Case No.
8150
Large Exhibits

N.M.M.C.F. MICROGRAPHICS
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PROG=GASPAC NM=0700 JOB NO= PK 417 REQ BY=RMD DATE=02/06/67
INDIAN BASIN GAS WELL SPACING =640 AC

SPACING		NET PAY THICKNESS	POROSITY	WATER SATURATION	PERMEABILITY	INITIAL RESERVOIR PRESSURE	RESERVOIR TEMPERATURE
1. WELLS IN	640.0 ACRES	142.00 FEET	0.045	0.250	46.30 MD	2932. PSIA	146. DEGREES F

GAS VISCOSITY	WELL BORE RADIUS	CONTRACT TIME	PRESSURE BASE	TEMPERATURE BASE	BHP WHEN COMPRESSORS ARE INSTALLED	GAS DEVIATION FACTOR	FRACTION -Z
0.0150 CP	3.50 INCHES	20.00 YEARS	15.03	60. DEGREES F	1250. PSIA	0.86	0.87500

VALUE OF GAS	TAX RATE	COMPRESSION CHARGES	WELL OPERATING COST	COMP. MAINTENANCE CHARGES
0.160 DOLLARS PER MCF	0.050000	0.04 DOLLARS PER MCF	8.00 DOLLARS PER DAY	2.00 DOLLARS PER DAY

TIME IN YEARS	TIME IN DAYS	PROD. RATE IN MCFPD	FLOWING BHP IN PSIA	CUML. PROD. IN MMCF	PERCENT RECOVERY
0.	0.	3274.1	2924.	0.	0.
1.00	365.	3274.1	2792.	1195.01	4.5
2.00	730.	3274.1	2608.	2390.01	9.0
3.00	1095.	3274.1	2528.	3585.01	13.5
4.00	1460.	3274.1	2396.	4780.11	18.0
5.00	1825.	3274.1	2264.	5975.19	22.4
6.00	2190.	3274.1	2132.	7170.17	26.9
7.00	2555.	3274.1	1999.	8365.20	31.4
8.00	2920.	3274.1	1867.	9560.23	35.9
9.00	3285.	3274.1	1734.	10755.26	40.4
10.00	3650.	3274.1	1602.	11950.29	44.9
11.00	4015.	3274.1	1469.	13145.32	49.4
12.00	4380.	3274.1	1336.	14340.34	53.9
INSTALL COMPRESSORS AT 4614. DAYS OR 12.64 YEARS					
13.00	4745.	3274.1	1202.	15535.37	58.3
14.00	5110.	3274.1	1068.	16730.40	62.8
15.00	5475.	3274.1	934.	17925.43	67.3
16.00	5840.	3274.1	798.	19120.46	71.8
17.00	6205.	3274.1	661.	20315.49	76.3
18.00	6570.	3274.1	521.	21510.52	80.8
19.00	6935.	3274.1	374.	22705.54	85.3
19.44	7109.	3274.1	300.	23275.25	87.4
PRODUCTION RATE DECLINES FROM 7139. DAYS OR 19.49 YEARS					
21.41	7813.	97.1	300.	23879.98	89.7

ORIGINAL GAS IN PLACE, 26624.80 MMCF
JOB COMPLETED.

Stanolind Ex 1
Case 2750

W.N.M.C.P. MICROGRAPHICS
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PROG-GASPAC ND-40200 JOB NO- PR 417 REQ BY-RMD DATE-02/06/67
INDIAN BASIN GAS WELL SPACING -320 AC

SPACING	NET PAY THICKNESS	POROSITY	WATER SATURATION	PERMEABILITY	INITIAL RESERVOIR PRESSURE	RESERVOIR TEMPERATURE
2. WELLS ON 640.0 ACRES	142.00 FEET	0.095	0.290	46.30 MD	2932. PSIA	146. DEGREES F

GAS VISCOSITY	WELL BORE RADIUS	CONTRACT TIME	PRESSURE BASE	TEMPERATURE BASE	BHP WHEN COMPRESSORS ARE INSTALLED	GAS DEVIATION FACTOR	FRACTION SI
0.0150 CP	3.38 INCHES	20.00 YEARS	15.03	60. DEGREES F	1250. PSIA	0.84	0.87400

VALUE OF GAS	TAX RATE	COMPRESSION CHARGES	WELL OPERATING COST	COMP. MAINTENANCE CHARGES
0.166 DOLLARS PER MCF	0.050000	0.04 DOLLARS PER MCF	0.00 DOLLARS PER DAY	2.00 DOLLARS PER DAY

TIME IN YEARS	TIME IN DAYS	PROD. RATE IN MCFPD	FLOWING BHP IN PSIA	CUML. PROD. IN MMCF	PERCENT RECOVERY
0.	0.	3274.1	2928.	0.	0.
1.00	365.	3274.1	2796.	1195.03	4.5
2.00	730.	3274.1	2665.	2390.05	9.0
3.00	1095.	3274.1	2533.	3585.09	13.5
4.00	1460.	3274.1	2401.	4780.11	18.0
5.00	1825.	3274.1	2269.	5975.14	22.4
6.00	2190.	3274.1	2137.	7170.17	26.9
7.00	2555.	3274.1	2005.	8365.20	31.4
8.00	2920.	3274.1	1873.	9560.23	35.9
9.00	3285.	3274.1	1741.	10755.26	40.4
10.00	3650.	3274.1	1609.	11950.29	44.9
11.00	4015.	3274.1	1477.	13145.32	49.4
12.00	4380.	3274.1	1345.	14340.34	53.9

INSTALL COMPRESSORS AT 4641. DAYS OR 12.71 YEARS

13.00	4745.	3274.1	1214.	15535.37	58.3
14.00	5110.	3274.1	1079.	16730.40	62.8
15.00	5475.	3274.1	946.	17925.43	67.3
16.00	5840.	3274.1	813.	19120.46	71.8
17.00	6205.	3274.1	679.	20315.49	76.3
18.00	6570.	3274.1	543.	21510.52	80.8
19.00	6935.	3274.1	405.	22705.55	85.3
19.74	7203.	3274.1	300.	23584.55	88.6

PRODUCTION RATE DECLINES FROM 7203. DAYS OR 19.74 YEARS

20.50	7481.	194.2	300.	23880.81	89.7

ORIGINAL GAS IN PLACE, 26624.80 MMCF
JOB COMPLETED.

Attached Ex. 2
Case 2750

U.N.M.C.F. MICROGRAPHICS
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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
COMPANY RALPH LANE
FIELD UNDESIGNATED
FILE NO. 30-5-2093
WELL INDIAN BASIN NO. 1-A
COUNTY EDDY
DATE 11-6-62
LOCATION 1650 FS & EL SEC. 12-21S-23E STATE NEW MEXICO
ELEV. 3992 DF
CORE-GAMMA CORRELATION
VERTICAL SCALE: 5" = 100'
CORE-GAMMA SURFACE LOG
GAMMA RAY
POROSITY
PERMEABILITY
COREGRAPH
TOTAL WATER
OIL SATURATION
1500
1550
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
2350
2400
2450
2500
2550
2600
2650
2700
2750
2800
2850
2900
2950
3000
3050
3100
3150
3200
3250
3300
3350
3400
3450

CORE LABORATORIES, INC. CORE LAB *Petroleum Reservoir Engineering*

COMPANY RALPH LOWE — FILE NO MR-3-2023
WELL INDIAN BASIN NO. 1-A — DATE 11-6-62 — ENGRS BOONE
FIELD UNDESIGNATED — FORMATION AS NOTED — ELEV 16611 DF
COUNTY EDDY — STATE NEW MEXICO — DRLG FLD WATER BASE MUD — CORES DIAMOND & 3/8"
LOCATION 1650 FS & EL SEC. 20-T21S-R24E — REMARKS SAMPLED AS DIRECTED BY CLIENT

COMPLETION COREGRAPH

The interpretations, opinions or recommendations of Core Laboratories (all errors and omissions excepted) are based on electrical or other measurements and not on direct observation of the subsurface. Core Laboratories does not guarantee the accuracy or correctness of any interpretation and we shall not be liable or responsible for any loss, cost, damage or expense incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current price schedule.

BAND SHALE — LIMESTONE DOLOMITE — CONGLOMERATE OOLITE — CHERT — ANHYDRITE

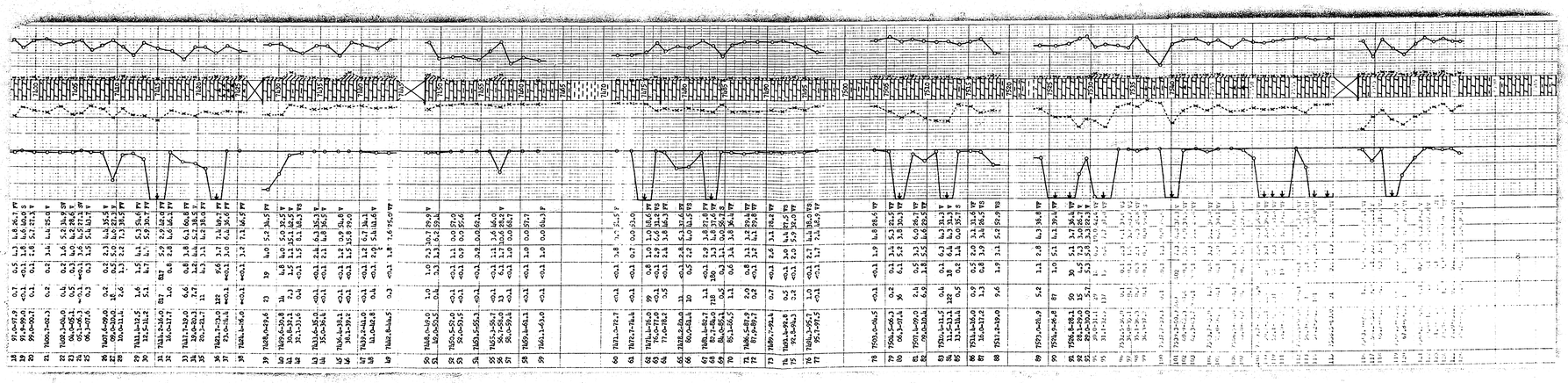
SAMPLE CHARACTERISTICS: f-Fractured L-Laminated FL-INC.FX-Fdsp Grain Size S-Stylolites V-Vugular

PROBABLE PRODUCTION: O-Oil W-Water G-Gas T-Transitional

TOTAL WATER O—O (Dean-Stark) 75 50 25

OIL SATURATION x---x (Calculated from Analysis) 25 50 75

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS MAX.	PERMEABILITY MILLIDARCYS 90°	POROSITY %	WATER SATURATION % PORE SPACE	PERMEABILITY O—O MILLIDARCYS 20 10	POROSITY X---X PERCENT 10 5	DEPTH
		WHOLE-CORE ANALYSES						
1	7334.0-35.6	0.1	0.1	2.8	5.8 28.5 V			7335
2	7335.6-36.7	0.1	0.1	2.8	5.1 26.4 V			7340
3	36.7-37.6	0.3	0.2	3.9	7.8 29.1 V			
4	37.6-38.8	0.6	0.1	2.9	3.3 30.1 V			
5	38.8-80.2	13	0.5	2.8	2.2 10.1 SV			7345
6	80.2-80.8	<0.1	<0.1	1.9	4.3 28.7 V			
7	80.8-82.1	0.6	0.5	3.0	3.7 24.9 V			
8	7382.1-84.0	<0.1	<0.1	1.3	10.2 35.5 S			7350
9	84.0-85.1	<0.1	<0.1	0.9	0.0 59.2			
10	85.1-86.0	<0.1	<0.1	1.3	0.0 54.7 S			
11	7386.6-88.0	0.3	0.1	2.8	3.5 33.3 FV			7355
12	88.0-89.8	0.3	0.1	2.0	7.0 28.4			
13	7389.8-91.0	=<0.1	=<0.1	1.3	0.0 58.5 F			7360
14	91.0-92.2	<0.1	<0.1	1.0	0.0 63.5			
15	7392.2-94.0	<0.1	<0.1	1.3	0.0 55.6 S			7365
16	94.0-95.1	0.1	0.1	3.6	4.2 29.9 V			
17	7395.3-97.0	0.3	0.1	3.4	4.5 38.7 FV			7370
18	97.0-97.8	0.7	0.5	4.3	4.8 26.7 FV			
19	97.9-99.0	<0.1	<0.1	1.8	8.4 40.8 S			
20	99.0-100.1	0.1	0.1	2.8	5.7 27.3 V			7375
21	7400.7-02.3	0.2	0.2	3.4	4.4 25.0 V			
22	7402.3-04.0	0.6	0.2	3.6	5.2 34.9 SV			7380
23	04.0-05.1	0.5	0.3	4.0	4.2 28.6 V			
24	05.1-06.3	=<0.1	=<0.1	3.6	4.5 27.1 SV			
25	06.3-07.6	0.3	0.3	1.5	5.4 43.7 V			7385
26	7407.6-09.0	0.2	0.2	2.3	4.4 35.5 V			
27	09.0-10.0	18	0.5	5.0	4.6 27.3 V			7390
28	10.0-11.1	2.6	1.3	2.2	7.3 38.5 FV			
29	7411.1-12.5	1.6	1.5	4.1	5.3 34.6 FV			7395
30	12.5-13.2	5.1	4.7	4.1	5.9 30.7 FV			
31	7413.2-16.0	817	817	5.9	2.9 42.0 FV			7400
32	16.0-17.7	1.0	0.8	2.8	4.6 46.1 FV			
33	7417.7-19.0	6.6	0.8	3.8	6.1 40.8 FV			7405
34	19.0-20.3	7.7	1.2	4.4	5.2 38.5 V			
35	20.3-21.7	11	4.3	3.1	4.8 38.0 FV			7410
36	7421.7-23.0	122	9.6	3.7	7.1 49.7 FV			
37	23.0-24.1	=<0.1	=<0.1	1.0	6.1 36.6 FV			7415
38	7424.1-26.0	=<0.1	=<0.1	3.2	7.1 46.5 FV			
39	7426.0-29.6	23	19	4.0	5.2 34.5 FV			7420
40	7429.6-30.8	14	4.8	4.0	5.0 32.5 V			
41	30.8-32.1	2.3	1.5	3.1	35.1 42.5 V			7425
42	32.1-33.6	0.4	<0.1	1.5	0.1 48.3 VS			
43	7433.6-35.0	<0.1	<0.1	2.4	6.3 35.3 V			7430
44	35.0-36.4	<0.1	<0.1	2.1	4.8 36.5 V			
45	7436.4-38.1	<0.1	<0.1	1.2	0.9 51.8 V			7435
46	38.1-39.2	<0.1	<0.1	1.5	15.8 29.0			
47	7439.2-41.0	<0.1	<0.1	1.2	6.7 36.1			7440
48	41.0-42.8	0.4	<0.1	2.0	5.4 41.6 V			
49	7442.8-44.5	0.3	<0.1	1.8	7.6 35.0 VV			7445
50	7448.0-49.0	1.0	1.0	2.3	30.7 29.9 V			7450
51	49.0-50.5	0.4	0.3	3.3	6.2 59.4			
52	7450.5-52.0	<0.1	<0.1	1.1	0.0 57.0			7455
53	52.0-53.5	<0.1	<0.1	0.9	0.0 55.6			
54	7453.5-55.3	<0.1	<0.1	0.9	0.0 62.1			7460
55	7455.3-56.7	<0.1	<0.1	1.1	3.6 66.0			
56	56.7-58.0	13	6.1	1.7	10.6 28.2 V			7465
57	58.0-59.4	<0.1	<0.1	1.0	0.0 68.7			
58	7459.4-61.1	<0.1	<0.1	1.0	0.0 57.7			7470
59	7461.1-63.0	<0.1	<0.1	1.0	0.0 64.3 F			
60	7471.5-72.7	<0.1	<0.1	3.8	4.7 22.5 V			7475
61	7472.7-74.4	<0.1	<0.1	0.7	0.0 53.0			
62	7474.4-76.0	99	0.8	1.0	1.0 48.6 FV			7480
63	76.0-77.0	<0.1	<0.1	2.9	6.8 31.9 VS			
64	77.0-78.2	0.5	<0.1	2.6	3.8 46.3 FV			7485
65	7478.2-80.0	11	<0.1	2.8	5.3 37.6 FV			
66	80.0-81.4	10	0.5	2.2	4.0 41.5 VS			7490
67	7481.4-82.7	1.1	<0.1	2.9	3.8 27.8 FV			
68	82.7-84.0	218	180	3.3	4.8 37.6 V			7495
69	84.0-85.1	0.5	0.3	1.1	0.0 56.2 S			
70	85.1-86.5	1.1	0.6	3.4	3.8 36.4 VV			7500
71	7486.5-87.9	2.0	0.8	3.1	3.2 29.4 VV			
72	87.9-89.7	0.2	<0.1	3.2	4.1 29.8 VV			7505
73	7489.7-91.4	0.7	<0.1	2.6	3.1 28.2 VV			



V.N.M.C.P. MICROGRAPHICS
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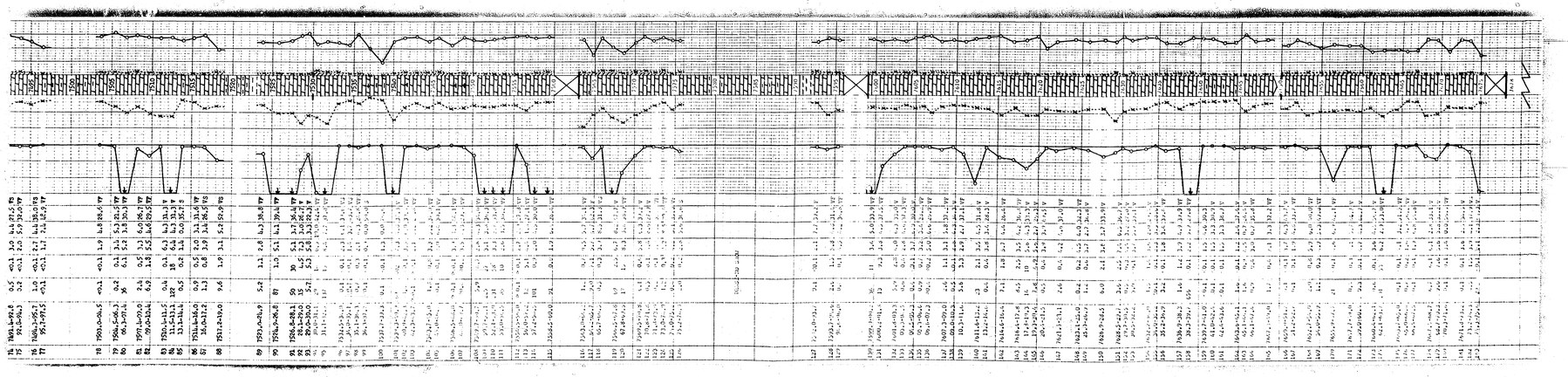

N.M.M.G.F. MICROFRAMES

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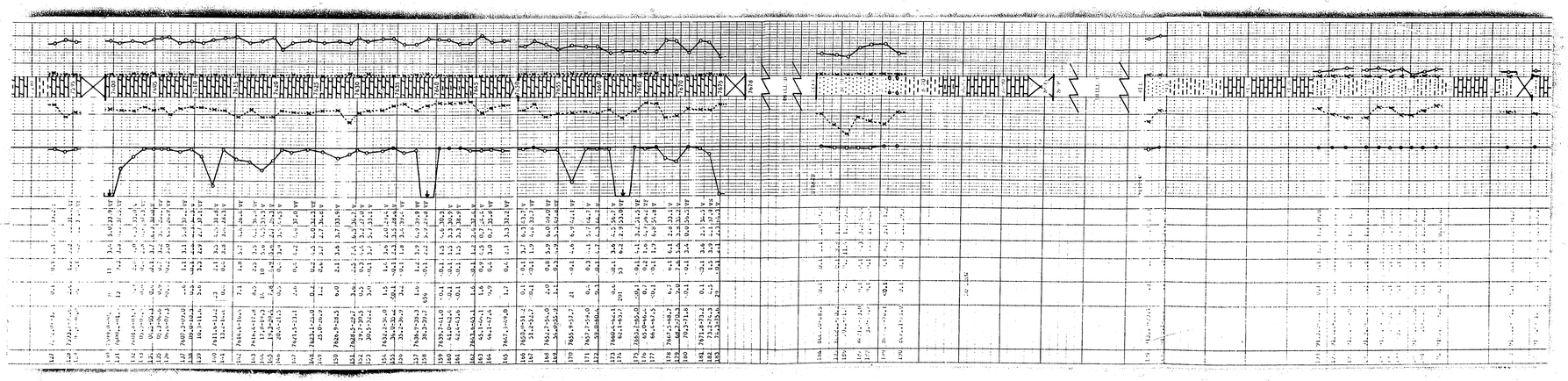

W.N.W.C.F. MICROGRAPHICS

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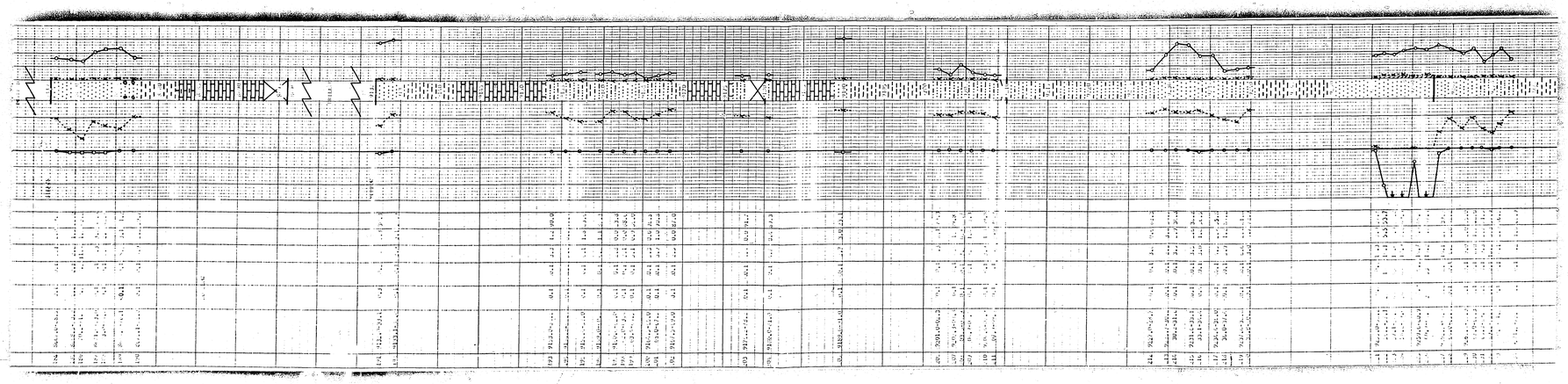

U.S.N.C.F. MICROGRAPHICS

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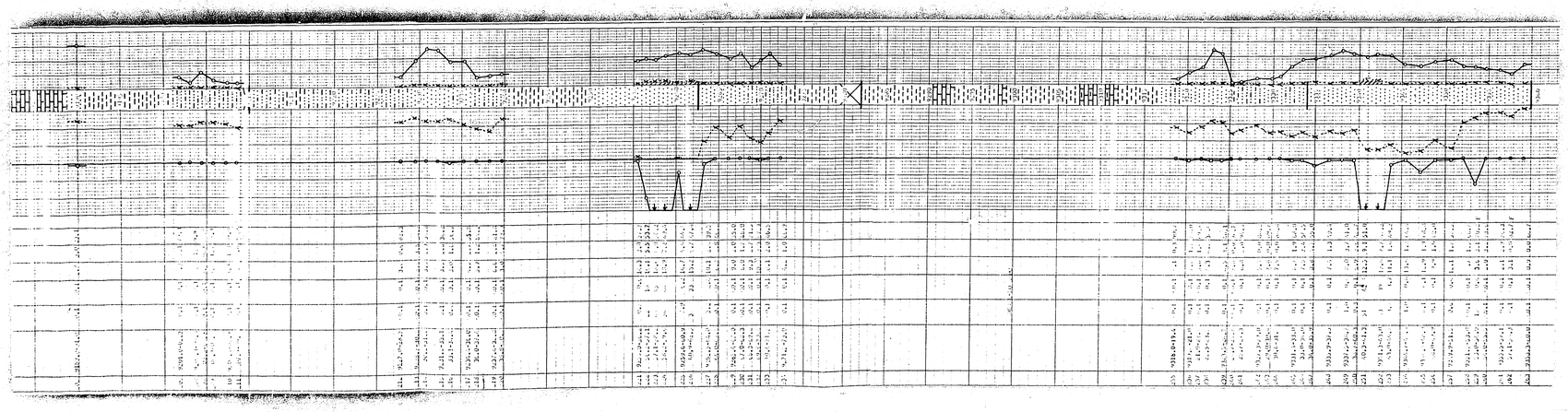

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CORE LABORATORIES, INC. CORE LAB *Petroleum Reservoir Engineering*

COMPANY RALPH LOEN FIELD WILDCAT FILE LCA-1-1045

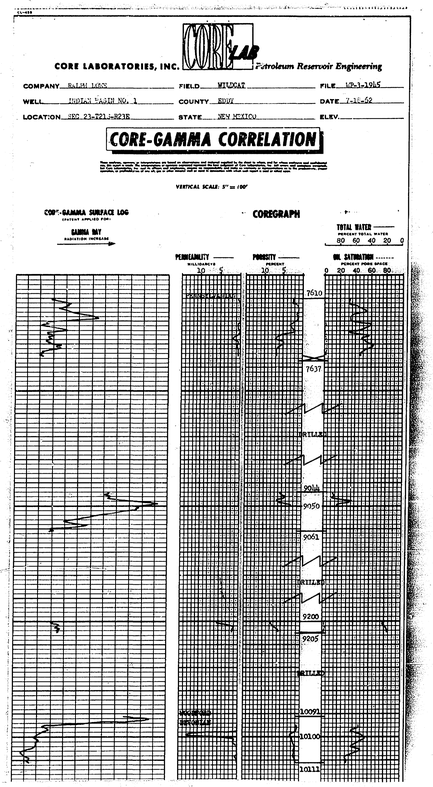
WELL INDIAN WASH NO. 1 COUNTY EDDY DATE 7-16-52

LOCATION SEC 23-T21-S23E STATE NEW MEXICO ELEV.

CORE-GAMMA CORRELATION

The interpretations or opinions we furnish at the request of the customer are based upon data obtained by the methods in effect at the time and are considered accurate, but because of the variable conditions under which the data are used, we do not guarantee the accuracy of any interpretation, and we shall not be responsible for any loss sustained by reason of any interpretation furnished by us or any of our employees.

VERTICAL SCALE: 5" = 100'



N.M.M.C.F. MICROGRAPHICS

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CORE LABORATORIES, INC. *Petroleum Reservoir Engineering*

COMPANY: Amoco Prod. Co. — FILE NO.: RP-3-1915
WELL: Indian Basin No. 1 — DATE: 7-15-82 — ENGR.: RA-JS
FIELD: Wildcat — FORMATION: As Noted — ELEV.:
COUNTY: Eddy — STATE: New Mexico — DRLG. FLD: Water Base Mud — CORES: 2" Diam. to 4 3/8"
LOCATION: SHL 23-T21S-R23E — ANALYSTS: Analyses as Reported by Client

COMPLETION COREGRAPH

The following analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

SAND | LIMESTONE | CONGLOMERATE | CHERT | ANHYDRITE
SHALE | DOLOMITE | SHALE | SHALE

SAMPLE CHARACTERISTICS: F Fracture L Laminated FE Fine Grained Sec S Shaded V Vugular — PROBABLE PRODUCTION: O Oil W Water G Gas T Tentative

TOTAL WATER O—O (Percent Pore Space) 75 50 25
OIL SATURATION X---X (Percent Pore Space) 25 50 75

Sample Number	Depth Feet	Permeability to Nitrogen Millidarcys Vert.	90°	Horiz.	Porosity Percent	Residual Saturation, Pore Space Oil	Water	Gas	Permeability O—O 10	5	Porosity X---X 10	5	Sample Characteristics	Probable Production
		MISCELLANEOUS CORE ANALYSIS												
1	7610.0-11.3	0.6		0.4	2.4	0.0	67.7	V					FRACTURATION;	
2	7611.3-13.0	<0.1		<0.1	2.4	0.0	68.1							
3	13.0-14.4	<0.1		<0.1	1.2	0.0	55.0							
4	7614.4-16.0	<0.1		<0.1	1.0	0.0	16.7							
5	16.0-17.7	<0.1		<0.1	1.4	0.0	62.7							
6	7617.7-19.4	<0.1		<0.1	1.1	0.0	67.7							
7	7619.4-21.0	<0.1		<0.1	1.7	0.0	66.7							
8	21.0-22.6	<0.1		<0.1	3.1	2.0	40.2	FV						
9	7622.6-24.1	0.1		0.1	2.2	0.0	51.2	FS						
10	24.1-25.0	<0.1		<0.1	1.8	0.0	68.8							
11	25.0-26.6	0.7		0.2	5.5	1.1	42.8	FV						
12	7626.6-28.3	1.7		0.5	7.1	1.1	51.8	FV						
13	7628.3-30.1	0.2		0.2	4.8	2.7	46.6	FV						
14	7630.1-32.0	0.8		<0.1	6.3	2.4	37.4	FV						
15	32.0-33.5	0.3		0.2	6.9	5.2	18.5	FV						
16	7633.5-35.0	<0.1		<0.1	6.8	1.3	52.8	FV						
17	9044.0-45.0	<0.1			5.5	0.0	87.4	FG						
18	45.0-46.0	<0.1			4.1	0.0	85.4	FG						
19	46.0-47.0	<0.1			4.5	0.0	88.9	FG						
20	47.0-48.0	<0.1			6.1	0.0	81.1	FG						
21	48.0-49.0	<0.1			5.6	0.0	69.7	FG						
22	49.0-50.0	<0.1			2.8	0.0	82.2	FG						
		NO SHOW												
23	9200.0-01.6	5.2		4.7	7.7	1.3	22.2	CO						
24	9201.6-03.0	1.0		0.9	6.3	3.2	16.6	CO						
25	03.0-04.5	1.4		1.0	5.8	2.1	17.0	CO						
26	10095.0-96.6	<0.1		<0.1	0.7	0.0	52.3	SF						
27	10096.6-98.3	<0.1		<0.1	0.9	0.0	62.4	S						
28	10098.3-00.2	13		2.4	2.4	0.0	45.2	FT						
29	10100.1-01.7	1.0		0.4	1.9	0.0	44.6	FT						
30	10101.7-03.2	1.1		<0.1	1.5	0.0	55.5	FT						
31	03.2-04.8	=<0.1		=<0.1	1.1	0.0	69.3	SF						
32	10104.8-06.2	=<0.1		=<0.1	1.6	0.0	50.0	SF						
33	10106.2-08.0	<0.1		<0.1	1.3	0.0	63.9	F						
34	08.0-09.5	0.4		<0.1	1.1	0.0	70.3							
35	10109.5-11.0	=<0.1		=<0.1	1.1	0.0	69.7							

7610 | 7615 | 7620 | 7625 | 7630 | 7635 | 7637 | DRILLED | 9044 | 9050 | 9055 | 9060 | 9061 | DRILLED | 9200 | 9205 | DRILLED | 10091 | 10095 | 10100 | 10105 | 10111

WOODFORD | ORTONIAN

N.M.M.C.F. MICROGRAPHICS
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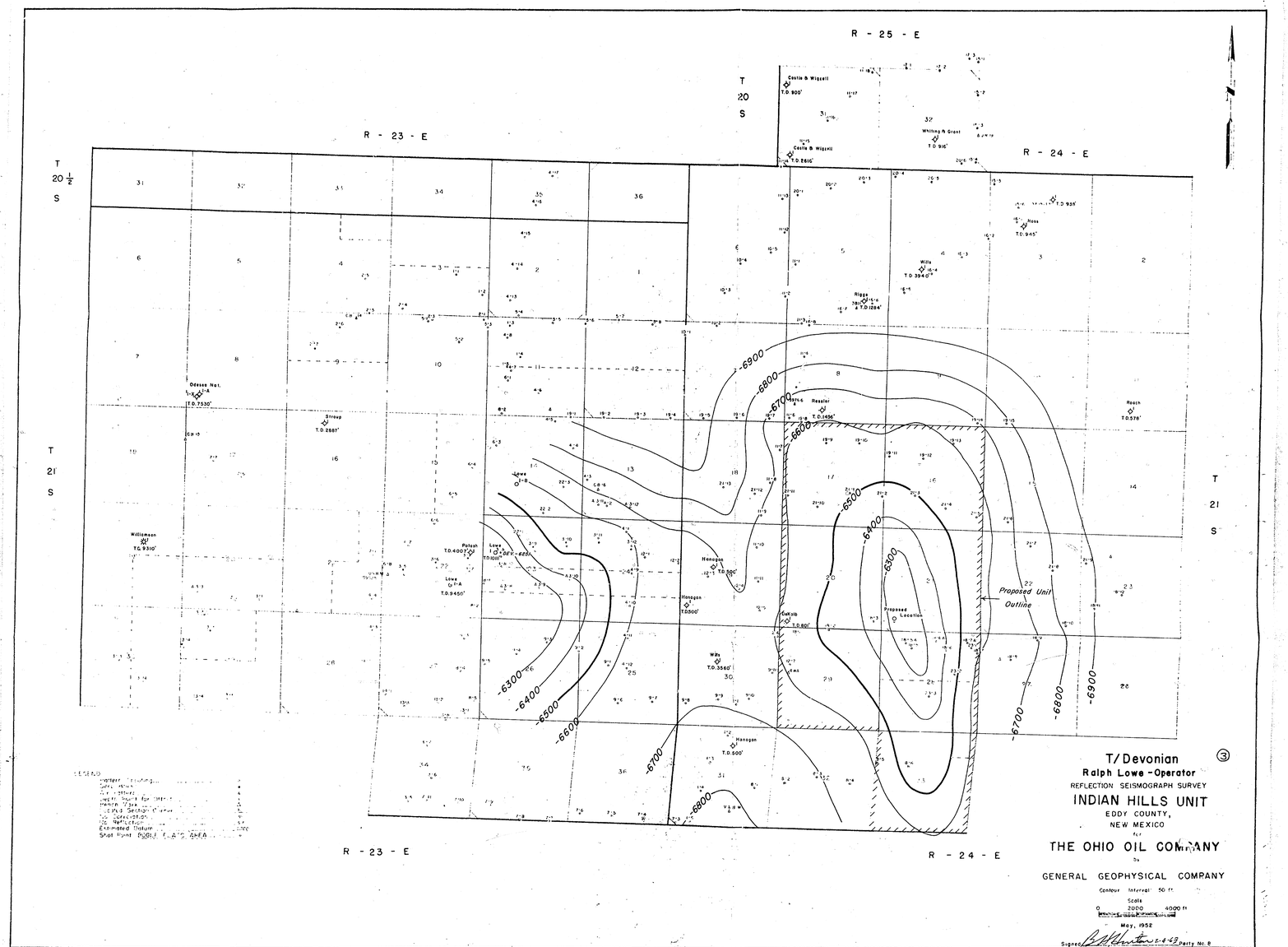

LEGEND

Contour Interval
Well Name
Dry Hole
Depth Point for Structure
Section Line
Subdivision
Township Line
Estimated Datum
Shot Point PUBLIC LAND AREA

T/ Devonian ③

Ralph Lowe - Operator

REFLECTION SEISMOGRAPH SURVEY

INDIAN HILLS UNIT

EDDY COUNTY,
NEW MEXICO

for

THE OHIO OIL COMPANY

by

GENERAL GEOPHYSICAL COMPANY

Contour Interval 50 ft.

Scale
0 2000 4000 ft

May, 1952

Signed B. H. Winston Jr. 4-42 Party No. 8

N.M.C.F. MICROGRAPHICS
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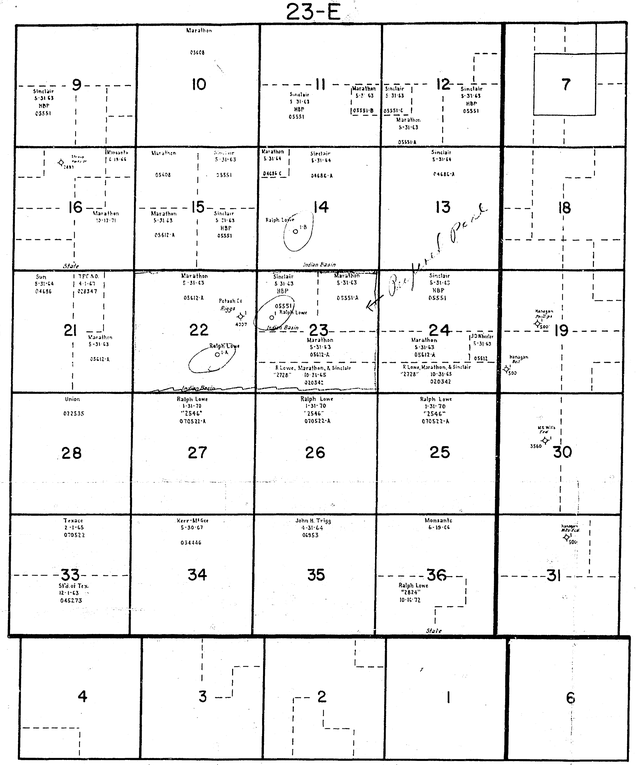
23-E

21-S



INDIAN BASIN AREA

EDDY CO. NEW MEXICO

DATE 1-15-63 SCALE: 1" = 2000'

W.N.M.C.P. MICROGRAPHICS

BEST AVAILABLE COPY

CORE LABORATORIES, INC. CORE LAB *Petroleum Reservoir Engineering*

COMPANY RALPH LOWE FIELD UNDESIGNATED FILE WP-3-2023

WELL INDIAN PASTH NO. 1-A COUNTY EDDY DATE 11-6-62

LOCATION 1650 FS & EL SEC. 22-T21S-R23E STATE NEW MEXICO ELEV. 3861' DF

CORE-GAMMA CORRELATION

VERTICAL SCALE: 5" = 100'

CORE-GAMMA SURFACE LOG
(PATENT APPLIED FOR)
GAMMA RAY
RADIATION INTENSITY →

COREGRAPH

PERMEABILITY
MILLIDARCYS
20 10 0

POROSITY
PERCENT
10 5 0

TOTAL WATER
PERCENT PORE SPACE
80 60 40 20 0

OIL SATURATION
PERCENT PORE SPACE
0 20 40 60 80

7375
7400
7450
7500
7550
7600
7650
7672
7713.5
7.5
7.5
7

CORE LABORATORIES, INC.

CORE LAB

Petroleum Reservoir Engineering

COMPANY RALPH LANE — FILE NO. MR-3-2023

WELL INDIAN BASIN NO. 1-A — DATE 11-6-62 — ENGRS. BOOKE

FIELD UNDESIGNATED — FORMATION AS NOTED — ELEV. 3651' DF

COUNTY EDDY — STATE NEW MEXICO — DRLG FLD. WATER BASE MUD — CORES DIAMOND & 3/8"

LOCATION 1650 FN & FE SEC. 22-T21S-R23E — REMARKS SAMPLED AS DIRECTED BY CLIENT

COMPLETION COREGRAPH

The analyses, opinions or interpretations contained in this report are based on data and conditions as supplied to Core Laboratories, and reflect Core Laboratories' best judgment of the formations tested. Core Laboratories, however, does not guarantee the accuracy or correctness of any interpretations, and Core Laboratories shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of its officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set forth in our current price schedule.

