.1175.1176.1177.1178.1179.1180.1181.1182.1183.1184.1185.1186.1187.1188.1189.1190.1191.1192.1193.1194.1195.1196.1197.1198.1199.1200.1201.1202.1203.1204.1205.1206.1207.1208.1209.1210.1211.1212.1213.1214.1215.1216.1217.1218.1219.1220.1221.12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R-30-E

R-31-E

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North





PHILLIPS PETROLEUM COMPANY

002 11 1970

ODESSA, TEXAS 79760
PHILLIPS BUILDING FOURTH & WASHINGTON

EXPLORATION & PRODUCTION DEPARTMENT

March 3, 1970

7-5: Marley-A Well No. 1
(Unit P, Sec. 3, 11-S, 31-E)
Wildcat, Chaves County,
New Mexico

File: W6-Ba-187-70

New Mexico Oil Conservation Commission (3)
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. A. L. Porter, Jr.
Secretary-Director

Gentlemen:

We respectfully request administrative action on the following proposals concerning our captioned well:

1. Application for Discovery Allowable and Creation of a New Pool -- Form C-109, 2-mile area production map, and electric logs are enclosed. There is no production of oil or gas within the statutory radius surrounding this well. Further, a copy of our notice of intent and request for waivers of objections is attached. This notice was sent to all offset operators.
2. Application to Dispose of Salt Water by Injection Into a Porous Formation Non-productive of Oil or Gas -- Form C-108, 2-mile area production map, electric logs, water analyses, and diagrammatic sketch of well equipment/completion are enclosed. Produced water from San Andres perforations 4148-65' will be re-injected into lower San Andres perforations 4344-4600'. A copy of our notice of intent and request for waivers of objections is attached. This notice was sent to all offset operators.
3. Application for Multiple Completion -- This is a conventional oil/salt water disposal completion using dual tubing strings and a reservoir production separation packer set in the casing. Attached are application Form C-107, diagrammatic sketch of equipment/completion, location plat, electric logs, and a copy of our notice of intent and request for waivers of objections as was directed to all offset operators.

The area plat, electric logs, list of offset operators and surface owner, and diagrammatic sketches referred to herein are common to all proposals.

Your consideration of these proposals will be appreciated.

Yours very truly,

PHILLIPS PETROLEUM COMPANY

F. F. Lovering

F. F. Lovering, Manager
Southwestern Region

HM:rm
Attachment

cc: New Mexico Oil Conservation Comm. (2), Box 1930, Hobbs, New Mexico 88240
Offset operators and surface owner -- list attached

Phillips Petroleum Company
Harley-A Well No. 1
Chaves County, New Mexico

Surface Owner:

Mr. Robert C. Marley
900 W. Matthews
Roswell, New Mexico 88201

Offset Operators:

Amerada Hess Corporation
P. O. Box 2040
Tulsa, Oklahoma 74102

Pan American Petroleum Corporation
Oil and Gas Building
P. O. Box 1410
Fort Worth, Texas 76101

Hunt Oil Company
1401 Elm
Dallas, Texas 75202

Union Oil Company of California
300 Security National Building
Roswell, New Mexico 88201

NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION FOR DISCOVERY ALLOWABLE AND CREATION OF A NEW POOLForm C-109
Adopted 9-1-66NOTE: This form is to be filed and attachments made in accordance with the provisions of Rule 509.
If discovery is claimed for more than one zone, separate forms must be filed for each.

Operator Phillips Petroleum Company		Address Rm. B-2, Phillips Bldg., Odessa, Texas 79760	
Lease Name Marley A		Well No. 1	County Chaves
Well Location Unit Letter <u>P</u> ; <u>660</u> Feet from The <u>south</u> Line and <u>660</u> Feet From the <u>east</u> Line of Section <u>3</u> , Township <u>11-S</u> , Range <u>31-E</u> , NMPM			
Suggested Pool Names (List in order of preference) 1. <u>Tower (San Andres)</u> 2. 3.			
Name of Producing Formation Upper San Andres		Perforations 4148' to 4165'	Date of Filing Form C-104 2-11-70
Was "Affidavit of Discovery" Previously Filed For This Well in this Pool? No		If Yes, Give Date of Filing --	Date Well was Spudded 12-15-70
Date Compl. Ready to Prod. 2-9-70			
Total Depth 9200	Plugged Back Depth 4822	Depth Casing Shoe 4884	Tubing Depth 4124
Elevation (Gr., DF, RKB, RT, etc.) 4506' Ground			
Oil Well Potential (Test to be taken only after all load oil has been recovered) <u>154</u> Bbls. Oil Per Day Based On <u>64</u> Bbls In <u>10</u> Hours; <u>230</u> Bbls Water Per Day Based On <u>6</u> Bbls In <u>10</u> Hours; Gas Production During Test: <u>TSTM</u> MCF; Gas-Oil Ratio: <u>TSTM</u> Method Of Producing: <u>Swabbing</u> Chk. Size <u>--</u>			

NEAREST PRODUCTION TO THIS DISCOVERY (Includes past and present oil or gas producing areas and zones whether this discovery is based on horizontal or vertical separation):

Pool Name T.V. Penn-Gas	Name of Producing Formation Morrow Sand	Top of Pay 10867	Bottom of Pay 10963	Currently Producing? Yes
Horizontal Distance and Direction from Subject Discovery Well to the Nearest Well in this Pool 12,300 feet southwest		Vertical Distance from Subject Discovery Zone to Producing Interval this Pool 6719 feet		

NEAREST COMPARABLE PRODUCTION (Includes past and present oil or gas production from this pay or formation only):

Pool Name Mescalero (San Andres)	Top of Pay 4031	Bottom of Pay 4131	Currently Producing? Yes
Horizontal Distance and Direction from Subject Discovery Well to the Nearest Well in this Comparable Pool 9 miles east and 2 miles north			

Is "County Deep" Discovery Allowable Requested for Subject Discovery Well? No	If Yes, Give Name, Location, and Depth of Next Deepest Oil Production in this County --
--	--

Is the Subject Well Multiple Completion? *yes	Is Discovery Allowable Requested for other Zone(s)? No	If Yes, Name all Such Formations *Upper San Andres 4148-65'--oil producing; Lower San Andres 4344-84' and 4780-4800'--non-productive--to be used for salt water disposal.
--	---	---

LIST ALL OPERATORS OWNING LEASES WITHIN ONE MILE OF THIS WELL (Attach additional sheet if necessary)

NAME	ADDRESS
Amerada Hess Corporation	Box 2040, Tulsa, Oklahoma 74102
Pan American Petroleum Corporation	Oil and Gas Division Box 1410, Ft. Worth, Texas 76101
Hunt Oil Company	1401 Elm, Dallas, Texas 75202
Union Oil Company of California	300 Security National Bldg., Roswell, N. M. 88201

Attach evidence that all of the above operators have been furnished a copy of this application. Any of said operators who intends to object to the designation of the subject well as a discovery well, eligible to receive a discovery allowable, must notify the appropriate District Office and the Santa Fe Office of the Commission of such intent in writing within ten days after receiving a copy of this application.

Remarks:

CERTIFICATION

I hereby certify that all rules and regulations of the New Mexico Oil Conservation Commission have been complied with, with respect to the subject well, and that it is my opinion that a bona fide discovery of a hitherto unknown common source of oil supply has been made in said well. I further certify that the discovery allowable for the subject well, if authorized, will be produced from the subject zone in this well only. Further, that the information given herein and attached hereto is true and complete to the best of my knowledge and belief.

W. J. Mueller

Associate Reservoir Engr.

3-9-70

Signature

Position

Date

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-124
(Rev. 9-53)

COMPANY Midland Petroleum Company BOTTOM HOLE PRESSURES Well - San Antonio POOL

POOL DATUM 1957 NOMINAL SHUT-IN TIME — HRS: AVERAGE POOL TEMPERATURE 104 °F

LEASE	WELL NO.	UNIT	S-T-R	DATE PRESS. RUN	TIME S.I. HRS./MINS.	D.F. ELEV.	GAUGE DEPTH		GRADIENT TBG.	B.H.P. @		B.H.P. @ POOL DATUM	PREVIOUS TEST @ DATUM PRESS.	DATE
							DEPTH			GAUGE DEPTH				
Mar-29-64	1	P	3-11-51	3-4-70	20 4400	4504.1'	3310		—	1027		—	—	—
							4210		.491	1469		—	—	—
							4310		.510	1580		—	—	—
							4157		—	1432		—	—	—

FEB 10 1970

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U.S.G.S.	
LAND OFFICE	
OPERATOR	

Form C-105
Revised 1-1-65NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease	
State ☐	Fee ☒
5. State Oil & Gas Lease No.	