BAND · SHALE · LIMESTONE · DOLOMITE · CONGLOMERATE · OOLITES · CHERT · ANHYDRITE

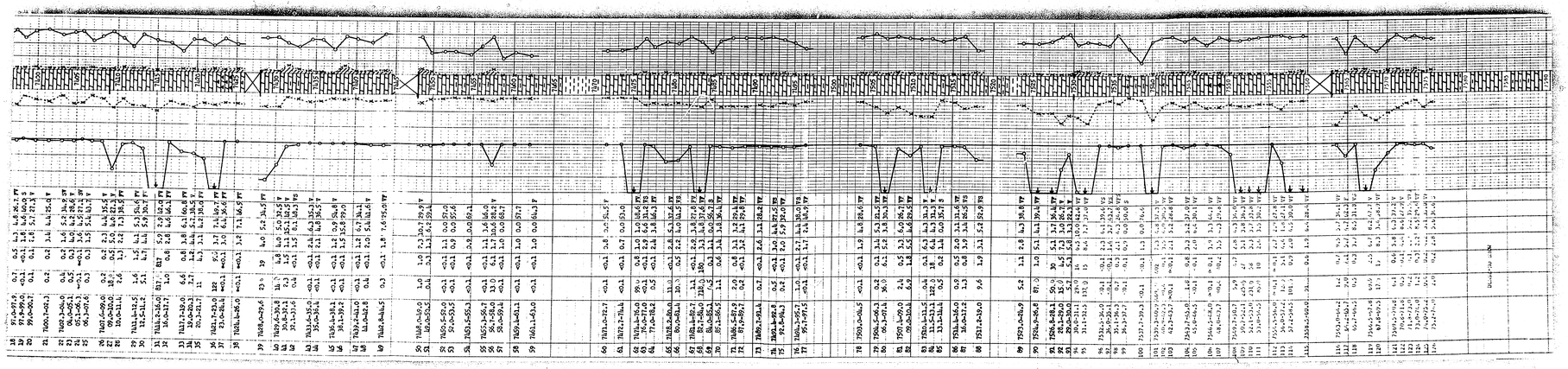
SAMPLE CHARACTERISTICS — F-Fractured L-Laminated FX-Mic Cx-Type Cram Scm S-Stylolitic V-Vuggy

PROBABLE PRODUCTION — G-Oil W-Water E-Gas T-Transitional

TOTAL WATER O—O (PERCENT PORE SPACE) 75 50 25

OIL SATURATION X---X (PERCENT PORE SPACE) 25 50 75

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY TO AIR MILLIDARCYS HORIZONTAL Max.	90°	VERTICAL 90°	POROSITY % PORE SPACE TOTAL	RESIDUAL		PERMEABILITY O—O MILLIDARCYS 20 10	POROSITY X---X PERCENT 10 5
		MESOZOIC-CORE ANALYSIS							
1	7375.0-75.6	0.1	0.1	2.8	5.8	28.5	V		
2	7375.6-76.7	0.1	0.1	2.8	5.1	36.4	V		
3	76.7-77.6	0.3	0.2	3.9	7.8	29.1	V		
4	77.6-78.6	0.4	0.1	2.9	3.2	30.1	V		
5	78.6-80.2	13	0.4	2.8	2.2	46.8	SV		
6	80.2-80.8	<0.1	<0.1	1.9	4.3	28.7	S		
7	80.8-81.1	0.6	0.2	3.0	3.7	26.9	V		
8	7382.1-86.0	<0.1	<0.1	1.3	10.2	35.5	S		
9	86.0-85.1	<0.1	<0.1	0.9	0.0	59.8			
10	85.1-86.6	<0.1	<0.1	1.3	0.0	51.7	S		
11	7386.6-88.0	0.3	0.1	2.8	3.5	33.3	FV		
12	88.0-89.8	0.3	0.1	2.0	7.0	28.8			
13	7389.8-91.0	<0.1	<0.1	1.3	0.8	58.5	F		
14	91.0-91.2	<0.1	<0.1	1.0	0.0	63.5			
15	7392.2-94.0	<0.1	<0.1	1.3	0.0	55.6	S		
16	94.0-95.3	1110	0.1	3.6	4.2	29.9	V		
17	7395.3-97.0	0.3	0.1	3.4	4.5	38.7	FV		
18	97.0-97.9	0.7	0.5	4.3	4.8	26.7	FV		
19	97.9-99.0	<0.1	<0.1	1.8	4.6	40.0	S		
20	99.0-100.2	0.1	0.1	2.8	5.7	27.3	V		
21	7400.7-02.3	0.2	0.2	3.4	4.4	25.0	V		
22	7402.3-04.0	0.4	0.2	3.6	5.2	34.9	SV		
23	04.0-05.1	0.5	0.1	4.0	4.2	28.6	V		
24	05.1-06.3	<0.1	<0.1	3.6	4.5	27.1	SV		
25	06.3-07.6	0.3	0.1	3.5	5.4	33.7	V		
26	7407.6-09.0	0.2	0.2	2.3	4.4	35.5	V		
27	09.0-10.0	18.0	0.5	5.0	3.6	27.5	V		
28	10.0-11.4	2.6	1.3	2.2	7.3	30.5	FV		
29	7411.4-12.5	1.6	1.5	4.1	5.3	34.6	FV		
30	12.5-14.2	5.1	4.7	4.4	5.9	30.7	FV		
31	7414.2-16.0	817.0	817	5.9	2.9	42.0	FV		
32	16.0-17.7	3.0	0.8	2.8	6.6	46.1	FV		
33	7417.7-19.0	6.6	0.8	3.8	6.2	40.8	FV		
34	19.0-20.3	7.7	1.2	4.4	5.7	38.5	V		
35	20.3-21.7	11	4.3	3.1	4.2	38.0	FV		
36	7421.7-23.0	122	9.6	3.7	7.4	49.7	FV		
37	23.0-24.4	<0.1	<0.1	3.0	6.4	36.6	FV		
38	7424.4-26.0	<0.1	<0.1	3.2	7.1	46.5	FV		
39	7426.0-29.6	23	19		4.0	5.2	36.5	FV	
40	7429.6-30.8	34.0	4.8		4.0	5.0	32.5	V	
41	30.8-32.1	7.2	1.5		2.1	35.1	40.5	V	
42	32.1-33.6	0.8	<0.1		1.5	8.1	58.3	VS	
43	7433.6-35.0	<0.1	<0.1		2.4	6.3	35.3	V	
44	35.0-36.4	<0.1	<0.1		2.1	4.8	36.5	V	
45	7436.4-38.1	<0.1	<0.1		1.2	0.9	54.8	V	
46	38.1-39.2	<0.1	<0.1		1.5	15.8	39.0		
47	7439.2-41.0	<0.1	<0.1		1.5	6.7	34.1		
48	41.0-42.8	0.4	<0.1		2.0	5.4	41.6	V	
49	7442.8-44.5	0.3	<0.1		1.8	7.6	35.0	VF	
50	7448.0-49.0	1.0	1.0		2.3	10.7	39.9	V	
51	49.0-50.5	0.4	0.3		1.3	6.2	59.4		
52	7450.5-52.0	<0.1	<0.1		1.1	0.0	57.0		
53	52.0-53.5	<0.1	<0.1		0.9	0.0	55.6		
54	7453.5-55.3	<0.1	<0.1		0.9	0.0	62.1		
55	7455.3-56.7	<0.1	<0.1		1.1	3.6	46.0		
56	56.7-58.0	13.0	6.1		1.7	10.6	28.2	V	
57	58.0-59.4	<0.1	<0.1		1.0	0.0	60.7		
58	7459.4-61.1	<0.1	<0.1		1.0	0.0	57.7		
59	7461.1-63.0	<0.1	<0.1		1.0	0.0	64.3	F	
60	7471.0-72.7	<0.1	<0.1		0.8	0.0	51.5	F	
61	7472.7-74.4	<0.1	<0.1		0.7	0.0	53.0		
62	7474.4-76.0	99.0	0.8		1.0	1.0	48.6	FV	
63	76.0-77.0	<0.1	<0.1		2.9	6.6	31.2	VS	
64	77.0-78.2	0.5	<0.1		2.4	3.8	46.3	FV	
65	7478.2-80.0	11.0	<0.1		2.8	5.3	37.6	FV	
66	80.0-81.4	10.1	0.5		2.2	4.0	41.5	VS	
67	7481.4-82.7	1.1	<0.1		2.9	3.8	37.0	FV	
68	82.7-84.0	218.0	180		3.3	3.8	37.6	FV	
69	84.0-85.1	0.5	0.3		1.1	0.0	56.7	S	
70	85.1-86.5	1.1	0.6		3.4	3.8	36.4	FV	
71	7486.5-87.9	2.0	0.8		3.1	3.2	39.4	FV	
72	87.9-89.7	0.7	<0.1		3.2	4.1	39.8	FV	
73	7489.7-92.4	0.7	<0.1		2.6	3.1	38.2	FV	
74	7492.4-92.8	0.5	<0.1		3.0	4.4	37.5	FS	
75	92.8-93.1	0.7	<0.1		2.0	5.9	32.0	FV	



N.A.S.A.G.F. MICROGRAPHICS

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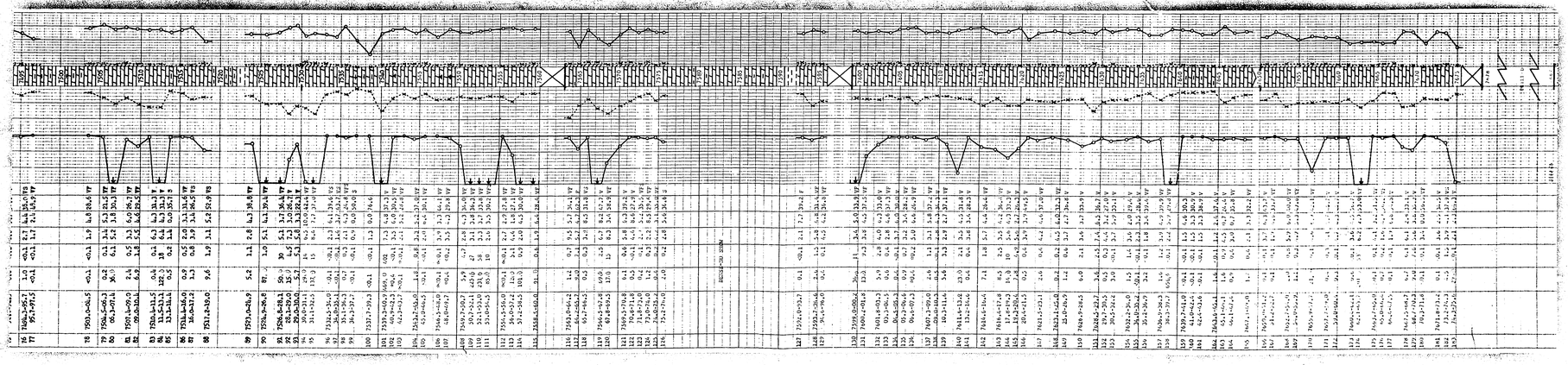

U.S.N.R.C.F. MICROGRAPHICS

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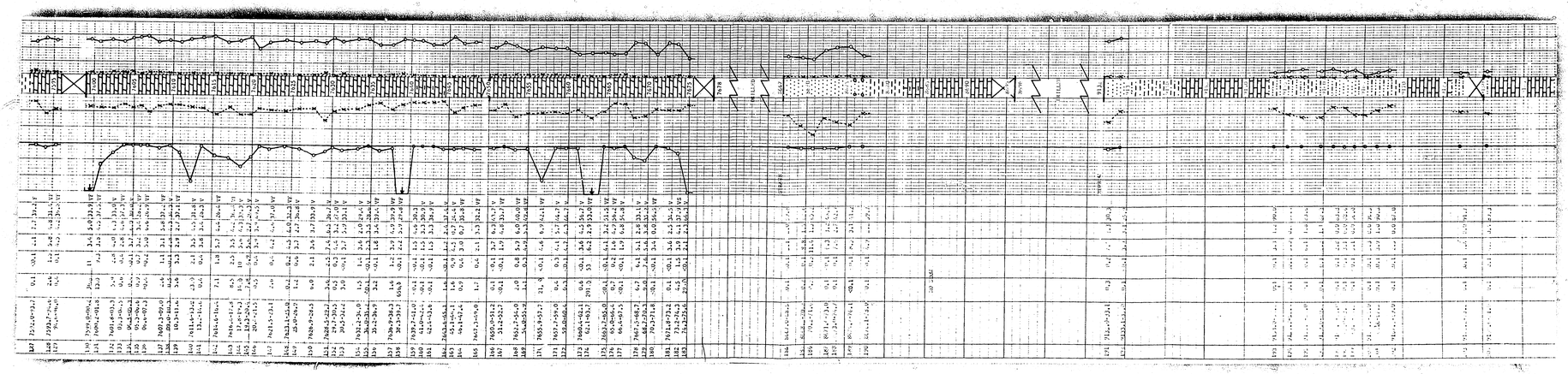

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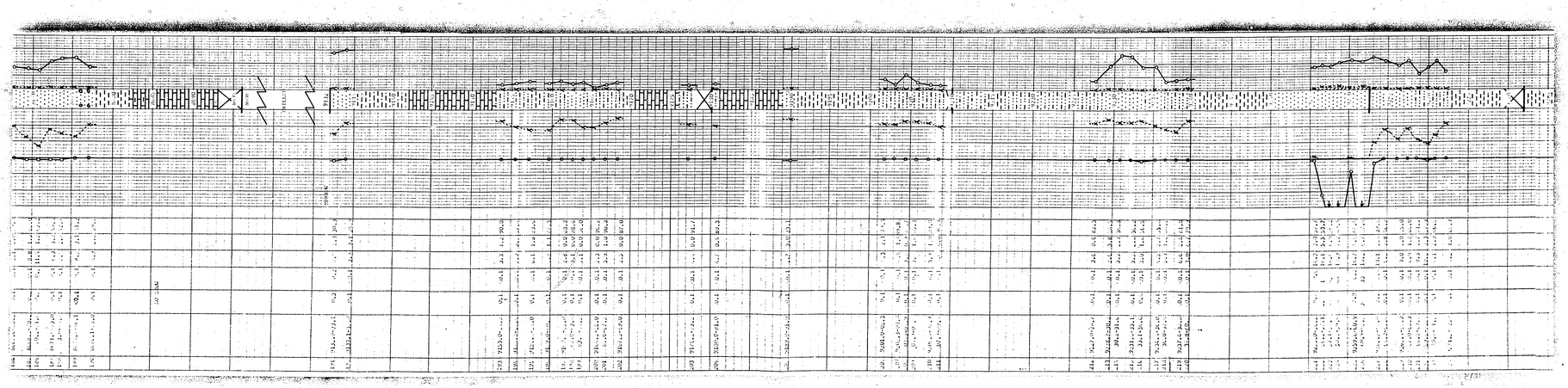

W.N.W.C.F. MICROGRAPHICS

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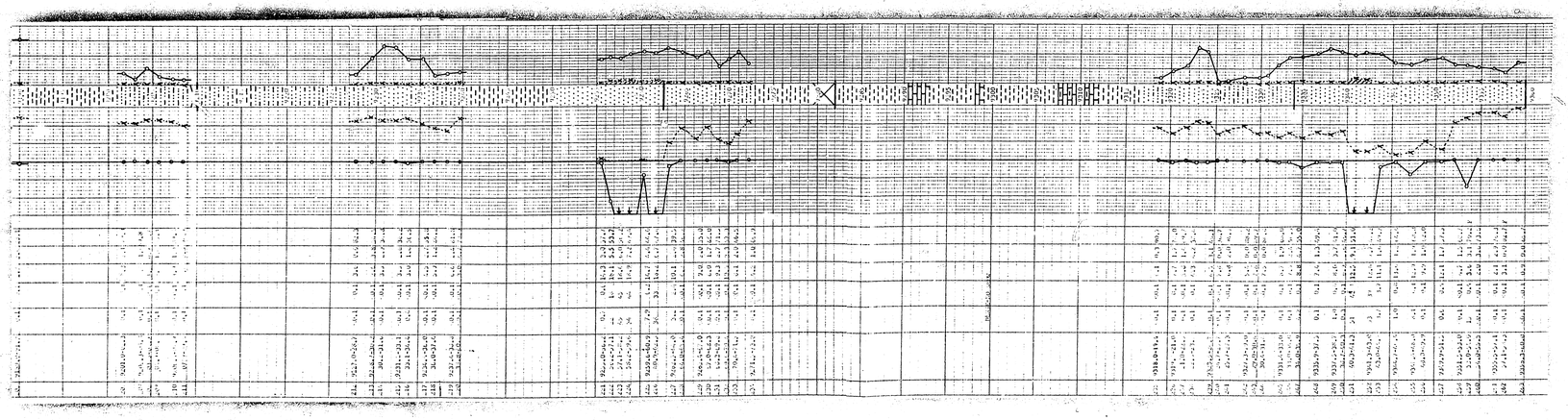

U.S.N.R.C.F. MICROGRAPHICS

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CORE LABORATORIES, INC. CORE LAB *Petroleum Reservoir Engineering*

COMPANY RALPH LOVE FIELD WILDCAT FILE WP-3-1945

WELL INDIAN BASIN NO. 1 COUNTY EDDY DATE 7-14-52

LOCATION SEC 21-T21S-R23E STATE NEW MEXICO ELEV.

CORE-GAMMA CORRELATION

VERTICAL SCALE: 5" = 100'

CORE-GAMMA SURFACE LOG (patent applied for)

GAMMA RAY (radium increase)

COREGRAPH

TOTAL WATER (percent total water) 80 60 40 20 0

PERMEABILITY (millidarcys) 30 5

POROSITY (percent) 30 5

OIL SATURATION (percent pore space) 0 20 40 60 80

7610
7637
WILLIS
9014
9050
9061
WILLIS
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10091
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10111

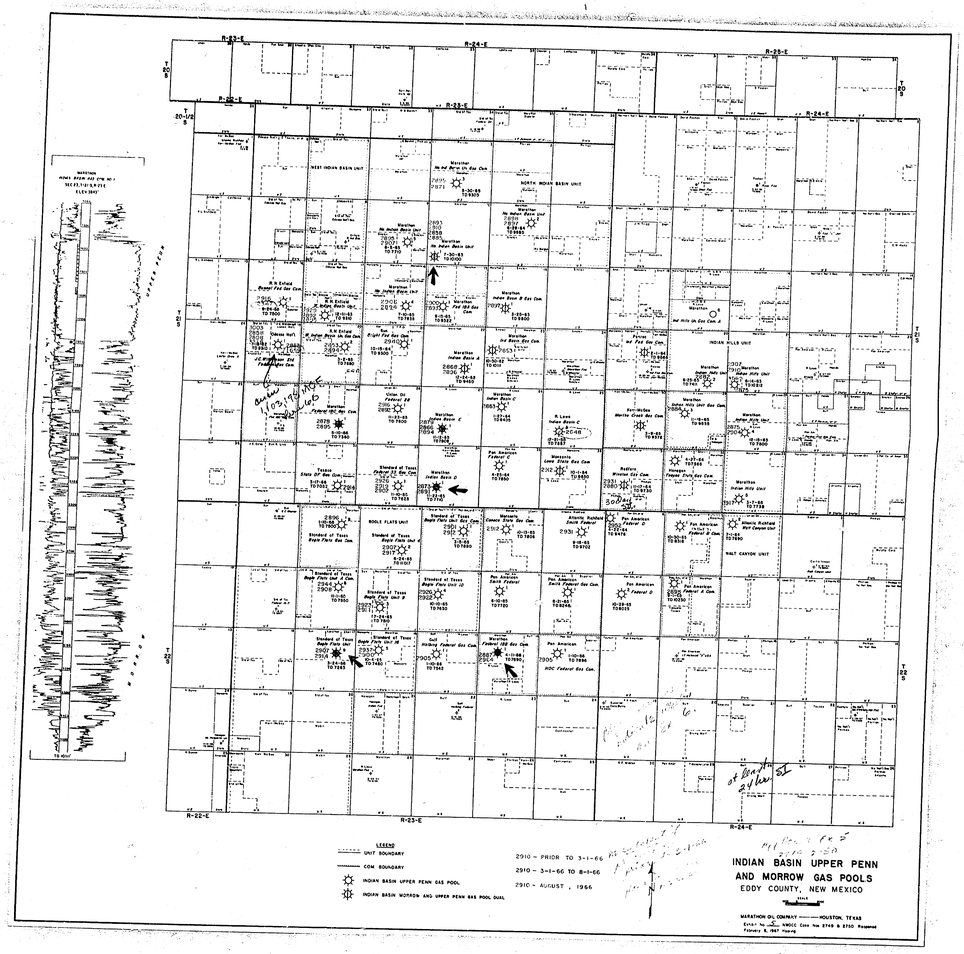
U.S.D.I. C.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

CORE LABORATORIES, INC. CORE LAB *Petroleum Reservoir Engineering*

COMPANY: [illegible] | FILE NO: RP-1-1945
WELL: INDIAN BASIN NO. 1 | DATE: 7-18-52
FIELD: WILDCAT | FORMATION: AS NOTED
COUNTY: EDDY | STATE: NEW MEXICO | DRILLING FLUID: WATER BASE MUD | CORES: [illegible] DIA 3/4"
LOCATION: SEC 23-T21L-R23E | REMARKS: ANALYSIS AS FURNISHED BY CLIENT

COMPLETION COREGRAPH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WEST INDIAN BASIN UNIT
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BOOLE FLATS UNIT
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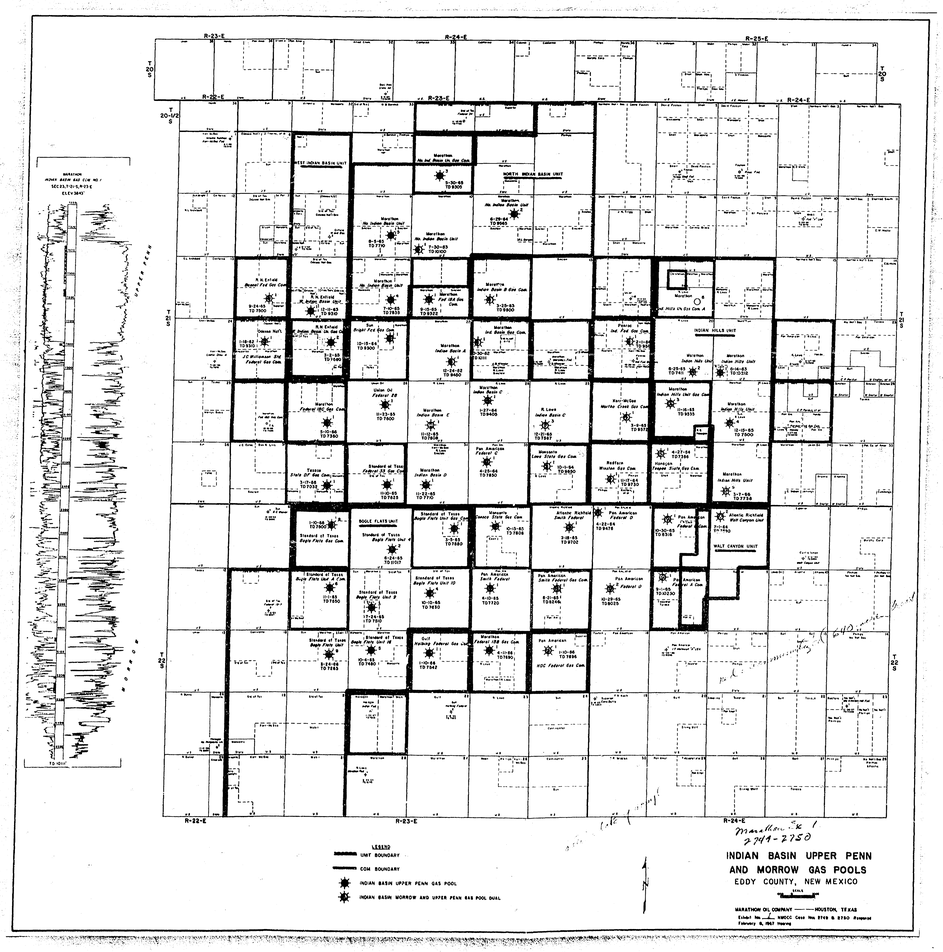
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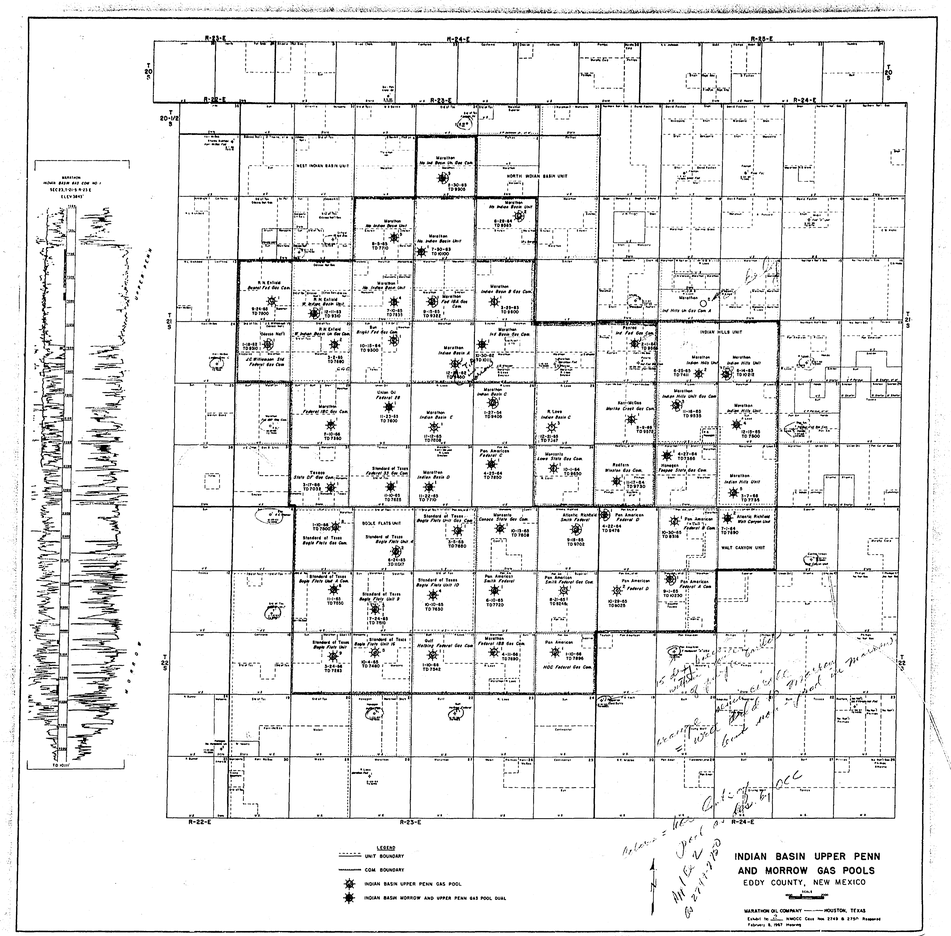
INDIAN BASIN MORROW AND UPPER PENN GAS POOL (Gas)
INDIAN BASIN UPPER PENN
AND MORROW GAS POOLS
EDDY COUNTY, NEW MEXICO
MARATHON OIL COMPANY — HOUSTON, TEXAS
Exhibit No. 1 to NMOCC Case Nos. 3700 & 3701 Presented February 6, 1963 Hearing



W.S.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

Case No.
2150
Large Exhibits

U.S.N.C.F. MICROGRAPHICS
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GENERAL AMERICAN OIL COMPANY OF TEXAS

HIGH LONESOME AREA

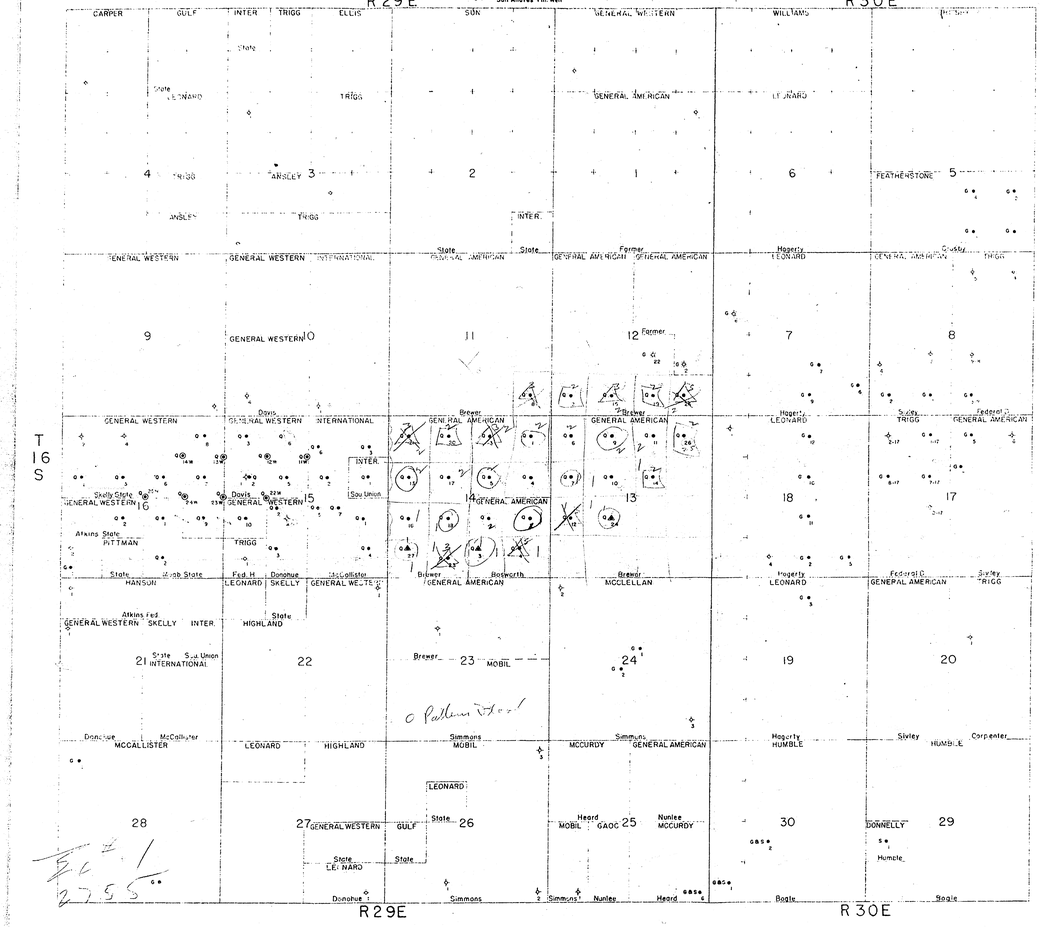
EDDY COUNTY, NEW MEXICO

SCALE

0 1000' 2000' 3000' 4000' 5000'

LEGEND

- ● – Oil Well
- ✲ – Gas Well
- ✧ – Dry Hole
- ⊛ – Water Input Well
- ▲ – Proposed Water Input Well
- 0 ● – Queen Fm. Well
- 0 ● – Grayburg Fm. Well
- 5 ● – San Andres Fm. Well



N.M.O.C.C. MICROGRAPHICS
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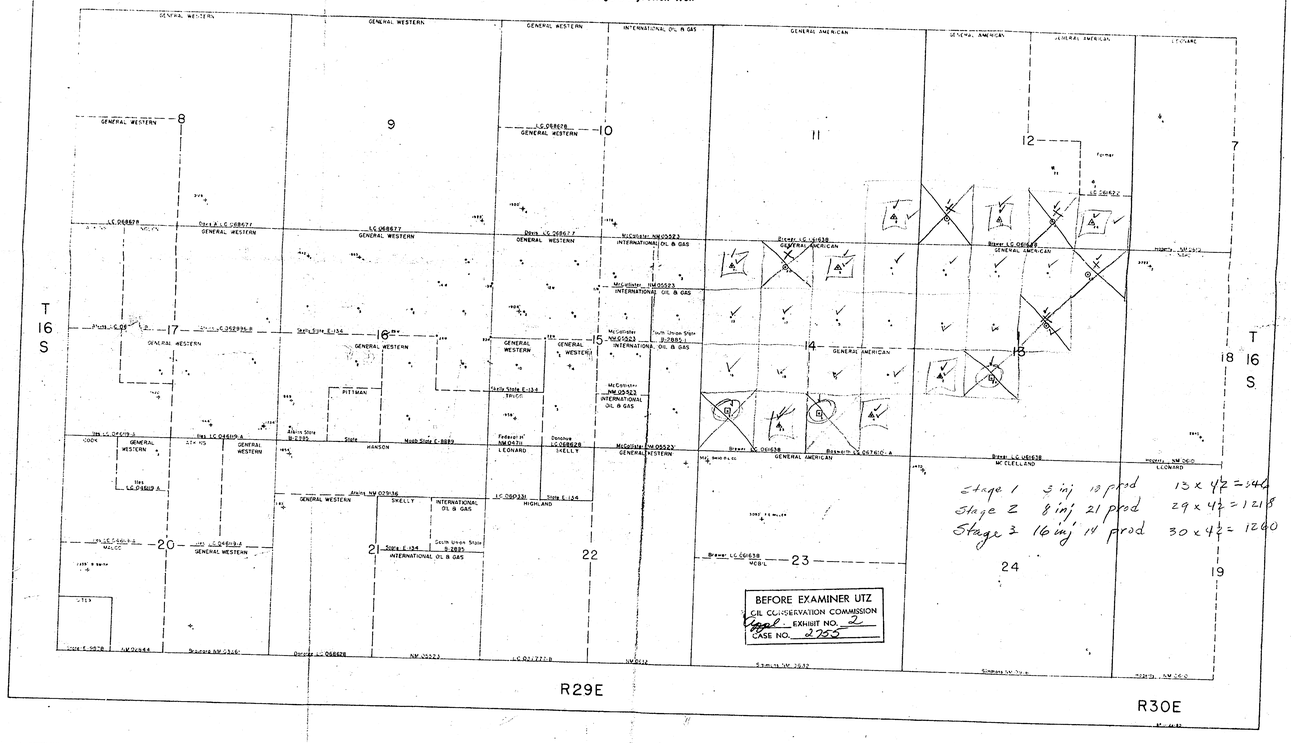
GENERAL AMERICAN OIL CO. OF TEXAS

HIGH LONESOME AREA

SCALE

FLOOD PLAN NO. I - PERIPHERAL
□ - Stage 1 Injection Well
○ - Stage 2 Injection Well
△ - Stage 3 Injection Well



BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
Gen. Am. EXHIBIT NO. 2
CASE NO. 2755

W.N.M.C.P. MICROGRAPHICS
BEST AVAILABLE COPY

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 1
CASE NO. 2705

Form 9-330

Budget Bureau No. 42-R355.5.
Approval expires 12-31-60.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 067610-A
LEASE OR PERMIT TO PROSPECT Bosworth

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. Mex.
Lessor or Tract Bosworth Field Undesignated State New Mexico
Well No. 3 Sec. 14 T. 16-S R. 29-E Meridian N.M.P.M. County Eddy
Location 1980 ft. {N.} of S. Line and 660 ft. {E.} of E. Line of Section 14 Elevation 3728'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ..... Title District Superintendent

Date Nov. 24, 1952

The summary on this page is for the condition of the well at above date.

Commenced drilling May 2, 1952 Finished drilling May 26, 1952

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2068' to 2097' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 1846' to 1853' No. 3, from ..... to .....
No. 2, from ..... to ..... No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	Rnd.	Unkn.	330'	Regular		330'		Salt String
8 5/8"	28#	Rnd.	National	1853'	Regular		1853'		Water String
7"	21#	LOW	Unkn	2068'	Unkn				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	330'	None	Obtained formation shut-off		
8 5/8"	1853'	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2068'	150	" "		

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

FRACTURING RECORD

Size	Shell used	Material used	Quantity	Date	Depth fractured From—	Depth fractured To—	Depth cleaned out
		Acid 400 gals.	500 gals.	5-27-52	2067'	2101'	
		Crude Oil	40,980 gals.	"	"	"	
		Ottawa Sand	120,000 gals.	"	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

DATES

June 4, 1952 Put to producing May 31, 1952

The production for the first 24 hours was 262 barrels of fluid of which 100% was oil; ..... % emulsion; ..... % water; and ..... % sediment. Gravity, °Bé ..... °API 35.4°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

R. M. Farr, Driller — Ben Porter, Driller
R. T. Haney, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	270	270	Red sandy shale
270	295	25	Anhy
295	388	93	Anhy & shale
388	425	37	Anhy
425	430	5	Red shale
430	480	50	Anhy
480	890	410	Salt
890	910	20	Anhy
910	920	10	Shale
920	1073	153	Anhy
1073	1200	127	Anhy & shale
1200	1625	425	Anhy
1625	1635	10	Red shale
1635	1846	211	Anhy
1846	1853	7	Red sand
1853	1858	5	Anhy
1858	1864	6	Red sand
1864	1877	13	Anhy
1877	1884	7	Lime
1884	1905	21	Anhy
1905	1909	4	Red shale
1909	1913	4	Brown lime
1913	1925	12	Anhy & lime
1925	2061	136	Anhy
2061	2068	7	Sandy lime
2068	2072	4	Sand & sandy lime
2072	2097	25	Sand
2097	2101	4	Anhy

FORMATION RECORD—Continued

FOLD | MARK

Form 9-330

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 067638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address Box 416, Loco Hills, N. Mex.
Lessor or Tract Brewer Field Wildcat State New Mexico
Well No. 1 Sec. 14 T. 16-S R. 29-E Meridian N.M.P.M. County Eddy
Location 660 ft. {N.} of N. Line and 660 ft. {E.} of E. Line of Section 14 Elevation 3728'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ..... Title Asst. Supt.

Date Sept. 2, 1958

The summary on this page is for the condition of the well at above date.

Commenced drilling Aug. 3, 1958 Finished drilling Aug. 23, 1958

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1355' to 1362' No. 4, from ..... to .....
No. 2, from 1903' to 1909' (g) No. 5, from ..... to .....
No. 3, from 2067' to 2080' No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 318' to 325' No. 3, from ..... to .....
No. 2, from 1835' to 1848' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	Rnd.	Unkn.	330'	Regular		330'		Salt String
8 5/8"	28#	Rnd.	National	1848'	Regular		1848'		Water String
7"	20#	LOW	Unkn	2067'	Unkn				Prod. String

HILOMA OIL OIF OS CVO AGT?

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	330'	None	Obtained formation shut-off		
8 5/8"	1853'	None	Pump & Plug	Heavy	50 sacks Aquagel
7"	2067'	150	Pump & Plug		

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth fractured From—	Depth fractured To—	Depth cleaned out
		Acid 400 gals.	500 gals.	8-27-58	2061'	2084'	
		Crude Oil	30,660 gals.	"	"	"	
		Ottawa Sand	51,000#	"	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2084' feet, and from ..... feet to ..... feet

DATES

Sept. 2, 1958 Put to producing Sept. 1, 1958

The production for the first 24 hours was 360 barrels of fluid of which 100% was oil; ..... % emulsion; ..... % water; and ..... % sediment. Gravity, °API ..... 39.5°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

W. H. Crabb, Driller — J. C. Crow, Driller
D. C. Crooks, Driller — Ben Porter, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	110	110	Red shale & sand
110	318	208	Red shale
318	350	32	Anhy
350	370	20	Red shale
370	378	8	Anhy
378	380	2	Elm
380	473	93	Anhy & red shale
473	890	417	Salt
890	1180	290	Anhy
1180	1305	125	Anhy & shale
1305	1353	48	Anhy
1353	1359	6	Brown sandy shale
1359	1510	151	Anhy
1510	1540	30	Lime
1540	1590	50	Anhy
1590	1733	143	Anhy & red shale
1733	1835	102	Anhy
1835	1848	13	Red sand
1848	1886	38	Anhy
1886	1909	23	Anhy & shale
1909	1915	6	Anhy
1915	1927	12	Brown lime
1927	1938	11	Anhy & red shale
1938	2002	64	Anhy
2002	2067	65	Brown shale
2067	2084	17	Anhy

FORMATION RECORD—Continued

FOLD | MARK

AT THE CITY OF ROSWELL, CHAVES COUNTY, NEW MEXICO, AT 9 O'CLOCK A.M. ON THE 27TH DAY OF AUGUST, A.D. 1958

W.N.M.C.P. MICROGRAPHICS
BEST AVAILABLE COPY

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 2 Sec. 34 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. $\{N/S\}$ of S. Line and 1980 ft. $\{E/W\}$ of E. Line of Section 34 Elevation 3720'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Date February 18, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling January 13, 19 59 Finished drilling February 6, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2056' to 2076' No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 345' to 352' No. 3, from to
No. 2, from 1828' to 1849' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	Rnd	Lone Star	353'	Regular				Surf. String
8 5/8"	20#	Rnd	Lone Star	1878'	Regular	1880'			Water String
7"	23#	8rd	Used	2045'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	385	None	Obtained formation shut-off		
8 5/8"	1880	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2052	150	"	"	15 " "

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Water Frac				
		20% HCl	480 gals.			
		Prod. Sd.	61,000 gals.	2-7-59	2052-2078'	
		Ottawa Sand	95,500 lbs.			

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2078 feet, and from feet to feet

DATES

February 18, 19 59 Put to producing February 13, 19 59.
The production for the first 24 hours was 257 barrels of fluid of which 100 % was oil; 0 % emulsion; % water; and % sediment. Gravity, Bé 39.0° API 36.0°
If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

D. G. Crooks, Driller Ben Porter, Driller
Hollis Gray, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Caliche
10	225	215	Red shale
225	345	120	Anhy
345	352	7	Sand
352	387	35	Red shale
387	400	13	Anhy
400	430	30	Red shale
430	450	20	Anhy
450	895	445	Salt
895	925	30	Anhy
925	935	10	Red shale
935	1065	130	Anhy
1065	1197	132	Anhy & shale
1197	1224	27	Lime
1224	1619	395	Anhy
1619	1630	11	Red sand
1630	1820	190	Anhy
1820	1828	8	Red shale
1828	1849	21	Red sand
1849	1878	29	Anhy
1878	1880	2	Salt
1880	1999	119	Anhy
1999	2003	4	Red shale
2003	2045	43	Anhy & shale
2045	2050	5	Anhy & sand
2050	2076	26	Sand
2076	2078	2	Anhy & sand

FORMATION RECORD—Continued

I HEREBY CERTIFY THAT I HAVE EXAMINED THE ABOVE WELL RECORD AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF IT IS A TRUE AND COMPLETE LOG OF THE WELL AND ALL WORK DONE THEREON AS DETERMINED FROM ALL AVAILABLE RECORDS.

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 7 Sec. 33 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 2080 ft. $\{N/S\}$ of S. Line and 660 ft. $\{E/W\}$ of W. Line of Section 13 Elevation 3730'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Date April 7, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling March 9, 19 59 Finished drilling April 4, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2067' to 2105' No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 364' to 369' No. 3, from to
No. 2, from 1848' to 1858' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	Rnd	Lone Star	337'	Regular				Surf. String
8 5/8"	20#	8rd	Lone Star	1910'	Regular	1912'			Water String
7"	23#	8rd	Used	2081'	Guide	2081'			Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	400	None	Obtained formation shut-off		
8 5/8"	1921	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2084	150	"	"	" "

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2119 feet, and from feet to feet

DATES

April 7, 19 59 Put to producing April 4, 19 59
The production for the first 24 hours was 206 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, Bé 39.0° API 36.0°
If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

M. H. Crabb, Driller E. J. Parish, Driller
J. G. Crow, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	312	312	Red shale
312	330	18	Shale & anhy
330	364	34	Anhy
364	369	5	Sand
369	417	48	Red shale
417	420	3	Anhy
420	450	30	Grp & red rock
450	463	13	Red shale
463	477	14	Anhy & shale
477	915	438	Salt
915	1095	180	Anhy
1095	1235	140	Anhy & shale
1235	1620	385	Anhy
1620	1645	25	Anhy & shale
1645	1805	160	Anhy & salt
1805	1848	43	Anhy
1848	1858	10	Red sand
1858	2030	172	Anhy
2030	2050	20	Anhy & shale
2050	2065	15	Anhy
2065	2080	15	Anhy & sand
2080	2119	39	Gray sand

FORMATION RECORD—Continued

I HEREBY CERTIFY THAT I HAVE EXAMINED THE ABOVE WELL RECORD AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF IT IS A TRUE AND COMPLETE LOG OF THE WELL AND ALL WORK DONE THEREON AS DETERMINED FROM ALL AVAILABLE RECORDS.

N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

Form 9-330

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

LOCATE WELL CORRECTLY

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 10 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of N. Line and 1980 ft. [W.] of W. Line of Section 14 Elevation 3733'
(Derrick floor relative to sea level or ground)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed W. A. Wood
Date June 2, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling April 30, 19 59 Finished drilling May 8, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2071' to 2095' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 368' to 377' No. 3, from ..... to .....
No. 2, from 1837' to 1850' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Unkn	455'	Baash	None			Salt String
8 5/8"	24#	8rd	Unkn	1837'	Baash	None			Water String
7"	23#	8rd	Unkn	2065'	Baash	None			Prod. String

RECORD OF OIL OR GAS SHOT

Size casing	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
7"		Nitro-Glycerine	500 qts.	5-7-59	2065-2095'	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	455'	None	Obtained formation shut-off		
8 5/8"	1829'	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2068'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2095 feet, and from ..... feet to ..... feet

DATES

June 2, 1959 Put to producing May 8, 1959

The production for the first 24 hours was 1848 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

Gravity, °API 35.5°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

M. H. Crabb, Driller E. J. Parish, Driller
J. O. Crow, Driller ....., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Caliche
15	290	275	Shale
290	300	10	Gyp
300	310	10	Shale
310	377	67	Anhy
377	450	73	Shale
450	465	15	Anhy
465	905	440	Salt
905	1070	165	Anhy
1070	1205	135	Anhy & shale
1205	1225	20	Anhy & lime
1225	1337	112	Anhy
1337	1345	8	Anhy & lime
1345	1837	492	Anhy
1837	1850	13	Red sand
1850	1929	79	Anhy
1929	1940	11	Anhy & shale
1940	2011	71	Anhy
2011	2023	12	Anhy
2023	2026	3	Lime
2026	2065	39	Anhy
2065	2068	3	Sandy lime
2068	2095	27	Sand

AT THE END OF COMPLETE DRILLERS LOG, ATTACH STATE WELL RECORD.

FOLD MARK

FORMATION RECORD—Continued

Form 9-330

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

LOCATE WELL CORRECTLY

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 10 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N.] of N. Line and 660 ft. [W.] of W. Line of Section 14 Elevation 3706'
(Derrick floor relative to sea level or ground)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed W. A. Wood
Date August 5, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling June 8, 19 59 Finished drilling July 6, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1993' to 2020' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 1766' to 1780' No. 3, from ..... to .....
No. 2, from ..... to ..... No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Unkn	455'	Baash	None			Salt String
8 5/8"	24#	8rd	Unkn	1831'	Baash	None			Water String
7"	23#	8rd	Unkn	1993'	Baash	None			Prod. String

RECORD OF OIL OR GAS SHOT

Size casing	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
7"		Nitro-Glycerine	900 qts.	7-7-59	1993-2023'	
		Dry Ice	900 lbs.	"	"	
		Crude Oil	62,000 gals.	"	"	
		Ottawa Sand	130,000 lbs.	"	"	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	460'	None	Obtained formation shut-off		
8 5/8"	1831	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	1993	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2023 feet, and from ..... feet to ..... feet

DATES

August 6 Put to producing July 13, 1959

The production for the first 24 hours was 440 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

Gravity, °API 35.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

R. C. Crooks, Driller J. R. Wilcox, Driller
L. P. Jennings, Driller ....., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	1	Caliche
15	250	235	Sand & shale
250	290	40	Anhy
290	330	40	Shale
330	405	75	Anhy
405	840	435	Salt
840	1000	160	Anhy
1000	1040	40	Red shale
1040	1159	119	Anhy & shale
1159	1280	121	Anhy
1280	1302	22	Lime
1302	1630	328	Anhy
1630	1636	6	Anhy & shale
1636	1766	130	Anhy
1766	1780	14	Red sand
1780	1931	151	Anhy
1931	1940	9	Anhy & shale
1940	1993	53	Anhy
1993	2020	27	Sand
2020	2023	3	Sand & anhy

AT THE END OF COMPLETE DRILLERS LOG, ATTACH STATE WELL RECORD.

FOLD MARK

FORMATION RECORD—Continued

N.M.S.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 18 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N./S.] of S. Line and 1980 ft. [E./W.] of W. Line of Section 14 Elevation 3711'
(Derrick floor relative to sea level or ground)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. J. Heard
Title District Superintendent

Date September 8, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling August 6, 1959 Finished drilling August 29, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1302' to 1306' (G) No. 4, from ... to ...
No. 2, from 2019' to 2043' No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 350' to 384' No. 3, from ... to ...
No. 2, from 1805' to 1815' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Nat'l	321'	Baker				Salt Sealing
7"	20#	8rd	Nat'l	1805'	Baker				Water Sealing
5 1/2"	14#	8rd	Nat'l	2043'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	321'	None	Obtained formation shut-off		
7"	1810'	None	Pump & Plug	Heavy	30 sacks Aquagel
5 1/2"	2039'	150	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

SHOOTING OR CHEMICAL TREATMENT RECORD

Size	Shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
		Water Frac (20# gel)	500 gals.	8-30-59	2019-2043'	
		Crude Oil	61,150 gals.	"	"	
		Oil Sand	Sand 500,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2047 feet, and from ... feet to ... feet

DATES

September 8, 19 59 Put to producing September 1, 1959

The production for the first 24 hours was 605 barrels of fluid of which 100% was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, °API 35.0°

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...

Rock pressure, lbs. per sq. in. ...

EMPLOYEES

E. W. Farr, Driller ... Ben Porter, Driller
T. T. Haney, Driller ... , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	20	20	Caliche
20	300	280	Red shale
300	320	20	Anhy & Red Shale
320	326	6	Sand
326	382	56	Anhy
382	415	33	Anhy & red shale
415	445	30	Anhy
445	892	447	Salt
892	1168	276	Anhy
1168	1191	23	Lime
1191	1197	6	Anhy & lime
1197	1585	388	Anhy
1585	1595	10	Sand
1595	1792	197	Anhy
1792	1822	30	Red sand
1822	1922	100	Anhy
1922	1950	28	Lime & Anhy
1950	2022	72	Anhy
2022	2044	22	Sand
2044	2047	3	Sand & anhy

AT THE END OF COMPLETE DRILLERS LOG, FOR ADDITIONAL SPACE USE REVERSE SIDE.

FORMATION RECORD—Continued

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 5
CASE NO. 2755

Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 3 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N./S.] of N. Line and 1980 ft. [E./W.] of E. Line of Section 14 Elevation 3633'
(Derrick floor relative to sea level or ground)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. J. Heard District
Title Dist. Superintendent

Date December 1, 1958

The summary on this page is for the condition of the well at above date.