1a. TYPE OF WELL		OIL WELL ☒		GAS WELL ☐		DRY ☐		OTHER ☐	
b. TYPE OF COMPLETION		NEW WELL ☒		WORK OVER ☐		DEEPEN ☐		PLUG BACK ☐	
				DIFF. RESVR. ☐		OTHER ☐			
2. Name of Operator Phillips Petroleum Company									
3. Address of Operator Room D-2, Phillips Bldg., Odessa, Texas 79760									
4. Location of Well UNIT LETTER <u>P</u> LOCATED <u>660</u> FEET FROM THE <u>south</u> LINE AND <u>660</u> FEET FROM <u>the east</u> LINE OF SEC. <u>3</u> TWP. <u>11S</u> RGE. <u>31E</u> NMPM									
15. Date Spudded 12-15-69		16. Date T.D. Reached 1-23-70		17. Date Compl. (Ready to Prod.) 2-7-70		18. Elevations (DF, RKB, RT, GR, etc.) 4546 Gr.		19. Elev. Casinghead ---	
20. Total Depth 9200		21. Plug Back T.D. 4322		22. If Multiple Compl., How Many ---		23. Intervals Drilled By Rotary Tools C-9200'		Cable Tools ---	
24. Producing Interval(s), of this completion - Top, Bottom, Name 4143-4165 San Andres								25. Was Directional Survey Made No	
26. Type Electric and Other Logs Run compensated density, lateral, microlaterolog Schlumberger, integrated log-sonic, log-3, downhole neutron								27. Was Well Cored No	
28. CASING RECORD (Report all strings set in well)									
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD			AMOUNT PULLED		
13-3/8"	43 1/2	327'	17-1/2"	375 ex OL.H, 25 Gnd., 1/4" class/ft.			---		
8-5/8"	32 1/2, 24 1/2	4324'	11"	375 ex OL.H, 25 Gnd., 1/4" class/ft.			---		
29. LINER RECORD									
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	30. TUBING RECORD				
---					SIZE	DEPTH SET	PACKER SET		
---					2-7/8"	4124'	4113'		
31. Perforation Record (Interval, size and number) 4143-65, 17', 34 holes 2 - 1/2" holes/ft.					32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.				
					DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
					4143-4165		1000 gals 15% acid		
							3000 gals 25% acid		
33. PRODUCTION									
Date First Production 2-7-70		Production Method (Flowing, gas lift, pumping - Size and type pump) Swabbing					Well Status (Prod. or Shut-in) Prod.		
Date of Test 2-9-70	Hours Tested 10	Choke Size ---	Prod'n. For Test Period ---	Oil - Bbl. 64	Gas - MCF TSTN	Water - Bbl. 96	Gas - Oil Ratio ---		
Flow Tubing Press. ---	Casing Pressure ---	Calculated 24-Hour Rate ---	Oil - Bbl. 154	Gas - MCF TSTN	Water - Bbl. 200	Oil Gravity - API (Corr.) 13.3 API			
34. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented							Test Witnessed By C.W. Rossman		
35. List of Attachments Logs forwarded direct by logging company.									
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.									
SIGNED <u>E.J. Mueller</u>			TITLE <u>Associate Reservoir Eng.</u>				DATE <u>2-10-70</u>		

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Antelope <u>Antelope</u> <u>1545'</u>	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____ <u>2223'</u>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____ <u>2223'</u>	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____ <u>3123'</u>	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorieta _____ <u>4213'</u>	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinbry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____ <u>6372'</u>	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____ <u>7214'</u>	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____ <u>8217'</u>	T. _____	T. Chinle _____	T. _____
T. Penn. <u>Perm.</u> <u>8723'</u>	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) <u>9121'</u>	T. _____	T. Penn. "A" _____	T. _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1550	1550	Redbeds.				
1550	3545	1995	Anhydrite & lime.				
3545	4125	1380	Lime & dolomite.				
4125	7335	3210	Lime.				
7335	7935	600	Lime & shale.				
7935	8375	440	Lime & dolomite.				
8375	8723	348	Lime & chert.				
8723	9220	497	Lime & shale.				

NEW MEXICO OIL CONSERVATION COMMISSION

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

Applicant Phillips Petroleum Company		City Em. B-2, Phillips Bldg., Odessa, Texas 79760	
Lessee Name Marley A	Well No. 1	Field Wildcat--San Andres	County Chaves
Location UNIT LETTER P WELL IS LOCATED 660 FEET FROM THE south LINE AND 660 FEET FROM THE east LINE. SECTION 3 TOWNSHIP 11-S RANGE 31-E NMPM.			

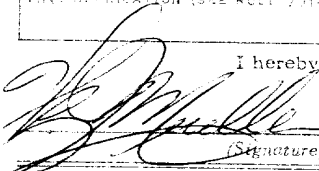
CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS OF CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13-3/8"	327'	375 sx class H	Surface	Circulation
INTERMEDIATE	--	--	--	--	--
LONG STRING	8-5/8"	4884'	350 sx class H 20% BD & 400 sx class H	2600'	Temperature Survey
TUBING	2-3/8"	4315'	Baker Model 415-D @ 4315'		

NAME OF PROPOSED INJECTION FORMATION Lower San Andres		TOP OF FORMATION 4315'	BOTTOM OF FORMATION 4882'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLES? Perforations	PROPOSED INTERVAL(S) OF INJECTION 4344-64', 4780-4800'
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Exploratory--oil		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 Upper San Andres zone perforated 4148-4165' and currently oil producing.					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 300		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 4165'		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA None	
ANTICIPATED DAILY INJECTION VOLUME (BBL/S.) 100	MINIMUM 100	MAXIMUM 500	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Gravity	APPROX. PRESSURE (PSI) None
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) Fee--Surface Owner--Robert C. Marley, 900 W. Matthews, Roswell, New Mexico 88201			
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF MILE OF THIS INJECTION WELL			
Amerada-Hess Corporation, Box 2040, Tulsa, Oklahoma 74102			
Pan American Petroleum Corporation, Box 1410, Oil & Gas Bldg., Ft. Worth, Texas 76101			
Tract Oil Company, 1401 Elm, Dallas, Texas 75202			
Union Oil Company of California, 300 Security National Bldg., Roswell, New Mexico 88201			
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER	
		Yes	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?		PLAT OF AREA	
		Yes	
		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL	
		Yes	
		THE NEW MEXICO STATE ENGINEER	
		No	
		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.


 W. J. Mueller
 (Signature)

 Associate Reservoir Engineer
 (Title)

3-4-70

(Date)

NOTE: Should writers 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.

HALLIBURTON DIVISION LABORATORY
HALLIBURTON COMPANY
MIDLAND DIVISION

LABORATORY WATER ANALYSISNo. W1-49-70To Phillips Petroleum CompanyDate 2/17/70Box 2130Hobbs, New MexicoAttn: Mr. Mossman

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. 2/9/70Well No. Marley A # 1Depth 4148 - 4165Formation San AndresCounty ChavesField W/CSource SwabResistivity050 @ 75 FSpecific Gravity 1.165pH 5.8Calcium (Ca) 15,400

*MPL

Magnesium (Mg) 4,800Chlorides (Cl) 153,000Sulfates (SO₄) 1,000Bicarbonates (HCO₃) _____Soluble Iron (Fe) Nil

Remarks: _____

*Milligrams per liter

Respectfully submitted,

Analyst: _____

cc: _____

HALLIBURTON COMPANY

By Robert L. Lunsford

DIVISION 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.

HALLIBURTON DIVISION LABORATORY
HALLIBURTON COMPANY
MIDLAND DIVISION

LABORATORY WATER ANALYSIS No. W1-42-70

To Phillips Petroleum Company

Date 2/5/70

Box 2130

Hobbs, New Mexico

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Submitted by _____ Date Rec. 2/5/70

Well No. Marley-A # 1 Depth 4,344 - 4,364 Formation San Andres

County Chaves Field W/C Source Swab

Resistivity	<u>.052 @ 72 F</u>	
Specific Gravity	<u>1.144</u>	
pH	<u>6.2</u>	
Calcium (Ca)	<u>11,350</u>	<u>*MPL</u>
Magnesium (Mg)	<u>720</u>	
Chlorides (Cl)	<u>127,000</u>	
Sulfates (SO ₄)	<u>1,200</u>	
Bicarbonates (HCO ₃)	<u>488</u>	
Soluble Iron (Fe)	<u>180</u>	

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Robert Lensford

cc:

HALLIBURTON COMPANY

By Robert Lensford
DIVISION CHEMIST

NOTICE

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HALLIBURTON DIVISION LABORATORY
HALLIBURTON COMPANY
MIDLAND DIVISION

LABORATORY WATER ANALYSIS No. W1-52-70

To Phillips Petroleum Company
Box 2130
Hobbs, New Mexico
Attn: Mr. Mossman

Date 2/17/70

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Submitted by Mr. Mossman Date Rec. 2/14/70
Well No. Marley A # 1 Depth 4780 - 4800 Formation San Andres
County Chaves Field W/C Source Swab

Resistivity	<u>.047 @ 75 F</u>	
Specific Gravity	<u>1.182</u>	
pH	<u>0.4</u>	
Calcium (Ca)	<u>7,600</u>	<u>*MPL</u>
Magnesium (Mg)	<u>2,040</u>	
Chlorides (Cl)	<u>170,000</u>	
Sulfates (SO ₄)	<u>Heavy</u>	
Bicarbonates (HCO ₃)	<u>0</u>	
Soluble Iron (Fe)	<u>Heavy</u>	

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: _____
cc: _____

HALLIBURTON COMPANY

By Robert L. Ladd
DIVISION CHEMIST

NOTICE

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