Commenced drilling October 22, 19 58 Finished drilling November 23, 19 58

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2062' to 2078' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 218' to 525' No. 3, from ... to ...
No. 2, from 1831' to 1838' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Nat'l	317'	Baker				Salt Sealing
7"	20#	8rd	Nat'l	1810'	Baker				Water Sealing
5 1/2"	15.5#	8rd	Nat'l	2052'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	317	None	Obtained formation shut-off		
7"	1810	None	Pump & Plug	Heavy	45 sacks Aquagel
5 1/2"	2055	150	"	"	15 sacks Aquagel

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

SHOOTING OR CHEMICAL TREATMENT RECORD

Size	Shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
		Water Frac (20# gel)	600 gals.	11-24-58	2055-2081'	
		Crude Oil	56,196 gals.	"	"	
		Oil Sand	Sand 90,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2081 feet, and from ... feet to ... feet

DATES

December 3, 19 58 Put to producing December 3, 19 58

The production for the first 24 hours was 89 barrels of fluid of which 100 % was oil; ... % emulsion; ... % water; and ... % sediment. Gravity, °Bé 36° API

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...

Rock pressure, lbs. per sq. in. ...

EMPLOYEES

D. C. Crooks, Driller ... Ben Porter, Driller
E. J. Parish, Driller ... , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	318	318	Red shale
318	325	7	Sand
325	355	30	Anhy
355	440	85	Red shale
440	465	25	Anhy
465	900	435	Salt
900	915	15	Anhy
915	940	25	Salt
940	980	40	Salt & anhy
980	1070	90	Anhy
1070	1195	125	Anhy & shale
1195	1831	636	Anhy
1831	1838	7	Sand
1838	1920	82	Anhy
1920	1960	40	Lime
1960	2030	70	Anhy
2030	2057	27	Anhy & sand
2057	2063	6	Anhy
2063	2078	15	Sand
2078	2084	6	Anhy & sand

AT THE END OF COMPLETE DRILLERS LOG, FOR ADDITIONAL SPACE USE REVERSE SIDE.

FORMATION RECORD—Continued

N.M.O.C.C. MICROGRAPHICS
BEST AVAILABLE COPY

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. Mex.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 8 Sec. 11 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N/S] of S. Line and 660 ft. [E/W] of E. Line of Section 11 Elevation 3726'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....
Date April 28, 1959 Title R. W. Reed, Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling March 25, 1959. Finished drilling April 20, 1959.

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1332' to 1398' (G) No. 4, from ..... to .....
No. 2, from 2062' to 2083' No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 1828' to 1851' No. 3, from ..... to .....
No. 2, from ..... to ..... No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	Rnd	Lone Star	1001'	Baker	None			Surf. String
8 5/8"	24#	Rnd	Lone Star	1862'	Baker	None			Water Shutoff
7"	23 & 24#	Rnd	Used	2056'	Guide	None			Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	400'	None	Obtained formation shut-off		
8 5/8"	1870'	None	Pump & Plug	Heavy	35 Sacks
7"	2059'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION RECORD

Size	Shot used	Stimulating fluid or explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Material			Treated	
		20% HCl	500 gals.	4-21-59	2059-68'	
		Crude Oil	61,428 Gals.	"	"	
		Ottawa Sand	90,800 lbs.	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2065 feet, and from ..... feet to ..... feet

DATES

April 28, 1959 Put to producing April 28, 1959

The production for the first 24 hours was 120 barrels of fluid of which 100 % was oil; ...0...% emulsion; ...0...% water; and ...0...% sediment. Gravity, API 36.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

D. C. Crooke Driller Hollis Gray Driller
E. M. Farr Driller Ben Porter Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Sand & caliche
10	235	225	Sand & shale
235	314	79	Shale & anhy
314	327	13	Gravel
327	346	19	Gravel & shale
346	358	12	Broken anhy
358	396	38	Red shale
396	481	85	Anhy
481	892	411	Salt
892	1013	121	Anhy
1013	1066	53	Anhy & lime
1066	1073	7	Red shale
1073	1131	58	Anhy
1131	1142	11	Red sand
1142	1196	54	Anhy & shale
1196	1332	136	Anhy
1332	1339	7	Lime
1339	1548	209	Anhy
1548	1551	3	Lime
1551	1620	69	Anhy
1620	1658	38	Anhy & shale
1658	1695	37	Anhy & salt
1695	1828	133	Anhy
1828	1851	23	Red caves
1851	2010	159	Anhy
2010	2059	49	Shale & sand

AT THE END OF COMPLETE DRILLER'S LOG, ADD ANY FURTHER FORMATION HERE.

FORMATION RECORD—Continued

18-43064-4

FOLD MARK

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. Mex.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 12 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N/S] of S. Line and 659 ft. [E/W] of W. Line of Section 13 Elevation 3727'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....
Date July 10, 1959 Title R. W. Reed, District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling June 3, 1959. Finished drilling June 27, 1959.

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1365' to 1370' (G) No. 4, from ..... to .....
No. 2, from 2108' to 2130' No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 352' to 360' No. 3, from ..... to .....
No. 2, from 1867' to 1877' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	Rnd	Lone Star	402'	Baker	None			Surf. String
8 5/8"	24#	Rnd	Lone Star	1950'	Baker	None			Water Shutoff
7"	23 & 24#	Rnd & 8rd	Used	2110'	Guide	None			Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	402	None	Obtained formation shut-off		
8 5/8"	1951	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2105	200	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION RECORD

Size	Shot used	Stimulating fluid or explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Material			Treated	
		20% HCl	500 gals.	6-29-59	2105-2134'	
		Crude Oil	58,812 gals.	"	"	
		Ottawa Sand	123,000#	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2134 feet, and from ..... feet to ..... feet

DATES

July 10, 1959 Put to producing July 7, 1959

The production for the first 24 hours was 96 barrels of fluid of which 100 % was oil; ...0...% emulsion; ...0...% water; and ...0...% sediment. Gravity, API 35.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

E. M. Farr Driller Ben Porter Driller
K. T. Haney Driller Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	260	260	Red shale
260	360	100	Anhy
360	450	90	Red shale
450	495	45	Anhy
495	915	420	Salt
915	1046	131	Anhy
1046	1085	39	Lime
1085	1224	139	Anhy & shale
1224	1250	26	Lime
1250	1310	60	Anhy
1310	1332	22	Lime
1332	1663	331	Anhy
1663	1668	5	Red shale
1668	1867	199	Anhy
1867	1877	10	Red sand
1877	1942	65	Anhy
1942	1951	9	Anhy & shale
1951	1956	5	Lime
1956	1961	5	Anhy & shale
1961	2090	129	Anhy
2090	2095	5	Sand
2095	2100	5	Sandy lime
2100	2123	23	Sand
2123	2134	11	Sand & anhy

AT THE END OF COMPLETE DRILLER'S LOG, ADD ANY FURTHER FORMATION HERE.

FORMATION RECORD—Continued

18-43064-4

FOLD MARK

U.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. Land Office Las Cruces
Serial Number 061630
Lease or Permit to Prospect Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, New Mexico
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 15 Sec. 12 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. $\frac{N}{S}$ of S. Line and 1977 ft. $\frac{E}{W}$ of W. Line of Section 12 Elevation 3723'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. J. Uzzell
Date August 12, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling July 6, 19 59 Finished drilling August 4, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2060' to 2087' No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 330' to 340' No. 3, from to
No. 2, from 1845' to 1865' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	National	317'	Baker				Salt String
8 5/8"	24#	8rd	Bethlehem	1950'	Baker				Water String
7"	20#	8rd	Pittsburg	2072'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	317'	None	Obtained formation shut-off		
8 5/8"	1938'	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2060'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

STIMULATION TREATMENT RECORD

Size	Shot or treated	Material used	Quantity	Date	Depth shot or treated	Depth cleaned out
		Acid				
		20% HCl	500 gals.	8-5-59	2060-2090'	
		Crude Oil	64,000 gals.	"	"	
		Ottawa Sand	205,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2090 feet, and from feet to feet

DATES

August 12, 19 59 Put to producing August 13, 19 59

The production for the first 24 hours was 318 barrels of fluid of which 100% was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, °API 35.0°

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

Truman Jacobs, Driller Charley Powell, Driller
Al Luke, Driller Bill Walker, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	5	5	Sand
5	15	10	Caliche
15	230	215	Sand & shale
230	330	100	Anhy
330	340	10	Sand
340	447	107	Shale & anhy
447	480	33	Anhy
480	975	495	Salt
975	1080	105	Anhy
1080	1115	35	Sand shale
1115	1130	15	Anhy
1130	1295	165	Anhy & shale
1295	1610	315	Anhy
1610	1630	20	Brown sand
1630	1635	5	Anhy
1635	1660	25	Salt
1660	1845	185	Anhy & salt
1845	1865	20	Red sand
1865	1929	64	Anhy & salt
1929	1938	79	Anhy & shale
1938	1943	5	Anhy & salt
1943	1958	15	Lime
1958	1969	11	Anhy
1969	1971	22	Anhy & lost chert
1971	1976	5	Sand
1976	2020	44	Anhy

AT THIS END OF COMPLETE DRILLING
TOTAL FEET IS 2020.
WELL IS PLUGGED AS SHOWN.

FORMATION RECORD—Continued

FOLD

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. Land Office Las Cruces
Serial Number 061630
Lease or Permit to Prospect Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 22 Sec. 12 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. $\frac{N}{S}$ of S. Line and 660 ft. $\frac{E}{W}$ of W. Line of Section 12 Elevation 3721'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. J. Uzzell
Date November 3, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling September 15, 19 59 Finished drilling October 7, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1992' to 2020' No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 297' to 305' No. 3, from to
No. 2, from 1770' to 1787' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	National	317'	Baker				Salt String
8 5/8"	24#	8rd	Bethlehem	1950'	Baker				Water String
5 1/2"	14#	8rd	Republic	1992'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	317'	None	Obtained formation shut-off		
8 5/8"	1807'	None	Pump & Plug	Heavy	30 sacks
5 1/2"	1991'	150 (Around Shoe) 50 (705-297')	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

STIMULATION TREATMENT RECORD

Size	Shot or treated	Material used	Quantity	Date	Depth shot or treated	Depth cleaned out
		Acid				
		20% HCl	500 gals.	10-8-59	1991-2020'	
		Crude Oil	60,252 gals.	"	"	
		Ottawa Sand	250,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2022 feet, and from feet to feet

DATES

November 5, 19 59 Put to producing October 25, 19 59

The production for the first 24 hours was 63 barrels of fluid of which 100% was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, °API 34.0°

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

R. G. Crooks, Driller J. E. Wilcox, Driller
L. F. Jennings, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	210	210	Red shale & sand
210	297	77	Red shale
297	315	18	Anhy
315	380	65	Shale & shells
380	420	40	Red shale
420	825	405	Salt
825	860	35	Anhy
860	880	20	Red shale
880	1160	280	Anhy & red shale
1160	1280	120	Anhy
1280	1305	25	Lime
1305	1555	250	Anhy
1555	1568	13	Sand & shale
1568	1770	202	Anhy
1770	1787	17	Red sand
1787	1810	23	Anhy
1810	1807	-3	SLM
1807	1928	121	Anhy
1928	1987	49	Anhy & shale
1987	1992	5	Sandy lime
1992	2022	30	Sand

AT THIS END OF COMPLETE DRILLING
TOTAL FEET IS 2022.
WELL IS PLUGGED AS SHOWN.

FORMATION RECORD—Continued

FOLD

W.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

Form 9-330

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061630
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 23 Sec. 24 T. 16S R. 28E Meridian N.M.P.M. County Eddy
Location 660 ft. from [N] line and 4590 ft. from [E] line of M Line of Section 24 Elevation 3704'
(Derrick floor relative to sea level or ground)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. V. Beard
Date December 9, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling October 20, 19 59 Finished drilling November 16, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2025' to 2040' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 266' to 295' No. 3, from ..... to .....
No. 2, from 1792' to 1815' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Nat'l	315'	Regular				Salt String
8 5/8"	24#	8rd	Nat'l	1997'	Guide				Water String
7"	20 & 23#	8rd	Nat'l	2020'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	382'	None	Obtained formation shut-off		
8 5/8"	1839'	None	Pump & Plug	Heavy	15 sacks Aquagel
7"	2026'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION [illegible] RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		20% HCl	500 gals.	11-18-59	2024-2046'	
		Crude Oil	69,258 gals.	"	"	
		Ottawa Sand	240,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from ..... 0 ..... feet to ..... 2016 ..... feet, and from ..... feet to ..... feet

DATES

December 9, 19 59 Put to producing December 9, 19 59

The production for the first 24 hours was 40 barrels of fluid of which 100 % was oil; .0.% emulsion; .0.% water; and 0. % sediment. Gravity, [illegible] 35.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

D. C. Crooks, Driller G. N. Harris, Driller
J. S. Dennis, Driller [illegible], Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Caliche
10	250	240	Red sand and shale
250	260	10	Gravel
260	325	65	Anhy
325	372	47	Red shale
372	382	10	Anhy
382	410	28	Red shale
410	450	40	Anhy and shale
450	855	405	Salt
855	900	45	Anhy and shale
900	974	74	Anhy
974	999	25	Anhy and lime
999	1025	26	Anhy
1025	1152	127	Anhy and red shale
1152	1415	263	Anhy
1415	1420	5	Anhy and shale
1420	1438	18	Lime
1438	1604	166	Anhy
1604	1625	21	Red sandy shale
1625	1792	167	Anhy
1792	1815	23	Red shale
1815	1835	20	Anhy & lime
1835	1843	8	Lime
1843	1845	2	Anhy
1845	1939	94	Lime
1939	1990	51	Anhy

FOLD | MARK

AT THE BACK OF COMPLETE DRILLERS RECORD IF ADDITIONAL SPACE IS NEEDED USE FORM 9-330A

FORMATION RECORD—Continued

Form approved.
Budget Bureau No. 42-R355.5.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061630
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 26 Sec. 12 T. 16S R. 28E Meridian N.M.P.M. County Eddy
Location 660 ft. from [N] line and 990 ft. from [W] line of E Line of Section 12 Elevation 3714'
(Derrick floor relative to sea level or ground)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. V. Beard
Date January 14, 1960 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling November 29, 59 Finished drilling December 19, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2103' to 2113' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 335' to 341' No. 3, from ..... to .....
No. 2, from 1857' to 1885' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Nat'l	415'	Regular				Salt String
8 5/8"	24#	8rd	Nat'l	2003'	Guide				Water String
7"	23#	8rd	Used	2077'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	415'	None	Obtained formation shut-off		
8 5/8"	2003'	None	Pump & Plug	Heavy	15 sacks Gel
7"	2068'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION [illegible] RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		20% HCl	500 gals.	12-20-59	2098-2114'	
		Crude Oil	60,399 gals.	"	"	
		Ottawa Sand	240,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from ..... 0 ..... feet to ..... 2116 ..... feet, and from ..... feet to ..... feet

DATES

January 14, 19 60 Put to producing December 25, 19 59

The production for the first 24 hours was 568 barrels of fluid of which 100 % was oil; .0.% emulsion; .0.% water; and .0.% sediment. Gravity, [illegible] 35.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

R. O. Caffey, Driller J. C. Crow, Driller
D. C. Crooks, Driller [illegible], Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Sand and red shale
15	330	315	Red shale
330	335	5	Gravlco
335	341	6	Sand
341	390	49	Anhy
390	410	20	Red shale
410	415	5	Anhy
415	420	5	Anhy and shale
420	440	20	Red shale
440	490	50	Anhy and shale
490	945	455	Salt
945	995	50	Anhy and shale
995	1065	70	Anhy
1065	1240	175	Anhy and shale
1240	1660	420	Anhy
1660	1695	35	Anhy and red shale
1695	1867	172	Anhy
1867	1885	18	Red sand
1885	1917	32	Anhy
1917	1928	11	Lime
1928	1935	7	Anhy & lime
1935	1939	4	SLK
1939	2038	109	Anhy
2038	2096	58	Anhy and shale
2096	2103	7	Sandy lime
2103	2116	13	Sand

AT THE BACK OF COMPLETE DRILLERS RECORD IF ADDITIONAL SPACE IS NEEDED USE FORM 9-330A.

FORMATION RECORD—Continued

U.S.G.S. MICROGRAPHICS
BEST AVAILABLE COPY

Form 9-330

Form approved.
Budget Bureau No. 42-R355.5.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 067610-A
LEASE OR PERMIT TO PROSPECT Bonorth

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Lovo Hills, N. M.
Lessor or Tract Bonorth Field High Lonesome State New Mexico
Well No. 4 Sec. 34 T. 16S. R. 29E. Meridian N.M.P.M. County Eddy
Location 990 ft. [N.] of S. Line and 990 ft. [W.] of E. Line of Section 34 Elevation 3737'
(Derrick floor relative to sea level or ground)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....

Date February 8, 1960 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling December 24, 1959 Finished drilling January 15, 1960

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1365' to 1368' (G) No. 4, from ..... to .....
No. 2, from 2060' to 2076' No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 455' to 460' No. 3, from ..... to .....
No. 2, from ..... to ..... No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	Rnd	Used	361'	Regular	361'			Surface String
8 5/8"	24#	Rnd	Used	2061'	Regular	2061'			Water String
7"	17 & 20#	Rnd	Used	1071'	Baker	1071'			Water String
5 1/2"	14#	Rnd	New	2077'	Guide				Prod. String

HEDGES OIL OIL CVD WEST

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	381'	None	Obtained formation shut-off		
8 5/8"	2061'	None	Obtained formation shut-off		
7"	1071'	None	Pump & Plug	Heavy	15 sacks Aquagel
5 1/2"	2050'	150 + 50	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
	Mat. Acid				
	20% HCL	500 gals.	1-20-60	2050-2075'	
	Crude Oil	53,634	"	"	"
	Ottawa Sand	200,000 lbs.	"	"	"

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2079 feet, and from ..... feet to ..... feet

DATES

February 8, 1960 Put to producing January 26, 1960

The production for the first 24 hours was 92 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

Gravity, °API 35.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

J. G. Grow, Driller — G. E. Harris, Driller
R. T. Haney, Driller — V. E. Wilcox, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Caliche
15	280	265	Red shale
280	335	55	Red shale & anhy
335	375	40	Red shale
375	377	2	Anhy
377	381	4	Salt
381	395	14	Red shale
395	405	10	Anhy
405	440	35	Red shale
440	460	20	Red shale & anhy
460	888	428	Salt
888	925	37	Anhy
925	938	13	Shale & anhy
938	1062	124	Anhy
1062	1100	38	Red shale
1100	1187	87	Red shale & anhy
1187	1250	63	Anhy
1250	1305	55	Anhy & shale
1305	1576	271	Anhy
1576	1750	174	Anhy & shale
1750	1825	75	Anhy
1825	1849	24	Red sand
1849	1900	51	Anhy
1900	1915	15	Anhy & shale
1915	1996	81	Anhy
1996	2016	20	Anhy & shale

AT THE END OF COMPLETE DRILLER'S LOG, FURNISH INFORMATION WHETHER FROM CL OR SAMPLES.

Continued—RECORD NOTATION (REVERSE)

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 2
CASE NO. 2735

Form 9-330

Budget Bureau No. 42-R355.5.
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Lovo Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 2 Sec. 12 T. 16S. R. 29E. Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of S. Line and 660 ft. [W.] of W. Line of Section 12 Elevation 3728'
(Derrick floor relative to sea level or ground)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....

Date October 20, 1958 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling September 4, 1958 Finished drilling October 5, 1958

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1343' to 1358' (G) No. 4, from ..... to .....
No. 2, from 2060' to 2070' No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 352' to 362' No. 3, from ..... to .....
No. 2, from 1828' to 1836' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	Rnd	Used	362'	Regular	362'			Surface String
8 5/8"	24#	Rnd	Used	2061'	Regular	2061'			Water String
7"	17 & 20#	Rnd	Used	1071'	Baker	1071'			Water String
5 1/2"	14#	Rnd	New	2070'	Guide				Prod. String

HEDGES OIL OIL CVD WEST

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	368'	None	Obtained formation shut-off		
8 5/8"	1857'	None	Obtained formation shut-off		
7"	2061'	100	Pump & Plug	Heavy	50 bbls.
5 1/2"					

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
	Mat. Acid				
	20% HCL	500 gals.	10-12-58	2060-2080'	
	Crude Oil	53,634 lbs.	10-12-58	"	"
	Ottawa Sand	83,000 lbs.	"	"	"

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2080 feet, and from ..... feet to ..... feet

DATES

October 20, 1958 Put to producing October 16, 1958

The production for the first 24 hours was 396 barrels of fluid of which 100 % was oil; ..... % emulsion; ..... % water; and ..... % sediment.

Gravity, °Bé. 36.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

M. H. Crabb, Driller — Ben Porter, Driller
D. C. Crooke, Driller — ....., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	237	237	Red shale & sand
237	362	125	Anhy & grv
362	405	43	Red shale
405	413	8	Anhy & grv
413	445	32	Red shale
445	463	18	Anhy
463	890	427	Salt
890	1055	165	Anhy
1055	1070	15	Lime
1070	1118	48	Red shale
1118	1206	88	Shale & anhy
1206	1886	680	Anhy
1886	1900	14	Anhy & red shale
1900	2000	100	Anhy
2000	2048	48	Anhy & red shale
2048	2085	37	Sand
2085	2108	23	Anhy
2108	2220	112	Anhy & red shale
2220	2238	18	Anhy
2238	2285	47	Anhy
2285	2335	50	Lime & anhy
2335	2430	95	Lime
2430	2452	22	Red shale & anhy
2452	2470	18	Anhy & grvs
2470	2498	28	Anhy & lime
2498	2527	29	Anhy
2527	2581	54	Anhy & lime

AT THE END OF COMPLETE DRILLER'S LOG, FURNISH INFORMATION WHETHER FROM CL OR SAMPLES.

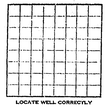
Continued—RECORD NOTATION (REVERSE)

U.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

Form 9-330

Budget Bureau No. 42 R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 14 Sec. 13 T. 18S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. $\frac{N}{S}$ line and 1980 ft. $\frac{E}{W}$ of S. Line of Section 13 Elevation 3741'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date August 7, 1959 Title Dr'l'g Prod. Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling June 23, 1959 Finished drilling July 25, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2114' to 2119' No. 4, from ..... to .....
No. 2, from 2124' to 2130' No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 345' to 355' No. 3, from ..... to .....
No. 2, from 390' to 394' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#		Used	415'	Regular				Salt String
8 5/8"	20#		Used	1925'	Regular				Water String
7"	20 & 23#	8rd	Used	2153'	Guide				Pecos String

NOTE: See Reverse Side for Additional Casing Record

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	415'	None	Obtained formation shut-off		
8 5/8"	1976'	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2164'	150	"	"	"

NOTE: Plugged back from TD 2637' to 2150' W/87 sacks cement.

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot or treated	Depth cleaned out
		20% HCl	500 gals.	8-1-59	2124-2150'	
		Grade 011	52,710 gals.	"	"	
		Ottawa Sand	180,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2637 feet, and from ..... feet to ..... feet

DATES

August 7, 1959 Put to producing August 6, 1959

The production for the first 24 hours was 284 barrels of fluid of which 100 % was oil 0 % emulsion; 0 % water; and 0 % sediment. Gravity, °BE 35.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

J. O. Crow, Driller E. J. Parish, Driller
G. H. Harris, Driller M. P. Willis, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	5	5	Cellar
5	15	10	Caliche
15	270	255	Sand & shale
270	325	55	Anhy & shale
325	335	10	Gravel
335	400	65	Anhy
400	480	80	Anhy & shale
480	2490	10	Anhy, trace
2490	2500	10	Salt w/ anhy
2500	2580	80	Anhy & shale
2580	2610	30	Anhy w/ trace
2610	2632	22	Sand, gray-brown
2632	2638	6	Anhy
2638	2692	54	Anhy & shale
2692	2700	8	Anhy w/ trace
2700	2720	20	Anhy & shale
2720	2730	10	Anhy
2730	2735	5	Sand, gray
2735	2745	10	Anhy & shale
2745	2760	15	Anhy
2760	2767	7	Anhy & shale
2767	2776	9	Anhy
2776	2796	20	Anhy & shale
2796	2838	42	Anhy
2838	2839	1	Lime
2839	2895	56	Anhy & shale

FORMATION RECORD—Continued

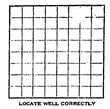
NOTE: A TYPED COPY OF FORMATIONS DRILLED, AS SHOWN ON DRILLER'S LOG, WAS FURNISHED TO THE U. S. GEOLOGICAL SURVEY. WHETHER FROM ELECTRIC LOGS OR SAMPLES.

16-43094-4

Form 9-330

Budget Bureau No. 42 R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 19 Sec. 12 T. 18S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. $\frac{N}{S}$ line and 1980 ft. $\frac{E}{W}$ of S. Line of Section 12 Elevation 3738'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date September 15, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling August 6, 1959 Finished drilling September 6, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2062' to 2105' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 360' to 373' No. 3, from ..... to .....
No. 2, from 1850' to 1860' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#		Used	418'	Regular				Salt String
8 5/8"	20#		Used	1926'	Regular				Water String
7"	23#	8rd	Used	2073'	Guide				Pecos String

NOTE: See Reverse Side for Additional Casing Record

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	420'	None	Obtained formation shut-off		
8 5/8"	1926'	None	Pump & Plug	Heavy	30 sacks Aquagel
7"	2077'	150	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot or treated	Depth cleaned out
		20% HCl	500 gals.	9-7-59	2077-2106'	
		Grade 011	61,866 gals.	"	"	
		Ottawa Sand	200,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2106 feet, and from ..... feet to ..... feet

DATES

September 15, 1959 Put to producing September 13, 1959

The production for the first 24 hours was 433 barrels of fluid of which 100 % was oil 0 % emulsion; 0 % water; and 0 % sediment. Gravity, °BE 35.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

M. M. Crabb, Driller G. H. Harris, Driller
J. O. Crow, Driller E. J. Parish, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	45	45	Red clay
45	225	180	Red shale
225	240	15	Gravel
240	295	55	Red shale
295	340	45	Broken anhy
340	360	20	Anhy
360	373	13	Sand
373	380	7	Red shale & anhy
380	420	40	Sandy shale
420	450	30	Anhy & shale
450	465	15	Red shale
465	478	13	Anhy
478	490	12	Anhy & anhy
490	500	10	Shale
500	908	408	Salt
908	925	17	Anhy
925	985	60	Anhy & shale
985	995	10	Salt
995	1090	95	Anhy
1090	1110	20	Red shale
1110	1600	490	Anhy & shale
1600	1960	360	Anhy, trace
1960	1995	35	Broken anhy
1995	1855	10	Shaley shale
1855	1860	175	Anhy
1860	1860		Red sand

FORMATION RECORD—Continued

NOTE: A TYPED COPY OF FORMATIONS DRILLED, AS SHOWN ON DRILLER'S LOG, WAS FURNISHED TO THE U. S. GEOLOGICAL SURVEY. WHETHER FROM ELECTRIC LOGS OR SAMPLES.

16-43094-4

N.M.C.U. MICROGRAPHICS
BEST AVAILABLE COPY

Form 9-330

Form approved.
Budget Bureau No. 42-R355.4

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 20 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. $\left\{\begin{matrix}N.\\S.\end{matrix}\right\}$ of S. Line and 2980 ft. $\left\{\begin{matrix}E.\\W.\end{matrix}\right\}$ of W. Line of Section 14 Elevation 3737'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed W. W. Heard
Title District Superintendent

Date November 2, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling September 4, 1959 Finished drilling September 30, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2023' to 2050' No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 1802' to 1815' No. 3, from to
No. 2, from to No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10-3/4"	32.75#	8rd	Used	1351'	Regular				Salt String
8 5/8"	28#	8rd	Used	1834'	Regular	1350'			Water String
5 1/2"	14#	8rd	New	2052'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	400'	None	Obtained formation shut-off		
8 5/8"	1835'	None	Pump & Plug	Heavy	30 sacks Aquagel
5 1/2"	2052'	150 (Around Shoe)	"	"	"
		50 (400-309')			

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOT OR TREATMENT RECORD

Size	Shell used	Explosive or chemical used	Quantity	Date	Depth shot or treated	Depth cleaned out
		20% HCL	500 gals.	10-1-59	2023-2052'	
		Crude Oil 83,160 gals.	"	"	"	
		Ottawa Sand 217,600 lbs.	"	"	"	

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2052 feet, and from feet to feet

DATES

November 2, 1959 Put to producing October 12, 1959

The production for the first 24 hours was 64 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

R. M. Farr Driller Ben Porter Driller
R. T. Haney Driller Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	25	25	Caliche
25	223	198	Red shale
223	280	57	Sandy shale
280	293	13	Lime
293	328	35	Anhy
328	334	6	Sand
334	365	31	Red shale
365	380	15	Anhy
380	412	32	Red Shale
412	430	18	Anhy
430	885	455	Salt
885	1065	180	Anhy
1065	1080	15	Red shale
1080	1485	405	Anhy
1485	1518	33	Limed anhy
1518	1802	284	Anhy
1802	1817	15	Red sand
1817	1844	27	Anhy
1844	1836	-8	Salt
1836	1845	9	Lime
1845	2019	174	Anhy
2019	2023	4	Sandy lime
2023	2052	29	Sand

FORMATION RECORD—Continued

Form 9-330

Form approved.
Budget Bureau No. 42-R355.4

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loc Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 25 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. $\left\{\begin{matrix}N.\\S.\end{matrix}\right\}$ of N. Line and 990 ft. $\left\{\begin{matrix}E.\\W.\end{matrix}\right\}$ of E. Line of Section 13 Elevation 3747'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed W. W. Heard
Title District Superintendent

Date November 27, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling October 25, 19 59 Finished drilling November 20, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2116' to 2133' No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 345' to 355' No. 3, from 1874' to 1885'
No. 2, from 373' to 380' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10-3/4"	32.75#	8rd	Used	441'	Regular				Salt String
8 5/8"	28#	8rd	Used	1841'	Regular	1901'			Water String
7"	23#	8rd	Used	2115'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	441'	None	Obtained formation shut-off		
8 5/8"	1841'	None	Pump & Plug	Heavy	15 sacks Aquagel
7"	2115'	150	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOT OR TREATMENT RECORD

Size	Shell used	Explosive or chemical used	Quantity	Date	Depth shot or treated	Depth cleaned out
		20% HCL	500 gals.	11-22-59	2115-2133'	
		Crude Oil	56,812 gals.	"	"	
		Ottawa Sand	250,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2133 feet, and from feet to feet

DATES

November 27, 19 59 Put to producing November 27, 19 59

The production for the first 24 hours was 528 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

M. H. Crabb Driller L. F. Jennings Driller
J. G. Crow Driller Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Caliche
15	55	40	Red shale
55	75	20	Gravel
75	225	150	Red sand shale
225	315	90	Anhy and shale
315	330	15	Anhy
330	345	15	Anhy and shale
345	395	50	Anhy
395	435	40	Red shale
435	455	20	Anhy
455	490	35	Red shale
490	500	10	Anhy
500	940	440	Salt
940	975	35	Anhy
975	980	5	Red shale
980	1100	120	Anhy
1100	1245	145	Anhy and shale
1245	1640	395	Anhy
1640	1721	81	Anhy and shale
1721	1753	32	Anhy
1753	1793	40	Anhy and shale
1793	1874	81	Anhy
1874	1885	11	Red sand
1885	1930	35	Anhy and shale

FORMATION RECORD—Continued

N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
Case No. 3
Exhibit No. 2

Form 9-330

Form approved.
Budget Bureau No. 42-R355.4.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 067030-A
LEASE OR PERMIT TO PROSPECT Unworth

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Unworth Field High Lonesome State New Mexico
Well No. 2 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 950 ft. {N. / S.} of S. Line and 2310 ft. {E. / W.} of E. Line of Section 14 Elevation 3705'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. T. Hanay
Title District Superintendent

Date January 14, 1960

The summary on this page is for the condition of the well at above date.

Commenced drilling November 24, 19 59 Finished drilling December 17, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2039' to 2050' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 1795' to 1816' No. 3, from ... to ...
No. 2, from ... to ... No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10	9/A*	32.75#	Srd	Used	344'	Regular	327'		Cell String
8	5/8"	28#	Srd	Used	1815'	Pattern	1816'		Water String
7"		23#	Srd	Used	2039'	Guide			Prods. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10	344'	None	Obtained formation shut-off		
8 5/8"	1816'	None	Pump & Plug	Heavy	12 sacks Gel
7"	2039'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		Mat'l			Perforated	
		20# NEA	500 gals.	12-18-59	2029-2039'	
		Crude Oil	61,650 lbs.	"	"	
		Ottawa Sand	25,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2039 feet, and from ... feet to ... feet

DATES

January 14, 1960 Put to producing December 26, 19 59

The production for the first 24 hours was 168 barrels of fluid of which 100 % was oil; 0 % emulsion; 0.5 % water; and 0 % sediment.

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...

Rock pressure, lbs. per sq. in. ...

EMPLOYEES

R. T. Hanay, Driller — J. E. Wilcox, Driller
..., Driller — J. G. Crow, Driller
G. H. Harris, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	6	6	Caliche
6	70	64	Red shale
70	145	75	Grp and shale
145	238	93	Red shale
238	297	59	Anhy
297	362	65	Anhy and shale
362	395	33	Anhy
395	435	40	Red shale
435	455	20	Anhy
455	870	415	Salt
870	894	24	Anhy and shale
894	1030	136	Anhy
1030	1159	129	Anhy and shale
1159	1549	390	Anhy
1549	1585	36	Anhy and shale
1585	1597	12	Red shale
1597	1774	177	Anhy
1774	1795	21	Anhy and shale
1795	1816	21	Red sand
1816	1846	30	Anhy
1846	1853	7	Anhy and lime
1853	1870	17	Anhy
1870	1904	34	Anhy and shale
1904	1940	36	Anhy
1940	1977	37	Anhy and shale
1977	1994	17	Sandy lime
1994	2025	31	Anhy
2025	2031	6	Sandy lime (tight)
2031	2039	28	Sand

AT THE END OF OPERATIONS DRILLERS WILL NEED FOUR 7" DV BAFFLES

FOLD MARK

LOG CONTINUED ON REVERSE SIDE

Form 9-330

Form approved.
Budget Bureau No. 42-R355.4.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061630
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 24 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. {N. / S.} of S. Line and 1978 ft. {E. / W.} of W. Line of Section 13 Elevation 3730'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ...
Title District Superintendent

Date December 9, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling October 17, 19 59 Finished drilling November 10, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1444' to 1448' (G) No. 4, from ... to ...
No. 2, from 2126' to 2132' No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 378' to 381' No. 3, from ... to ...
No. 2, from 1881' to 1900' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10	3/A*	32.75#	Srd	Used	410'	Regular	1397'		Cell String
8	5/8"	28#	Srd	Used	1917'	Pattern	1917'		Water String
7"		23#	Srd	Used	2115'	Guide			Prods. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10	410'	None	Obtained formation shut-off		
8 5/8"	1917'	None	Pump & Plug	Heavy	12 sacks Aquagel
7"	2132'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		Mat'l			Perforated	
		20# NEA	500 gals.	11-12-59	2122-2147'	
		Crude Oil	60,456 lbs.	"	"	
		Ottawa Sand	20,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2147 feet, and from ... feet to ... feet

DATES

December 9, 19 59. Put to producing December 8, 19 59

The production for the first 24 hours was 147 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, °Bé. ...

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...

Rock pressure, lbs. per sq. in. ...

EMPLOYEES

F. H. Farr, Driller — Dan Porter, Driller
R. T. Hanay, Driller — ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Caliche
10	312	302	Red sandy shale
312	340	28	Lime
340	350	10	Red shale
350	376	26	Anhy
376	417	41	Red shale
417	420	3	Anhy
420	468	48	Anhy and shale
468	482	14	Anhy
482	930	448	Salt
930	1110	180	Anhy
1110	1115	5	Red shale
1115	1125	10	Anhy
1125	1145	20	Red shale
1145	1168	23	Anhy
1168	1175	7	Red shale
1175	1565	390	Anhy
1565	1579	14	Gray lime
1579	1868	289	Anhy
1868	1877	9	Lime
1877	1881	4	Blue shale
1881	1900	16	Red sand
1900	2052	152	Anhy
2052	2060	8	Red shale
2060	2106	46	Anhy
2106	2115	9	Sandy lime
2115	2142	27	Sand
2142	2147	5	Red sandy anhydrite

LOG CONTINUED ON REVERSE SIDE

Form 9-330

Form approved.
Budget Bureau No. 42-R355.4.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061630
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 27 Sec. 24 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 990 ft. {N. / S.} of S. Line and 660 ft. {E. / W.} of W. Line of Section 24 Elevation 3699'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ...
Title District Superintendent

Date March 9, 1960

The summary on this page is for the condition of the well at above date.

Commenced drilling January 27, 1960 Finished drilling February 18, 19 60

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2021' to 2026' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 1770' to 1785' No. 3, from ... to ...
No. 2, from ... to ... No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10	3/A*	32.75#	Srd	Used	395'	Regular	397'		Cell String
8	5/8"	28#	Srd	Used	1810'	Pattern	1809'		Water String
7"		23#	Srd	Used	1997'	Pattern			Prods. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10	397'	None	Obtained formation shut-off		
8 5/8"	1809'	None	Pump & Plug	Heavy	15 sacks Aquagel
7"	2002'	150 + 50	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		Mat'l			Perforated	
		20% HCl	500 gals.	2-20-60	2002-2016'	
		Crude Oil	79,840 gals.	"	"	
		Ottawa Sand	281,800 lbs.	"	"	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2035 feet, and from ... feet to ... feet

DATES

March 9, 19 60. Put to producing March 2, 19 60

The production for the first 24 hours was 132 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, API 36.6°

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...

Rock pressure, lbs. per sq. in. ...

EMPLOYEES

R. T. Hanay, Driller — L. P. Jennings, Driller
G. H. Harris, Driller — ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	240	240	Red shale
240	290	50	Anhy
290	298	8	Lime
298	397	99	Red shale
397	420	23	Anhy
420	835	415	Salt
835	855	20	Anhy
855	895	40	Anhy and shale
895	990	95	Anhy
990	1070	80	Anhy and shale
1070	1090	20	Anhy
1090	1145	55	Anhy and shale
1145	1540	395	Anhy
1540	1565	25	Red sand and shale
1565	1615	50	Anhy
1615	1638	23	Anhy and salt
1638	1750	112	Anhy
1750	1755	5	Anhy and shale
1755	1770	15	Anhy
1770	1785	15	Red sand
1785	1835	50	Anhy
1835	1855	20	Anhy and shale
1855	1950	105	Anhy
1950	1965	5	Brown sandy shale
1965	1995	30	Anhy and shale
1995	2005	10	Sandy lime
2005	2036	31	Pay sand

LOG CONTINUED ON REVERSE SIDE

V.V.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

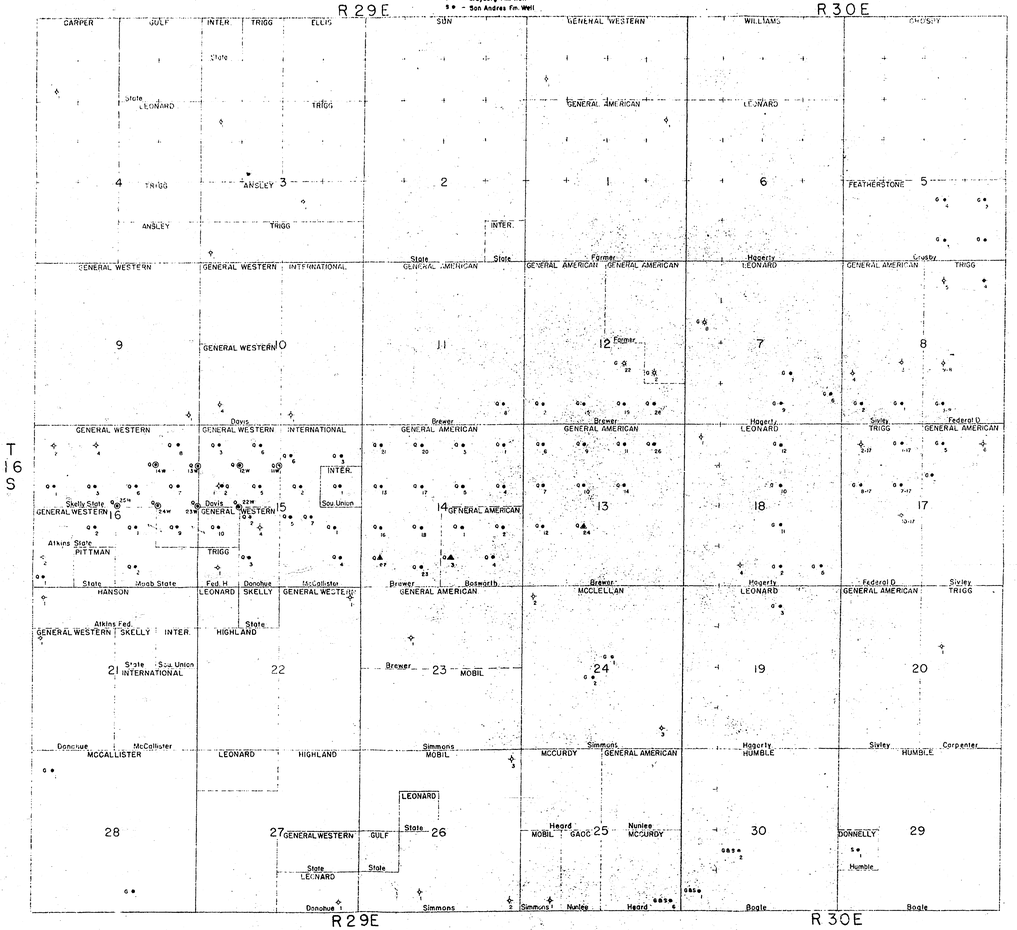
GENERAL AMERICAN OIL COMPANY OF TEXAS
HIGH LONESOME AREA
EDDY COUNTY, NEW MEXICO

SCALE

0 1000' 2000' 3000' 4000' 5000'

LEGEND

- ● – Oil Well
- ✕ – Gas Well
- ⊹ – Dry Hole
- ⊛ – Water Input Well
- ▲ – Proposed Water Input Well
- ○● – Queen Fm. Well
- ○● – Grayburg Fm. Well
- $ ● – San Andres Fm. Well



R 29 E R 30 E

2-4-65 RPS KM

W.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 2 Sec. 32 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N/S] of S. Line and 660 ft. [E/W] of W. Line of Section 32 Elevation 3726'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ..... (Owner)

Date October 20, 1958 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling September 4, 1958. Finished drilling October 5, 1958.

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1363' to 1368' (G) No. 4, from ..... to .....
No. 2, from 2060' to 2070' No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 352' to 362' No. 3, from ..... to .....
No. 2, from 1828' to 1836' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	Rnd	Republic	1363'	Regular				Salt String
8 5/8"	24#	Rnd	Republic	2070'	Regular				Water String
7"	20 & 23#	8rd	Mixed	3058'	Guide				Prod. String

HILDRA OIL CO. CVS UNIT

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	416'	None	Obtained formation shut-off		
8 5/8"	1852'	None	Obtained formation shut-off		
7"	2060'	150	Pump & Plug	Heavy	50 bbls.

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot From—	Depth shot To—	Depth cleaned out
		20% HCl	500 gals.	10-12-58	2060-	2080'	
		Crude Oil	53,620 gals.	10-12-58			
		Ottawa Sand	85,900 lbs.				

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

DATES

October 20, 1958 Put to producing October 16, 1958

The production for the first 24 hours was 396 barrels of fluid of which 100 % was oil; ..... % emulsion; ..... % water; and ..... % sediment.

Gravity, °Bé. ..... API 36.4°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

M. H. Crabb ..... Driller ..... Ben Porter ..... Driller
D. C. Crooks ..... Driller ..... Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	237	237	Red shale & sand
237	362	125	Anhy & grp
362	405	43	Red shale
405	413	8	Anhy & grp
413	445	32	Red shale
445	463	18	Anhy
463	890	427	Salt
890	1055	165	Anhy
1055	1070	15	Lime
1070	1118	48	Red shale
1118	1206	88	Shale & anhy
1206	1886	680	Anhy
1886	1900	14	Anhy & red shale
1900	2000	100	Anhy
2000	2048	48	Anhy & red shale
2048	2085	37	Sand
2085	2108	23	Anhy
2108	2220	112	Anhy & red shale
2220?	2236	16?	Anhy
2236	2261	25?	Lime
2261	2295	34?	Lime & anhy
2295	2335	40	Anhy
2335	2435	100	Lime
2435	2445	10	Red shale & anhy
2445	2470	25	Anhy
2470	2498	28	Anhy & lime
2498	2507	9	Anhy
2507	2521	14	Anhy & lime

SOLUTION SALTS NOTATION

Continued—GROSS FORMATION RECORD

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 14 Sec. 33 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N/S] of N Line and 1980 ft. [E/W] of E Line of Section 33 Elevation 3761'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ..... (Owner)

Date August 7, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling June 23, 1959. Finished drilling July 25, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2118' to 2119' No. 4, from ..... to .....
No. 2, from 2128' to 2130' No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 345' to 355' No. 2, from 1875' to 1885'
No. 2, from 390' to 396' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Republic	435'	Regular				Salt String
8 5/8"	24#	8rd	Republic	1875'	Regular				Water String
7"	20 & 23#	8rd	Mixed	2107'	Guide				Prod. String

HILDRA OIL CO. CVS UNIT

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	415'	None	Obtained formation shut-off		
8 5/8"	1976'	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2130'	150	"	"	"

NOTE: Plugged back from TD 2657 to 2150' W/87 sacks cement.

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot From—	Depth shot To—	Depth cleaned out
		20% HCl	500 gals.	6-1-59	2124-	2150'	
		Crude Oil	52,710 gals.	"	"	"	
		Ottawa Sand	180,000 lbs.	"	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2137 feet, and from ..... feet to ..... feet

DATES

August 7, 1959 Put to producing August 6, 1959

The production for the first 24 hours was 281 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

Gravity, °Bé. ..... API 35.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

J. O. Crow ..... Driller ..... R. J. Parish ..... Driller
G. E. Harris ..... Driller ..... N. F. Willis ..... Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	5	5	Cellar
5	15	10	Caliche
15	270	255	Sand & shale
270	325	55	Anhy & shale
325	335	10	Gravel
335	400	65	Anhy
400	480	80	Anhy & shale
480	490	10	Anhy & grp
490	927	437	Salt
927	1010	83	Anhy & shale
1010	1030	20	Anhy & salt
1030	1110	80	Red shale
1110	1135	25	Anhy & shale
1135	1195	60	Anhy
1195	1255	60	Anhy & salt
1255	1670	415	Anhy
1670	1705	35	Anhy & shale
1705	1875	170	Anhy
1875	1895	20	Gel sand
1895	1955	60	Anhy
1955	1970	15	Salt
1970	1978	8	Anhy
1978	1987	9	Sandy lime
1987	1995	8	Anhy
1995	2038	43	Anhy & shale
2038	2099	61	Lime
2099	2095		Anhy & shale

SOLUTION SALTS NOTATION

Continued—GROSS FORMATION RECORD

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 32 Sec. 32 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N/S] of S Line and 1980 ft. [E/W] of E Line of Section 32 Elevation 3726'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ..... (Owner)

Date September 15, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling August 8, 1959. Finished drilling September 5, 1959.

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2081' to 2106' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 360' to 373' No. 3, from ..... to .....
No. 2, from 1850' to 1860' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	Rnd	Republic	427'	Regular				Salt String
8 5/8"	24#	8rd	Republic	1926'	Regular				Water String
7"	23#	8rd	Used	2077'	Guide				Prod. String

HILDRA OIL CO. CVS UNIT

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	430'	None	Obtained formation shut-off		
8 5/8"	1926'	None	Pump & Plug	Heavy	30 sacks Aquagel
7"	2077'	150	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION/SHOOTING RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot From—	Depth shot To—	Depth cleaned out
		20% HCl	500 gals.	9-7-59	2077-	2106'	
		Crude Oil	51,656 gals.	"	"	"	
		Ottawa Sand	200,000 lbs.	"	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2106 feet, and from ..... feet to ..... feet

DATES

September 15, 1959 Put to producing September 13, 1959

The production for the first 24 hours was 433 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

Gravity, °Bé. ..... API 35.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

M. H. Crabb ..... Driller ..... G. E. Harris ..... Driller
J. C. Crow ..... Driller ..... N. J. Parish ..... Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	45	45	Red clay
45	225	180	Red shale
225	240	15	Gravel
240	295	55	Red shale
295	340	45	Broken anhy
340	360	20	Anhy
360	373	13	Sand
373	380	7	Red shale & grp
380	420	40	Sandy shale
420	450	30	Anhy & shale
450	465	15	Red shale
465	478	13	Anhy
478	490	12	Anhy & grp
490	500	10	Shale
500	908	408	Salt
908	925	17	Anhy
925	985	60	Anhy & shale
985	995	10	Salt
995	1090	95	Anhy
1090	1110	20	Red shale
1110	1280	170	Anhy & shale
1280	1600	320	Anhy
1600	1635	35	Broken anhy
1635	1675	40	Sandy shale
1675	1850	175	Anhy
1850	1860	10	Red sand

SOLUTION SALTS NOTATION

Continued—GROSS FORMATION RECORD

A.P.I. RULES AND REGULATIONS PROHIBIT THE DISCLOSURE OF INFORMATION FURNISHED TO STATE AGENCIES FOR CONFIDENTIAL USE EXCEPT WITH THE CONSENT OF THE OPERATOR.

AT THE END OF COMPLETE DRILLING OR ABANDONMENT, THIS REPORT SHALL BE FILED WITH THE OIL AND GAS CONSERVATION COMMISSION OF THE STATE IN WHICH THE WELL IS LOCATED.

FOLD | MARK

N.M.O.C.C. MICROGRAPHICS

BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
2040	2115	75	Shale & red sandy shale
2115	2150	35	Lime, & shale
2150	2170	20	Lime, shale & sand
2170	2240	70	Lime & sand
2240	2260	20	Lime
2260	2318	58	Lime, & shale
2318	2410	92	Lime, red shale
			Lime
			Lime & red shale
			Lime & sand
			Lime
			Lime & red shale
			Lime
			Lime & red shale
			Lime
			Lime & red shale
			Lime
			Lime & shale
			Lime
			Lime & shale
			Lime
			Lime &

Form 9-330

LOCATE WELL CORRECTLY

Form approved.
Budget Bureau No. 42-R355.5.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 20 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of N. Line and 1980 ft. [W.] of W. Line of Section 14 Elevation 3717'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed W. V. Harris
Title District Superintendent

Date November 2, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling September 4, 1959 Finished drilling September 30, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2023' to 2050' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 1802' to 1815' No. 3, from ... to ...
No. 2, from ... to ... No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Unkn	1951'	Unkn	1951'			Salt String
8 5/8"	24#	8rd	Used	1836'	Baker	1536'			Water String
5 1/2"	14#	8rd	Used	2051'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	1951	None	Obtained formation shut-off		30 sacks Aquagel
8 5/8"	1836'	None	Pump & Plug Rotary		
5 1/2"	2051'	150 (Around Shoe) 50 (1400-1309')			

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Material				
		20% NG	500 gals.	10-1-59	2033-2052'	
		Crude Oil	83,140 gals.	"	"	
		Ottawa Sand	217,500 lbs.	"	"	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from ... 0 ... feet to ... 2052 ... feet, and from ... feet to ... feet

DATES

Put to producing November 2, 1959

The production for the first 24 hours was 64 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

Gravity, °API 35°

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...

Rock pressure, lbs. per sq. in. ...

EMPLOYEES

E. V. Parr, Driller — Ben Porter, Driller
E. T. Hazey, Driller — ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	25	25	Caliche
25	223	198	Red shale
223	280	57	Sandy shale
280	293	13	Lime
293	328	35	Anhy
328	334	6	Sand
334	365	31	Red shale
365	380	15	Anhy
380	412	32	Red Shale
412	430	18	Anhy
430	885	455	Salt
885	1055	180	Anhy
1055	1080	25	Red shale
1080	1485	405	Anhy
1485	1518	33	Lime anhy
1518	1802	284	Anhy
1802	1817	15	Red sand
1817	1844	27	Anhy
1844	1836	-8	Sim
1836	1845	9	Lime
1845	2019	174	Anhy
2019	2023	4	Sandy lime
2023	2052	29	Sand

FOLD MARK

FROM— TO— TOTAL FEET FORMATION

(over) 16-43094-4

FORMATION RECORD—Continued

Form 9-330

LOCATE WELL CORRECTLY

Form approved.
Budget Bureau No. 42-R355.5.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 25 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of N. Line and 2310 ft. [W.] of W. Line of Section 13 Elevation 3747'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ...
Title District Superintendent

Date November 27, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling October 26, 19 59 Finished drilling November 20, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2116' to 2133' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 340' to 355' No. 3, from 1074' to 1085'
No. 2, from 3731' to 380' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	441'	Regular	441'			Salt String
8 5/8"	24#	8rd	Used	1041'	Baker	1041'	1074'	1085'	Water String
5½	23#	8rd	Used	2112'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	441'	None	Obtained formation shut-off		
8 5/8"	1041'	None	Pump & Plug	Heavy	15 sacks Aquagel
5½	2112'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Material				
		20% NG	500 gals.	11-22-59	2115-2133'	
		Crude Oil	58,800 gals.	"	"	
		Ottawa Sand	210,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from ... 0 ... feet to ... 2133 ... feet, and from ... feet to ... feet

DATES

Put to producing November 27, 19 59.

The production for the first 24 hours was 528 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

Gravity, °API 35.0°

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...

Rock pressure, lbs. per sq. in. ...

EMPLOYEES

M. H. Crabb, Driller — L. P. Jennings, Driller
J. O. Crow, Driller — ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Caliche
15	55	40	Red shale
55	75	20	Gravel
75	225	150	Red sand shale
225	315	90	Anhy and shale
315	330	15	Anhy
330	345	15	Anhy and shale
345	395	50	Anhy
395	435	40	Red shale
435	455	20	Anhy
455	490	35	Red shale
490	500	10	Anhy
500	940	440	Salt
940	975	35	Anhy
975	980	5	Red shale
980	1100	120	Anhy
1100	1245	145	Anhy and shale
1245	1640	395	Anhy
1640	1721	81	Anhy and shale
1721	1755	34	Anhy
1755	1795	40	Anhy and shale
1795	1874	79	Anhy
1874	1885	11	Red sand
1885	1920	35	Anhy and shale

FROM— TO— TOTAL FEET FORMATION

(over) 16-43094-4

FORMATION RECORD—Continued

V.A.M.C.F. MICROGRAPHICS

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FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
1980	1981	61	Anhy
1981	1983	2	Blue shale
1983	2035	52	Anhy
2035	2065	30	Anhy and sandy shale
2065	2103	40	Anhy
2105	2116	11	Sandy lime
2116	2133	17	Sand

W.N.M.C.P. MICROGRAPHICS

BEST AVAILABLE COPY

Exhibit 2-a

Form 9-330

Form approved.
Budget Bureau No. 42 R355.5.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 26 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N] of S Line and 1978 ft. [W] of W Line of Section 13 Elevation 3730'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ...
Title District Superintendent

Date December 9, 1959

The summary on this page is for the condition of the well at above date.
Commenced drilling October 17, 1959 Finished drilling November 10, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1444' to 1448' (G) No. 4, from ... to ...
No. 2, from 2136' to 2138' No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 278' to 381' No. 3, from ... to ...
No. 2, from 1884' to 1900' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	441'	Regular		401'		Salt String
8 5/8"	24#	8rd	Used	1917'	Pattern		1917'		Water String
7"	23#	8rd	Used	2119'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	440'	None	Obtained formation shut-off		
8 5/8"	1917'	None	Pump & Plug	Heavy	15 sacks Aquagel
7"	2122'	150	" "	" "	

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		Water Frac	500 gals.	11-13-59	2122-2147'	
		Sof Wtr	60,000 gals.	" "	" "	
		Crude Oil	60,000 gals.	" "	" "	
		Ottawa Sand	240,000 lbs.	" "	" "	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2147 feet, and from ... feet to ... feet

DATES

December 9, 1959 Put to producing December 9, 1959

The production for the first 24 hours was 47 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, °Bé. ...

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

F. H. Farr Driller Ben Porter Driller
E. T. Haney Driller ... Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Caliche
10	312	302	Red sandy shale
312	340	28	Lime
340	350	10	Red shale
350	376	26	Anhy
376	417	41	Red shale
417	420	3	Anhy
420	468	48	Anhy and shale
468	482	14	Anhy
482	930	448	Salt
930	1110	180	Anhy
1110	1115	5	Red shale
1115	1125	10	Anhy
1125	1145	20	Red shale
1145	1166	21	Anhy
1166	1173	7	Red shale
1173	1563	390	Anhy
1563	1579	14	Grey lime
1579	1868	289	Anhy
1868	1877	9	Lime
1877	1884	7	Blue shale
1884	1900	16	Red sand
1900	2052	152	Anhy
2052	2060	8	Red shale
2060	2106	46	Anhy
2106	2115	9	Sandy lime
2115	2142	27	Red shale
2142	2147	5	Red sandy

AT THE END OF COMPLETE DRILLERS LOG, ADD DRIFTING TESTS, STATE WHETHER FROM EL OR DRILLER.

FOLD MARK

LOMPILATION RECORD—Continued

Exhibit 2-b

Form 9-330

Form approved.
Budget Bureau No. 42 R355.5.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 27 Sec. 24 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 990 ft. [N] of S Line and 660 ft. [E] of W Line of Section 24 Elevation 3697'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ...
Title District Superintendent

Date March 9, 1960

The summary on this page is for the condition of the well at above date.
Commenced drilling January 27, 1960 Finished drilling February 18, 1960

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2025' to 2035' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 1770' to 1785' No. 3, from ... to ...
No. 2, from ... to ... No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	391'	Regular		327'		Salt String
8 5/8"	28#	8rd	Used	1810'	Pattern		1810'		Water String
7"	23#	8rd	Used	2025'	Pattern		2029'		Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	327'	None	Obtained formation shut-off		
8 5/8"	1810'	None	Pump & Plug	Heavy	15 sacks Aquagel
7"	2029'	150 w 50	" "	" "	

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		Water Frac	500 gals.	2-22-60	2002-2035'	
		Sof Wtr	" "	" "	" "	
		Crude Oil	72,000 gals.	" "	" "	
		Ottawa Sand	241,000 lbs.	" "	" "	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2036 feet, and from ... feet to ... feet

DATES

March 9, 1960 Put to producing March 9, 1960

The production for the first 24 hours was 168 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, °Bé. 39.0

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

E. T. Haney Driller L. P. Jennings Driller
O. N. Harris Driller ... Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	240	240	Red shale
240	290	50	Anhy
290	298	8	Lime
298	397	99	Red shale
397	420	23	Anhy
420	835	415	Salt
835	855	20	Anhy
855	895	40	Anhy and shale
895	990	95	Anhy
990	1070	80	Anhy and shale
1070	1090	20	Anhy
1090	1145	55	Anhy and shale
1145	1540	395	Anhy
1540	1565	25	Red sand and shale
1565	1615	50	Anhy
1615	1638	23	Anhy and salt
1638	1750	112	Anhy
1750	1755	5	Anhy and shale
1755	1770	15	Anhy
1770	1785	15	Red sand
1785	1835	50	Anhy
1835	1855	20	Anhy and shale
1855	1960	105	Anhy
1960	1965	5	Brown sandy shale
1965	1995	30	Anhy and shale
1995	2002	7	Anhy
2002	2036	34	Sandy lime

AT THE END OF COMPLETE DRILLERS LOG, ADD DRIFTING TESTS, STATE WHETHER FROM EL OR DRILLER.

FOLD MARK

LOMPILATION RECORD—Continued

Exhibit 2-c

Form 9-330

Form approved.
Budget Bureau No. 42 R355.5.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 07610-A
LEASE OR PERMIT TO PROSPECT Bonorth

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Bonorth Field High Lonesome State New Mexico
Well No. 2 Sec. 34 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 990 ft. [N] of S Line and 2310 ft. [W] of W Line of Section 34 Elevation 3704'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ...
Title District Superintendent

Date January 14, 1960

The summary on this page is for the condition of the well at above date.
Commenced drilling November 26, 1959 Finished drilling December 17, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2039' to 2050' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 1795' to 1816' No. 3, from ... to ...
No. 2, from ... to ... No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	364'	Regular		567'		Salt String
8 5/8"	28#	8rd	Used	1816'	Pattern		1816'		Water String
7"	23#	8rd	Used	2027'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	567'	None	Obtained formation shut-off		
8 5/8"	1816'	None	Pump & Plug	Heavy	15 sacks Gel
7"	2027'	150	" "	" "	

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		Water Frac	500 gals.	12-16-59	2030-2059'	
		Crude Oil	61,000 "	" "	" "	
		Ottawa Sand	233,000 lbs.	" "	" "	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2059 feet, and from ... feet to ... feet

DATES

January 14, 1960 Put to producing December 26, 1959

The production for the first 24 hours was 168 barrels of fluid of which 100 % was oil; 0 % emulsion; 0.5 % water; and 0 % sediment. Gravity, °API. 39.0

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

E. T. Haney Driller J. E. Wilcox Driller
O. N. Harris Driller J. D. Cone Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	6	6	Cellar
6	70	64	Red shale
70	145	75	Gyp and shale
145	238	93	Red shale
238	297	59	Anhy
297	362	65	Anhy and shale
362	395	33	Anhy
395	435	40	Red shale
435	455	20	Anhy
455	870	415	Salt
870	894	24	Anhy and shale
894	1030	136	Anhy
1030	1159	129	Anhy and shale
1159	1549	390	Anhy
1549	1585	36	Anhy and shale
1585	1597	12	Red shale
1597	1774	177	Anhy
1774	1795	21	Anhy and shale
1795	1816	21	Red sand
1816	1846	30	Anhy
1846	1853	7	Anhy and lime
1853	1870	17	Anhy
1870	1904	34	Anhy and shale
1904	1940	36	Anhy
1940	1977	37	Anhy and shale
1977	1994	17	Sandy lime
1994	2025	31	Anhy
2025	2031	6	Sandy lime
2031	2059	28	Sand

AT THE END OF COMPLETE DRILLERS LOG, ADD DRIFTING TESTS, STATE WHETHER FROM EL OR DRILLER.

FOLD MARK

LOMPILATION RECORD—Continued

U.S.N.M.G.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

FORMATION RECORD

TUBING RECORD

LOGS FILED

CASING AND CEMENTING RECORD

LINER AND TUBING

PRODUCTION RECORD

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of recordings, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "shot/cracked," or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	DEPTH	KIND OF SHOE	CEMENT	SIZE HOLE	AMOUNT PULLED	KIND OF PACKER	DEPTH SET
20" 1" Conductor			20' 1" Conductor						
20" 2" Conductor			20' 2" Conductor						
20" 3" Conductor			20' 3" Conductor						
20" 4" Conductor			20' 4" Conductor						
20" 5" Conductor			20' 5" Conductor						
20" 6" Conductor			20' 6" Conductor						

IMPORTANT WATER SANDS

No. 1, from	to	feet
No. 2, from	to	feet
No. 3, from	to	feet
No. 4, from	to	feet

OIL OR GAS SANDS OR ZONES

No. 1, from to feet. No. 4, from to feet.

No. 2, from to feet. No. 5, from to feet.

No. 3, from to feet. No. 6, from to feet.

DATE FEB 1 1951

The information given herein is complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signature

Date

Title

Representing

Address

FOOTAGE NOT CONNECTED

LOG OF OIL OR GAS WELL

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

FORM 9-330
(16-41686-8 U. S. GOVERNMENT PRINTING OFFICE)

MAIL THIS REPORT IN DUPLICATE TO THE PROPER SUPERVISOR OR OTHER OFFICIAL OF THE GEOLOGICAL SURVEY

MAIN OFFICE DOCS

FEB 7 1951

RECEIVED

U.S.N.M.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

Exhibit 2-d

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

Form 9-330

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 2 Sec. 12 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of S. Line and 660 ft. [W.] of W. Line of Section 12 Elevation 3728'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Title St. J. Heard, Superintendent

Date October 20, 1958

The summary on this page is for the condition of the well at above date.

Commenced drilling September 6, 1958 Finished drilling October 5, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1334' to 1338' (G) No. 4, from to
No. 2, from 2660' to 2670' No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 352' to 362' No. 3, from to
No. 2, from 1628' to 1850' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Lone Star	326'	Baker				Salt Marine
8 5/8"	24#	8rd	Lone Star	1850'	Baker				Water String
5 1/2"	15.5#	8rd	Lone Star	2670'	Baker				Prod. String

HILOMA OIL OIL CVS MEET

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	326'	None	Obtained formation shut-off		
8 5/8"	1850'	None	Obtained formation shut-off		
5 1/2"	2670'	150	Pump & Plug	Heavy	50 sacks

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING RECORD

Size shell used	Explosive used	Quantity	Date	Depth shot From—	Depth shot To—	Depth cleaned out
Baker	2670'	500 gals.	10-13-58	2660'	2670'	
Cavins 011	53,000 gals.		10-13-58			
Ottawa Sand	85,000 lbs.					

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2710 feet, and from feet to feet

DATES

October 20, 1958 Put to producing October 26, 1958
The production for the first 24 hours was 396 barrels of fluid of which 100 % was oil; % emulsion; % water; and % sediment. Gravity, Bé. 36.0° API
If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

M. H. Grabb Driller Sam Porter Driller
D. C. Crooks Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	237	237	Red shale & sand
237	362	125	Anhy & grp
362	405	43	Red shale
405	413	8	Anhy & grp
413	445	32	Red shale
445	463	18	Anhy
463	890	427	Salt
890	1055	165	Anhy
1055	1070	15	Lime
1070	1118	48	Red shale
1118	1206	88	Shale & anhy
1206	1686	480	Anhy
1686	1900	14	Anhy & red shale
1900	2000	100	Anhy
2000	2048	48	Anhy & red shale
2048	2085	37	Sand
2085	2106	21	Anhy
2106	2230	1125	Anhy & red shale
2230	2258	28	Anhy
2258	2284	26	Lime & anhy
2284	2339	54	Anhy & red shale
2339	2452	113	Lime & anhy
2452	2464	12	Red shale & anhy
2464	2476	12	Anhy
2476	2496	20	Anhy & lime
2496	2517	21	Anhy
2517	2542	25	Anhy & lime

(OVER)

AT THE END OF COMPLETE DRILLER'S REPORT, THIS FORMATION RECORD MUST BE CHECKED BY THE DRILLER.

FORMATION RECORD—Continued

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

Exhibit 2-e

Form 9-330

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 1A Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N.] of S. Line and 1980 ft. [E.] of E. Line of Section 13 Elevation 3711'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Title St. J. Heard, Superintendent

Date August 7, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling June 23, 1959 Finished drilling July 25, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2114' to 2119' No. 4, from to
No. 2, from 2124' to 2130' No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 345' to 355' No. 3, from 1875' to 1885'
No. 2, from 390' to 394' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Lone Star	435'	Regular				Salt Marine
8 5/8"	24#	8rd	Lone Star	1875'	Baker				Water String
5 1/2"	15.5#	8rd	Lone Star	2637'	Baker				Prod. String

HILOMA OIL OIL CVS MEET

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	435'	None	Obtained formation shut-off		
8 5/8"	1875'	None	Pump & Plug	Heavy	35 sacks Aquagel
5 1/2"	2637'	150	Obtained formation shut-off		
	2134'		Pump & Plug	Heavy	50 sacks

NOTE: Plugged back from TD 2637 to 2150' w/50 sacks cement.

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING RECORD

Size shell used	Explosive used	Quantity	Date	Depth shot From—	Depth shot To—	Depth cleaned out
Baker	2637'	500 gals.	8-1-59	2124'	2150'	
Cavins 011	52,750 gals.	"	"	"	"	
Ottawa Sand	180,000 lbs.	"	"	"	"	

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2637 feet, and from feet to feet

DATES

August 7, 1959 Put to producing August 6, 1959
The production for the first 24 hours was 284 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, 36° API 35.0°
If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

J. O. Crow Driller H. J. Parish Driller
O. N. Harris Driller H. F. Willis Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	5	5	Cellar
5	15	10	Caliche
15	270	255	Sand & shale
270	325	55	Anhy & shale
325	335	10	Gravel
335	400	65	Anhy
400	490	90	Anhy & shale
490	500	10	Anhy & gyp
500	937	437	Salt
937	1010	63	Anhy & shale
1010	1134	124	Anhy & lime
1134	1155	65	Red shale
1155	1195	40	Anhy & shale
1195	1255	60	Anhy & red shale
1255	1670	415	Anhy
1670	1695	25	Anhy & shale
1695	1815	120	Anhy
1815	1825	10	Red sand
1825	1835	10	Anhy
1835	1855	20	Salt
1855	1930	75	Anhy
1930	1939	9	Anhy & shale
1939	1967	28	Sandy lime
1967	1976	9	Anhy & shale
1976	2038	62	Anhy
2038	2054	16	Lime
2054	2124	70	Anhy & shale
2124	2150	26	Anhy

AT THE END OF COMPLETE DRILLER'S REPORT, THIS FORMATION RECORD MUST BE CHECKED BY THE DRILLER.

FORMATION RECORD—Continued

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

Exhibit 2-f

Form 9-330

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 3 Sec. 12 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of S. Line and 1980 ft. [E.] of E. Line of Section 12 Elevation 3728'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Title St. J. Heard, Superintendent

Date September 15, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling August 6, 1959 Finished drilling September 6, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2081' to 2106' No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 360' to 373' No. 3, from to
No. 2, from 1850' to 1860' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Lone Star	373'	Baker				Salt Marine
8 5/8"	24#	8rd	Lone Star	1860'	Baker				Water String
5 1/2"	15.5#	8rd	Lone Star	2106'	Baker				Prod. String

HILOMA OIL OIL CVS MEET

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	420'	None	Obtained formation shut-off		
8 5/8"	1920'	None	Pump & Plug	Heavy	30 sacks Aquagel
5 1/2"	2077'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING RECORD

Size shell used	Explosive used	Quantity	Date	Depth shot From—	Depth shot To—	Depth cleaned out
Baker	2106'	500 gals.	9-7-59	2077'	2106'	
Cavins 011	53,000 gals.	"	"	"	"	
Ottawa Sand	200,000 lbs.	"	"	"	"	

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2106 feet, and from feet to feet

DATES

September 15, 1959 Put to producing September 13, 1959
The production for the first 24 hours was 433 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, 36° API 35.0°
If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

M. H. Grabb Driller O. N. Harris Driller
J. C. Crow Driller E. J. Parish Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	45	45	Red clay
45	225	180	Red shale
225	240	15	Gravel
240	295	55	Red shale
295	340	45	Broken anhy
340	360	20	Anhy
360	373	13	Sand
373	380	7	Red shale & grp
380	420	40	Sandy shale
420	450	30	Anhy & shale
450	465	15	Red shale
465	478	13	Anhy
478	490	12	Anhy & grp
490	500	10	Shale
500	908	408	Salt
908	925	17	Anhy
925	985	60	Anhy & shale
985	995	10	Salt
995	1050	55	Anhy
1050	1070	20	Red shale
1070	1360	290	Anhy & shale
1360	1600	240	Anhy
1600	1635	35	Broken anhy
1635	1679	44	Sandy shale
1679	1830	151	Anhy
1830	1840	10	Red sand

(OVER)

AT THE END OF COMPLETE DRILLER'S REPORT, THIS FORMATION RECORD MUST BE CHECKED BY THE DRILLER.

FORMATION RECORD—Continued

N.M.C.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
2531	2535	14	Ashy & red sandy shale.
2535	2550	15	Lime & shale
2550	2572	22	Lime, shale & sand
2572	2580	8	Lime & shale
2580	2621	41	Lime
2621	2642	21	Shale
2642	2670	28	Lime

EXPLOSIVES

Kind and amount used ..... Depth shot was fired ..... Depth cartridge was lowered .....

If any shot was fired, did any casing collapse? ..... Was the casing pulled? ..... If so, how much? .....

TOOLS

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

DATES

Put to producing 1927

The production for the first 24 hours was ..... barrels of fluid of which ..... % was oil; ..... % was emulsion; ..... % was water; and ..... % was sediment. Gravity, Be. 32

If a gas well, cu. ft. per 24 hours .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

Driller ..... Driller .....

Driller ..... Driller .....

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
2535	2550	15	Lime & shale
2550	2572	22	Lime, shale & sand
2572	2580	8	Lime & shale
2580	2621	41	Lime
2621	2642	21	Shale
2642	2670	28	Lime

CASING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 in.	2535	150	Dowell		
6 5/8 in.	2670	100	Dowell		

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....

Adapters—Material ..... Size .....

SHOOTING RECORD

Size shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
6 1/4 in.	Nitro	60 qts.	10-27-27	2670	2670

RESULT OF SHOOTING OR CHEMICAL TREATMENT

Size shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TREATMENT

Was well treated before drilling? ..... If so, with what? .....

Was well treated after drilling? ..... If so, with what? .....

INITIAL PRODUCTION

Was oil found in commercial quantities? ..... Was gas found in commercial quantities? .....

Was water found? ..... If so, how much? .....

Name of producing formation .....

Depth to top of producing formation .....

Depth to bottom of producing formation .....

Was well shot or chemically treated? .....

INITIAL PRODUCTION—Continued

Initial production ..... Gravity, Be. .....

Initial gas production .....

If flowing, gas pressure, lbs. per sq. in. .....

If pumping, depth of pump .....

If pumping, how many strokes per minute? .....

If gas well, cu. ft. per 24 hours .....

Fuel used per 24 hours .....

Was oil, gas, or water encountered in the drilling of this well? ..... If so, at what depths? .....

Was a log of the well made? ..... If so, was it sent to the Survey? .....

Was any information furnished the driller as to the depth of any particular formation? ..... If so, what depths

Exhibit 2-g

Form 9-330

Form approved.
Budget Bureau No. 42-R355.5.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. Mex.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 22 Sec. 34 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] [S.] of N. Line and 1980 ft. [E.] [W.] of W. Line of Section 34 Elevation 3717'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed W. J. Heard
Date November 2, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling September 4, 1959 Finished drilling September 30, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2023' to 2050' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 1802' to 1815' No. 3, from ... to ...
No. 2, from ... to ... No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	304'	Regular	None			Salt Casing
8 5/8"	28#	8rd	Used	1956'	Pittsburgh-Oil-Gas-Well-Assur.	1901'			Water String
5 1/2"	14#	8rd	Used	2021'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	4001	None	Obtained formation shut-off		
8 5/8"	1834'	None	Pump & Plug	Heavy	30 sacks Aquagel
5 1/2"	2023'	150 (Around Shoe) 50 (400-300')	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
	Mat. Frac			Treated	
	20% HCl	500 gals.	10-3-59	2023-2052'	
	Crude Oil	47,340 gals	"	"	
	Ottawa Sand	217,600 lbs.	"	"	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2052 feet, and from ... feet to ... feet

DATES

Put to producing October 12, 1959
The production for the first 24 hours was 64 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.
Gravity, °API 39°
If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

S. A. Fary, Driller — Ben Porter, Driller
E. T. Haney, Driller — ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	25	25	Caliche
25	223	198	Red shale
223	280	57	Sandy shale
280	293	13	Lime
293	328	35	Anhy
328	334	6	Sand
334	365	31	Red shale
365	380	15	Anhy
380	412	32	Red Shale
412	430	18	Anhy
430	885	455	Salt
885	1065	180	Anhy
1065	1080	15	Red shale
1080	1485	405	Anhy
1485	1518	33	Limed anhy
1518	1802	284	Anhy
1802	1817	15	Red sand
1817	1844	27	Anhy
1844	1836	-8	Salt
1836	1845	9	Lime
1845	2019	174	Anhy
2019	2023	4	Sandy lime
2023	2052	29	Sand

FOLD MARK

AT THE END OF COMPLETE DRILLERS LOG, PLACE THE WORD "CONTINUED" WHETHER FINAL OR NOT, IN THE LOWER RIGHT HAND CORNER.

FORMATION RECORD—Continued

FROM— | TO— | TOTAL FEET | FORMATION

16-43064-4 U.S. GOVERNMENT PRINTING OFFICE

Exhibit 2-h

Form 9-330

Form approved.
Budget Bureau No. 42-R355.5.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. Mex.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 25 Sec. 33 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] [S.] of N. Line and 990 ft. [E.] [W.] of E. Line of Section 33 Elevation 3740'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ...
Date November 27, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling October 26, 1959 Finished drilling November 20, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2116' to 2133' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 345' to 555' No. 3, from 1874' to 1885'
No. 2, from 373' to 380' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	343'	Regular	None			Salt Casing
8 5/8"	28#	8rd	Used	1911'	Pittsburgh-Oil-Gas-Well-Assur.	1901'			Water String
7"	23#	8rd	Used	2115'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	443'	None	Obtained formation shut-off		
8 5/8"	1911'	None	Pump & Plug	Heavy	15 sacks Aquagel
7"	2115'	150	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
	Mat. Frac			Treated	
	20% HCl	500 gals.	11-22-59	2115-2133'	
	Crude Oil	58,800 gals.	"	"	
	Ottawa Sand	240,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2133 feet, and from ... feet to ... feet

DATES

Put to producing November 27, 1959
The production for the first 24 hours was 528 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.
Gravity, °API 35.0°
If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

M. H. Crabb, Driller — L. P. Jennings, Driller
J. G. Crow, Driller — ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Caliche
15	55	40	Red shale
55	75	20	Gravel
75	225	150	Red sand shale
225	315	90	Anhy and shale
315	330	15	Anhy
330	345	15	Anhy and shale
345	395	50	Anhy
395	435	40	Red shale
435	455	20	Anhy
455	490	35	Red shale
490	500	10	Anhy
500	940	440	Salt
940	975	35	Anhy
975	980	5	Red shale
980	1100	120	Anhy
1100	1245	145	Anhy and shale
1245	1640	395	Anhy
1640	1721	81	Anhy and shale
1721	1755	34	Anhy
1755	1795	40	Anhy and shale
1795	1874	79	Anhy
1874	1885	11	Red sand
1885	1930	35	Anhy and shale

FOLD MARK

AT THE END OF COMPLETE DRILLERS LOG, PLACE THE WORD "CONTINUED" WHETHER FINAL OR NOT, IN THE LOWER RIGHT HAND CORNER.

FORMATION RECORD—Continued

FROM— | TO— | TOTAL FEET | FORMATION

16-43064-4 U.S. GOVERNMENT PRINTING OFFICE

Exhibit 2-i

Form 9-330

Budget Bureau No. 42-R355.5.
Approval expires 12-31-60.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. Mex.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 23 Sec. 34 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N.] [S.] of N. Line and 1980 ft. [E.] [W.] of E. Line of Section 34 Elevation 3633'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed W. J. Heard
Date December 1, 1958 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling October 22, 1958 Finished drilling November 23, 1958

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2062' to 2078' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 318' to 325' No. 3, from ... to ...
No. 2, from 1831' to 1838' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	313'	Regular	None			Salt Casing
8 5/8"	28#	8rd	Used	1850'	Pittsburgh-Oil-Gas-Well-Assur.	1819'			Water String
7"	23#	8rd	Used	2052'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	343	None	Obtained formation shut-off		
8 5/8"	1819	None	Pump & Plug	Heavy	45 sacks Aquagel
7"	2035	150	Pump & Plug	Heavy	15 sacks Aquagel

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
	20% HCl	500 gals.	11-24-58	2055-2085'	
	Crude Oil	56,196 gals	"	"	
	Ottawa Sand	90,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2084 feet, and from ... feet to ... feet

DATES

December 1, 1958 Put to producing December 2, 1958
The production for the first 24 hours was 89 barrels of fluid of which 100 % was oil; ... % emulsion; ... % water; and ... % sediment.
Gravity, °Bé. 36° API
If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

D. C. Crooks, Driller — Ben Porter, Driller
E. J. Farmer, Driller — ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	318	318	Red shale
318	325	7	Sand
325	355	30	Anhy
355	440	85	Red shale
440	465	25	Anhy
465	900	435	Salt
900	915	15	Anhy
915	940	25	Salt
940	980	40	Salt & anhy
980	1070	90	Anhy
1070	1195	125	Anhy & shale
1195	1831	636	Anhy
1831	1838	7	Sand
1838	1920	82	Anhy
1920	1960	40	Lime
1960	2030	70	Anhy
2030	2057	27	Anhy & sand
2057	2063	6	Anhy
2063	2078	15	Sand
2078	2084	6	Anhy & sand

FOLD MARK

AT THE END OF COMPLETE DRILLERS LOG, PLACE THE WORD "CONTINUED" WHETHER FINAL OR NOT, IN THE LOWER RIGHT HAND CORNER.

FORMATION RECORD—Continued

FROM— | TO— | TOTAL FEET | FORMATION

16-43064-4 U.S. GOVERNMENT PRINTING OFFICE

N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
1980	1983	41	Anhy
1983	1985	2	Blue shale
1985	2035	50	Anhy
2035	2085	50	Anhy and sandy shale
2085	2105	20	Anhy
2105	2116	11	Sandy lime
2116	2133	17	Sand

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of resulting, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "pulled back," so left in the well, give the size and lengths. If the well has been dynamited, give date, size, position, and number of shots. If packs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	SIZE OF HOLE	AMOUNT CEMENT	AMOUNT MUD
20"			24"		
16"			20"		
12"			16"		
10"			12"		
8"			10"		
6"			8"		
4"			6"		
3"			4"		
2"			3"		

MATERIAL USED FOR PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

SHOOTING RECORD

SIZE SHELL USED	EXPLOSIVE USED	QUANTITY	DATE	DEPTH SHOT	DEPTH CLEANED OUT

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

Results of shooting or chemical treatment _____

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing _____, 19__

The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % was emulsion; _____ % was water; and _____ % was sediment. A.P.I. Gravity _____

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION

RECORD OF WELL

Mark all depths measured from derrick floor which is _____ feet above ground. Figures to indicate bottom of formations.

FROM—	TO—	TOTAL FEET	FORMATION

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____ No. 4, from _____ to _____

No. 2, from _____ to _____ No. 5, from _____ to _____

No. 3, from _____ to _____ No. 6, from _____ to _____

Improtant water sands

No. 1, from _____ to _____ No. 3, from _____ to _____

No. 2, from _____ to _____ No. 4, from _____ to _____

(Over)

16-30057-1 U. S. GOVERNMENT PRINTING OFFICE

FOCUS MEET COMMERCIA

LOG OF OIL OR GAS WELL

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

EXAMPLE 3-1

U.S.N.R.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

Exhibit 2-j

Budget Bureau No. 42-R355.5
Approval expires 12-31-60

Form 9-330

LOCATE WELL CORRECTLY

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 8 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of S. Line and 660 ft. [W.] of E. Line of Section 13 Elevation 3728'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....

Date April 28, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling March 25, 1959 Finished drilling April 20, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1332' to 1339' (G) No. 4, from ..... to .....
No. 2, from 2062' to 2083' No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 1028' to 1851' No. 3, from ..... to .....
No. 2, from ..... to ..... No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	400'	Regular	None			Salt Sealing
8 5/8"	24#	8rd	Used	1869'	Regular	1870'			Water String
7"	23 & 24#	8rd & LT	Used	2062'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	400'	None	Obtained formation shut-off		
8 5/8"	1870'	None	Pump & Plug	Heavy	35 Sacks
7"	2050'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION RECORD

Size	Shot or treated	Kind and amount	Quantity	Date	Depth shot or treated	Depth cleaned out
		Water 2000 gals.			Treated	
		20% HCL	500 gals.	4-21-59	2059-869	
		Crude Oil	61,836 gals.	"	"	"
		Oilsan Sand	90,500 lbs.	"	"	"

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2066 feet, and from ..... feet to ..... feet

DATES

April 28, 1959 Put to producing April 28, 1959

The production for the first 24 hours was 130 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

Gravity, °API 36.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

D. C. Crooks Driller Hollis Gray Driller
E. W. Farr Driller Ben Porter Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Sand & caliche
10	235	225	Sand & shale
235	314	79	Shale & anhy
314	327	13	Gravel
327	346	19	Gravel & shale
346	358	12	Broken anhy
358	396	38	Red shale
396	481	85	Anhy
481	692	211	Salt
692	1083	121	Anhy
1013	1066	53	Anhy & lime
1066	1073	7	Red shale
1073	1131	58	Anhy
1131	1142	11	Red sand
1142	1196	54	Anhy & shale
1196	1332	136	Anhy
1332	1339	7	Lime
1339	1548	209	Anhy
1548	1551	3	Lime
1551	1680	69	Anhy
1680	1698	18	Anhy & shale
1698	1693	37	Anhy & salt
1693	1838	133	Anhy
1838	1852	23	Red sand
1852	2062	197	Anhy
2062	2083	21	Shale & sand

FORMATION RECORD—Continued

AT THE END OF CORRECTED DRILLER'S LOG, ALL WORK DONE THEREON SO FAR AS CAN BE DETERMINED FROM ALL AVAILABLE RECORDS.

FOLD | MARK

Exhibit 2-k

Budget Bureau No. 42-R355.5
Approval expires 12-31-60

Form 9-330

LOCATE WELL CORRECTLY

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 12 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N.] of S. Line and 659 ft. [W.] of W. Line of Section 13 Elevation 3727'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....

Date July 30, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling June 5, 1959 Finished drilling June 27, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1365' to 1370' (G) No. 4, from ..... to .....
No. 2, from 2108' to 2130' No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 352' to 360' No. 3, from ..... to .....
No. 2, from 1867' to 1877' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	400'	Regular	None			Salt Sealing
8 5/8"	24#	8rd	Used	1859'	Regular	1870'			Water String
7"	23 & 24#	8rd & LT	Used	2102'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	403'	None	Obtained formation shut-off		
8 5/8"	1851'	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2102'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION RECORD

Size	Shot or treated	Kind and amount	Quantity	Date	Depth shot or treated	Depth cleaned out
		Water 2000			Treated	
		20% HCL	500 gals.	6-29-59	2105-2134	
		Crude Oil	59,724 gals.	"	"	"
		Oilsan Sand	173,000#	"	"	"

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2134 feet, and from ..... feet to ..... feet

DATES

July 20 1959 Put to producing July 7 1959

The production for the first 24 hours was 96 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

Gravity, °API 35.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

R. W. Farr Driller Ben Porter Driller
E. T. Garey Driller ..... Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	260	260	Red shale
260	360	100	Anhy
360	450	90	Red shale
450	495	45	Anhy
495	915	420	Salt
915	1046	131	Anhy
1046	1085	39	Lime
1085	1224	139	Anhy & shale
1224	1250	26	Lime
1250	1310	60	Anhy
1310	1332	22	Lime
1332	1663	331	Anhy
1663	1668	5	Red shale
1668	1867	199	Anhy
1867	1877	10	Red sand
1877	1942	65	Anhy
1942	1951	9	Anhy & shale
1951	1956	5	Lime
1956	1961	5	Anhy & shale
1961	2090	129	Anhy
2090	2095	5	Sand
2095	2100	5	Sandy lime
2100	2123	23	Sand
2123	2134	11	Sand & anhy

FORMATION RECORD—Continued

AT THE END OF CORRECTED DRILLER'S LOG, ALL WORK DONE THEREON SO FAR AS CAN BE DETERMINED FROM ALL AVAILABLE RECORDS.

Exhibit 2-l

Budget Bureau No. 42-R355.5
Approval expires 12-31-60

Form 9-330

LOCATE WELL CORRECTLY

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, New Mexico
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 15 Sec. 12 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of S. Line and 1977½ ft. [W.] of W. Line of Section 12 Elevation 3723'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....

Date August 12, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling July 4, 1959 Finished drilling August 4, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2056' to 2082' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 330' to 360' No. 3, from ..... to .....
No. 2, from 1845' to 1855' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	416'	Regular	None			Salt Sealing
8 5/8"	24#	8rd	Used	1938'	Regular	1950'			Water String
7"	20#	8rd	Pittsburg	2057'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	416'	None	Obtained formation shut-off		
8 5/8"	1938'	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2060'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION RECORD

Size	Shot or treated	Kind and amount	Quantity	Date	Depth shot or treated	Depth cleaned out
		Water 2000			Treated	
		20% HCL	500 gals.	8-5-59	2060-2090'	
		Crude Oil	61,218 gals.	"	"	"
		Oilsan Sand	205,000 lbs.	"	"	"

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2090 feet, and from ..... feet to ..... feet

DATES

August 12 1959 Put to producing August 11 1959

The production for the first 24 hours was 312 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

Gravity, °API 35.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

Truman Jacobs Driller Charley Powell Driller
Al Lake Driller Bill Walker Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	5	5	Sand
5	15	10	Caliche
15	230	215	Sand & shale
230	330	100	Anhy
330	340	10	Sand
340	447	107	Shale & anhy
447	480	33	Anhy
480	975	495	Salt
975	1080	105	Anhy
1080	1115	35	Sand shale
1115	1130	15	Anhy
1130	1295	165	Anhy & shale
1295	1610	315	Anhy
1610	1630	20	Brown sand
1630	1635	5	Anhy
1635	1660	25	Salt
1660	1845	185	Anhy & salt
1845	1865	20	Red sand
1865	1928	63	Anhy
1928	1938	10	Anhy & shale
1938	1943	5	Lime
1943	1948	5	Salt
1948	1949	1	Lime
1949	1971	22	Anhy
1971	1976	5	Sand
1976	2060	84	Anhy

FORMATION RECORD—Continued

AT THE END OF CORRECTED DRILLER'S LOG, ALL WORK DONE THEREON SO FAR AS CAN BE DETERMINED FROM ALL AVAILABLE RECORDS.

N.M.O.C.C. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
2040	2043	3	Sandy lime
2043	2046	3	Sand
2046	2049	3	Sandy & shaly lime
2049	2052	3	Shale
2052	2055	3	Lime
2055	2058	3	Shale
2058	2061	3	Lime
2061	2064	3	Shale
2064	2067	3	Lime

Exhibit 2-m

Form 9-330

Budget Bureau No. 42-R355.5.
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 23 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. {N/S} of N. Line and 660 ft. {E/W} of W. Line of Section 14 Elevation 3721'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date November 3, 1959 Title Harold Heard, District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling September 15, 19 59 Finished drilling October 7, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1992' to 2020' No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 297' to 305' No. 3, from to
No. 2, from 1770' to 1787' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Nat'l	410'	Guide				Salt String
7"	20 & 23#	8rd	Nat'l	1805'	Baffle				Prod. String
5 1/2"	14#	8rd	Nat'l	1990'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	411'		None		
7"	1807'		None	Obtained formation shut-off	
5 1/2"	1991'	150 (Around Shoe)	Pump & Plug	Heavy	30 sacks
		50 (990-890')			

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

STIMULATION TREATMENT RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		20% HCL	500 gals.	11-8-59	1991-2022'	
		Crude Oil	60,000 gals.	"	"	
		Ottawa Sand	240,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2022 feet, and from feet to feet

DATES

November 3, 19 59 Put to producing October 25, 19 59

The production for the first 24 hours was 60 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, 39.4 API 39°

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

D. C. Crooks, Driller J. E. Wilcox, Driller
L. P. Jennings, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	210	210	Red shale & sand
210	287	77	Red shale
287	315	28	Anhy
315	380	65	Shale & shells
380	420	40	Red shale
420	825	405	Salt
825	860	35	Anhy
860	880	20	Red shale
880	1160	280	Anhy & red shale
1160	1280	120	Anhy
1280	1305	25	Lime
1305	1555	250	Anhy
1555	1568	13	Sand & shale
1568	1770	202	Anhy
1770	1787	17	Red sand
1787	1810	23	Anhy
1810	1827	17	SLK
1827	1938	111	Anhy
1938	1987	49	Anhy & shale
1987	1992	5	Sandy lime
1992	2022	30	Sand

FOLD MARK

AT THE END OF COMPLETE DRILLING
LOG, FOLD ON THIS LINE AND
SECOND FOLD ON THIS LINE

FORMATION RECORD—Continued

Exhibit 2-n

Form 9-330

Budget Bureau No. 42-R355.5.
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 23 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. {N/S} of S. Line and 4950 ft. {E/W} of W. Line of Section 14 Elevation 3720.5'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date December 9, 1959 Title Harold Heard, District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling October 20, 19 59 Finished drilling November 16, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2025' to 2040' No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 296' to 299' No. 3, from to
No. 2, from 1792' to 1815' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Nat'l	362'	Guide				Salt String
8 5/8"	24#	8rd	Nat'l	1830'	Baffle				Prod. String
7"	20 & 23#	8rd	Nat'l	2025'	Baffle				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	362'		None	Obtained formation shut-off	
8 5/8"	1830'		None	Pump & Plug Heavy	15 sacks Aquagel
7"	2025'	150	Pump & Plug	Heavy	

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

STIMULATION TREATMENT RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		20% HCL	500 gals.	11-18-59	2026-2064'	
		Crude Oil	69,258 gals.	"	"	
		Ottawa Sand	240,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2046 feet, and from feet to feet

DATES

December 9, 19 59 Put to producing December 9, 19 59

The production for the first 24 hours was 40 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, 39.4 API 39.0°

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

B. C. Crooks, Driller G. E. Harris, Driller
J. C. Dennis, Driller J. E. Wilcox, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Caliche
10	250	240	Red sand and shale
250	260	10	Gravel
260	325	65	Anhy
325	372	47	Red shale
372	382	10	Anhy
382	470	28	Red shale
410	450	40	Anhy and shale
450	855	405	Salt
855	900	45	Anhy and shale
900	974	74	Anhy
974	999	25	Anhy and lime
999	1125	26	Anhy
1125	1152	127	Anhy and red shale
1152	1415	263	Anhy
1415	1420	5	Anhy and shale
1420	1438	18	Lime
1438	1604	166	Anhy
1604	1625	21	Red sandy shale
1625	1792	167	Anhy
1792	1815	23	Red shale
1815	1835	20	Anhy
1835	1843	8	Lime
1843	1846	3	Anhy
1846	1859	13	SLK
1859	1893	34	Anhy

FOLD MARK

AT THE END OF COMPLETE DRILLING
LOG, FOLD ON THIS LINE AND
SECOND FOLD ON THIS LINE

FORMATION RECORD—Continued

Exhibit 2-o

Form 9-330

Budget Bureau No. 42-R355.5.
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 26 Sec. 12 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. {N/S} of S. Line and 990 ft. {E/W} of E. Line of Section 12 Elevation 3716.7'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date January 14, 1960 Title Harold Heard, District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling November 23, 19 59 Finished drilling December 19, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2103' to 2113' No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 335' to 343' No. 3, from to
No. 2, from 1867' to 1885' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Nat'l	175'	Baffle				Salt String
8 5/8"	24#	8rd	Nat'l	1867'	Baffle				Water String
7"	23#	8rd	Nat'l	2027'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	175'	None	Obtained formation shut-off		
8 5/8"	2003'	Pump & Plug	Heavy	15 sacks Gel	
7"	2054'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

STIMULATION TREATMENT RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		20% HCL	500 gals.	12-20-59	2058-2114'	
		Crude Oil	60,999 gals.	"	"	
		Ottawa Sand	240,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2116 feet, and from feet to feet

DATES

January 14, 19 60 Put to producing December 25, 19 59

The production for the first 24 hours was 250 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, 39.4 API 39.0°

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

R. O. Carrey, Driller J. C. Cox, Driller
D. C. Crooks, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Sand and red shale
15	330	315	Red shale
330	335	5	Crevice
335	341	6	Sand
341	390	49	Anhy
390	410	20	Red shale
410	435	5	Anhy
435	440	5	Anhy and shale
440	460	20	Red shale
460	490	30	Anhy and shale
490	945	455	Salt
945	995	50	Anhy and shale
995	1065	70	Anhy
1065	1260	195	Anhy and shale
1260	1660	400	Anhy
1660	1695	35	Anhy and red shale
1695	1867	172	Anhy
1867	1885	18	Red sand
1885	1917	32	Anhy
1917	1938	11	Lime
1938	1935	7	Anhy & lime
1935	1939	4	SLK
1939	2048	109	Anhy
2048	2096	48	Anhy and shale
2096	2103	7	Sandy lime
2103	2116	13	Sand

FOLD MARK

AT THE END OF COMPLETE DRILLING
LOG, FOLD ON THIS LINE AND
SECOND FOLD ON THIS LINE

FORMATION RECORD—Continued

W.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
1945	2015	70	Shale and red shale
2015	2065	50	Shale
2065	2095	30	Shale and shale
2095	2135	40	Shale and sandy lime
2135	2145	10	Shale

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FORMATION RECORD

CASING RECORD

SIZE CASING	WHERE SET	NUMBER SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT PULLED
10"	1945	200	Halliburton		
8"	2135	200	Halliburton		

MUDDING AND CEMENTING RECORD

PLUGS AND ADAPTERS

HISTORY OF OIL OR GAS WELL

If the present intelligence to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was pulled state how much and what was left in the well, give the depth and length. If abandoned, give date, size, position, and method of plugging. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

DATES

Commenced drilling ..... 19..., and finished drilling ..... 19...

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Date ..... Signed .....

Summary on this page is for the condition of the well at above date.

OIL OR GAS ZONES

No. 1, from ..... to ..... No. 3, from ..... to .....

No. 2, from ..... to ..... No. 4, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from ..... to ..... No. 3, from ..... to .....

No. 2, from ..... to ..... No. 4, from ..... to .....

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & PULLED FROM	PERFORATED FROM	PERFORATED TO	PURPOSE
10"	32	8		1945					
8"	24	8		2135					

MUDDING AND CEMENTING RECORD

SIZE CASING	WHERE SET	NUMBER SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT PULLED
10"	1945	200	Halliburton		
8"	2135	200	Halliburton		

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....

Adapters—Material ..... Size .....

SHOOTING RECORD

SIZE	SHELL USED	EXPLOSIVE USED	QUANTITY	DATE	DEPTH SHOT	DEPTH CLEANED OUT

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

DATES

The production for the first 24 hours was ..... barrels of fluid of which ..... % was oil; ..... % was emulsion; ..... % was water; and ..... % was sediment. Gravity, Be° ..... API° .....

If gas well, cu. ft. per 24 hours .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEE

Driller ..... Driller .....

Driller ..... Driller .....

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
1945	2015	70	Shale and red shale
2015	2065	50	Shale
2065	2095	30	Shale and shale
2095	2135	40	Shale and sandy lime
2135	2145	10	Shale

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FORMATION RECORD

CASING RECORD

SIZE CASING	WHERE SET	NUMBER SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT PULLED
10"	1945	200	Halliburton		
8"	2135	200	Halliburton		

MUDDING AND CEMENTING RECORD

PLUGS AND ADAPTERS

HISTORY OF OIL OR GAS WELL

If the present intelligence to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was pulled state how much and what was left in the well, give the depth and length. If abandoned, give date, size, position, and method of plugging. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

DATES

Commenced drilling ..... 19..., and finished drilling ..... 19...

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Date ..... Signed .....

Summary on this page is for the condition of the well at above date.

OIL OR GAS ZONES

No. 1, from ..... to ..... No. 3, from ..... to .....

No. 2, from ..... to ..... No. 4, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from ..... to ..... No. 3, from ..... to .....

No. 2, from ..... to ..... No. 4, from ..... to .....

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & PULLED FROM	PERFORATED FROM	PERFORATED TO	PURPOSE
10"	32	8		1945					
8"	24	8		2135					

MUDDING AND CEMENTING RECORD

SIZE CASING	WHERE SET	NUMBER SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT PULLED
10"	1945	200	Halliburton		
8"	2135	200	Halliburton		

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....

Adapters—Material ..... Size .....

SHOOTING RECORD

SIZE	SHELL USED	EXPLOSIVE USED	QUANTITY	DATE	DEPTH SHOT	DEPTH CLEANED OUT

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

DATES

The production for the first 24 hours was ..... barrels of fluid of which ..... % was oil; ..... % was emulsion; ..... % was water; and ..... % was sediment. Gravity, Be° ..... API° .....

If gas well, cu. ft. per 24 hours .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEE

Driller ..... Driller .....

Driller ..... Driller .....

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FORMATION RECORD

CASING RECORD

MUDDING AND CEMENTING RECORD

PLUGS AND ADAPTERS

HISTORY OF OIL OR GAS WELL

If the present intelligence to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was pulled state how much and what was left in the well, give the depth and length. If abandoned, give date, size, position, and method of plugging. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

DATES

Commenced drilling ..... 19..., and finished drilling ..... 19...

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Date ..... Signed .....

Summary on this page is for the condition of the well at above date.

OIL OR GAS ZONES

No. 1, from ..... to ..... No. 3, from ..... to .....

No. 2, from ..... to ..... No. 4, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from ..... to ..... No. 3, from ..... to .....

No. 2, from ..... to ..... No. 4, from ..... to .....

CASING RECORD

MUDDING AND CEMENTING RECORD

PLUGS AND ADAPTERS

SHOOTING RECORD

TOOLS USED

DATES

EMPLOYEE

U.S.N.M.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

Exhibit 2-p

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 021630-A
LEASE OR PERMIT TO PROSPECT Epworth

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. Mex.
Lessor or Tract Epworth Field High Lonesome State New Mexico
Well No. 4 Sec. 14 T. 16-S R. 30-E Meridian N.M.P.M. County Eddy
Location 990 ft. {N. / S.} of S. Line and 990 ft. {W. / E.} of E. Line of Section 14 Elevation 3737'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ..... Title District Superintendent

Date February 8, 1960

The summary on this page is for the condition of the well at above date.

Commenced drilling December 24, 19 59 Finished drilling January 14, 19 60

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1365' to 1368' (G) No. 4, from ..... to .....
No. 2, from 2060' to 2076' No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 455' to 460' No. 3, from ..... to .....
No. 2, from ..... to ..... No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	301'	Baker	301'			Baker String
8 5/8"	24#	8rd	Used	1201'	Baker	1201'			Baker String
7"	20 & 23#	8rd	Used	1973'	Baker	1973'			Baker String
5 1/2"	17#	8rd	New	2076'	Guide	(2nd hand)			Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	301'	None	Obtained formation shut-off		
8 5/8"	1201'	None	Obtained formation shut-off		
7"	1973'	Bowl	Pump & Plug	Heavy	15 sacks Aquagel
5 1/2"	2050'	150 + 50	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
	20# NG	500 gals.	1-30-60	2050-2079'	
	Crude Oil	53,634	lbs.		
	Ottawa Sand	250,000	lbs.		

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2079 feet, and from ..... feet to ..... feet

DATES

February 8, 1960 Put to producing January 26, 1960

The production for the first 24 hours was 92 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

J. O. Crow, Driller O. H. Harris, Driller
E. T. Haney, Driller J. E. Wilcox, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Caliche
15	280	265	Red shale
280	335	55	Red shale & anhy
335	375	40	Red shale
375	377	2	Anhy
377	381	4	Salt
381	395	14	Red shale
395	405	10	Anhy
405	440	35	Red shale
440	460	20	Red shale & anhy
460	688	228	Salt
688	925	37	Anhy
925	938	13	Shale & anhy
938	1062	124	Anhy
1062	1100	38	Red shale
1100	1167	67	Red shale & anhy
1167	1250	83	Anhy
1250	1305	55	Anhy & shale
1305	1576	271	Anhy
1576	1750	174	Anhy & shale
1750	1875	75	Anhy
1875	1940	24	Red sand
1940	1960	43	Anhy
1960	1975	15	Anhy & shale
1975	1996	21	Anhy
1996	2016	20	Anhy & shale

(OVER)

FORMATION RECORD—CONTINUED

Exhibit 2-q

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 021630
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address Box 416, Loco Hills, N. Mex.
Lessor or Tract Brewer Field Wildcat State New Mexico
Well No. 1 Sec. 14 T. 16-S R. 30-E Meridian N.M.P.M. County Eddy
Location 660 ft. {N. / S.} of N. Line and 660 ft. {W. / E.} of E. Line of Section 14 Elevation 3728'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ..... Title State Supt.

Date Sept. 5, 1958

The summary on this page is for the condition of the well at above date.

Commenced drilling Aug. 3, 19 58 Finished drilling Aug. 25, 19 58

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1353' to 1362' No. 4, from ..... to .....
No. 2, from 1903' to 1909' (G) No. 5, from ..... to .....
No. 3, from 2067' to 2080' No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 318' to 325' No. 3, from ..... to .....
No. 2, from 1035' to 1048' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	302'	Guide	None			Surface String
8 5/8"	24#	8rd	Used	1057'	Guide	None			Water String
7"	20#	8rd	Used	2067'	Guide	None			Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	302'	None	Obtained formation shut-off		
8 5/8"	1057'	None	Pump & Plug	Heavy	50 sacks Aquagel
7"	2067'	150	Pump & Plug	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
	Paraffin			Treated	
	20# NG	500 gals.			
	Crude Oil	36,982 (gals.)	8-27-58	2051-2084'	
	Ottawa Sand	51,000#			

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2084 feet, and from ..... feet to ..... foot

DATES

Sept. 2, 19 58 Put to producing Sept. 3, 19 58

The production for the first 24 hours was 350 barrels of fluid of which 100 % was oil; ..... % emulsion; ..... % water; and ..... % sediment. Gravity, °API .....

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

N. N. Crabb, Driller J. O. Crow, Driller
D. C. Crooks, Driller Ben Porter, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	110	110	Red shale & sand
110	318	208	Red shale
318	350	32	Anhy
350	370	20	Red shale
370	378	8	Anhy
378	380	2	Salt
380	473	93	Anhy & red shale
473	890	417	Salt
890	1180	290	Anhy
1180	1305	125	Anhy & shale
1305	1353	48	Anhy
1353	1359	6	Brown sandy shale
1359	1510	151	Anhy
1510	1540	30	Lime
1540	1590	50	Anhy
1590	1733	143	Anhy & red shale
1733	1835	102	Anhy
1835	1848	13	Red sand
1848	1886	38	Anhy
1886	1909	23	Anhy & shale
1909	1915	6	Anhy
1915	1927	12	Brown lime
1927	1938	11	Anhy & red shale
1938	2002	64	Anhy
2002	2007	5	Brown shale
2007	2067	60	Anhy
2067	2084	[illegible]	[illegible]

(OVER)

FORMATION RECORD—CONTINUED

Exhibit 2-r

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 021630
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. Mex.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 5 Sec. 14 T. 16S R. 30E Meridian N.M.P.M. County Eddy
Location 1980 ft. {N. / S.} of S. Line and 1980 ft. {W. / E.} of E. Line of Section 14 Elevation 3728'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ..... Title District Superintendent

Date February 18, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling January 13, 19 59 Finished drilling February 6, 19 59

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2056' to 2076' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 345' to 352' No. 3, from ..... to .....
No. 2, from 1828' to 1849' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	383'	Baash	383'			Salt Strfng
8 5/8"	24#	8rd	Used	1880'	Baash	1880'			Water String
5 1/2"	15.5#	8rd	New	2078'	Baash	2078'			Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	383'	None	Obtained formation shut-off		
8 5/8"	1880'	None	Pump & Plug	Heavy	35 sacks Aquagel
5½"	2052'	150	"	"	15 "

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

ST'DLATION SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
	Natural			Treated	
	20# NG	420 gals.			
	Crude Oil	63,656 gals.	2-7-59	2052-2078'	
	Ottawa Sand	95,500 lbs.			

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2078 feet, and from ..... feet to ..... feet

DATES

February 18, 19 59 Put to producing February 13, 19 59

The production for the first 24 hours was 257 barrels of fluid of which 100 % was oil; 0 % emulsion; ..... % water; and ..... % sediment. Gravity, °API 36.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

D. C. Crooks, Driller Ben Porter, Driller
Hollis Gray, Driller ....., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Caliche
10	225	215	Red shale
225	345	120	Anhy
345	352	7	Sand
352	387	35	Red shale
387	400	13	Anhy
400	430	30	Red shale
430	450	20	Anhy
450	895	445	Salt
895	925	30	Anhy
25	935	10	Red shale
935	1065	130	Anhy
1065	1197	132	Anhy & shale
1197	1224	27	Lime
1224	1619	395	Anhy
1619	1630	11	Red sand
1630	1820	190	Anhy
1820	1828	8	Red shale
1828	1849	21	Red sand
1849	1878	29	Anhy
1878	1880	2	Salt
1880	1999	119	Anhy
1999	2003	4	Red shale
2003	2045	43	Anhy & shale
2045	2070	25	Anhy & sand
2070	2078	8	Red sand

(OVER)

FORMATION RECORD—CONTINUED

W.A.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM	TO	TOTAL FEET	FORMATION
2054	2058	16	Ashy
2058	2076	36	Sand
2076	2079	3	Sand & ashy

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "shot/perforated," set forth in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If any fish or junk was left in the hole, give its size and location. If any drill stem or other special tests or deviation surveys were made, put in the results. If any pulling was done, state fully, and if any casing was pulled, state how much and what was left in the hole. If a core test was taken, indicate where and the results. If any water was encountered during drilling, give depths. If any coal was encountered, give depths. If any timber was left in the well (such as packers, shoes, etc.), state what and depth. If pumping or bailing, state how. If any mud-laden fluid was used in drilling, state how much and how it was disposed of. If any oil or gas was encountered in drilling, state depths. If a gas well, give rock pressure, if known. If a dry hole, state the character of the material penetrated in drilling the last 24 hours. If drilling operations are suspended pending determination as to whether the well is to be completed or abandoned, state fully the condition of the well at the time suspension is ordered.

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	AMOUNT	KIND OF SHOE	CUT & PULLED FROM	PERFORATED FROM	TO	PURPOSE
10"	32	New	1000'	Baker				Surface
6 5/8"	20	New	2076'	Baker				Production

MUDDING AND CEMENTING RECORD

SIZE CASING	WHERE SET	NUMBER SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
10"	1000'	200	Halliburton		
6 5/8"	2076'	100	Halliburton		

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING RECORD

SIZE SHELL USED	EXPLOSIVE USED	QUANTITY	DATE	DEPTH SHOT	DEPTH CLEANED OUT

TOOLS USED

Rotary tools were used from 0 feet to 2079 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

Put to producing ..... 19..
The production for the first 24 hours was ..... barrels of fluid of which ..... % was oil; ..... % was emulsion; ..... % was water; and ..... % was sediment. A.P.I. Gravity .....
If gas well, cu. ft. per 24 hours .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

..... Driller ..... Driller
..... Driller ..... Driller

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
0	2054	2054	Shale & sand
2054	2058	4	Ashy
2058	2076	18	Sand
2076	2079	3	Sand & ashy

Commenced drilling ..... 19.. Completed drilling ..... 19..

The contractor and driller herein named certifies that this record is true and correct to the best of his knowledge, based upon the records of the work done by the contractor and by all employees during the time this well was being drilled.

Dated ..... 19.. Signed .....

Title .....

Approved ..... 19..

..... Supervisor

Form 9-330
(Rev. 3-55)

U. S. GOVERNMENT PRINTING OFFICE: 16-2575-2

FOCAL POINT CORRECTLY

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
UNITED STATES
GEOLOGICAL SURVEY

EXAMPLE 3-C

FORMATION RECORD—Continued

HISTORY OF OIL OR GAS WELL

CASING RECORD

MUDDING AND CEMENTING RECORD

SHOOTING RECORD

TOOLS USED

DATES

EMPLOYEES

FORMATION RECORD

Commenced drilling ..... 19.. Completed drilling ..... 19..

Approved ..... 19..

Form 9-330
(Rev. 3-55)

FOCAL POINT CORRECTLY

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
UNITED STATES
GEOLOGICAL SURVEY

EXAMPLE 3-D

N.A.M.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

Exhibit 2-s

Form 9-330

Budget Bureau No. 42 R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061630
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 7 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. $\frac{N}{S}$ of N. Line and 660 ft. $\frac{E}{W}$ of W. Line of Section 13 Elevation 3730'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ...
Date April 7, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling March 9, 1959. Finished drilling April 4, 1959.

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2067' to 2106' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 364' to 369' No. 3, from ... to ...
No. 2, from 1814' to 1858' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	Rnd	Unk	1964'	Regular	1964'			Salt Sealing
8 5/8"	24#	8rd	New	1964'	Regular	None	2067'	2106'	Water Sealing
7"	23#	8rd	Used	2061'	Guide	2061'			Prod. Sealing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud quantity	Amount of mud used
10 3/4"	430	None	Obtained formation shut-off		
8 5/8"	1921	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2061	150	Pump & Plug		

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2119 feet, and from ... feet to ... feet

DATES

April 7, 1959 Put to producing April 7, 1959
The production for the first 24 hours was 296 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.
If gas well, cu. ft. per 24 hours ... Gravity, °API 36.0°
Rock pressure, lbs. per sq. in. ... Gallons gasoline per 1,000 cu. ft. of gas ...

EMPLOYEES

M. E. Crabb, Driller E. J. Parish, Driller
J. C. Crow, Driller ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	312	312	Red shale
312	330	18	Shale & anhy
330	364	34	Anhy
364	369	5	Sand
369	417	48	Red shale
417	420	3	Anhy
420	450	30	Gyp & red rock
450	463	13	Red shale
463	477	14	Anhy & shale
477	915	438	Salt
915	1095	180	Anhy
1095	1235	140	Anhy & shale
1235	1620	385	Anhy
1620	1645	25	Anhy & shale
1645	1805	160	Anhy & salt
1805	1848	43	Anhy
1848	1858	10	Red sand
1858	2020	162	Anhy
2020	2050	30	Anhy & shale
2050	2065	15	Anhy
2065	2080	15	Anhy & sand
2080	2119	39	Gray sand

AT THE END OF COMPLETE DRILLERS LOG, ADD GEOLOGIC TOPS, STATE

FORMATION RECORD—Continued

Form 9-330

Budget Bureau No. 42 R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061630
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 9 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. $\frac{N}{S}$ of S. Line and 1980 ft. $\frac{E}{W}$ of W. Line of Section 13 Elevation 3733'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ...
Date June 2, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling April 30, 1959. Finished drilling May 8, 1959.

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2073' to 2095' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 368' to 377' No. 3, from ... to ...
No. 2, from 1827' to 1850' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	Rnd	Unk	434'	Regular	434'			Salt Sealing
8 5/8"	24#	8rd	New	1939'	Regular	None	2073'	2095'	Water Sealing
			Used	1939'	Baffle	1939'			
7"	23#	8rd	Used	2053'	Guide				Prod. Sealing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud quantity	Amount of mud used
10 3/4"	434'	None	Obtained formation shut-off		
8 5/8"	1939'	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2066'	150	" "	"	" "

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2095 feet, and from ... feet to ... feet

DATES

June 2, 1959 Put to producing May 8, 1959
The production for the first 24 hours was 1618 barrels of fluid of which 100.0 % was oil; 0.0 % emulsion; 0.0 % water; and 0.0 % sediment.
If gas well, cu. ft. per 24 hours ... Gravity, °API 35.5°
Rock pressure, lbs. per sq. in. ... Gallons gasoline per 1,000 cu. ft. of gas ...

EMPLOYEES

M. E. Crabb, Driller E. J. Parish, Driller
J. C. Crow, Driller ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Caliche
15	290	275	Shale
290	300	10	Gyp
300	310	10	Shale
310	377	67	Anhy
377	450	73	Shale
450	465	15	Anhy
465	905	440	Salt
905	1070	165	Anhy
1070	1205	135	Anhy & shale
1205	1225	20	Anhy & lime
1225	1337	112	Anhy
1337	1345	8	Anhy & lime
1345	1837	492	Anhy
1837	1850	13	Red sand
1850	1929	79	Anhy
1929	1940	11	Anhy & shale
1940	2011	71	Anhy
2011	2023	12	Anhy
2023	2026	3	SLK
2026	2065	39	Anhy
2065	2068	3	Sandy lime
2068	2095	27	Sand

AT THE END OF COMPLETE DRILLERS LOG, ADD GEOLOGIC TOPS, STATE

FORMATION RECORD—Continued

Exhibit 2-u

Form 9-330

Budget Bureau No. 42 R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061630
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 13 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. $\frac{N}{S}$ of N. Line and 660 ft. $\frac{E}{W}$ of W. Line of Section 14 Elevation 3706'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ...
Date August 5, 1959 Title District Engineer

The summary on this page is for the condition of the well at above date.
Commenced drilling June 8, 1959. Finished drilling July 6, 1959.

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1993' to 2020' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 1766' to 1780' No. 3, from ... to ...
No. 2, from ... to ... No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	Rnd	Unk	1964'	Regular	1964'			Salt Sealing
8 5/8"	24#	8rd	New	1931'	Baffle	1931'			Water Sealing
			Used	1900'	Guide				
7"	23#	8rd	Used	1900'	Guide				Prod. Sealing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud quantity	Amount of mud used
10 3/4"	660'	None	Obtained formation shut-off		
8 5/8"	1931'	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	1993'	150	" "	"	" "

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Natural	2 sacks	7-7-59	1993-2023'	
		Brule Gel	60.7% Gelatin			
		Ottawa Sand	130,000 Size			

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2023 feet, and from ... feet to ... feet

DATES

August 6, 1959 Put to producing July 13, 1959
The production for the first 24 hours was 440 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.
If gas well, cu. ft. per 24 hours ... Gravity, °API 35.0°
Rock pressure, lbs. per sq. in. ... Gallons gasoline per 1,000 cu. ft. of gas ...

EMPLOYEES

D. C. Crooks, Driller J. R. Wilcox, Driller
L. F. Jennings, Driller ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	1	Caliche
15	250	235	Sand & shale
250	290	40	Anhy
290	330	40	Shale
330	405	75	Anhy
405	840	435	Salt
840	1000	160	Anhy
1000	1040	40	Red shale
1040	1359	319	Anhy & shale
1359	1380	121	Anhy
1380	1402	22	Lime
1402	1630	228	Anhy
1630	1636	6	Anhy & shale
1636	1766	130	Anhy
1766	1780	14	Red sand
1780	1931	151	Anhy
1931	1940	9	Anhy & shale
1940	1993	53	Anhy
1993	2020	27	Sand
2020	2023	3	Sand & anhy

AT THE END OF COMPLETE DRILLERS LOG, ADD GEOLOGIC TOPS, STATE

FORMATION RECORD—Continued

W.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

N.A.R.A.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

Exhibit 2-v

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

Form 9-330

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 10 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N/S] of S. Line and 1980 ft. [E/W] of W. Line of Section 14 Elevation 3715'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. J. Heard
Title District Superintendent

Date September 8, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling August 6, 19 59 Finished drilling August 29, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1302' to 1305' (G). No. 4, from ____ to ____
No. 2, from 2019' to 2033' No. 5, from ____ to ____
No. 3, from ____ to ____ No. 6, from ____ to ____

IMPORTANT WATER SANDS

No. 1, from 320' to 324' No. 3, from ____ to ____
No. 2, from 1805' to 1815' No. 4, from ____ to ____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Mid-Cont	350'	Baash-Ross				Surf. String
7"	20 & 23#	8rd	Mid-Cont	1810'	Baash-Ross	1758'			Water String
5 1/2"	14#	8rd	Nat'l	2017'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	374'	Hole	Obtained formation shut-off		
7"	1840'	Hole	Pump & Plug	Heavy	30 sacks Aquagel
5 1/2"	2019'	150	" "		

PLUGS AND ADAPTERS

Heaving plug—Material ____ Length ____ Depth set ____
Adapters—Material ____ Size ____

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
	Water Frac				
	20% HCL	500 gals.	9-30-59	2019-2047'	
	Crude Oil	61,190 gals.	"	"	
	Ottawa Sand	200,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet
Cable tools were used from ____ 0 ____ feet to ____ 2047' ____ feet, and from ____ feet to ____ feet

DATES

September 8, 19 59 Put to producing September 7, 19 59

The production for the first 24 hours was 665 barrels of fluid of which 100% was oil; 0 % emulsion; 0 % water; and ____ % sediment.

Gravity, [API] API 35.0°

If gas well, cu. ft. per 24 hours ____ Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. ____

EMPLOYEES

R. W. Parr, Driller Ben Porter, Driller
R. T. Haney, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	20	20	Caliche
20	300	280	Red shale
300	320	20	Anhy & Red Shale
320	324	4	Sand
324	380	56	Anhy
380	415	35	Anhy & red shale
415	445	30	Anhy
445	892	447	Salt
892	1168	276	Anhy
1168	1191	23	Lime
1191	1197	6	Anhy & lime
1197	1585	388	Anhy
1585	1595	10	Sand
1595	1792	197	Anhy
1792	1822	30	Red sand
1822	1922	100	Anhy
1922	1950	28	Lime & Anhy
1950	2022	72	Anhy
2022	2044	22	Sand
2044	2047	3	Sand & anhy

AT THE END OF COMPLETE DRILLERS LOG, ADD ANY OTHER GEOLOGICAL INFORMATION WHICH MAY BE OF INTEREST FROM ALL AVAILABLE RECORDS.

FOLD MARKER

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

Exhibit 2-w

Form approved.
Budget Bureau No. 42-R355.4.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 067610-A
LEASE OR PERMIT TO PROSPECT Bonerth

Form 9-330

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Bonerth Field Undesignated State New Mexico
Well No. 3 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N/S] of S. Line and 660 ft. [E/W] of W. Line of Section 14 Elevation 3716'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. J. Heard
Title District Superintendent

Date June 4, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling May 2, 19 59 Finished drilling May 26, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2068' to 2077' No. 4, from ____ to ____
No. 2, from ____ to ____ No. 5, from ____ to ____
No. 3, from ____ to ____ No. 6, from ____ to ____

IMPORTANT WATER SANDS

No. 1, from 1846' to 1853' No. 3, from ____ to ____
No. 2, from ____ to ____ No. 4, from ____ to ____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Used	350'	Regular	350'			Surf. String
8 5/8"	24#	8rd	Nat'l Used	1815'	Reg.	1815'			Water String
5 1/2"	14#	8rd	Nat'l Used	2077'	Reg.				Prod. String
2"	2.9	EW	Used	2050'	Guide				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	350'	None	Obtained formation shut-off		
8 5/8"	1815'	None	Pump & Plug	Heavy	35 sacks Aquagel
2"	2077'	150	" "		

PLUGS AND ADAPTERS

Heaving plug—Material ____ Length ____ Depth set ____
Adapters—Material ____ Size ____

FRACTURING RECORD

Size shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
	Water Frac				
	20% HCL	500 gals.	5-27-59	2067-2103'	
	Crude Oil	48,720 gals.	"	"	
	Ottawa Sand	120,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet
Cable tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet

DATES

June 4, 19 59 Put to producing May 31, 19 59

The production for the first 24 hours was 262 barrels of fluid of which 100% was oil; ____ % emulsion; ____ % water; and ____ % sediment.

Gravity, [API] API 35.0°

If gas well, cu. ft. per 24 hours ____ Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. ____

EMPLOYEES

R. W. Parr, Driller Ben Porter, Driller
R. T. Haney, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	270	270	Red sandy shale
270	295	25	Anhy
295	388	93	Anhy & shale
388	425	37	Anhy
425	430	5	Red shale
430	480	50	Anhy
480	490	10	Salt
490	910	20	Anhy
910	920	10	Shale
920	1073	153	Anhy
1073	1200	127	Anhy & shale
1200	1635	435	Anhy
1635	1645	10	Red shale
1645	1846	211	Anhy
1846	1853	7	Red sand
1853	1858	5	Anhy
1858	1864	6	Red sand
1864	1877	13	Anhy
1877	1884	7	Lime
1884	1905	21	Anhy
1905	1909	4	Red shale
1909	1913	4	Brown lime
1913	1925	12	Anhy & lime
1925	2061	136	Anhy
2061	2066	7	Sandy lime
2066	2077	25	Sand & sandy lime
2077	2097	4	Anhy
2097	2101		

AT THE END OF COMPLETE DRILLERS LOG, ADD ANY OTHER GEOLOGICAL INFORMATION WHICH MAY BE OF INTEREST FROM ALL AVAILABLE RECORDS.

FOLD MARKER

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

N.M.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
UNITED STATES
GEOLOGICAL SURVEY

FOCUS NOT CORRECTED

EXHIBIT X-5

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
UNITED STATES
GEOLOGICAL SURVEY

FOCUS NOT CORRECTED

EXHIBIT X-5

N.M.M.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

Exhibit 2-a

Form approved.
Budget Bureau No. 42 R355.4.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessee or Tract Brewer Field High Lonesome State New Mexico
Well No. 21 Sec. 34 T. 16S N. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N.] of S. Line and 1970 ft. [W.] of W. Line of Section 34 Elevation 3730'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Date December 9, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling October 17, 19 59 Finished drilling November 10, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1444' to 1448' (G) No. 4, from ... to ...
No. 2, from 2126' to 2132' No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 376' to 381' No. 3, from ... to ...
No. 2, from 1681' to 1900' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Used	415'	Regular	4.30'			Salt String
8 5/8"	28#	8rd	Used	1910'	Reg.	1910'			Water String
7"	23#	8rd	Used	2132'	Guide		1977'		Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	420'	None	Obtained formation shut-off		
8 5/8"	1979	None	Pump & Plug	Heavy	15 sacks Aquagel
7"	2132'	150	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION ~~SHOOTING~~ RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Ref. Acid	500 gals.	11-13-59	2120-2132'	
		20% HCl	500 gals.	11-13-59	2120-2132'	
		Crude Oil	60,000 gals.	"	"	
		Ottawa Sand	240,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2147' feet, and from ... feet to ... feet

DATES

December 9, 19 59 Put to producing December 9, 19 59

The production for the first 24 hours was 47 barrels of fluid of which 100 % was oil; ...0...% emulsion; ...0...% water; and ...0...% sediment.

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

T. H. Farr, Driller Ben Portar, Driller
T. T. Haney, Driller ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Caliche
10	312	302	Red shaly shale
312	340	28	Lime
340	350	10	Red shale
350	376	26	Ashy
376	417	41	Red shale
417	420	3	Ashy
420	466	46	Ashy and shale
466	482	16	Ashy
482	930	448	Salt
930	1110	180	Ashy
1110	1115	5	Red shale
1115	1125	10	Ashy
1125	1145	20	Red shale
1145	1168	23	Ashy
1168	1175	7	Red shale
1175	1565	390	Ashy
1565	1579	14	Gray lime
1579	1868	289	Ashy
1868	1877	9	Lime
1877	1884	7	Blue shale
1884	1900	16	Red sand
1900	2052	152	Ashy
2052	2056	8	Red shale
2056	2106	50	Ashy
2106	2116	10	Sandy lime
2116	2122	6	Ashy
2122	2147	25	Sand and ashy

U.S. DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242
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WHETHER FROM THE ORIGINAL OR THIS COPY

Exhibit 2-b

Form approved.
Budget Bureau No. 42 R355.4.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessee or Tract Brewer Field High Lonesome State New Mexico
Well No. 27 Sec. 34 T. 16S N. 29E Meridian N.M.P.M. County Eddy
Location 990 ft. [N.] of S. Line and 660 ft. [W.] of W. Line of Section 34 Elevation 3692'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Date March 9, 1960 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling January 27, 1960 Finished drilling February 10, 19 60

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2032' to 2036' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 1770' to 1785' No. 3, from ... to ...
No. 2, from ... to ... No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Used	395'	Regular	397'			Salt String
8 5/8"	24#	8rd	Used	1810'	Reg.	1810'			Water String
7"	23#	8rd	Used	2036'	Reg.				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	397'	None	Obtained formation shut-off		
8 5/8"	1810'	None	Pump & Plug	Heavy	15 sacks Aquagel
7"	2032'	350 + 50	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION ~~SHOOTING~~ RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Ref. Acid	500 gals.	3-2-60	2030-2036'	
		20% HCl	500 gals.	3-2-60	2030-2036'	
		Crude Oil	79,668 gals.	"	"	
		Ottawa Sand	281,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2036 feet, and from ... feet to ... feet

DATES

March 9, 19 60 Put to producing March 2, 19 60

The production for the first 24 hours was 123 barrels of fluid of which 100 % was oil; ...0...% emulsion; ...0...% water; and ...0...% sediment.

Gravity, ~~BE~~ API 36.0°
If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

E. T. Haney, Driller L. P. Jennings, Driller
O. H. Harris, Driller ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	240	240	Red shale
240	290	50	Ashy
290	298	8	Lime
298	397	99	Red shale
397	420	23	Ashy
420	835	415	Salt
835	855	20	Ashy
855	895	40	Ashy and shale
895	990	95	Ashy
990	1070	80	Ashy and shale
1070	1090	20	Ashy
1090	1145	55	Ashy and shale
1145	1540	395	Ashy
1540	1565	25	Red sand and shale
1565	1615	50	Ashy
1615	1638	23	Ashy and salt
1638	1750	112	Ashy
1750	1755	5	Ashy and shale
1755	1770	15	Ashy
1770	1785	15	Red sand
1785	1835	50	Ashy
1835	1855	20	Ashy and shale
1855	1960	105	Ashy
1960	1965	5	Brown sandy shale
1965	1995	30	Ashy and shale
1995	2005	10	Sandy lime
2005	2036	31	Ashy sand

U.S. DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242
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Exhibit 2-c

Form approved.
Budget Bureau No. 42 R355.4.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 067610-A
LEASE OR PERMIT TO PROSPECT Bosworth

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessee or Tract Bosworth Field High Lonesome State New Mexico
Well No. 3 Sec. 34 T. 16S N. 29E Meridian N.M.P.M. County Eddy
Location 990 ft. [N.] of S. Line and 2310 ft. [W.] of E. Line of Section 34 Elevation 3704'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Date January 14, 1960 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling November 24, 19 59 Finished drilling December 17, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2030' to 2059' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 1725' to 1816' No. 3, from ... to ...
No. 2, from ... to ... No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Used	364'	Regular	367'			Salt String
8 5/8"	24#	8rd	Used	1816'	Reg.	1816'			Water String
7"	23#	8rd	Used	2059'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	367'	None	Obtained formation shut-off		
8 5/8"	1816'	None	Pump & Plug	Heavy	15 sacks Gel
7"	2059'	150	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION ~~SHOOTING~~ RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Ref. Acid	500 gals.	12-30-59	2030-2059'	
		20% HCl	500 gals.	12-30-59	2030-2059'	
		Crude Oil	61,693	"	"	
		Ottawa Sand	215,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2059 feet, and from ... feet to ... feet

DATES

January 14, 19 60 Put to producing December 26, 19 59

The production for the first 24 hours was 168 barrels of fluid of which 100 % was oil; ...0...% emulsion; ...0...% water; and ...0...% sediment.

Gravity, ~~BE~~ API 35.0°
If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

E. T. Haney, Driller J. E. Wilcox, Driller
O. H. Harris, Driller J. O. Crow, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	6	6	Caliche
6	70	64	Red shale
70	145	75	Gyp and shale
145	238	93	Red shale
238	297	59	Ashy
297	362	65	Ashy and shale
362	395	33	Ashy
395	435	40	Red shale
435	455	20	Ashy
455	870	415	Salt
870	894	24	Ashy and shale
894	1030	136	Ashy
1030	1139	109	Ashy and shale
1139	1549	390	Ashy
1549	1585	36	Ashy and shale
1585	1597	12	Red shale
1597	1774	177	Ashy
1774	1795	21	Ashy and shale
1795	1816	21	Red sand
1816	1846	30	Ashy
1846	1853	7	Ashy and lime
1853	1870	17	Ashy
1870	1904	34	Ashy and shale
1904	1940	36	Ashy
1940	1977	37	Ashy and shale
1977	1994	17	Sandy lime
1994	2025	31	Ashy
2025	2031	6	Sandy lime
2031	2059	28	Sand

W.S.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

HISTORY OF OIL OR GAS WELL

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & PULLED FROM	PERFORATED FROM	PERFORATED TO	PURPOSE

MUDDING AND CEMENTING RECORD

SIZE CASING	WHERE SET	NUMBER SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT

RESULT OF SHOOTING OR CHEMICAL TREATMENT

TOOLS USED

Rotary tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet.

Cable tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet.

DATES

Put to producing ____, 19__

The production for the first 24 hours was ____ barrels of fluid of which ____% was oil; ____% was emulsion; ____% was water; and ____% was sediment. A.P.I. Gravity ____

If gas well, cu. ft. per 24 hours ____ Gallons gasoline per 1,000 cu. ft. of gas ____ Rock pressure, lbs. per sq. in. ____

EMPLOYEES

Driller ____ Driller ____

Tool dresser ____ Tool dresser ____

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FOLD MAP CORRECTLY

U.S.G.S. OFFICE COPY
RETURN TO
MAIN OFFICE
ROOM 7
RESTRICTED

U.S.G.S. MICROGRAPHICS
BEST AVAILABLE COPY

Form 9-330

Exhibit 2-d

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 2 Sec. 12 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N] of S Line and 660 ft. [W] of W Line of Section 12 Elevation 3720'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....
Title Dist. Prod. Superintendent

Date October 20, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling September 4, 1959 Finished drilling October 5, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1943' to 1998' (G) No. 4, from ..... to .....
No. 2, from 2660' to 2675' No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 332' to 362' No. 3, from ..... to .....
No. 2, from 1828' to 1836' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Lone	435'	Regular				Surf. String
8 5/8"	24#	8rd	Lone	1954'	Regular				Prod. String
7"	20 & 23#	8rd	Lone	2675'	Guide				Prod. String

SHOOTING OR CHEMICAL TREATMENT

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	468'	None	Obtained formation shut-off		
8 5/8"	1957'	none	Obtained formation shut-off		
7"	2675'	150	Pump & Plug	Heavy	90 sacks

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING OR CHEMICAL TREATMENT RECORD

Size	Shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
		Mud Acid	500 gals.	10-13-59	2660-2690	
		20% HCL	500 gals.	10-13-59	2660-2690	
		Crude Oil	53,150 gals.	10-13-59		
		Ottawa Sand	85,000 lbs.			

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from ..... 0 ..... feet to 2710 feet, and from ..... feet to ..... feet

DATES

October 20, 1959
The production for the first 24 hours was 396 barrels of fluid of which 100 % was oil; ..... % emulsion; ..... % water; and ..... % sediment.
Put to producing October 15, 1959
Gravity, °Bé. ..... API 36.0°
If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

H. H. Crabb, Driller Dan Porter, Driller
D. C. Crocker, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	227	227	Red shale & sand
227	352	125	Anhy & grp
352	405	43	Red shale
405	413	8	Anhy & grp
413	445	32	Red shale
445	463	18	Anhy
463	890	427	Salt
890	1055	165	Anhy
1055	1070	15	Lime
1070	1118	48	Red shale
1118	1206	88	Shale & anhy
1206	1886	680	Anhy
1886	1900	14	Anhy & red shale
1900	2000	100	Anhy
2000	2048	48	Anhy & red shale
2048	2085	37	Sand
2085	2108	23	Anhy
2108	2220	112	Anhy & red shale
2220	2256	36	Anhy
2256	2286	30	Lime & anhy
2286	2295	9	Anhy & grp
2295	2410	115	Lime & anhy
2410	2422	12	Red shale & anhy
2422	2434	12	Anhy
2434	2498	64	Anhy & lime
2498	2507	9	Anhy
2507	2521	14	Anhy & lime

AT THE END OF COMPLETE DRILLERS LOG, ADD GEOLOGIC TOPS, STATE WHETHER FROM ELECTRICAL SURVEY

FORMATION RECORD—Continued

Form 9-330

Exhibit 2-e

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 13 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N] of N Line and 1980 ft. [W] of E Line of Section 13 Elevation 3743'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....
Title Dist. Prod. Superintendent

Date August 7, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling June 23, 1959 Finished drilling July 25, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2134' to 2170' No. 4, from ..... to .....
No. 2, from 2224' to 2430' No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 345' to 355' No. 3, from 1975' to 1985'
No. 2, from 790' to 914' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Lone	435'	Regular				Surf. String
8 5/8"	24#	8rd	Lone	1976'	Regular				Inter. String
7"	20 & 23#	8rd	Lone	2425'	Guide				Prod. String

SHOOTING OR CHEMICAL TREATMENT

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	435'	None	Obtained formation shut-off		
8 5/8"	1976'	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2425'	150	Pump & Plug	Heavy	

NOTE: Plugged back from TD 2657' to 2150' w/87 sacks cement.

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING OR CHEMICAL TREATMENT RECORD

Size	Shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
		Mud Acid	500 gals.	8-3-59	2134-2170'	
		20% HCL	500 gals.	8-3-59	2134-2170'	
		Crude Oil	29,710 gals.	"	"	
		Ottawa Sand	180,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from ..... 0 ..... feet to 2657 feet, and from ..... feet to ..... feet

DATES

August 7, 1959
The production for the first 24 hours was 284 barrels of fluid of which 100 % was oil; ..... % emulsion; 0 % water; and 0 % sediment.
Put to producing August 6, 1959
Gravity, °Bé. 38.6 API 35.0°
If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

J. C. Crow, Driller E. J. Parish, Driller
C. H. Harris, Driller M. F. Millis, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	5	5	Caliche
5	15	10	Caliche
15	270	255	Sand & shale
270	325	55	Anhy & shale
325	335	10	Gravel
335	400	65	Anhy
400	490	90	Anhy & shale
490	500	10	Anhy
500	927	427	Salt
927	1010	83	Anhy & shale
1010	1110	100	Anhy & grp
1110	1155	45	Red shale
1155	1195	40	Anhy & grp
1195	1265	70	Anhy & shale
1265	1690	425	Anhy
1690	1705	15	Anhy & shale
1705	1875	170	Anhy
1875	1895	20	Red sand
1895	1955	60	Anhy & grp
1955	1990	35	Salt
1990	1997	7	Anhy & grp
1997	1967	11	Sandy lime
1967	1976	9	Anhy & shale
1976	2028	52	Anhy
2028	2030	2	Lime
2030	2045	15	Lime & shale

AT THE END OF COMPLETE DRILLERS LOG, ADD GEOLOGIC TOPS, STATE WHETHER FROM ELECTRICAL SURVEY

FORMATION RECORD—Continued

Form 9-330

Exhibit 2-f

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 12 Sec. 12 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N] of S Line and 1980 ft. [W] of E Line of Section 12 Elevation 3730

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....
Title Dist. Prod. Superintendent

Date September 15, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling August 8, 1959 Finished drilling September 6, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2081' to 2106' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 360' to 373' No. 3, from ..... to .....
No. 2, from 1850' to 1856' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Lone	435'	Regular				Surf. String
8 5/8"	24#	8rd	Lone	1956'	Regular				Inter. String
7"	23#	8rd	Lone	2075'	Guide				Prod. String

SHOOTING OR CHEMICAL TREATMENT

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	435'	None	Obtained formation shut-off		
8 5/8"	1956'	None	Pump & Plug	Heavy	30 sacks Aquagel
7"	2077'	150	Pump & Plug	Heavy	

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING OR CHEMICAL TREATMENT RECORD

Size	Shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
		Mud Acid	500 gals.	9-7-59	2077-2106'	
		20% HCL	500 gals.	9-7-59	2077-2106'	
		Crude Oil	63,966 gals.	"	"	
		Ottawa Sand	200,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from ..... 0 ..... feet to 2106 feet, and from ..... feet to ..... feet

DATES

September 15, 1959
The production for the first 24 hours was 433 barrels of fluid of which 100 % was oil; ..... % emulsion; 0 % water; and 0 % sediment.
Put to producing September 13, 1959
Gravity, °Bé. 38.6 API 35.0°
If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

H. H. Crabb, Driller C. H. Harris, Driller
J. C. Crow, Driller E. J. Parish, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	45	45	Red clay
45	225	180	Red shale
225	240	15	Gravel
240	295	55	Red shale
295	340	45	Broken anhy
340	360	20	Anhy
360	373	13	Sand
373	380	7	Red shale & grp
380	420	40	Sandy shale
420	450	30	Anhy & shale
450	465	15	Red shale
465	478	13	Anhy
478	490	12	Anhy & grp
490	500	10	Shale
500	908	408	Salt
908	925	17	Anhy
925	985	60	Anhy & shale
985	995	10	Salt
995	1695	95	Anhy
1690	1810	20	Red shale
1810	1860	130	Anhy & shale
1860	1885	25	Anhy
1885	1895	33	Broken anhy
1895	1975	80	Sandy shale
1975	1990	15	Anhy
1990	2045	55	Anhy & shale

AT THE END OF COMPLETE DRILLERS LOG, ADD GEOLOGIC TOPS, STATE WHETHER FROM ELECTRICAL SURVEY

FORMATION RECORD—Continued

W.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM	TO	TOTAL FEET	FORMATION
4535	4615	80	Lime & red sandy shale
4615	4630	15	Lime & shale
4630	4667	37	Lime, shale & sand
4667	4680	13	Lime & sand
4680	4695	15	Lime
4695	4715	20	Lime & red shale
4715	4810	95	Lime
			Shale & red sandy shale
			Shale & red shale
			Shale & sandy shale
			Shale & sand
			Sand & shale
			Sand
			Sand & lime
			Lime & shale
			Lime

LOCATION RECORD

ELEVATION

CASING RECORD

SIZE	WEIGHT	NEW OR SECOND HAND	KIND OF SHOE	CEMENT	PERFORATED	PURPOSE
20"	94#	New	Howco	1000 sx		Surface
13 3/8"	54.5#	New	Howco	1000 sx		Intermediate
9 5/8"	40#	New	Howco	1000 sx		Intermediate
7"	23#	New	Howco	1000 sx		Production
5"	18#	New	Howco	1000 sx		Liner

INTERMEDIATE WATER SHOLS

SIZE	DEPTH	SIZE	DEPTH
20"	1000 ft	20"	1000 ft
13 3/8"	2000 ft	13 3/8"	2000 ft
9 5/8"	3000 ft	9 5/8"	3000 ft
7"	4000 ft	7"	4000 ft
5"	4500 ft	5"	4500 ft

OIL OR GAS SANDS OR ZONES

Commenced drilling 10-20-52 Finished drilling 11-20-52

Date well completed 11-20-52 Initial production 1000 BOPD

If gas well, open flow in MCF/24 hrs. 1000 Oil in first 24 hrs. 1000

Was oil gravity tested? Yes If so, what was gravity? 40

Was gas gravity tested? Yes If so, what was gravity? 0.65

Was any gas sold? No If so, to whom? —

Was any part of the well drilled with cable tools? No

Was any part of the well drilled with rotary tools? Yes

Was any part of the well drilled with air? No

Exhibit 2-g

Form approved. Budget Bureau No. 42-R355.5

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

Form 9-330

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. Mex.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 20 Sec. 14 T. 17S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N] of N. Line and 1980 ft. [E] of W. Line of Section 14 Elevation 3717'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. J. Heard
Title District Superintendent

Date November 2, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling September 4, 1959 Finished drilling September 30, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2023' to 2050' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 1902' to 1915' No. 3, from ... to ...
No. 2, from ... to ... No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	305'	Regular	None			Salt String
8 5/8"	24#	8rd	Used	1850'	Pathfinder	1750'			Water String
5 1/2"	14#	8rd	Used	2021'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	305'	None	Obtained formation shut-off		
8 5/8"	1850'	None	Pump & Plug	Heavy	30 sacks Aquagel
5 1/2"	2023'	150 (Around Shoe)	ft. ft.	ft.	
		50 (400-305')			

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION [illegible] RECORD

Size	Shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
		Water Frac				
		20% HCL	500 gals.	10-3-59	2023-2052'	
		Crude Oil	29,160 gals.	"	"	"
		Ottawa Sand	217,500 lbs.	"	"	"

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2052 feet, and from ... feet to ... feet

DATES

November 2, 1959 Put to producing October 12, 1959

The production for the first 24 hours was 64 barrels of fluid of which 100% was oil; 0% emulsion; 0% water; and 0% sediment. Gravity, [illegible] API 39.0

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

E. W. Parr, Driller — Sam Porter, Driller
E. T. Haney, Driller — ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	25	25	Caliche
25	223	198	Red shale
223	280	57	Sandy shale
280	293	13	Lime
293	328	35	Anhy
328	334	6	Sand
334	365	31	Red shale
365	380	15	Anhy
380	412	32	Red Shale
412	430	18	Anhy
430	885	455	Salt
885	1065	180	Anhy
1065	1080	15	Red shale
1080	1485	405	Anhy
1485	1518	33	Limey anhy
1518	1802	284	Anhy
1802	1817	15	Red sand
1817	1844	27	Anhy
1844	1836	-8	Salt
1836	1845	9	Lime
1845	2019	174	Anhy
2019	2023	4	Sandy lime
2023	2052	29	Sand

FOLD MARK

FOLD MARK

AT THE END OF PETROLEUM ENGINEERS TITLE

LOG OF OIL OR GAS WELL—Continued

Exhibit 2-h

Form approved. Budget Bureau No. 42-R355.5

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

Form 9-330

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. Mex.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 25 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [S] of N. Line and 990 ft. [W] of E. Line of Section 13 Elevation 3747'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. J. Heard
Title District Superintendent

Date November 27, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling October 26, 1959 Finished drilling November 20, 1959

OIL OR G'S SANDS OR ZONES
(Denote gas by G)

No. 1, from 2116' to 2133' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 345' to 355' No. 3, from 1876' to 1885'
No. 2, from 373' to 380' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	311'	Regular	425'			Salt String
8 5/8"	24#	8rd	Used	1850'	Pathfinder	1941'			Water String
7"	23#	8rd	Used	2117'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	443'	None	Obtained formation shut-off		
8 5/8"	1941'	None	Pump & Plug	Heavy	15 sacks Aquagel
7"	2115'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION [illegible] RECORD

Size	Shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
		Water Frac				
		20% HCL	500 gals.	11-22-59	2115-2133'	
		Crude Oil	28,812 gals.	"	"	"
		Ottawa Sand	250,000 lbs.	"	"	"

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2133 feet, and from ... feet to ... feet

DATES

November 27, 1959 Put to producing November 27, 1959

The production for the first 24 hours was 528 barrels of fluid of which 100% was oil; 0% emulsion; 0% water; and 0% sediment. Gravity, [illegible] API 35.0

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

M. E. Crabb, Driller — L. F. Jennings, Driller
J. G. Crow, Driller — ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Caliche
15	55	40	Red shale
55	75	20	Gravel
75	225	150	Red sand shale
225	315	90	Anhy and shale
315	330	15	Anhy
330	345	15	Anhy and shale
345	395	50	Anhy
395	435	40	Red shale
435	455	20	Anhy
455	490	35	Red shale
490	500	10	Anhy
500	940	440	Salt
940	975	35	Anhy
975	980	5	Red shale
980	1100	120	Anhy
1100	1245	145	Anhy and shale
1245	1540	295	Anhy
1540	1721	61	Anhy and shale
1721	1755	34	Anhy
1755	1795	40	Anhy and shale
1795	1874	79	Anhy
1874	1885	11	Red sand
1885	1920	35	Anhy and shale

FOLD MARK

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AT THE END OF PETROLEUM ENGINEERS TITLE

LOG OF OIL OR GAS WELL—Continued

Exhibit 2-i

Budget Bureau No. 42-R355.5
Approval expires 12-31-60

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

Form 9-330

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. Mex.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 3 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N] of N. Line and 1980 ft. [W] of E. Line of Section 14 Elevation 3633'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. J. Heard
Title District Superintendent

Date December 1, 1958

The summary on this page is for the condition of the well at above date.

Commenced drilling October 22, 1958 Finished drilling November 23, 1958

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2062' to 2072' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 318' to 325' No. 3, from ... to ...
No. 2, from 1831' to 1838' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	311'	Regular	None			Salt String
8 5/8"	24#	8rd	Used	1850'	Pathfinder	1750'			Water String
7"	23#	8rd	Used	2062'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	313'	None	Obtained formation shut-off		
8 5/8"	1849'	None	Pump & Plug	Heavy	15 sacks Aquagel
7"	2055'	150	Pump & Plug	Heavy	15 sacks Aquagel

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION [illegible] RECORD

Size	Shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
		Water Frac			Perforated	
		20% HCL	500 gals.	11-26-58	2055-2086'	
		Crude Oil	56,196 gals	"	"	"
		Ottawa Sand	90,000 lbs.	"	"	"

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2086 feet, and from ... feet to ... feet

DATES

December 1, 1958 Put to producing December 1, 1958

The production for the first 24 hours was 89 barrels of fluid of which 100% was oil; ...% emulsion; ...% water; and ...% sediment. Gravity, °Bé. 36° API

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

D. C. Crooks, Driller — Sam Porter, Driller
R. J. Parish, Driller — ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	318	318	Red shale
318	325	7	Sand
325	355	30	Anhy
355	440	85	Red shale
440	465	25	Anhy
465	900	435	Salt
900	915	15	Anhy
915	940	25	Salt
940	980	40	Salt & anhy
980	1070	90	Anhy
1070	1195	125	Anhy & shale
1195	1831	636	Anhy
1831	1838	7	Sand
1838	1920	82	Anhy
1920	1960	40	Lime
1960	2030	70	Anhy
2030	2057	27	Anhy & sand
2057	2063	6	Anhy
2063	2078	15	Sand
2078	2084	6	Anhy & sand

FOLD MARK

FOLD MARK

AT THE END OF PETROLEUM ENGINEERS TITLE

LOG OF OIL OR GAS WELL—Continued

W.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
1930	1961	61	Ashy
1961	1963	2	Blue shale
1963	2035	72	Ashy
2035	2065	30	Ashy and sandy shale
2065	2103	46	Ashy
2103	2114	11	Sandy lime
2114	2133	17	Sand

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	DEPTH SET	KIND OF SHOE	CEMENT	SIZE HOLE DRILLED IN	PULLED FROM	PERFORATED	PURPOSE
20"									
16"									
13"									
10"									
8"									
6"									
4"									

MUDDING AND CEMENTING RECORD

SIZE CASING	WHERE SET	NUMBER SACKS CEMENT	METHOD USED	MUD GRAVITY	AMOUNT MUD USED
20"					
16"					
13"					
10"					
8"					
6"					
4"					

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT

RECORD OF DRILL-STEM AND SPECIAL TESTS

DEPTH TOP	DEPTH BOTTOM	TOTAL TIME TOOL WAS OPEN	FLOWING WATER OR MUD	SHUT-IN PRESSURE	AMOUNT RECOVERED AND KIND OF FLUID

TOOLS USED

ROTARY TOOLS were used from	feet to	feet, and from	feet to	feet
CABLE TOOLS were used from	feet to	feet, and from	feet to	feet

PRODUCING RECORD

DATE FIRST PRODUCTION	PRODUCING FORMATION	DEPTH	OIL OR GAS PRODUCTION PER 24 HOURS

INITIAL WATER RUNOFF

DATE	WATER RUNOFF	GAS RUNOFF

GEOLOGIC RECORD

FORMATION	DEPTH	THICKNESS

OIL OR GAS SANDS OR ZONES

Commercial oil or gas zones were found as follows:

FROM—	TO—	TOTAL FEET	FORMATION

The information on this form is not the completion of the well as drilled.

Date [illegible], 19[illegible]

Signature [illegible]

Title [illegible]

FOOTAGE NOT CONNECTED

DEC 9 1963

LOG OF OIL OR GAS WELL

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
1930	1961	61	Ashy
1961	1963	2	Blue shale
1963	2035	72	Ashy
2035	2065	30	Ashy and sandy shale
2065	2103	46	Ashy
2103	2114	11	Sandy lime
2114	2133	17	Sand

CASING RECORD

MUDDING AND CEMENTING RECORD

RECORD OF SHOOTING OR CHEMICAL TREATMENT

TOOLS USED

PRODUCING RECORD

INITIAL WATER RUNOFF

GEOLOGIC RECORD

OIL OR GAS SANDS OR ZONES

FOOTAGE NOT CONNECTED

DEC 9 1963

LOG OF OIL OR GAS WELL

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

FORMATION RECORD—Continued

CASING RECORD

MUDDING AND CEMENTING RECORD

RECORD OF SHOOTING OR CHEMICAL TREATMENT

TOOLS USED

PRODUCING RECORD

INITIAL WATER RUNOFF

GEOLOGIC RECORD

OIL OR GAS SANDS OR ZONES

FOOTAGE NOT CONNECTED

DEC 9 1963

LOG OF OIL OR GAS WELL

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

EXAMPLE 5-1

U.S.N.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

Exhibit 2-j

Form 9-330

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 6 Sec. 11 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 560 ft. [N.] of S. Line and 660 ft. [W.] of E. Line of Section 11 Elevation 3728'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Date April 28, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling March 25, 1959 Finished drilling April 20, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1332' to 1339' (G) No. 4, from to
No. 2, from 2062' to 2083' No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 1028' to 1051' No. 3, from to
No. 2, from to No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	400'	Regular		400'		Surface String
8 5/8"	24#	8rd	Used	1651'	Regular		1870'		Water String
7"	23#	8rd	Used	2083'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	400'	None	Obtained formation shut-off		
8 5/8"	1870'	None	Pump & Plug	Heavy	35 Sacks
7"	2059'	250	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

STIMULATION RECORDS RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		20% HCL	500 gals.	4-21-59	2030-2051	
		Crude Oil	61,824 gals.	"	"	"
		Ottawa Sand	90,300 lbs.	"	"	"

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2086 feet, and from feet to feet

DATES

April 28, 1959 Put to producing April 28, 1959

The production for the first 24 hours was 130 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.
Gravity, API 36.0°
If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

D. C. Crooks Driller Hallis Gray Driller
E. W. Parr Driller Ben Porter Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Sand & caliche
10	225	225	Sand & shale
225	304	79	Shale & anhy
304	317	13	Gravel
317	346	29	Gravel & shale
346	358	12	Broken anhy
358	396	38	Red shale
396	481	85	Anhy
481	892	411	Salt
892	1013	121	Anhy
1013	1066	53	Anhy & lime
1066	1073	7	Red shale
1073	1131	58	Anhy
1131	1142	11	Red sand
1142	1196	54	Anhy & shale
1196	1332	136	Anhy
1332	1339	7	Lime
1339	1548	209	Anhy
1548	1551	3	Lime
1551	1620	69	Anhy
1620	1658	38	Anhy & shale
1658	1699	37	Anhy & salt
1699	1888	189	Anhy
1888	1941	53	Red sand
1941	2040	199	Anhy
2040	2059	19	Shale & sand

FORMATION RECORD—Continued

AT THE TOP OF CONCRETE PILLAR
U.S.G.S. BENCH MARK
ELEV. 3728.0

FOLD | MARK

Exhibit 2-k

Form 9-330

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 12 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980' ft. [N.] of S. Line and 660 ft. [W.] of M. Line of Section 13 Elevation 3727'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Date July 10, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling June 3, 1959 Finished drilling June 27, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1365' to 1370' (G) No. 4, from to
No. 2, from 2108' to 2130' No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 352' to 360' No. 3, from to
No. 2, from 1867' to 1877' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	New	406'	Regular				Surface String
8 5/8"	24#	8rd	New	1867'	Regular				Water String
7"	23 & 20#	8rd & LT	Used	2108'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	402	None	Obtained formation shut-off		
8 5/8"	1951	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2108	200	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

STIMULATION RECORDS RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		20% HCL	500 gals.	6-25-59	2105-2134'	
		Crude Oil	69,780 gals.	"	"	"
		Ottawa Sand	103,000#	"	"	"

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2134 feet, and from feet to feet

DATES

July 10, 1959 Put to producing July 7, 1959

The production for the first 24 hours was 96 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.
Gravity, API 35.0°
If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

E. W. Parr Driller Ben Porter Driller
R. T. Haney Driller Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	260	260	Red shale
260	360	100	Anhy
360	450	90	Red shale
450	495	45	Anhy
495	915	420	Salt
915	1046	131	Anhy
1046	1085	39	Lime
1085	1224	139	Anhy & shale
1224	1250	26	Lime
1250	1310	60	Anhy
1310	1332	22	Lime
1332	1663	331	Anhy
1663	1668	5	Red shale
1668	1867	199	Anhy
1867	1877	10	Red sand
1877	1942	65	Anhy
1942	1951	9	Anhy & shale
1951	1956	5	Lime
1956	1961	5	Anhy & shale
1961	2090	129	Anhy
2090	2095	5	Sand
2095	2100	5	Sandy lime
2100	2121	21	Sand
2121	2134	11	Sand & anhy

FORMATION RECORD—Continued

AT THE TOP OF CONCRETE PILLAR
U.S.G.S. BENCH MARK
ELEV. 3727.0

FOLD | MARK

Exhibit 2-l

Form 9-330

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, New Mexico
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 15 Sec. 12 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of S. Line and 1977½ ft. [W.] of M. Line of Section 12 Elevation 3733'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Date August 12, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling July 6, 1959 Finished drilling August 4, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2060' to 2083' No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 330' to 340' No. 3, from to
No. 2, from 1845' to 1865' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	New	417'	Regular				Surface String
8 5/8"	24#	8rd	New	1845'	Regular				Water String
7"	20#	8rd	Reclaimed	2057'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	416'	None			
8 5/8"	1978'	None	Obtained formation shut-off		
7"	2060'	150	Pump & Plug	Heavy	35 sacks Aquagel

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

STIMULATION RECORDS RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		20% HCL	500 gals.	8-5-59	2060-2090'	
		Crude Oil	64,218 gals.	"	"	"
		Ottawa Sand	85,000 lbs.	"	"	"

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2090 feet, and from feet to feet

DATES

August 12, 1959 Put to producing August 11, 1959

The production for the first 24 hours was 312 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.
Gravity, API 35.0°
If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

Truman Jacobs Driller Charley Powell Driller
Al Tate Driller Bill Walker Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	5	5	Sand
5	15	10	Caliche
15	230	215	Sand & shale
230	330	100	Anhy
330	340	10	Sand
340	447	107	Shale & anhy
447	480	33	Anhy
480	975	495	Salt
975	1080	105	Anhy
1080	1115	35	Sand shale
1115	1130	15	Anhy
1130	1295	165	Anhy & shale
1295	1610	315	Anhy
1610	1630	20	Brown sand
1630	1635	5	Anhy
1635	1660	25	Salt
1660	1815	155	Anhy
1815	1845	30	Red sand
1845	1978	61	Anhy
1978	1938	5	Sand
1938	1943	5	Lime & shale
1943	1974	31	Lime
1974	1984	10	Shale
1984	1989	5	Lime
1989	1991	2	Anhy
1991	1995	4	Sand
1995	2000	5	Anhy

FORMATION RECORD—Continued

AT THE TOP OF CONCRETE PILLAR
U.S.G.S. BENCH MARK
ELEV. 3733.0

FOLD | MARK

N.M.C.P. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
			Shale
			Lime
			Shale
			Lime
			Shale
			Lime

Form 9-330

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061630
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

Exhibit 2-m

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 21 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N] of S. Line and 660 ft. [E] of W. Line of Section 14 Elevation 3714'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....
Date November 3, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling September 15, 19 59 Finished drilling October 7, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1992' to 2020' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 297' to 305' No. 3, from ..... to .....
No. 2, from 1770' to 1797' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Lone Star	1314'	Baker	None			Gels Strike
7"	20 & 23#	8rd	Used	1980'	Baker	None			Water String
5 1/2"	14#	8rd	Used	1990'	Guide	None			Prod. String

MUDDING AND CEMENTING RECORD

Size hole drilled	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
15"	1154'	None	Obtained formation shut-off		
9"	1807'	None	Pump & Plug	Heavy	30 sacks
5 1/2"	1991'	150 (Around Shoe)	" "	"	
		50 (980-890')			

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
	Petrofrac			1796-1846	
	20% HCL	500 gals.	10-8-59	1991-2022	
	Crude Oil	60,252 gals.	"	"	
	Ottawa Sand	240,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2022 feet, and from ..... feet to ..... feet

DATES

November 3, 19 59 Put to producing October 25, 19 59
The production for the first 24 hours was 61 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, API 39.0
If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

D. C. Crooks Driller J. E. Wilcox Driller
L. F. Jennings Driller .....

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	210	210	Red shale & sand
210	287	77	Red shale
287	315	28	Anhy
315	380	65	Shale & shells
380	420	40	Red shale
420	825	405	Salt
825	860	35	Anhy
860	880	20	Red shale
880	1160	280	Anhy & red shale
1160	1280	120	Anhy
1280	1305	25	Lime
1305	1555	250	Anhy
1555	1568	13	Sand & shale
1568	1770	202	Anhy
1770	1787	17	Red sand
1787	1810	23	Anhy
1810	1807	-3	Slit
1807	1938	131	Anhy
1938	1987	49	Anhy & shale
1987	1992	5	Sandy lime
1992	2022	30	Sand

AT THE END OF CONCRETE SYNDICATE
LOG AND CUTTINGS FURNISHED
WESTERN FIELD TO OIL CONSERVATION

FOLD | MARK

FORMATION RECORD—Continued

Form 9-330

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061630
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

Exhibit 2-n

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 23 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N] of S. Line and 1980 ft. [E] of W. Line of Section 14 Elevation 3704'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....
Date December 9, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling October 20, 19 59 Finished drilling November 16, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2025' to 2045' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 295' to 299' No. 3, from ..... to .....
No. 2, from 1752' to 1815' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Lone Star	1314'	Baker	None			Gels Strike
8 5/8"	28#		Used	1959'	Baker	None			Water String
7"	20 & 23#	8rd	Used	2022'	Guide	None			Prod. String

MUDDING AND CEMENTING RECORD

Size hole drilled	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
15"	1154'	None	Obtained formation shut-off		
10 3/4"	1629'	None	" "		
8 5/8"	1830'	Pump & Plug	" "	Heavy	15 sacks Aquagel
7"	2025'	150	" "	"	

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
	Petrofrac			1796-1846	
	20% HCL	500 gals.	11-16-59	2026-2045	
	Crude Oil	60,255 gals.	"	"	
	Ottawa Sand	240,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2046 feet, and from ..... feet to ..... feet

DATES

December 9, 19 59 Put to producing December 9, 19 59
The production for the first 24 hours was 40 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, API 55.0°
If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

D. C. Crooks Driller G. H. Harris Driller
J. C. Deale Driller J. E. Wilcox Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Caliche
10	250	240	Red sand and shale
250	260	10	Gravel
260	325	65	Anhy
325	372	47	Red shale
372	382	10	Anhy
382	410	28	Red shale
410	450	40	Anhy and shale
450	855	405	Salt
855	900	45	Anhy and shale
900	974	74	Anhy
974	999	25	Anhy and lime
999	1025	26	Anhy
1025	1152	127	Anhy and red shale
1152	1415	263	Anhy
1415	1420	5	Anhy and shale
1420	1439	19	Lime
1439	1604	166	Anhy
1604	1625	21	Red sandy shale
1625	1732	107	Anhy
1732	1752	20	Red shale
1752	1815	63	Anhy
1815	1830	15	Lime
1830	1839	9	Anhy
1839	1850	11	Lime

AT THE END OF CONCRETE DRILLERS
LOG AND CUTTINGS FURNISHED
WESTERN FIELD TO OIL CONSERVATION

FOLD | MARK

FORMATION RECORD—Continued

Form 9-330

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061630
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

Exhibit 2-o

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 26 Sec. 12 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N] of S. Line and 990 ft. [E] of E. Line of Section 12 Elevation 3714'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....
Date January 14, 1960 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling November 230, 59 Finished drilling December 19, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2103' to 2133' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 335' to 343' No. 3, from ..... to .....
No. 2, from 1867' to 1883' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Lone Star	1749'	Baker	None			Gels Strike
8 5/8"	24#	8rd	Used	2024'	Baker	None			Water String
7"	23#	8rd	Used	2072'	Guide	None			Prod. String

MUDDING AND CEMENTING RECORD

Size hole drilled	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
15"	1154'	None	Obtained formation shut-off		
9"	2024'	None	Pump & Plug	Heavy	15 sacks Gel
7"	2067'	150	" "	"	

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
	Petrofrac			1796-1846	
	20% HCL	500 gals.	12-20-59	2058-2116	
	Crude Oil	60,299 gals.	"	"	
	Ottawa Sand	240,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2116 feet, and from ..... feet to ..... feet

DATES

January 14, 19 60 Put to producing December 25, 19 59
The production for the first 24 hours was 568 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, API 35.0°
If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

R. O. Caffey Driller J. C. Cox Driller
D. C. Crooks Driller .....

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Sand and red shale
15	330	315	Red shale
330	335	5	Gravics
335	341	6	Sand
341	390	49	Anhy
390	410	20	Red shale
410	415	5	Anhy
415	420	5	Anhy and shale
420	440	20	Red shale
440	490	50	Anhy and shale
490	945	455	Salt
945	995	50	Anhy and shale
995	1065	70	Anhy
1065	1240	175	Anhy and shale
1240	1660	420	Anhy
1660	1695	35	Anhy and red shale
1695	1867	172	Anhy
1867	1885	18	Red sand
1885	1917	32	Anhy
1917	1938	11	Lime
1938	1935	7	Anhy & lime
1935	1929	-6	SLK
1929	2038	109	Anhy
2038	2096	58	Anhy and shale
2096	2103	7	Sandy lime
2103	2116	13	Sand

FORMATION RECORD—Continued

W.R.M.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
1,000	1,040	40	Shale and red shale
1,040	1,060	20	Sand
1,060	1,080	20	Shale
1,080	1,100	20	Shale and sandy lime
1,100	1,120	20	Sand
1,120	1,140	20	Sandy shale
1,140	1,160	20	Sand
1,160	1,180	20	Shale
1,180	1,200	20	Sandy shale
1,200	1,220	20	Shale
1,220	1,240	20	Sandy shale
1,240	1,260	20	Shale
1,260	1,280	20	Sandy shale

Exhibit 2-p

Form 9-330

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 057610-A
LEASE OR PERMIT TO PROSPECT Bonerth

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Bonerth Field High Lonesome State New Mexico
Well No. 4 Sec. 14 T. 16S R. 29E Meridian NMPM County Eddy
Location 990 ft. [N] of S Line and 990 ft. [W] of E Line of Section 14 Elevation 3727'
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date February 8, 1960 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling December 26, 19 59 Finished drilling January 14, 19 60

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1365' to 1368' (G) No. 4, from to
No. 2, from 2750' to 2776' No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 455' to 460' No. 3, from to
No. 2, from to No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	341'	Regular	341'			Surface String
8 5/8"	24#	8rd	Used	1980'	Regular	1980'			Water String
7"	23#	8rd	Used	2077'	Guide	2077'			Water String
5 1/2"	14#	8rd	New	2077'	Guide	Cut Off			Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	341'	Hand	Obtained formation shut-off		
8 5/8"	1980'	None	Obtained formation shut-off		
7"	2077'	None	Pump & Plug	Heavy	15 sacks Aquagel
5 1/2"	2075'	150 + 50	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING OR CHEMICAL TREATMENT RECORD

Size	Shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
		Natural Perfs			Original	
		2CK HOT	500 gals.	1-30-60	2050-2079'	
		Cross Oil	55,000 lbs.	"	"	"
		Ottawa Sand	20,000 lbs.	"	"	"

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2079 feet, and from feet to feet

DATES

Put to producing January 26, 1960

The production for the first 24 hours was 82 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, Corr. 38° API 35.0°

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

J. O. Crow, Driller O. H. Harris, Driller
R. T. Haney, Driller J. R. Wilcox, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Caliche
15	280	265	Red shale
280	335	55	Red shale & anhy
335	375	40	Red shale
375	377	2	Anhy
377	381	4	SLN
381	395	14	Red shale
395	405	10	Anhy
405	440	35	Red shale
440	460	20	Red shale & anhy
460	588	428	Salt
588	925	37	Anhy
925	938	13	Shale & anhy
938	1062	124	Anhy
1062	1100	38	Red shale
1100	1167	67	Red shale & anhy
1167	1230	63	Anhy
1230	1301	71	Anhy & shale
1301	1576	275	Anhy
1576	1730	154	Anhy & shale
1730	1873	73	Anhy
1825	1849	24	Red sand
1849	1900	51	Anhy
1900	1913	13	Anhy & shale
1913	1996	81	Anhy
1996	2016	20	Anhy & shale

(OVER)

CONTINUED—FORMATION RECORD

AT THE END OF COMANCHE CHALLENGE WELL, AND SECURING FINAL STATE AND FEDERAL FORMS & OIL GAUGES.

Exhibit 2-q

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Wildcat State New Mexico
Well No. 1 Sec. 14 T. 16-S R. 29-E Meridian NMPM County Eddy
Location 660 ft. [N] of N. Line and 660 ft. [W] of E. Line of Section 14 Elevation 3728'
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date Sept. 8, 1958 Title D. J. Heard, Dist. Supt.

The summary on this page is for the conditions of the well at above date.

Commenced drilling Aug. 3, 19 58 Finished drilling Aug. 23, 19 58

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1353' to 1362' No. 4, from to
No. 2, from 1903' to 1909' (G) No. 5, from to
No. 3, from 2067' to 2080' No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 393' to 585' No. 3, from to
No. 2, from 1635' to 1840' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	341'	Regular	341'			Surf. String
8 5/8"	24#	8rd	Used	1980'	Regular	1980'			Water String
7"	23#	8rd	Used	2077'	Guide	Cut Off			Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	330'	None	Obtained formation shut-off		
8 5/8"	1983'	None	Pump & Plug	Heavy	50 sacks Aquagel
7"	2081'	150	Pump & Plug	"	

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
		Natural Perfs			Original	
		2CK HOT	500 gals.)	8-27-58	2061-2084'	
		Cross Oil	36,000 gals.)			
		Ottawa Sand	31,000 lbs.			

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2084 feet, and from feet to feet

DATES

Sept. 2, 19 58 Put to producing Sept. 3, 19 58

The production for the first 24 hours was 360 barrels of fluid of which 100 % was oil; % emulsion; % water; and % sediment. Gravity, °API

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

E. H. Crabb, Driller J. O. Crow, Driller
D. C. Crooks, Driller Ben Porter, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	110	110	Red shale & sand
110	318	208	Red shale
318	350	32	Anhy
350	370	20	Red shale
370	378	8	Anhy
378	380	2	SLN
380	473	93	Anhy & red shale
473	690	217	Salt
690	1180	290	Anhy
1180	1305	125	Anhy & shale
1305	1353	48	Anhy
1353	1359	6	Brown sandy shale
1359	1510	151	Anhy
1510	1540	30	Lime
1540	1590	50	Anhy
1590	1733	143	Anhy & red shale
1733	1835	102	Anhy
1835	1848	13	Red sand
1848	1886	38	Anhy
1886	1909	23	Anhy & shale
1909	1915	6	Anhy
1915	1927	12	Brown lime
1927	1938	11	Anhy & red shale
1938	2002	64	Anhy
2002	2067	65	Brown shale
2067	2084	17	Anhy

(OVER)

CONTINUED—FORMATION RECORD

AT THE END OF COMANCHE CHALLENGE WELL, AND SECURING FINAL STATE AND FEDERAL FORMS & OIL GAUGES.

Exhibit 2-r

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 3 Sec. 14 T. 16S R. 29E Meridian NMPM County Eddy
Location 1980 ft. [N] of S Line and 1980 ft. [E] of E Line of Section 14 Elevation 3727'
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed H. F. Haney

Date February 18, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling January 13, 19 59 Finished drilling February 6, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2056' to 2076' No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 345' to 352' No. 2, from to
No. 2, from 1838' to 1849' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	1848'	Regular	1848'			Surf. String
8 5/8"	24#	8rd	Used	1980'	Regular	1980'			Water String
7"	23#	8rd	Used	2053	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	315	None	Obtained formation shut-off		
8 5/8"	1980	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2052	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

STIMULATION RECORD

Size	Shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
		Natural Perfs			Original	
		2CK HOT	430 gals.			
		Cross Oil	63,000 gals.	2-7-59	2032-2078'	
		Ottawa Sand	97,600 lbs.			

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2078 feet, and from feet to feet

DATES

February 18, 19 59 Put to producing February 13, 19 59

The production for the first 24 hours was 257 barrels of fluid of which 100 % was oil; 0 % emulsion; % water; and % sediment. Gravity, Corr. °API 36.0°

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

D. C. Crooks, Driller Ben Porter, Driller
Hollis Gray, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Caliche
10	225	215	Red shale
225	345	120	Anhy
345	352	7	Sand
352	367	15	Red shale
367	400	13	Anhy
400	430	30	Red shale
430	450	20	Anhy
450	893	443	Salt
893	925	32	Anhy
925	935	10	Red shale
935	1065	130	Anhy
1065	1197	132	Anhy & shale
1197	1324	27	Lime
1324	1619	295	Anhy
1619	1630	11	Red sand
1630	1820	190	Anhy
1820	1838	8	Red shale
1838	1849	21	Red sand
1849	1878	29	Anhy
1878	1880	2	SLN
1880	1999	119	Anhy
1999	2003	4	Red shale
2003	2045	43	Anhy & shale
2045	2050	5	Anhy & sand
2050	2076	26	Sand
2076	2078	2	Anhy & sand

(OVER)

CONTINUED—FORMATION RECORD

N.M.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
2034	2052	18	Shale
2052	2076	24	Sand
2076	2079	3	Sand & shale

HISTORY OF OIL OR GAS WELL

If all of the general information or any part of the detailed history of the well is missing, explain fully. Please state in detail the dates of recording/together with the reasons for the work and the results. If there were any changes made in the casing, state fully, and if any casing was "pulled out," so state. If left in the well, give size and location. If the well has been dynamited, give date, size, position, and results of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	AMOUNT	KIND OF SHOE	CUT & PULLED FROM	PERFORATED FROM	PERFORATED TO	PURPOSE
20"	94	New	40'	Baker				Conductor
13 3/8"	54.5	New	1,000'	Baker				Surface
9 5/8"	36	New	2,000'	Baker				Intermediate
7"	23	New	2,500'	Baker				Oil string
5"	18	New	2,600'	Baker				Liner

MUDDING AND CEMENTING RECORD

SIZE CASING	WHERE SET	NUMBER SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
20"	40'	50	Pump & plug		
13 3/8"	1,000'	1,000	Pump & plug		
9 5/8"	2,000'	1,500	Pump & plug		
7"	2,500'	1,000	Pump & plug		
5"	2,600'	500	Pump & plug		

ADAPTERS

Material ..... Size .....

SHOOTING RECORD

SIZE	SHELL USED	EXPLOSIVE USED	QUANTITY	DEPTH SHOT	DEPTH CLEANED OUT
20"					
13 3/8"					
9 5/8"					
7"					
5"					

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

DATES

Put to producing ..... 19..

The production for the first 24 hours was ..... barrels of fluid of which ..... % was oil; ..... % was emulsion; ..... % was water; and ..... % was sediment. A.P.I. gravity .....

If gas well, cu. ft. per 24 hours .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

Driller ..... Driller .....

Driller ..... Driller .....

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	5	5	Soil
5	1,000	995	Clay
1,000	1,021	21	Gravel
1,021	1,050	29	Clay
1,050	1,100	50	Shale & sandy shale
1,100	1,150	50	Shale
1,150	1,170	20	Sandy shale
1,170	1,200	30	Shale & sandy shale
1,200	1,250	50	Shale
1,250	1,300	50	Sandy shale
1,300	1,350	50	Shale
1,350	1,400	50	Sandy shale
1,400	1,450	50	Shale
1,450	1,500	50	Sandy shale
1,500	1,550	50	Shale
1,550	1,600	50	Sandy shale
1,600	1,650	50	Shale
1,650	1,700	50	Sandy shale
1,700	1,750	50	Shale
1,750	1,800	50	Sandy shale
1,800	1,850	50	Shale
1,850	1,900	50	Sandy shale
1,900	1,950	50	Shale
1,950	2,000	50	Sandy shale
2,000	2,034	34	Shale
2,034	2,052	18	Shale
2,052	2,076	24	Sand
2,076	2,079	3	Sand & shale

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	AMOUNT	KIND OF SHOE	CUT & PULLED FROM	PERFORATED FROM	PERFORATED TO	PURPOSE
20"	94	New	40'	Baker				Conductor
13 3/8"	54.5	New	1,000'	Baker				Surface
9 5/8"	36	New	2,000'	Baker				Intermediate
7"	23	New	2,500'	Baker				Oil string
5"	18	New	2,600'	Baker				Liner

MUDDING AND CEMENTING RECORD

SIZE CASING	WHERE SET	NUMBER SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
20"	40'	50	Pump & plug		
13 3/8"	1,000'	1,000	Pump & plug		
9 5/8"	2,000'	1,500	Pump & plug		
7"	2,500'	1,000	Pump & plug		
5"	2,600'	500	Pump & plug		

ADAPTERS

Material ..... Size .....

SHOOTING RECORD

SIZE	SHELL USED	EXPLOSIVE USED	QUANTITY	DEPTH SHOT	DEPTH CLEANED OUT
20"					
13 3/8"					
9 5/8"					
7"					
5"					

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

DATES

Put to producing ..... 19..

The production for the first 24 hours was ..... barrels of fluid of which ..... % was oil; ..... % was emulsion; ..... % was water; and ..... % was sediment. A.P.I. gravity .....

If gas well, cu. ft. per 24 hours .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

Driller ..... Driller .....

Driller ..... Driller .....

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	5	5	Soil
5	1,000	995	Clay
1,000	1,021	21	Gravel
1,021	1,050	29	Clay
1,050	1,100	50	Shale & sandy shale
1,100	1,150	50	Shale
1,150	1,170	20	Sandy shale
1,170	1,200	30	Shale & sandy shale
1,200	1,250	50	Shale
1,250	1,300	50	Sandy shale
1,300	1,350	50	Shale
1,350	1,400	50	Sandy shale
1,400	1,450	50	Shale
1,450	1,500	50	Sandy shale
1,500	1,550	50	Shale
1,550	1,600	50	Sandy shale
1,600	1,650	50	Shale
1,650	1,700	50	Sandy shale
1,700	1,750	50	Shale
1,750	1,800	50	Sandy shale
1,800	1,850	50	Shale
1,850	1,900	50	Sandy shale
1,900	1,950	50	Shale
1,950	2,000	50	Sandy shale
2,000	2,034	34	Shale
2,034	2,052	18	Shale
2,052	2,076	24	Sand
2,076	2,079	3	Sand & shale

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	AMOUNT	KIND OF SHOE	CUT & PULLED FROM	PERFORATED FROM	PERFORATED TO	PURPOSE
20"	94	New	40'	Baker				Conductor
13 3/8"	54.5	New	1,000'	Baker				Surface
9 5/8"	36	New	2,000'	Baker				Intermediate
7"	23	New	2,500'	Baker				Oil string
5"	18	New	2,600'	Baker				Liner

MUDDING AND CEMENTING RECORD

SIZE CASING	WHERE SET	NUMBER SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
20"	40'	50	Pump & plug		
13 3/8"	1,000'	1,000	Pump & plug		
9 5/8"	2,000'	1,500	Pump & plug		
7"	2,500'	1,000	Pump & plug		
5"	2,600'	500	Pump & plug		

ADAPTERS

Material ..... Size .....

SHOOTING RECORD

SIZE	SHELL USED	EXPLOSIVE USED	QUANTITY	DEPTH SHOT	DEPTH CLEANED OUT
20"					
13 3/8"					
9 5/8"					
7"					
5"					

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

DATES

Put to producing ..... 19..

The production for the first 24 hours was ..... barrels of fluid of which ..... % was oil; ..... % was emulsion; ..... % was water; and ..... % was sediment. A.P.I. gravity .....

If gas well, cu. ft. per 24 hours .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

Driller ..... Driller .....

Driller ..... Driller .....

FOOTAGE MUST CORRESPOND

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
UNITED STATES
GEOLOGICAL SURVEY

FOOTAGE MUST CORRESPOND

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
UNITED STATES
GEOLOGICAL SURVEY

FOOTAGE MUST CORRESPOND

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
UNITED STATES
GEOLOGICAL SURVEY

U.S.N.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

Exhibit 2-s

Form 9-330

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061630
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 7 Sec. 33 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N/S] of S. Line and 660 ft. [E/W] of W. Line of Section 33 Elevation 3730'

This information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ...
Title W. V. Heard District Superintendent

Date April 7, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling March 9, 1959 Finished drilling April 4, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2067' to 2106' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 364' to 369' No. 3, from ... to ...
No. 2, from 1818' to 1830' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Nat'l	337'	Regular				Salt String
8 5/8"	24#	8rd	Used	1901'	Baker				Water String
7"	23#	8rd	Used	2061'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	430	None	Obtained formation shut-off		
8 5/8"	1911	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2061	150	Pump & Plug		

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2119 feet, and from ... feet to ... feet

DATES

April 7, 1959 Put to producing April 4, 1959

The production for the first 24 hours was 296 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

If gas well, cu. ft. per 24 hours ... Gravity, API 36.0°
Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

R. H. Crabb Driller R. J. Parish Driller
J. G. Crow Driller ... Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	312	312	Red shale
312	330	18	Shale & anhy
330	364	34	Anhy
364	369	5	Sand
369	417	48	Red shale
417	420	3	Anhy
420	450	30	Gyp & red rock
450	463	13	Red shale
463	477	14	Anhy & shale
477	715	238	Salt
715	1095	380	Anhy
1095	1235	140	Anhy & shale
1235	1520	285	Anhy
1520	1645	25	Anhy & shale
1645	1805	160	Anhy & salt
1805	1848	43	Anhy
1848	1858	10	Red sand
1858	2020	162	Anhy
2020	2050	30	Anhy & shale
2050	2065	15	Anhy
2065	2080	15	Anhy & sand
2080	2119	39	Grey sand

AT THE END OF COMPLETE DRILLERS LOG, ADD TOTAL FEET, STATE WHETHER FORMATION IS REPORTED FROM DRILLERS OR GEOLOGIST.

FORMATION RECORD—Continued

FOLD MARK

Exhibit 2-t

Form 9-330

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061630
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 9 Sec. 33 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N/S] of S. Line and 1770 ft. [E/W] of W. Line of Section 33 Elevation 3731'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ...
Title W. V. Heard District Superintendent

Date June 2, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling April 10, 1959 Finished drilling May 8, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2073' to 2095' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 368' to 377' No. 3, from ... to ...
No. 2, from 1837' to 1850' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	434'	Regular				Salt String
8 5/8"	24#	8rd	Used	1922'	Baker				Water String
7"	23#	8rd	Used	2095'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	435'	None	Obtained formation shut-off		
8 5/8"	1929'	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2095'	150	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2095 feet, and from ... feet to ... feet

DATES

June 2, 1959 Put to producing May 8, 1959

The production for the first 24 hours was 1818 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

If gas well, cu. ft. per 24 hours ... Gravity, API 35.5°
Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

L. H. Crabb Driller R. J. Parish Driller
J. G. Crow Driller ... Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Caliche
15	290	275	Shale
290	300	10	Gyp
300	310	10	Shale
310	377	67	Anhy
377	450	73	Shale
450	465	15	Anhy
465	905	440	Salt
905	1070	165	Anhy
1070	1205	135	Anhy & shale
1205	1225	20	Anhy & lime
1225	1337	112	Anhy
1337	1345	8	Anhy & lime
1345	1837	492	Anhy
1837	1850	13	Red sand
1850	1929	79	Anhy
1929	1940	11	Anhy & shale
1940	2011	71	Anhy
2011	2023	12	Anhy
2023	2026	3	Salt
2026	2065	39	Anhy
2065	2068	3	Sandy lime
2068	2095	27	Sand

AT THE END OF COMPLETE DRILLERS LOG, ADD TOTAL FEET, STATE WHETHER FORMATION IS REPORTED FROM DRILLERS OR GEOLOGIST.

FORMATION RECORD—Continued

Exhibit 2-u

Form 9-330

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061630
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 13 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N/S] of N. Line and 660 ft. [E/W] of W. Line of Section 14 Elevation 3709'

This information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed ...
Title W. V. Heard District Superintendent

Date August 5, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling June 8, 1959 Finished drilling July 6, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1993' to 2020' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 1765' to 1780' No. 3, from ... to ...
No. 2, from ... to ... No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	393'	Regular				Salt String
8 5/8"	24#	8rd	Used	1911'	Baker				Water String
7"	23#	8rd	Used	1990'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	400'	None	Obtained formation shut-off		
8 5/8"	1911	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	1993	150	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

PERFORATION RECORD—SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Natural	500 gals.	7-7-59	1993-2020'	Tested
		Brown Sil	62,000 gals.	"	"	"
		Ottawa Sand	130,000 lbs.	"	"	"

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2023 feet, and from ... feet to ... feet

DATES

August 6, 1959 Put to producing July 13, 1959

The production for the first 24 hours was 440 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

If gas well, cu. ft. per 24 hours ... Gravity, API 35.0°
Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

D. C. Crooks Driller J. S. Wilcox Driller
L. F. Jennings Driller ... Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	1	Caliche
15	250	235	Sand & shale
250	290	40	Anhy
290	330	40	Shale
330	405	75	Anhy
405	840	435	Salt
840	1000	160	Anhy
1000	1040	40	Red shale
1040	1159	119	Anhy & shale
1159	1280	121	Anhy
1280	1302	22	Lime
1302	1630	328	Anhy
1630	1636	6	Anhy & shale
1636	1766	130	Anhy
1766	1780	14	Red sand
1780	1931	151	Anhy
1931	1940	9	Anhy & shale
1940	1993	53	Anhy
1993	2020	27	Sand
2020	2023	3	Sand & anhy

AT THE END OF COMPLETE DRILLERS LOG, ADD TOTAL FEET, STATE WHETHER FORMATION IS REPORTED FROM DRILLERS OR GEOLOGIST.

FORMATION RECORD—Continued

N.M.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

FORM 9-330

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES

Lease No. ____

Unit ____

Lessor or Tract ____

Field ____

State ____

Well No. ____

Sec. ____ T. ____ R. ____ Meridian ____

Location ____ ft. ____ of ____ Line and ____ ft. ____ of ____ Line of ____

Elevation ____ ft.

Drilling Commenced ____ 19__ Drilling Completed ____ 19__

Name of Driller ____ Address ____

Name of Driller ____ Address ____

Name of Driller ____ Address ____

Oil or Gas Sands or Zones

No. 1, from ____ to ____ No. 4, from ____ to ____

No. 2, from ____ to ____ No. 5, from ____ to ____

No. 3, from ____ to ____ No. 6, from ____ to ____

Important Water Sands

No. 1, from ____ to ____ No. 3, from ____ to ____

No. 2, from ____ to ____ No. 4, from ____ to ____

Casing Record

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & PULLED FROM	PERFORATED FROM	TO	PURPOSE

Mudding and Cementing Record

SIZE	WHERE SET	NUMBER SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED

Plugs and Adapters

Heaving plug—Material ____ Length ____ Depth set ____

Adapters—Material ____ Size ____

Shooting Record

SIZE	SHELL USED	EXPLOSIVE USED	QUANTITY	DATE	DEPTH SHOT	DEPTH CLEANED OUT

Rotary Tools

Cable tools were used from ____ ft. to ____ ft., and from ____ ft. to ____ ft.

Rotary tools were used from ____ ft. to ____ ft., and from ____ ft. to ____ ft.

Date ____ 19__

Put to producing ____ 19__

The production for the first 24 hours was ____ barrels of fluid of which ____% was oil; ____% was emulsion; ____% water; and ____% was sediment. A.P.I. gravity ____

If gas well, cu. ft. per 24 hours ____ Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. ____

Compositions ____

EMPLOYEES

____, Driller ____, Driller

____, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION

Remarks

HISTORY OF OIL OR GAS WELL

If a directional well, show the bottom hole location. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "telescoped," so left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

SHOOTING AND CHEMICAL RECORD

SIZE	SHELL USED	EXPLOSIVE USED	QUANTITY	DATE	DEPTH SHOT	DEPTH CLEANED OUT

RESULT OF TEST FOR WATER SHUT-OFF

RESULT OF STIMULATING

RESULT OF TEST FOR CASING SHUT-OFF

SIZE CASING	WHERE SET	MUDDING AND CEMENTING RECORD NUMBER SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED

PLUGS AND ADAPTERS

Heaving plug—Material ____ Length ____ Depth set ____

Adapters—Material ____ Size ____

TOOLS USED

Rotary tools were used from ____ ft. to ____ ft., and from ____ ft. to ____ ft.

Cable tools were used from ____ ft. to ____ ft., and from ____ ft. to ____ ft.

DATES

Put to producing ____ 19__

The production for the first 24 hours was ____ barrels of fluid of which ____% was oil; ____% was emulsion; ____% water; and ____% was sediment. A.P.I. gravity ____

If gas well, cu. ft. per 24 hours ____ Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. ____

EMPLOYEES

____, Driller ____, Driller

____, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION

Remarks

HISTORY OF OIL OR GAS WELL

If a directional well, show the bottom hole location. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "telescoped," so left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

CASING AND CEMENTING RECORD

SIZE CASING	WHERE SET	NUMBER SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED

PLUGS AND ADAPTERS

Heaving plug—Material ____ Length ____ Depth set ____

Adapters—Material ____ Size ____

SHOOTING RECORD

SIZE	SHELL USED	EXPLOSIVE USED	QUANTITY	DATE	DEPTH SHOT	DEPTH CLEANED OUT

TOOLS USED

Rotary tools were used from ____ ft. to ____ ft., and from ____ ft. to ____ ft.

Cable tools were used from ____ ft. to ____ ft., and from ____ ft. to ____ ft.

DATES

Put to producing ____ 19__

The production for the first 24 hours was ____ barrels of fluid of which ____% was oil; ____% was emulsion; ____% water; and ____% was sediment. A.P.I. gravity ____

If gas well, cu. ft. per 24 hours ____ Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. ____

EMPLOYEES

____, Driller ____, Driller

____, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION

Remarks

HISTORY OF OIL OR GAS WELL

If a directional well, show the bottom hole location. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "telescoped," so left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

CASING AND CEMENTING RECORD

SIZE CASING	WHERE SET	NUMBER SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED

PLUGS AND ADAPTERS

Heaving plug—Material ____ Length ____ Depth set ____

Adapters—Material ____ Size ____

SHOOTING RECORD

SIZE	SHELL USED	EXPLOSIVE USED	QUANTITY	DATE	DEPTH SHOT	DEPTH CLEANED OUT

TOOLS USED

Rotary tools were used from ____ ft. to ____ ft., and from ____ ft. to ____ ft.

Cable tools were used from ____ ft. to ____ ft., and from ____ ft. to ____ ft.

DATES

Put to producing ____ 19__

The production for the first 24 hours was ____ barrels of fluid of which ____% was oil; ____% was emulsion; ____% water; and ____% was sediment. A.P.I. gravity ____

If gas well, cu. ft. per 24 hours ____ Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. ____

EMPLOYEES

____, Driller ____, Driller

____, Driller ____, Driller

N.M.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

Exhibit 2-v

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

LOCATE WELL CORRECTLY

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 18 Sec. 24 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. $\left\{\begin{matrix}N.\\S.\end{matrix}\right\}$ of S. Line and 1980 ft. $\left\{\begin{matrix}E.\\W.\end{matrix}\right\}$ of W. Line of Section 24 Elevation 3713'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed E. W. Parr
Date September 8, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling August 6, 1959 Finished drilling August 29, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1302' to 1306' (G) No. 4, from ... to ...
No. 2, from 2019' to 2043' No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 320' to 331' No. 3, from ... to ...
No. 2, from 1805' to 1815' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10	32.75#	8rd	Nat'l	302'	Regular				Salt String
7"	20 & 23#	8rd	Nat'l	1810'	Reg. & Diamond				Water String
5	14#	8rd	Nat'l	2017'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10	374'	None	Obtained formation shut-off		
7"	1810'	None	Pump & Plug	Heavy	30 sacks Aquagel
5	2019'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Water Frac			Treated	
		Ref. Nitr.	500 gals.	8-30-59	2019-2047'	
		Crude Oil	61,750 gals.	"	"	
		Ottawa Sand	200,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2047' feet, and from ... feet to ... feet

DATES

September 8, 1959 Put to producing September 1, 1959

The production for the first 24 hours was 465 barrels of fluid of which 100% was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, API 35.0°

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYERS

E. W. Parr, Driller Ben Porter, Driller
E. T. Haney, Driller ... Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	20	20	Caliche
20	300	280	Red shale
300	320	20	Anhy & Red Shale
320	324	4	Sand
324	380	56	Anhy
380	415	35	Anhy & red shale
415	445	30	Anhy
445	892	447	Salt
892	1168	276	Anhy
1168	1191	23	Lime
1191	1197	6	Anhy & lime
1197	1585	388	Anhy
1585	1595	10	Sand
1595	1792	197	Anhy
1792	1822	30	Red sand
1822	1922	100	Anhy
1922	1950	28	Lime & Anhy
1950	2022	72	Anhy
2022	2044	22	Sand
2044	2047	3	Sand & anhy

AT THIS TOP OF COMPLETE DRILLERS
LOG ON FILE IN THIS STATE
WRITTEN

FORMATION RECORD—Continued

Exhibit 2-w

Form approved.
Budget Bureau No. 42-R355.4

LOCATE WELL CORRECTLY

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 067610-A
LEASE OR PERMIT TO PROSPECT Bosworth

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Bosworth Field Undesignated State New Mexico
Well No. 3 Sec. 34 T. 16S R. 30E Meridian N.M.P.M. County Eddy
Location 2080 ft. $\left\{\begin{matrix}N.\\S.\end{matrix}\right\}$ of S. Line and 660 ft. $\left\{\begin{matrix}E.\\W.\end{matrix}\right\}$ of E. Line of Section 34 Elevation 3718'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed E. W. Parr
Date June 4, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling May 2, 1959 Finished drilling May 26, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2068' to 2077' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 1816' to 1853' No. 3, from ... to ...
No. 2, from ... to ... No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10	32.75#	8rd	Used	290'	Regular				Salt String
8	24#	8rd	National	1813'	Pacific				Water String
7"	21#	17#	Used	2064'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10	290'	None	Obtained formation shut-off		
8	1813'	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2067'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

FRACTURING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Water Frac			Treated	
		Ref. Nitr.	500 gals.	5-27-59	2067-2077'	
		Crude Oil	19,790 gals.	"	"	
		Ottawa Sand	15,000 gals.	"	"	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from ... feet to ... feet, and from ... feet to ... feet

DATES

June 4, 1959 Put to producing May 31, 1959

The production for the first 24 hours was 362 barrels of fluid of which 100% was oil; ... % emulsion; ... % water; and ... % sediment. Gravity, API 35.4°

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYERS

E. W. Parr, Driller Ben Porter, Driller
E. T. Haney, Driller ... Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	270	270	Red sandy shale
270	295	25	Anhy
295	388	93	Anhy & shale
388	425	37	Anhy
425	430	5	Red shale
430	480	50	Anhy
480	890	410	Salt
890	910	20	Anhy
910	920	10	Shale
920	1073	153	Anhy
1073	1200	127	Anhy & shale
1200	1625	425	Anhy
1625	1635	10	Red shale
1635	1846	211	Anhy
1846	1853	7	Red sand
1853	1858	5	Anhy
1858	1864	6	Red sand
1864	1877	13	Anhy
1877	1884	7	Lime
1884	1905	21	Anhy
1905	1909	4	Red shale
1909	1913	4	Brown lime
1913	1925	12	Anhy & lime
1925	2061	136	Anhy
2061	2068	7	Sandy lime
2068	2077	9	Sand & sandy lime
2077	2097	20	Sand
2097	2101	4	Anhy

FORMATION RECORD—Continued

N.M.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES

FOCUS MAP CONNECTS

EXAMPLE X-Y

U.S.N.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

Exhibit 2-a

Form 9-330

Form approved.
Budget Bureau No. 42-R355.5.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 436, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 21 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. $\frac{N}{S}$ of S. Line and 1970 ft. $\frac{E}{W}$ of W. Line of Section 13 Elevation 3730'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....
Date December 9, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling October 17, 19 59 Finished drilling November 10, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1444' to 2148' (G) No. 4, from ..... to .....
No. 2, from 2126' to 2132' No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 378' to 382' No. 3, from ..... to .....
No. 2, from 1884' to 1900' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10	3/4" 32.75#	8rd	Used	414'	Regular	1250'			Salt String
8	5/8" 24#	8rd	Used	2127'	Pattern	1917'			Water String
7"	23#	8rd	Used	2132'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10	3/4" 426'	None	Obtained formation shut-off		
8	5/8" 1917'	None	Pump & Plug	Heavy	15 sacks Aquagel
7"	2132'	750			

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Water Frac				
		20% HCl	500 gals.	11-13-59	2122-2147'	
		Crude Oil	80,556 gals.	" "	" "	
		Ottawa Sand	240,000 lbs.	" "	" "	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2147 feet, and from ..... feet to ..... feet

DATES

December 9, 19 59 Put to producing December 8, 1959

The production for the first 24 hours was 47 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

If gas well, cu. ft. per 24 hours ..... Gravity, °API. .....
Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

F. H. Farr, Driller Ben Porter, Driller
E. T. Haney, Driller ....., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Caliche
10	312	302	Red sandy shale
312	340	28	Lime
340	350	10	Red shale
350	376	26	Anhy
376	417	41	Red shale
417	420	3	Anhy
420	468	48	Anhy and shale
468	482	14	Anhy
482	930	448	Salt
930	1110	180	Anhy
1110	1115	5	Red shale
1115	1125	10	Anhy
1125	1145	20	Red shale
1145	1168	23	Anhy
1168	1175	7	Red shale
1175	1565	390	Anhy
1565	1579	14	Gray lime
1579	1868	289	Anhy
1868	1877	9	Lime
1877	1884	7	Blue shale
1884	1900	16	Red sand
1900	2052	152	Anhy
2052	2060	8	Red shale
2060	2105	45	Anhy
2105	2115	10	Gray lime
2115	2142	27	Anhy
2142	2147	5	Sand and Anhy

AT THE END OF CONCRETE DRILLER'S LOG, SHOW ALL CORING AND TESTING WHETHER FROM EL. OR SAMPLES.

FOLD MARK

Exhibit 2-b

Form 9-330

Form approved.
Budget Bureau No. 42-R355.5.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 436, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 27 Sec. 24 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 990 ft. $\frac{N}{S}$ of S. Line and 660 ft. $\frac{E}{W}$ of W. Line of Section 24 Elevation 3699'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....
Date March 9, 1960 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling January 27, 1960 Finished drilling February 18, 19 60

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2020' to 2036' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 1770' to 1785' No. 3, from ..... to .....
No. 2, from ..... to ..... No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10	3/4" 32.75#	8rd	Used	391'	Regular	3977'			Salt String
8	5/8" 24#	8rd	Used	1810'	Pattern	1804'			Water String
7"	23#	8rd	Used	1599'	Pattern				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10	3/4" 397'	None	Obtained formation shut-off		
8	5/8" 1820'	None	Pump & Plug	Heavy	15 sacks Aquagel
7"	2002'	150 x 50	" "	" "	

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Water Frac				
		20% HCl	500 gals.	2-20-60	2003-2036'	
		Crude Oil	79,560 gals.	" "	" "	
		Ottawa Sand	261,900 lbs.	" "	" "	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2036 feet, and from ..... feet to ..... feet

DATES

March 9, 19 60 Put to producing March 2, 1960

The production for the first 24 hours was 120 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

If gas well, cu. ft. per 24 hours ..... Gravity, °API. 36.0
Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

E. T. Haney, Driller L. P. Jennings, Driller
G. H. Harris, Driller ....., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	240	240	Red shale
240	290	50	Anhy
290	298	8	Lime
298	397	99	Red shale
397	420	23	Anhy
420	835	415	Salt
835	855	20	Anhy
855	895	40	Anhy and shale
895	990	95	Anhy
990	1070	80	Anhy and shale
1070	1090	20	Anhy
1090	1145	55	Anhy and shale
1145	1540	395	Anhy
1540	1565	25	Red sand and shale
1565	1615	50	Anhy
1615	1638	23	Anhy and salt
1638	1750	112	Anhy
1750	1755	5	Anhy and shale
1755	1770	15	Anhy
1770	1785	15	Red sand
1785	1835	50	Anhy
1835	1855	20	Anhy and shale
1855	1960	105	Anhy
1960	1965	5	Brown sandy shale
1965	1995	30	Anhy and shale
1995	2025	30	Sandy lime
2025	2036	11	Brown sand

Exhibit 2-c

Form 9-330

Form approved.
Budget Bureau No. 42-R355.5.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 067610-A
LEASE OR PERMIT TO PROSPECT Bosworth

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 436, Loco Hills, N. M.
Lessor or Tract Bosworth Field High Lonesome State New Mexico
Well No. 2 Sec. 24 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 990 ft. $\frac{N}{S}$ of S. Line and 2140 ft. $\frac{E}{W}$ of E. Line of Section 24 Elevation 3704'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....
Date January 14, 1960 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling November 24, 19 59 Finished drilling December 17, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2030' to 2050' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 1775' to 1816' No. 3, from ..... to .....
No. 2, from ..... to ..... No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10	3/4" 32.75#	8rd	Used	364'	Regular	3679			Salt String
8	5/8" 24#	8rd	Used	1810'	Pattern	1818'			Water String
7"	23#	8rd	Used	2027'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10	3/4" 3679	None	Obtained formation shut-off		
8	5/8" 1818'	None	Pump & Plug	Heavy	15 sacks Gel
7"	2029'	150	" "	" "	

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Water Frac				
		20% HCl	500 gals.	12-18-59	2030-2050'	
		Crude Oil	64,693 "	" "	" "	
		Ottawa Sand	233,000 lbs.	" "	" "	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2059 feet, and from ..... feet to ..... feet

DATES

January 14, 1960 Put to producing December 26, 1959

The production for the first 24 hours was 168 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

If gas well, cu. ft. per 24 hours ..... Gravity, °API. 35.0
Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

E. T. Haney, Driller J. E. Wilcox, Driller
G. H. Harris, Driller J. O. Cox, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	6	6	Cellar
6	70	64	Red shale
70	145	75	Gyp and shale
145	238	93	Red shale
238	297	59	Anhy
297	362	65	Anhy and shale
362	395	33	Anhy
395	435	40	Red shale
435	455	20	Anhy
455	870	415	Salt
870	894	24	Anhy and shale
894	1030	136	Anhy
1030	1159	129	Anhy and shale
1159	1549	390	Anhy
1549	1585	36	Anhy and shale
1585	1597	12	Red shale
1597	1774	177	Anhy
1774	1795	21	Anhy and shale
1795	1816	21	Red sand
1816	1846	30	Anhy
1846	1853	7	Anhy and lime
1853	1870	17	Anhy
1870	1904	34	Anhy and shale
1904	1940	36	Anhy
1940	1977	37	Anhy and shale
1977	1994	17	Sandy lime
1994	2025	31	Anhy
2025	2031	6	Brown sand
2031	2059	28	Sand

W.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of everything connected with the progress of the work and its results. If there were any changes made in the casing, state fully, and if any casing was "pulled back" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If holes or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	AMOUNT CEMENT	AMOUNT MUD	DEPTH SHOE	DEPTH TOP

INTERMEDIATE WATER SANDS

SIZE CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	AMOUNT CEMENT	AMOUNT MUD	DEPTH SHOE	DEPTH TOP

OIL OR GAS SANDS OR ZONES

Commercial deposits ..... Gravity ..... Initial Output .....

Date ..... Depth to top of oil sand ..... Depth to bottom .....

Depth to top of gas sand ..... Depth to bottom .....

Depth to top of second oil sand ..... Depth to bottom .....

Depth to top of second gas sand ..... Depth to bottom .....

Depth to top of third oil sand ..... Depth to bottom .....

Depth to top of third gas sand ..... Depth to bottom .....

Depth to top of fourth oil sand ..... Depth to bottom .....

Depth to top of fourth gas sand ..... Depth to bottom .....

Depth to top of fifth oil sand ..... Depth to bottom .....

Depth to top of fifth gas sand ..... Depth to bottom .....

Depth to top of sixth oil sand ..... Depth to bottom .....

Depth to top of sixth gas sand ..... Depth to bottom .....

Depth to top of seventh oil sand ..... Depth to bottom .....

Depth to top of seventh gas sand ..... Depth to bottom .....

Depth to top of eighth oil sand ..... Depth to bottom .....

Depth to top of eighth gas sand ..... Depth to bottom .....

Depth to top of ninth oil sand ..... Depth to bottom .....

Depth to top of ninth gas sand ..... Depth to bottom .....

Depth to top of tenth oil sand ..... Depth to bottom .....

Depth to top of tenth gas sand ..... Depth to bottom .....

The initial production of the first oil well in the field was ..... barrels per day.

The initial production of the first gas well in the field was ..... M. cu. ft. per day.

The production from the first oil well in the field to pass from under control was ..... barrels per day.

The production from the first gas well in the field to pass from under control was ..... M. cu. ft. per day.

The above information is given to the best of my knowledge and belief as a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....

Date .....

Summary on this page is for the condition of the well at above date.

Commenced drilling ..... 19.. Finished drilling ..... 19..

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of everything connected with the progress of the work and its results. If there were any changes made in the casing, state fully, and if any casing was "pulled back" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If holes or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	AMOUNT CEMENT	AMOUNT MUD	DEPTH SHOE	DEPTH TOP

INTERMEDIATE WATER SANDS

SIZE CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	AMOUNT CEMENT	AMOUNT MUD	DEPTH SHOE	DEPTH TOP

OIL OR GAS SANDS OR ZONES

Commenced drilling ..... 19.. Finished drilling ..... 19..

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....

Date .....

Summary on this page is for the condition of the well at above date.

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of everything connected with the progress of the work and its results. If there were any changes made in the casing, state fully, and if any casing was "pulled back" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If holes or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	AMOUNT CEMENT	AMOUNT MUD	DEPTH SHOE	DEPTH TOP

INTERMEDIATE WATER SANDS

SIZE CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	AMOUNT CEMENT	AMOUNT MUD	DEPTH SHOE	DEPTH TOP

OIL OR GAS SANDS OR ZONES

Commenced drilling ..... 19.. Finished drilling ..... 19..

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....

Date .....

Summary on this page is for the condition of the well at above date.

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

U.S.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

Exhibit 2-d

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 2 Sec. 32 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of S. Line and 660 ft. [W.] of W. Line of Section 32 Elevation 3728'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Date October 20, 1958 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling September 4, 1958 Finished drilling October 5, 1958

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1343' to 1358' (G) No. 4, from to
No. 2, from 2650' to 2670' No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 352' to 362' No. 3, from to
No. 2, from 1828' to 1836' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Lone Star	414'	Regular	414'			Salt Strata
8 5/8"	24#	8rd	Lone Star	1916'	Regular	1916'			Water String
7"	20 & 23#	8rd	Lone Star	2170'	Regular	2170'			Prod. String

HYDROLOGIC OR OIL OR GAS MEET.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	408'	None	Obtained formation shut-off		
8 5/8"	1892'	None	Obtained formation shut-off		
7"	2080'	150	Pump & Plug	Heavy	50 bbls.

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive or chemical used	Quantity	Date	Depth shot or treated	Depth cleaned out
	Nitro-Glycerine			1400'	
	20# MCA	500 gals.	10-13-58	2060-2080'	
	Crude Oil	53,124 gals.	10-13-58		
	Ottawa Sand	83,000 lbs.			

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2710 feet, and from feet to feet

DATES

Put to producing October 16, 1958

The production for the first 24 hours was 396 barrels of fluid of which 100 % was oil; % emulsion; % water; and % sediment.
Gravity, °Bé. 34.6° API

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

H. H. Crabb Driller Dan Porter Driller
R. G. Crooks Driller Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	237	237	Red shale & sand
237	362	125	Anhy & grp
362	405	43	Red shale
405	413	8	Anhy & grp
413	445	32	Red shale
445	463	18	Anhy
463	890	427	Salt
890	1055	165	Anhy
1055	1070	15	Lime
1070	1118	48	Red shale
1118	1205	88	Shale & anhy
1205	1886	681	Anhy
1886	1900	14	Anhy & red shale
1900	2000	100	Anhy
2000	2048	48	Anhy & red shale
2048	2085	37	Sand
2085	2108	23	Anhy
2108	2220	112	Anhy & red shale
2220	2258	38	Anhy
2258	2281	23	Anhy
2281	2332	51	Anhy & shale
2332	2465	133	Lime
2465	2477	12	Lime & anhy
2477	2489	12	Red shale & anhy
2489	2498	9	Anhy & lime
2498	2507	9	Anhy
2507	2521	14	Anhy & lime

AT THIS END OF CONCRETE DRILLERS LOG, AFTER CASING IS CEMENTED, STATUS OF WELL IS TO BE STATED.

FORMATION RECORD—Continued

FOLD MARK

Exhibit 2-e

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 11 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N.] of N. Line and 1980 ft. [W.] of E. Line of Section 13 Elevation 3716'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Date August 7, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling June 23, 1959 Finished drilling July 25, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2114' to 2119' No. 4, from to
No. 2, from 2124' to 2130' No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 345' to 355' No. 3, from 1875' to 1885'
No. 2, from 390' to 394' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Lone Star	414'	Regular	414'			Salt Strata
8 5/8"	24#	8rd	Lone Star	1916'	Regular	1916'			Water String
7"	20 & 23#	8rd	Lone Star	2170'	Regular	2170'			Prod. String

HYDROLOGIC OR OIL OR GAS MEET.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	415'	None	Obtained formation shut-off		
8 5/8"	1975'	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2124'	150	" "	"	

NOTE: Plugged back from TD 3637 to 2150' w/87 sacks cement.

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive or chemical used	Quantity	Date	Depth shot or treated	Depth cleaned out
	Nitro-Glycerine			1400'	
	20# MCA	500 gals.	8-1-59	2124-2150'	
	Crude Oil	52,710 gals.	" "	" "	
	Ottawa Sand	180,000 lbs.	" "	" "	

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2637 feet, and from feet to feet

DATES

August 7, 1959 Put to producing August 6, 1959

The production for the first 24 hours was 284 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.
Gravity, °Bé. 34.6° API

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

J. G. Crow Driller E. J. Parish Driller
C. E. Harris Driller H. F. Willis Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	5	5	Cellar
5	15	10	Caliche
15	270	255	Sand & shale
270	325	55	Anhy & shale
325	335	10	Gravel
335	400	65	Anhy
400	490	90	Anhy & shale
490	500	10	Anhy & grp
500	927	427	Salt
927	1010	83	Anhy & shale
1010	1110	100	Anhy & lime
1110	1155	45	Red shale
1155	1195	40	Anhy
1195	1255	60	Anhy & shale
1255	1470	215	Anhy
1470	1705	35	Anhy & shale
1705	1875	170	Anhy
1875	1895	20	Red sand
1895	1955	60	Anhy & salt
1955	1990	35	Salt
1990	1998	8	Anhy & shale
1998	1967	31	Salt
1967	1976	9	Sandy lime
1976	2028	52	Anhy & shale
2028	2030	2	Anhy
2030	2037	54	Lime
2037	2050	13	Anhy & shale

AT THIS END OF CONCRETE DRILLERS LOG, AFTER CASING IS CEMENTED, STATUS OF WELL IS TO BE STATED.

FORMATION RECORD—Continued

Exhibit 2-f

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061631
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 19 Sec. 12 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of S. Line and 1980 ft. [W.] of E. Line of Section 12 Elevation 3728'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Date September 15, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling August 8, 1959 Finished drilling September 6, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2081' to 2106' No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 360' to 373' No. 3, from to
No. 2, from 1850' to 1860' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Lone Star	414'	Regular	414'			Salt Strata
8 5/8"	24#	8rd	Lone Star	1926'	Regular	1926'			Water String
7"	23#	8rd	Lone Star	2075'	Guide				Prod. String

HYDROLOGIC OR OIL OR GAS MEET.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	420'	None	Obtained formation shut-off		
8 5/8"	1929'	None	Pump & Plug	Heavy	30 sacks Aquagel
7"	2077'	150	" "	"	

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive or chemical used	Quantity	Date	Depth shot or treated	Depth cleaned out
	Nitro-Glycerine			1400'	
	20# MCA	500 gals.	9-7-59	2077-2106'	
	Crude Oil	61,866 gals.	" "	" "	
	Ottawa Sand	220,000 lbs.	" "	" "	

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2106 feet, and from feet to feet

DATES

September 15, 1959 Put to producing September 13, 1959

The production for the first 24 hours was 433 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.
Gravity, °Bé. 35.0° API

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

H. H. Crabb Driller C. E. Harris Driller
J. G. Crow Driller E. J. Parish Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	45	45	Red clay
45	225	180	Red shale
225	240	15	Gravel
240	295	55	Red shale
295	340	45	Broken anhy
340	360	20	Anhy
360	373	13	Sand
373	380	7	Red shale & grp
380	420	40	Sandy shale
420	450	30	Anhy & shale
450	465	15	Red shale
465	478	13	Anhy
478	490	12	Anhy & grp
490	500	10	Shale
500	908	408	Salt
908	925	17	Anhy
925	985	60	Anhy & shale
985	995	10	Salt
995	1090	95	Anhy
1090	1330	240	Red shale
1330	1380	130	Anhy & shale
1380	1598	368	Anhy
1600	1635	35	Brown anhy
1635	1679	67	Sandy shale
1673	1830	151	Anhy
1830	1850	20	Red sand

FORMATION RECORD—Continued

W.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
2031	2035	14	Shly & red sandy shale
2035	2350	15	Red & shale
2350	2572	72	Lime, shale & sand
2572	2580	8	Lime & sand
2580	2621	41	Lime
2621	2638	17	Shale
2638	2700	62	Lime

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	KIND OF SHOE	CEMENTED		DRIVE PIPE REMOVED		PERFORATED	
				FROM—	TO—	FROM—	TO—	FROM—	TO—
10 3/4	32	New	Reg	0	50				
8 5/8	24	New	Reg	0	1000				
6 5/8	20	New	Reg	0	2700				

INTERMEDIATE WATER SANDS

SIZE CASING	DEPTH SET					
	FROM—	TO—	FROM—	TO—	FROM—	TO—
10 3/4	0	50				
8 5/8	0	1000				
6 5/8	0	2700				

OIL OR GAS SANDS OR ZONES

Commenced drilling [illegible] 19[illegible] Completed [illegible] 19[illegible]

The information given is to be kept confidential until [illegible] 19[illegible]

OIL OR GAS ZONES

From [illegible] to [illegible] feet ... No. 1, from [illegible] to [illegible] feet ... No. 2, from [illegible] to [illegible] feet

No. 3, from [illegible] to [illegible] feet ... No. 4, from [illegible] to [illegible] feet

IMPORTANT WATER SANDS

No. 1, from [illegible] to [illegible] feet ... No. 2, from [illegible] to [illegible] feet

No. 3, from [illegible] to [illegible] feet

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	KIND OF SHOE	CEMENTED		DRIVE PIPE REMOVED		PERFORATED	
				FROM—	TO—	FROM—	TO—	FROM—	TO—
[illegible]									

INTERMEDIATE WATER SANDS

SIZE CASING	DEPTH SET					
	FROM—	TO—	FROM—	TO—	FROM—	TO—
[illegible]	

Exhibit 2-g

Form 9-330

Form approved.
Budget Bureau No. 42-R355.4.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 20 Sec. 14 T. 17S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N/S] of N. Line and 1980 ft. [E/W] of W. Line of Section 14 Elevation 3777'
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....
Title District Superintendent

Date November 2, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling September 4, 1959 Finished drilling September 30, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2023' to 2050' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 1802' to 1815' No. 3, from ..... to .....
No. 2, from ..... to ..... No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Used	1018'	Baker	1004'			Surf. String
8 5/8"	28#	8rd	Used	1815'	Guide	1793'			Water String
5 1/2"	14#	8rd	Used	2021'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	1004'	None	Obtained formation shut-off		
8 5/8"	1814'	None	Pump & Plug	Heavy	30 sacks Aquagel
5 1/2"	2021'	150. (Around Shoe) 50 (1400-1207)	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
5 1/2"		Perforated			2023-2050'	
		300 Gal.	500 gals.	12-3-59	"	
		Crude Oil	83,160 gals.	"	"	
		Ottawa Sand	217,500 lbs.	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2052 feet, and from ..... feet to ..... feet

DATES

November 2, 1959 Put to producing November 12, 1959
The production for the first 24 hours was 44 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.
If gas well, cu. ft. per 24 hours ..... Gravity, Bé 41.5° API 39°
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

E. W. Farr ..... Driller ..... Ben Porter ..... Driller
B. T. Ramey ..... Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	25	25	Caliche
25	223	198	Red shale
223	280	57	Sandy shale
280	293	13	Lime
293	328	35	Anhy
328	334	6	Sand
334	365	31	Red shale
365	380	15	Anhy
380	412	32	Red Shale
412	430	18	Anhy
430	885	455	Salt
885	1065	180	Anhy
1065	1080	15	Red shale
1080	1485	405	Anhy
1485	1518	33	Limed anhy
1518	1802	284	Anhy
1802	1817	15	Red sand
1817	1844	27	Anhy
1844	1836	-8	SLM
1836	1845	9	Lime
1845	2019	174	Anhy
2019	2023	4	Sandy lime
2023	2052	29	Sand

AT THE TIME OF COMPLETION DRILLER'S LOG AND DRILLER'S LOG ON SAMPLES WERE IDENTICAL

FORMATION RECORD—Continued

Exhibit 2-h

Form 9-330

Form approved.
Budget Bureau No. 42-R355.4.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 25 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N/S] of N. Line and 990 ft. [E/W] of E. Line of Section 13 Elevation 3747'
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....
Title District Superintendent

Date November 27, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling October 26, 1959 Finished drilling November 20, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2216' to 2133' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 345' to 355' No. 3, from 1874' to 1885'
No. 2, from 373' to 380' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Used	441'	Baker	427'			Surf. String
8 5/8"	28#	8rd	Used	1941'	Guide	1911'			Water String
7"	23#	8rd	Used	2115'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	441'	None	Obtained formation shut-off		
8 5/8"	1941'	None	Pump & Plug	Heavy	15 sacks Aquagel
7"	2115'	150	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
5 1/2"		Mid-Cont. Acid	500 gals.	11-22-59	2115-2133'	
		Crude Oil	58,800 gals.	"	"	
		Ottawa Sand	90,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2133 feet, and from ..... feet to ..... feet

DATES

November 27, 1959 Put to producing November 27, 1959

The production for the first 24 hours was 528 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, Bé 41° API 39.5°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

K. H. Grabb ..... Driller L. P. Jennings ..... Driller
J. G. Crow ..... Driller ..... Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Caliche
15	55	40	Red shale
55	75	20	Gravel
75	225	150	Red sand shale
225	315	90	Anhy and shale
315	330	15	Anhy
330	345	15	Anhy and shale
345	395	50	Anhy
395	435	40	Red shale
435	455	20	Anhy
455	490	35	Red shale
490	500	10	Anhy
500	940	440	Salt
940	975	35	Anhy
975	980	5	Red shale
980	1100	120	Anhy
1100	1245	145	Anhy and shale
1245	1640	395	Anhy
1640	1721	81	Anhy and shale
1721	1795	74	Anhy
1735	1795	60	Anhy and shale
1795	1874	79	Anhy
1874	1885	11	Red sand
1885	1920	35	Anhy and shale

AT THE TIME OF COMPLETION DRILLER'S LOG AND DRILLER'S LOG ON SAMPLES WERE IDENTICAL

FORMATION RECORD—Continued

Exhibit 2-i

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

Form 9-330

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 3 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N/S] of N. Line and 1980 ft. [E/W] of E. Line of Section 14 Elevation 3633'
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....
R. J. Heard District
Title Superintendent

Date December 2, 1958

The summary on this page is for the condition of the well at above date.

Commenced drilling October 22, 1958 Finished drilling November 23, 1958

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2062' to 2078' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 318' to 325' No. 3, from ..... to .....
No. 2, from 1831' to 1838' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Used	313'	Baker				Surf. String
8 5/8"	28#	8rd	Used	1838'	Guide				Water String
7"	23#	8rd	Used	2057'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	313	None	Obtained formation shut-off		
8 5/8"	1840	None	Pump & Plug	Heavy	45 sacks Aquagel
7"	2035	150	Pump & Plug	Heavy	15 sacks Aquagel

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING RECORD

Size	Shell used	Explosive used Materials	Quantity	Date	Depth shot	Depth cleaned out
		20% HCl	600 gals.	11-24-58	2055-2064'	
		Crude Oil	56,196 gals	"	"	
		Ottawa Sand	90,000#	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2065 feet, and from ..... feet to ..... feet

DATES

December 1, 1958 Put to producing December 1, 1958

The production for the first 24 hours was 89 barrels of fluid of which 100 % was oil; ..... % emulsion; ..... % water; and ..... % sediment. Gravity, °Bé ..... 39° API

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

D. C. Crooks ..... Driller Ben Porter ..... Driller
T. J. Parish ..... Driller ..... Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	318	318	Red shale
318	325	7	Sand
325	355	30	Anhy
355	440	85	Red shale
440	465	25	Anhy
465	900	435	Salt
900	915	15	Anhy
915	940	25	Salt
940	980	40	Salt & anhy
980	1070	90	Anhy
1070	1195	125	Anhy & shale
1195	1831	636	Anhy
1831	1838	7	Sand
1838	1920	82	Anhy
1920	1960	40	Lime
1960	2030	70	Anhy
2030	2057	27	Anhy & sand
2057	2063	6	Anhy
2063	2078	15	Sand
2078	2084	6	Anhy & sand

AT THE TIME OF COMPLETION DRILLER'S LOG AND DRILLER'S LOG ON SAMPLES WERE IDENTICAL

FORMATION RECORD—Continued

W.N.M.G.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
1930	1981	61	Andy
1981	1983	2	Blue shale
1983	2035	52	Andy
2035	2065	30	Andy and sandy shale
2065	2105	40	Andy
2105	2116	11	Sandy lime
2116	2133	17	Sand

U.S.G.S. MICROGRAPHICS

BEST AVAILABLE COPY

Exhibit 2-j

Form 9-330

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 6 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of S. Line and 660 ft. [W.] of E. Line of Section 13 Elevation 3728'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Date April 28, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling March 23, 1959 Finished drilling April 20, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1332' to 1339' (G) No. 4, from to
No. 2, from 2062' to 2083' No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 1028' to 1051' No. 3, from to
No. 2, from to No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Nat'l	400'	Baker		1307'	1327'	Oil String
8 5/8"	24#	8rd	Lone Star	1863'	Baker		1332'	1339'	Oil String
7"	23#	8rd	Used	2056'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	400'	None	Obtained formation shut-off		
8 5/8"	1870'	None	Pump & Plug	Heavy	35 sacks
7"	2059'	150	" "	"	

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive or chemical used	Quantity	Date	Depth shot or treated	Depth cleaned out
	Water Frac				
	20% HCL	500 gals.	4-21-59	2059-68'	
	Crude Oil	61,838 gals.	" "	" "	
	Ottawa Sand	90,800 lbs.	" "	" "	

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2066 feet, and from feet to feet

DATES

April 28, 1959 Put to producing April 28, 1959

The production for the first 24 hours was 120 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.
Gravity, °API 36.0°
If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

D. O. Crooks, Driller Kahlis Gray, Driller
E. W. Farr, Driller Sam Porter, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Sand & caliche
10	235	225	Sand & shale
235	314	79	Shale & anhy
314	327	13	Gravel
327	346	19	Gravel & shale
346	358	12	Broken anhy
358	396	38	Red shale
396	481	85	Anhy
481	892	411	Salt
892	1013	121	Anhy
1013	1066	53	Anhy & lime
1066	1073	7	Red shale
1073	1131	58	Anhy
1131	1142	11	Red sand
1142	1196	54	Anhy & shale
1196	1332	136	Anhy
1332	1339	7	Lime
1339	1548	209	Anhy
1548	1551	3	Lime
1551	1620	69	Anhy
1620	1658	38	Anhy & shale
1658	1695	37	Anhy & salt
1695	1828	133	Anhy
1828	1851	23	Red sand
1851	2060	209	Anhy
2060	2066	6	Shale & sand

AT THE END OF CONCRETE DRILLED AND CEMENTED TOOL DISTRICT

FOLD MARK

Exhibit 2-k

Form 9-330

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 12 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 2080 ft. [N.] of S. Line and 659 ft. [W.] of W. Line of Section 13 Elevation 3727'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Date July 10, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling June 3, 1959 Finished drilling June 27, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1365' to 1370' (G) No. 4, from to
No. 2, from 2108' to 2130' No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 352' to 360' No. 3, from to
No. 2, from 1867' to 1872' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Nat'l	402'	Baker		1307'	1327'	Oil String
8 5/8"	24#	8rd	Lone Star	1870'	Baker		1332'	1339'	Water String
7"	23 & 20#	8rd & Lok	Used	2130'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	402'	None	Obtained formation shut-off		
8 5/8"	1872'	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2130'	200	" "	"	

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive or chemical used	Quantity	Date	Depth shot or treated	Depth cleaned out
	Water Frac				
	20% HCL	500 gals.	6-29-59	2105-2134'	
	Crude Oil	59,752 gals.	" "	" "	
	Ottawa Sand	173,000	" "	" "	

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2134 feet, and from feet to feet

DATES

July 10, 1959 Put to producing July 7, 1959

The production for the first 24 hours was 96 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.
Gravity, °API 35.0°
If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

E. W. Farr, Driller Sam Porter, Driller
E. T. Haney, Driller Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	260	260	Red shale
260	360	100	Anhy
360	450	90	Red shale
450	495	45	Anhy
495	915	420	Salt
915	1045	131	Anhy
1045	1085	39	Lime
1085	1224	139	Anhy & shale
1224	1250	26	Lime
1250	1310	60	Anhy
1310	1332	22	Lime
1332	1663	331	Anhy
1663	1668	5	Red shale
1668	1867	199	Anhy
1867	1877	10	Red sand
1877	1942	65	Anhy
1942	1951	9	Anhy & shale
1951	1956	5	Lime
1956	1961	5	Anhy & shale
1961	2090	129	Anhy
2090	2095	5	Sand
2095	2100	5	Sandy lime
2100	2123	23	Sand
2123	2134	11	Sand & anhy

AT THE END OF CONCRETE DRILLED AND CEMENTED TOOL DISTRICT

FOLD MARK

Exhibit 2-l

Form 9-330

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, New Mexico
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 15 Sec. 12 T. 16SR. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of S. Line and 1977 ft. [W.] of W. Line of Section 12 Elevation 3733'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Date August 12, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling July 6, 1959 Finished drilling August 4, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2060' to 2087' No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 330' to 340' No. 3, from to
No. 2, from 1845' to 1865' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Nat'l	416'	Baker		1307'	1327'	Oil String
8 5/8"	24#	8rd	Lone Star	1924'	Baker		1332'	1339'	Water String
7"	20#	8rd	Pittsburg	2057'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	416'	None	Obtained formation shut-off		
8 5/8"	1924'	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2060'	150	" "	"	

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive or chemical used	Quantity	Date	Depth shot or treated	Depth cleaned out
	Water Frac				
	20% HCL	500 gals.	8-5-59	2060-2090'	
	Crude Oil	64,218 gal.	" "	" "	
	Ottawa Sand	205,000 lbs.	" "	" "	

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2090 feet, and from feet to feet

DATES

August 12, 1959 Put to producing August 11, 1959

The production for the first 24 hours was 312 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.
Gravity, °API 35.0°
If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

Truman Jacobs, Driller Charley Powell, Driller
Al Lake, Driller Bill Walker, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	5	5	Sand
5	15	10	Caliche
15	230	215	Sand & shale
230	330	100	Anhy
330	340	10	Sand
340	447	107	Shale & anhy
447	480	33	Anhy
480	975	495	Salt
975	1080	105	Anhy
1080	1115	35	Sand shale
1115	1130	15	Anhy
1130	1295	165	Anhy & shale
1295	1610	315	Anhy
1610	1630	20	Brown sand
1630	1635	5	Anhy
1635	1660	25	Salt
1660	1845	185	Anhy
1845	1865	20	Red sand
1865	1989	124	Anhy
1989	1938	49	Red anhy & shale
1938	1943	5	Lime
1943	1958	15	Anhy
1958	1967	11	Lime
1967	1971	22	Anhy
1971	1976	5	Sand
1976	2000	24	Anhy

AT THE END OF CONCRETE DRILLED AND CEMENTED TOOL DISTRICT

FOLD MARK

N.M.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
2042	2055	13	Sandy lime
2055	2080	25	Red beds
2080	2085	5	Red & white sand

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	DEPTH SET	KIND OF SHOE	CEMENT	AMOUNT PULLED	PACKERS SET—DEPTH—SIZE
8 5/8"	24	New	1000'	Larkin	Common		
5 1/2"	14	New	2085'	Larkin	Common		

MUDDING AND CEMENTING RECORD

SIZE CASING	WHERE SET	NUMBER SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
8 5/8"	1000'	200	Halliburton		
5 1/2"	2085'	100	Halliburton		

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT

RECORD OF DRILL-STEM AND SPECIAL TESTS

DEPTH TESTED	KIND OF TOOL USED	TIME TOOL WAS OPEN	RESULT AFTER 1 HOUR
2085'	Rotary	1 hr.	Oil to surface

TOOLS USED

Rotary tools were used from 0 feet to 2085 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

Put to producing Aug. 24, 1920
The production for the first 24 hours was 200 barrels of fluid of which 100% was oil; % was emulsion; % was water; and % was sediment.
Gravity, Be. 36
If a gas well, cu. ft. per 24 hours
Rock pressure, lbs. per sq. in.

EMPLOYEES

Roy Brenner, Tool Dresser
Chas. Hodgins, Tool Dresser
Geo. Hodgins, Driller
Jas. Hodgins, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	20	20	Soil
20	30	10	Gravel
30	40	10	Sand & water
40	50	10	Gravel
50	60	10	Sand & water
60	70	10	Gravel
70	80	10	Sand & water
80	90	10	Gravel
90	100	10	Sand & water
100	110	10	Gravel
110	120	10	Sand & water
120	130	10	Gravel
130	140	10	Sand & water
140	150	10	Gravel
150	160	10	Sand & water
160	170	10	Gravel
170	180	10	Sand & water
180	190	10	Gravel
190	200	10	Sand & water
200	210	10	Gravel
210	220	10	Sand & water
220	230	10	Gravel
230	240	10	Sand & water
240	250	10	Gravel
250	260	10	Sand & water
260	270	10	Gravel
270	280	10	Sand & water
280	290	10	Gravel
290	300	10	Sand & water
300	310	10	Gravel
310	320	10	Sand & water
320	330	10	Gravel
330	340	10	Sand & water
340	350	10	Gravel
350	360	10	Sand & water
360	370	10	Gravel
370	380	10	Sand & water
380	390	10	Gravel
390	400	10	Sand & water
400	410	10	Gravel
410	420	10	Sand & water
420	430	10	Gravel
430	440	10	Sand & water
440	450	10	Gravel
450	460	10	Sand & water
460	470	10	Gravel
470	480	10	Sand & water
480	490	10	Gravel
490	500	10	Sand & water
500	510	10	Gravel
510	520	10	Sand & water
520	530	10	Gravel
530	540	10	Sand & water
540	550	10	Gravel
550	560	10	Sand & water
560	570	10	Gravel
570	580	10	Sand & water
580	590	10	Gravel
590	600	10	Sand & water
600	610	10	Gravel
610	620	10	Sand & water
620	630	10	Gravel
630	640	10	Sand & water
640	650	10	Gravel
650	660	10	Sand & water
660	670	10	Gravel
670	680	10	Sand & water
680	690	10	Gravel
690	700	10	Sand & water
700	710	10	Gravel
710	720	10	Sand & water
720	730	10	Gravel
730	740	10	Sand & water
740	750	10	Gravel
750	760	10	Sand & water
760	770	10	Gravel
770	780	10	Sand & water
780	790	10	Gravel
790	800	10	Sand & water
800	810	10	Gravel
810	820	10	Sand & water
820	830	10	Gravel
830	840	10	Sand & water
840	850	10	Gravel
850	860	10	Sand & water
860	870	10	Gravel
870	880	10	Sand & water
880	890	10	Gravel
890	900	10	Sand & water
900	910	10	Gravel
910	920	10	Sand & water
920	930	10	Gravel
930	940	10	Sand & water
940	950	10	Gravel
950	960	10	Sand & water
960	970	10	Gravel
970	980	10	Sand & water
980	990	10	Gravel
990	1000	10	Sand & water
1000	1010	10	Gravel
1010	1020	10	Sand & water
1020	1030	10	Gravel
1030	1040	10	Sand & water
1040	1050	10	Gravel
1050	1060	10	Sand & water
1060	1070	10	Gravel
1070	1080	10	Sand & water
1080	1090	10	Gravel
1090	1100	10	Sand & water
1100	1110	10	Gravel
1110	1120	10	Sand & water
1120	1130	10	Gravel
1130	1140	10	Sand & water
1140	1150	10	Gravel
1150	1160	10	Sand & water
1160	1170	10	Gravel
1170	1180	10	Sand & water
1180	1190	10	Gravel
1190	1200	10	Sand & water
1200	1210	10	Gravel
1210	1220	10	Sand & water
1220	1230	10	Gravel
1230	1240	10	Sand & water
1240	1250	10	Gravel
1250	1260	10	Sand & water
1260	1270	10	Gravel
1270	1280	10	Sand & water
1280	1290	10	Gravel
1290	1300	10	Sand & water
1300	1310	10	Gravel
1310	1320	10	Sand & water
1320	1330	10	Gravel
1330	1340	10	Sand & water
1340	1350	10	Gravel
1350	1360	10	Sand & water
1360	1370	10	Gravel
1370	1380	10	Sand & water
1380	1390	10	Gravel
1390	1400	10	Sand & water
1400	1410	10	Gravel
1410	1420	10	Sand & water
1420	1430	10	Gravel
1430	1440	10	Sand & water
1440	1450	10	Gravel
1450	1460	10	Sand & water
1460	1470	10	Gravel
1470	1480	10	Sand & water
1480	1490	10	Gravel
1490	1500	10	Sand & water
1500	1510	10	Gravel
1510	1520	10	Sand & water
1520	1530	10	Gravel
1530	1540	10	Sand & water
1540	1550	10	Gravel
1550	1560	10	Sand & water
1560	1570	10	Gravel
1570	1580	10	Sand & water
1580	1590	10	Gravel
1590	1600	10	Sand & water
1600	1610	10	Gravel
1610	1620	10	Sand & water
1620	1630	10	Gravel
1630	1640	10	Sand & water
1640	1650	10	Gravel
1650	1660	10	Sand & water
1660	1670	10	Gravel
1670	1680	10	Sand & water
1680	1690	10	Gravel
1690	1700	10	Sand & water
1700	1710	10	Gravel
1710	1720	10	Sand & water
1720	1730	10	Gravel
1730	1740	10	Sand & water
1740	1750	10	Gravel
1750	1760	10	Sand & water
1760	1770	10	Gravel
1770	1780	10	Sand & water
1780	1790	10	Gravel
1790	1800	10	Sand & water
1800	1810	10	Gravel
1810	1820	10	Sand & water
1820	1830	10	Gravel
1830	1840	10	Sand & water
1840	1850	10	Gravel
1850	1860	10	Sand & water
1860	1870	10	Gravel
1870	1880	10	Sand & water
1880	1890	10	Gravel
1890	1900	10	Sand & water
1900	1910	10	Gravel
1910	1920	10	Sand & water
1920	1930	10	Gravel
1930	1940	10	Sand & water
1940	1950	10	Gravel
1950	1960	10	Sand & water
1960	1970	10	Gravel
1970	1980	10	Sand & water
1980	1990	10	Gravel
1990	2000	10	Sand & water
2000	2010	10	Gravel
2010	2020	10	Sand & water
2020	2030	10	Gravel
2030	2040	10	Sand & water
2040	2042	2	Gravel
2042	2055	13	Sandy lime
2055	2080	25	Red beds
2080	2085	5	Red & white sand

HISTORY OF OIL OR GAS WELL

Note of the greatest importance is kept, carefully kept, of the work done on the well. Please state in detail the dates of commencing, stopping, and resuming drilling, with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was pulled, state length, size, and number of inches left in the well. If the well has been dynamited, give date, size, and if any casing was left in the hole. If any water was found, state the amount and kind, whether fresh or salt, and at what depth. If any oil or gas was found, state the depth, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	DEPTH SET	KIND OF SHOE	CEMENT	AMOUNT PULLED	PACKERS SET—DEPTH—SIZE
8 5/8"	24	New	1000'	Larkin	Common		
5 1/2"	14	New	2085'	Larkin	Common		

MUDDING AND CEMENTING RECORD

SIZE CASING	WHERE SET	NUMBER SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
8 5/8"	1000'	200	Halliburton		
5 1/2"	2085'	100	Halliburton		

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT

RECORD OF DRILL-STEM AND SPECIAL TESTS

DEPTH TESTED	KIND OF TOOL USED	TIME TOOL WAS OPEN	RESULT AFTER 1 HOUR
2085'	Rotary	1 hr.	Oil to surface

TOOLS USED

Rotary tools were used from 0 feet to 2085 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

Put to producing Aug. 24, 1920
The production for the first 24 hours was 200 barrels of fluid of which 100% was oil; % was emulsion; % was water; and % was sediment.
Gravity, Be. 36
If a gas well, cu. ft. per 24 hours
Rock pressure, lbs. per sq. in.

EMPLOYEES

Roy Brenner, Tool Dresser
Chas. Hodgins, Tool Dresser
Geo. Hodgins, Driller
Jas. Hodgins, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	20	20	Soil
20	30	10	Gravel
30	40	10	Sand & water
40	50	10	Gravel
50	60	10	Sand & water
60	70	10	Gravel
70	80	10	Sand & water
80	90	10	Gravel
90	100	10	Sand & water
100	110	10	Gravel
110	120	10	Sand & water
120	130	10	Gravel
130	140	10	Sand & water
140	150	10	Gravel
150	160	10	Sand & water
160	170	10	Gravel
170	180	10	Sand & water
180	190	10	Gravel
190	200	10	Sand & water
200	210	10	Gravel
210	220	10	Sand & water
220	230	10	Gravel
230	240	10	Sand & water
240	250	10	Gravel
250	260	10	Sand & water
260	270	10	Gravel
270	280	10	Sand & water
280	290	10	Gravel
290	300	10	Sand & water
300	310	10	Gravel
310	320	10	Sand & water
320	330	10	Gravel
330	340	10	Sand & water
340	350	10	Gravel
350	360	10	Sand & water
360	370	10	Gravel
370	380	10	Sand & water
380	390	10	Gravel
390	400	10	Sand & water
400	410	10	Gravel
410	420	10	Sand & water
420	430	10	Gravel
430	440	10	Sand & water
440	450	10	Gravel
450	460	10	Sand & water
460	470	10	Gravel
470	480	10	Sand & water
480	490	10	Gravel
490	500	10	Sand & water
500	510	10	Gravel
510	520	10	Sand & water
520	530	10	Gravel
530	540	10	Sand & water
540	550	10	Gravel
550	560	10	Sand & water
560	570	10	Gravel
570	580	10	Sand & water
580	590	10	Gravel
590	600	10	Sand & water
600	610	10	Gravel
610	620	10	Sand & water
620	630	10	Gravel
630	640	10	Sand & water
640	650	10	Gravel
650	660	10	Sand & water
660	670	10	Gravel
670	680	10	Sand & water
680	690	10	Gravel
690	700	10	Sand & water
700	710	10	Gravel
710	720	10	Sand & water
720	730	10	Gravel
730	740	10	Sand & water
740	750	10	Gravel
750	760	10	Sand & water
760	770	10	Gravel
770	780	10	Sand & water
780	790	10	Gravel
790	800	10	Sand & water
800	810	10	Gravel
810	820	10	Sand & water
820	830	10	Gravel
830	840	10	Sand & water
840	850	10	Gravel
850	860	10	Sand & water
860	870	10	Gravel
870	880	10	Sand & water
880	890	10	Gravel
890	900	10	Sand & water
900	910	10	Gravel
910	920	10	Sand & water
920	930	10	Gravel
930	940	10	Sand & water
940	950	10	Gravel
950	960	10	Sand & water
960	970	10	Gravel
970	980	10	Sand & water
980	990	10	Gravel
990	1000	10	Sand & water
1000	1010	10	Gravel
1010	1020	10	Sand & water
1020	1030	10	Gravel
1030	1040	10	Sand & water
1040	1050	10	Gravel
1050	1060	10	Sand & water
1060	1070	10	Gravel
1070	1080	10	Sand & water
1080	1090	10	Gravel
1090	1100	10	Sand & water
1100	1110	10	Gravel
1110	1120	10	Sand & water
1120	1130	10	Gravel
1130	1140	10	Sand & water
1140	1150	10	Gravel
1150	1160	10	Sand & water
1160	1170	10	Gravel
1170	1180	10	Sand & water
1180	1190	10	Gravel
1190	1200	10	Sand & water
1200	1210	10	Gravel
1210	1220	10	Sand & water
1220	1230	10	Gravel
1230	1240	10	Sand & water
1240	1250	10	Gravel
1250	1260	10	Sand & water
1260	1270	10	Gravel
1270	1280	10	Sand & water
1280	1290	10	Gravel
1290	1300	10	Sand & water
1300	1310	10	Gravel
1310	1320	10	Sand & water
1320	1330	10	Gravel
1330	1340	10	Sand & water
1340	1350	10	Gravel
1350	1360	10	Sand & water
1360	1370	10	Gravel
1370	1380	10	Sand & water
1380	1390	10	Gravel
1390	1400	10	Sand & water
1400	1410	10	Gravel
1410	1420	10	Sand & water
1420	1430	10	Gravel
1430	1440	10	Sand & water
1440	1450	10	Gravel
1450	1460	10	Sand & water
1460	1470	10	Gravel
1470	1480	10	Sand & water
1480	1490	10	Gravel
1490	1500	10	Sand & water
1500	1510	10	Gravel
1510	1520	10	Sand & water
1520	1530	10	Gravel
1530	1540	10	Sand & water
1540	1550	10	Gravel
1550	1560	10	Sand & water
1560	1570	10	Gravel
1570	1580	10	Sand & water
1580	1590	10	Gravel
1590	1600	10	Sand & water
1600	1610	10	Gravel
1610	1620	10	Sand & water
1620	1630	10	Gravel
1630	1640	10	Sand & water
1640	1650	10	Gravel
1650	1660	10	Sand & water
1660	1670	10	Gravel
1670	1680	10	Sand & water
1680	1690	10	Gravel
1690	1700	10	Sand & water
1700	1710	10	Gravel
1710	1720	10	Sand & water
1720	1730	10	Gravel
1730	1740	10	Sand & water
1740	1750	10	Gravel
1750	1760	10	Sand & water
1760	1770	10	Gravel
1770	1780	10	Sand & water
1780	1790	10	Gravel
1790	1800	10	Sand & water
1800	1810	10	Gravel
1810	1820	10	Sand & water
1820	1830	10	Gravel
1830	1840	10	Sand & water
1840	1850	10	Gravel
1850	1860	10	Sand & water
1860	1870	10	Gravel
1870	1880	10	Sand & water
1880	1890	10	Gravel
1890	1900	10	Sand & water
1900	1910	10	Gravel
1910	1920	10	Sand & water
1920	1930	10	Gravel
1930	1940	10	Sand & water
1940	1950	10	Gravel
1950	1960	10	Sand & water
1960	1970	10	Gravel
1970	1980	10	Sand & water
1980	1990	10	Gravel
1990	2000	10	Sand & water
2000	2010	10	Gravel
2010	2020	10	Sand & water
2020	2030	10	Gravel
2030	2040	10	Sand & water
2040	2042	2	Gravel
2042	2055	13	Sandy lime
2055	2080	25	Red beds
2080	2085	5	Red & white sand

HISTORY OF OIL OR GAS WELL

Note of the greatest importance is kept, carefully kept, of the work done on the well. Please state in detail the dates of commencing, stopping, and resuming drilling, with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was pulled, state length, size, and number of inches left in the well. If the well has been dynamited, give date, size, and if any casing was left in the hole. If any water was found, state the amount and kind, whether fresh or salt, and at what depth. If any oil or gas was found, state the depth, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	DEPTH SET	KIND OF SHOE	CEMENT	AMOUNT PULLED	PACKERS SET—DEPTH—SIZE
8 5/8"	24	New	1000'	Larkin	Common		
5 1/2"	14	New	2085'	Larkin	Common		

MUDDING AND CEMENTING RECORD

SIZE CASING	WHERE SET	NUMBER SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
8 5/8"	1000'	200	Halliburton		
5 1/2"	2085'	100	Halliburton		

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT

RECORD OF DRILL-STEM AND SPECIAL TESTS

DEPTH TESTED	KIND OF TOOL USED	TIME TOOL WAS OPEN	RESULT AFTER 1 HOUR
2085'	Rotary	1 hr.	Oil to surface

TOOLS USED

Rotary tools were used from 0 feet to 2085 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

Put to producing Aug. 24, 1920
The production for the first 24 hours was 200 barrels of fluid of which 100% was oil; % was emulsion; % was water; and % was sediment.
Gravity, Be. 36
If a gas well, cu. ft. per 24 hours
Rock pressure, lbs. per sq. in.

EMPLOYEES

Roy Brenner, Tool Dresser
Chas. Hodgins, Tool Dresser
Geo. Hodgins, Driller
Jas. Hodgins, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	20	20	Soil
20	30	10	Gravel
30	40	10	Sand & water
40	50	10	Gravel
50	60	10	Sand & water
60	70	10	Gravel
70	80	10	Sand & water
80	90	10	Gravel
90	100	10	Sand & water
100	110	10	Gravel
110	120	10	Sand & water
120	130	10	Gravel
130	140	10	Sand & water
140	150	10	Gravel
150	160	10	Sand & water
160	170	10	Gravel
170	180	10	Sand & water
180	190	10	Gravel
190	200	10	Sand & water
200	210	10	Gravel
210	220	10	Sand & water
220	230	10	Gravel
230	240	10	Sand & water
240	250	10	Gravel
250	260	10	Sand & water
260	270	10	Gravel
270	280	10	Sand & water
280	290	10	Gravel
290	300	10	Sand & water
300	310	10	Gravel
310	320	10	Sand & water
320	330	10	Gravel
330	340	10	Sand & water
340	350	10	Gravel
350	360	10	Sand & water
360	370	10	Gravel
370	380	10	Sand & water
380	390	10	Gravel
390	400	10	Sand & water
400	410	10	Gravel
410	420	10	Sand & water
420	430	10	Gravel
430	440	10	Sand & water
440	450	10	Gravel
450	460	10	Sand & water
460	470	10	Gravel
470	480	10	Sand & water
480	490	10	Gravel
490	500	10	Sand & water
500	510	10	Gravel
510	520	10	Sand & water
520	530	10	Gravel
530	540	10	Sand & water
540	550	10	Gravel
550	560	10	Sand & water
560	570	10	Gravel
570	580	10	Sand & water
580	590	10	Gravel
590	600	10	Sand & water
600	610	10	Gravel
610	620	10	Sand & water
620	630	10	Gravel
630	640	10	Sand & water
640	650	10	Gravel
650	660	10	Sand & water
660	670	10	Gravel
670	680	10	Sand & water
680	690	10	Gravel
690	700	10	Sand & water
700	710	10	Gravel
710	720	10	Sand & water
720	730	10	Gravel
730	740	10	Sand & water
740	750	10	Gravel
750	760	10	Sand & water
760	770	10	Gravel
770	780	10	Sand & water
780	790	10	Gravel
790	800	10	Sand & water
800	810	10	Gravel
810	820	10	Sand & water
820	830	10	Gravel
830	840	10	Sand & water
840	850	10	Gravel
850	860	10	Sand & water
860	870	10	Gravel
870	880	10	Sand & water
880	890	10	Gravel
890	900	10	Sand & water
900	910	10	Gravel
910	920	10	Sand & water
920	930	10	Gravel
930	940	10	Sand & water
940	950	10	Gravel
950	960	10	Sand & water
960	970	10	Gravel
970	980	10	Sand & water
980	990	10	Gravel
990	1000	10	Sand & water
1000	1010	10	Gravel
1010	1020	10	Sand & water
1020	1030	10	Gravel
1030	1040	10	Sand & water
1040	1050	10	Gravel
1050	1060	10	Sand & water
1060	1070	10	Gravel
1070	1080	10	Sand & water
1080	1090	10	Gravel
1090	1100	10	Sand & water
1100	1110	10	Gravel
1110	1120	10	Sand & water
1120	1130	10	Gravel
1130	1140	10	Sand & water
1140	1150	10	Gravel
1150	1160	10	Sand & water
1160	1170	10	Gravel
1170	1180	10	Sand & water
1180	1190	10	Gravel
1190	1200	10	Sand & water
1200	1210	10	Gravel
1210	1220	10	Sand & water
1220	1230	10	Gravel
1230	1240	10	Sand & water
1240	1250	10	Gravel
1250	1260	10	Sand & water
1260	1270	10	Gravel
1270	1280	10	Sand & water
1280	1290	10	Gravel
1290	1300	10	Sand & water
1300	1310	10	Gravel
1310	1320	10	Sand & water
1320	1330	10	Gravel
1330	1340	10	Sand & water
1340	1350	10	Gravel
1350	1360	10	Sand & water
1360	1370	10	Gravel
1370	1380	10	Sand & water
1380	1390	10	Gravel
1390	1400	10	Sand & water
1400	1410	10	Gravel
1410	1420	10	Sand & water
1420	1430	10	Gravel
1430	1440	10	Sand & water
1440	1450	10	Gravel
1450	1460	10	Sand & water
1460	1470	10	Gravel
1470	1480	10	Sand & water
1480	1490	10	Gravel
1490	1500	10	Sand & water
1500	1510	10	Gravel
1510	1520	10	Sand & water
1520	1530	10	Gravel
1530	1540	10	Sand & water
1540	1550	10	Gravel
1550	1560	10	Sand & water
1560	1570	10	Gravel
1570	1580	10	Sand & water
1580	1590	10	Gravel
1590	1600	10	Sand & water
1600	1610	10	Gravel
1610	1620	10	Sand & water
1620	1630	10	Gravel
1630	1640	10	Sand & water
1640	1650	10	Gravel
1650	1660	10	Sand & water
1660	1670	10	Gravel
1670	1680	10	Sand & water
1680	1690	10	Gravel
1690	1700	10	Sand & water
1700	1710	10	Gravel
1710	1720	10	Sand & water
1720	1730	10	Gravel
1730	1740	10	Sand & water
1740	1750	10	Gravel
1750	1760	10	Sand & water
1760	1770	10	Gravel
1770	1780	10	Sand & water
1780	1790	10	Gravel
1790	1800	10	Sand & water
1800	1810	10	Gravel
1810	1820	10	Sand & water
1820	1830	10	Gravel
1830	1840	10	Sand & water
1840	1850	10	Gravel
1850	1860	10	Sand & water
1860	1870	10	Gravel
1870	1880	10	Sand & water
1880	1890	10	Gravel
1890	1900	10	Sand & water
1900	1910	10	Gravel
1910	1920	10	Sand & water
1920	1930	10	Gravel
1930	1940	10	Sand & water
1940	1950	10	Gravel
1950	1960	10	Sand & water
1960	1970	10	Gravel
1970	1980	10	Sand & water
1980	1990	10	Gravel
1990	2000	10	Sand & water
2000	2010	10	Gravel
2010	2020	10	Sand & water
2020	2030	10	Gravel
2030	2040	10	Sand & water
2040	2042	2	Gravel
2042	2055	13	Sandy lime
2055	2080	25	Red beds
2080	2085	5	Red & white sand

HISTORY OF OIL OR GAS WELL

Note of the greatest

Exhibit 2-m

Form 9-330

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Lovo Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 22 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of S. Line and 660 ft. [W.] of W. Line of Section 14 Elevation 3721'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....

Date November 3, 1959 Title Dist. Supt.

The summary on this page is for the condition of the well at above date.

Commenced drilling September 15, 19 59. Finished drilling October 7, 19 59.

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1992' to 2020' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 297' to 305' No. 3, from ..... to .....
No. 2, from 1770' to 1782' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Nat'l	324'	Regular				Surf. String
7"	20 & 23#	8rd	Used	2000'	Guide	1991'			Water String
5 1/2"	14#	8rd	Nat'l	1990'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	1151	None	Obtained formation shut-off		
7"	1807'	None	Pump & Plug	Heavy	30 sacks
5 1/2"	1991'	150 (Around Shoe) 50 (990-899')	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION (SHOOTING) RECORD

Size shot	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Meter's			1992'	
		20% NG1	500 gals.	10-8-59	1991-2022'	
		Orada 011	80,362 gals.	"	"	"
		Ottawa Sand	240,000 lbs.	"	"	"

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2022' feet, and from ..... feet to ..... feet

DATES

November 3, 19 59 Put to producing October 25, 19 59

The production for the first 24 hours was 61 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, Bé. 41.1 API 39°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

D. C. Crooks, Driller J. E. Wilcox, Driller
L. F. Jennings, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	210	210	Red shale & sand
210	287	77	Red shale
287	315	28	Anhy
315	380	65	Shale & shells
380	420	40	Red shale
420	825	405	Salt
825	860	35	Anhy
860	880	20	Red shale
880	1160	280	Anhy & red shale
1160	1280	120	Anhy
1280	1305	25	Lime
1305	1555	250	Anhy
1555	1568	13	Sand & shale
1568	1770	202	Anhy
1770	1787	17	Red sand
1787	1810	23	Anhy
1810	1807	-3	SLH
1807	1938	131	Anhy
1938	1987	49	Anhy & shale
1987	1992	5	Sandy lime
1992	2022	30	Sand

AT THE END OF COMPLETE DRILLING
LOG ALL FILLED WITH WATER
MUD, ACID, AND CEMENT

FORMATION RECORD—Continued

Exhibit 2-n

Form 9-330

Budget Bureau No. 42-R355.5
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Lovo Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 23 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of S. Line and 2980 ft. [W.] of W. Line of Section 14 Elevation 3704'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....

Date December 9, 1959 Title R. V. Heard District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling October 20, 19 59. Finished drilling November 16, 19 59.

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2025' to 2041' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 290' to 299' No. 3, from ..... to .....
No. 2, from 1792' to 1815' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Nat'l	324'	Regular				Surf. String
8 5/8"	24#	8rd	Used	1990'	Guide				Water String
5 1/2"	14#	8rd	Used	2022'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	325'	None	Obtained formation shut-off		
8-5/8"	1830'	None	Pump & Plug	Heavy	15 sacks Aquagel
5½"	2024'	150	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION (SHOOTING) RECORD

Size shot	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Meter's			1792'	
		20% NG1	500 gals.	12-18-59	2024-2046	
		Orada 011	69,358 gals.	"	"	"
		Ottawa Sand	240,000 lbs.	"	"	"

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2046 feet, and from ..... feet to ..... feet

DATES

December 9, 19 59 Put to producing December 9, 19 59

The production for the first 24 hours was 40 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, Bé. 41.1 API 39.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

D. C. Crooks, Driller G. H. Harris, Driller
J. C. Dennis, Driller J. E. Wilcox, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Caliche
10	250	240	Red sand and shale
250	260	10	Gravel
260	325	65	Anhy
325	372	47	Red shale
372	382	10	Anhy
382	410	28	Red shale
410	450	40	Anhy and shale
450	855	405	Salt
855	900	45	Anhy and shale
900	974	74	Anhy
974	999	25	Anhy and lime
999	1025	26	Anhy
1025	1152	127	Anhy and red shale
1152	1415	263	Anhy
1415	1420	5	Anhy and shale
1420	1438	18	Lime
1438	1604	166	Anhy
1604	1625	21	Red sandy shale
1625	1792	167	Anhy
1792	1815	23	Red shale
1815	1835	20	Anhy
1835	1843	8	Lime
1843	1865	22	Anhy
1865	1839	-26	SLH
1839	1899	51	Anhy

AT THE END OF COMPLETE DRILLING
LOG ALL FILLED WITH WATER
MUD, ACID, AND CEMENT

FORMATION RECORD—Continued

Exhibit 2-o

Form approved.
Budget Bureau No. 42-R355.5.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Lovo Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 20 Sec. 12 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of S. Line and 990 ft. [W.] of W. Line of Section 12 Elevation 3724'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....

Date January 14, 1960 Title R. V. Heard Supt. Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling November 23, 19 59. Finished drilling December 19, 19 59.

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2103' to 2137' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 335' to 341' No. 3, from ..... to .....
No. 2, from 1867' to 1885' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Nat'l	324'	Regular				Surf. String
8 5/8"	24#	8rd	Used	2002'	Guide	1995'			Water String
7"	23#	8rd	Used	2097'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	415'	None	Obtained formation shut-off		
8-5/8"	2002'	None	"	"	"
7"	2096'	150	Pump & Plug	Heavy	15 sacks Gel

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION (SHOOTING) RECORD

Size shot	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Meter's			1867'	
		20% NG1	500 gals.	12-20-59	2098-2114	
		Orada 011	69,359 gals.	"	"	"
		Ottawa Sand	240,000 lbs.	"	"	"

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2116 feet, and from ..... feet to ..... feet

DATES

January 14, 19 60 Put to producing December 25, 19 59

The production for the first 24 hours was 558 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, Bé. 35.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

R. C. Carrey, Driller J. C. Crow, Driller
D. C. Crooks, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Sand and red shale
15	330	315	Red shale
330	333	3	Crevice
333	341	6	Sand
341	390	49	Anhy
390	410	20	Red shale
410	415	5	Anhy
415	420	5	Anhy and shale
420	440	20	Red shale
440	490	50	Anhy and shale
490	945	455	Salt
945	995	50	Anhy and shale
995	1065	70	Anhy
1065	1240	175	Anhy and shale
1240	1660	420	Anhy
1660	1695	35	Anhy and red shale
1695	1867	172	Anhy
1867	1885	18	Red sand
1885	1927	32	Anhy
1927	1938	11	Lime
1938	1935	-3	SLH
1935	1939	4	Anhy & lime
1939	2038	99	SLH
2038	2096	58	Anhy
2096	2103	7	Anhy and shale
2103	2114	11	Sandy lime
			Sand

FORMATION RECORD—Continued

W.N.M.C.P. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
1905	1916	11	Shale
1916	1945	29	Alma and red shale
1945	2005	60	Alma
2005	2025	20	Alma and shale
2025	2046	21	Alma and sandy lime
2046	2100	54	Shale
2100	2130	30	Shale, sandy
2130	2150	20	Shale
2150	2158	8	Lime
2158	2170	12	Shale, sandy
2170	2185	15	Shale, red
2185	2195	10	Lime
2195	2200	5	Shale, sandy
2200	2210	10	Sand, gray, fine
2210	2220	10	Shale
2220	2230	10	Shale, sandy
2230	2240	10	Sand, gray, fine
2240	2250	10	Shale
2250	2260	10	Shale, sandy
2260	2270	10	Sand, gray, fine
2270	2280	10	Shale
2280	2290	10	Shale, sandy

Exhibit 2-p

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 067610-A
LEASE OR PERMIT TO PROSPECT Bosworth

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Bosworth Field High Lonesome State New Mexico
Well No. 4 Sec. 34 T. 16S R. 28E Meridian N.M.P.M. County Eddy
Location 990 ft. {N.} of S. Line and 990 ft. {E.W.} of E. Line of Section 34 Elevation 3721'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....
Date February 8, 1960 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling December 24, 19 59 Finished drilling January 14, 19 60

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1365' to 1380' (G) No. 4, from ..... to .....
No. 2, from 2060' to 2076' No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 455' to 460' No. 3, from ..... to .....
No. 2, from ..... to ..... No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	341'	Regular	341'			Surface String
8 5/8"	24#	8rd	Used	1201'	Regular	1201'			Water String
7"	20 & 23#	8rd	Used	2071'	Regular	1873'			Water String
5 1/2"	14#	8rd	New	2076'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	341'	None	Obtained formation shut-off		
8 5/8"	1201'	None	Obtained formation shut-off		
7"	1873'	None	Pump & Plug	Heavy	15 sacks Aquagel
5 1/2"	2075'	150 + 50	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
	Mat. Acid	500 gals.	1-30-60	2050-2070'	
	Crude Oil	53,034 "	"	"	"
	Ottawa Sand	285,000 lbs.	"	"	"

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2079 feet, and from ..... feet to ..... feet

DATES

February 8, 19 60 Put to producing January 26, 19 60

The production for the first 24 hours was 92 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

Gravity, Bé. 35.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

R. C. Crow Driller G. M. Harris Driller
E. T. Reney Driller J. E. Wilcox Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Caliche
15	280	265	Red shale
280	335	55	Red shale & anhy
335	375	40	Red shale
375	377	2	Anhy
377	381	4	Salt
381	395	14	Red shale
395	405	10	Anhy
405	440	35	Red shale
440	460	20	Red shale & anhy
460	688	428	Salt
688	925	37	Anhy
925	938	13	Shale & anhy
938	1062	124	Anhy
1062	1100	38	Red shale
1100	1187	87	Red shale & anhy
1187	1250	63	Anhy
1250	1305	55	Anhy & shale
1305	1576	271	Anhy
1576	1750	174	Anhy & shale
1750	1825	75	Anhy
1825	1949	24	Red sand &
1849	1900	51	Anhy
1900	1913	13	Anhy & shale
1913	1926	13	Anhy
1926	2076	150	Anhy & shale

(OVER)

Exhibit 2-q

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company General American Oil Co. of Texas Address Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Wildcat State New Mexico
Well No. 1 Sec. 34 T. 16-S R. 28-E Meridian N.M.P.M. County Eddy
Location 665 ft. {N.} of N. Line and 660 ft. {E.W.} of E. Line of Section 34 Elevation 3720'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....
Date Sept. 2, 1958 Title Dist. Supt.

The summary on this page is for the condition of the well at above date.

Commenced drilling Aug. 5, 19 58 Finished drilling Aug. 23, 19 58

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2353' to 2369' No. 4, from ..... to .....
No. 2, from 1903' to 1909' (G) No. 5, from ..... to .....
No. 3, from 2057' to 2080' No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 518' to 525' No. 3, from ..... to .....
No. 2, from 1855' to 1868' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	341'	Regular	341'			Surface String
8 5/8"	24#	8rd	Used	1201'	Regular	1201'			Water String
7"	20 & 23#	8rd	Used	2071'	Regular	1873'			Water String
5 1/2"	14#	8rd	New	2080'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	300'	None	Obtained formation shut-off		
8 5/8"	1853'	None	Pump & Plug	Heavy	30 sacks Aquagel
7"	2061'	150	Pump & Plug		

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
	Mat. Acid	500 gals.		Treated	
	Crude Oil	96,960 gals.	9-27-58	2051-2081'	
	Ottawa Sand	51,000 lbs.			

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2084 feet, and from ..... feet to ..... feet

DATES

Sept. 2, 19 58 Put to producing Sept. 1, 19 58

The production for the first 24 hours was 300 barrels of fluid of which 100 % was oil; ..... % emulsion; ..... % water; and ..... % sediment.

Gravity, °Bé. .....

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

M. E. Crabb Driller J. C. Crow Driller
D. C. Crooks Driller Ben Porter Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	110	110	Red shale & sand
110	318	208	Red shale
318	350	32	Anhy
350	370	20	Red shale
370	378	8	Anhy
378	380	2	Salt
380	473	93	Anhy & red shale
473	890	417	Salt
890	1180	290	Anhy
1180	1305	125	Anhy & shale
1305	1353	48	Anhy
1353	1359	6	Brown sandy shale
1359	1510	151	Anhy
1510	1540	30	Lime
1540	1590	50	Anhy
1590	1733	143	Anhy & red shale
1733	1835	102	Anhy
1835	1848	13	Red sand
1848	1886	38	Anhy
1886	1909	23	Anhy & shale
1909	1915	6	Anhy
1915	1927	12	Brown lime
1927	1938	11	Anhy & red shale
1938	2005	44	Anhy
2005	2007	2	Brown shale
2007	2048	41	Anhy
2048	2067	19	Anhy
2067	2084	17	Anhy & sand

Exhibit 2-r

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 5 Sec. 34 T. 16S R. 28E Meridian N.M.P.M. County Eddy
Location 1980 ft. {N.} of N. Line and 1980 ft. {E.W.} of E. Line of Section 34 Elevation 3721'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....
Date February 16, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling January 13, 19 59 Finished drilling February 6, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2036' to 2076' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 345' to 352' No. 3, from ..... to .....
No. 2, from 1838' to 1849' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	343'	Regular	343'			Surface String
8 5/8"	24#	8rd	Used	1838'	Regular	1838'			Water String
7"	23#	8rd	Used	2049'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	345	None	Obtained formation shut-off		
8 5/8"	1840	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2052	150	"	"	35 "

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING OR CHEMICAL TREATMENT RECORD

Size shell used	Explosive or chemical used	Quantity	Date	Depth shot	Depth cleaned out
	Mat. Acid	500 gals.		Treated	
	Crude Oil	61,656 gals.	2-7-59	2052-2078'	
	Ottawa Sand	93,600 lbs.			

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2076 feet, and from ..... feet to ..... feet

DATES

February 16, 19 59 Put to producing February 15, 19 59

The production for the first 24 hours was 257 barrels of fluid of which 100 % was oil; 0 % emulsion; ..... % water; and ..... % sediment.

Gravity, °Bé. 36.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

D. C. Crooks Driller Ben Porter Driller
Hollis Gray Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Caliche
10	225	215	Red shale
225	345	120	Anhy
345	352	7	Sand
352	387	35	Red shale
387	450	63	Anhy
450	470	20	Red shale
470	495	25	Anhy
495	925	430	Salt
925	935	10	Anhy
935	1065	130	Anhy
1065	1197	132	Anhy & shale
1197	1224	27	Lime
1224	1619	395	Anhy
1619	1630	11	Red sand
1630	1838	190	Anhy
1838	1848	8	Red shale
1848	1849	21	Red sand
1849	1878	29	Anhy
1878	1880	2	Salt
1880	1999	119	Anhy
1999	2003	4	Red shale
2003	2045	43	Anhy & shale
2045	2050	5	Anhy & sand
2050	2076	26	Sand
2076	2078	2	Anhy & sand

U.S.G.S. MICRORECORDS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
2015	2038	36	clay
2038	2076	38	Sand
2076	2079	3	Sand & anhy

Exhibit 3-B

FORMATION RECORD—Continued

LOG OF OIL OR GAS WELL
GEOLOGICAL SURVEY
DEPARTMENT OF THE INTERIOR
UNITED STATES

Exhibit 3-C

FORMATION RECORD—Continued

LOG OF OIL OR GAS WELL
GEOLOGICAL SURVEY
DEPARTMENT OF THE INTERIOR
UNITED STATES

Exhibit 3-D

U.S.N.G.F. MICROGRAPHICS
BEST AVAILABLE COPY

Exhibit 2-s

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 7 Sec. 33 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 3280 ft. [N] of N. Line and 660 ft. [E] of W. Line of Section 33 Elevation 3720'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed H. V. Heard
Date April 7, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling March 9, 1959 Finished drilling April 4, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2067' to 2106' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 364' to 369' No. 3, from ... to ...
No. 2, from 1818' to 1858' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Used	417'	Regular	439'			Salt Strata
8 5/8"	24#	8rd	Used	1910'	Baylor	1911'			Water Strata
7"	23#	8rd	Used	2081'	Guide	2084'			Prod. Strata

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	420	None	Obtained formation shut-off		
8 5/8"	1910	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2084	150	Pump & Plug		

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2119 feet, and from ... feet to ... feet

DATES

April 7, 1959 Put to producing April 4, 19 59

The production for the first 24 hours was 296 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, API 36.0°

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

R. S. Crabb, Driller ... K. J. Parish, Driller
J. G. Crow, Driller ...

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	312	312	Red shale
312	330	18	Shale & anhy
330	364	34	Anhy
364	369	5	Sand
369	417	48	Red shale
417	420	3	Anhy
420	450	30	Gyp & red rock
450	463	13	Red shale
463	477	14	Anhy & shale
477	915	438	" "
915	1095	180	Anhy
1095	1235	140	Anhy & shale
1235	1580	345	Anhy
1620	1645	25	Anhy & shale
1645	1805	160	Anhy & salt
1805	1848	43	Anhy
1848	1858	10	Red sand
1858	2030	172	Anhy
2030	2050	20	Anhy & shale
2050	2065	15	Anhy
2065	2080	15	Anhy & sand
2080	2119	39	Gray sand

AT THE TIME OF COMPLETING DRILLERS LOG, ALL CASING STRINGS WERE STANDING.

FORM 9-330

FORMATION RECORD—Continued

Exhibit 2-t

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 9 Sec. 33 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N] of N. Line and 2277 ft. [E] of W. Line of Section 33 Elevation 3733'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed H. V. Heard
Date June 8, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling April 10, 19 59 Finished drilling May 6, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2073' to 2095' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 368' to 377' No. 3, from ... to ...
No. 2, from 1837' to 1850' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Used	434'	Regular	439'			Salt Strata
8 5/8"	24#	8rd	Used	1922'	Baylor	1923'			Water Strata
7"	23#	8rd	Used	2064'	Guide				Prod. Strata

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	435'	None	Obtained formation shut-off		
8 5/8"	1920'	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2064'	150	Pump & Plug		

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2095 feet, and from ... feet to ... feet

DATES

June 2 19 59 Put to producing May 6 19 59

The production for the first 24 hours was 1818 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, API 35.5°

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

M. H. Crabb, Driller ... K. J. Parish, Driller
J. G. Crow, Driller ...

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Caliche
15	290	275	Shale
290	300	10	Gyp
300	310	10	Shale
310	377	67	Anhy
377	450	73	Shale
450	465	15	Anhy
465	905	440	Salt
905	1070	165	Anhy
1070	1205	135	Anhy & shale
1205	1225	20	Anhy & lime
1225	1337	112	Anhy
1337	1345	8	Anhy & lime
1345	1837	492	Anhy
1837	1850	13	Red sand
1850	1929	79	Anhy
1929	1940	11	Anhy & shale
1940	2011	71	Anhy
2011	2023	12	Anhy
2023	2036	13	Anhy
2036	2065	29	SLH
2065	2068	3	Anhy
2068	2095	27	Sandy lime
			Sand

AT THE TIME OF COMPLETING DRILLERS LOG, ALL CASING STRINGS WERE STANDING.

FORM 9-330

FORMATION RECORD—Continued

Exhibit 2-u

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 13 Sec. 34 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N] of N. Line and 660 ft. [E] of W. Line of Section 34 Elevation 3726'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed H. V. Heard
Date August 5, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling June 8, 19 59 Finished drilling July 6, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1993' to 2030' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 1766' to 1780' No. 3, from ... to ...
No. 2, from ... to ... No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Used	434'	Regular	439'			Salt Strata
8 5/8"	24#	8rd	Used	1931'	Baylor	1932'			Water Strata
7"	23#	8rd	Used	2030'	Guide				Prod. Strata

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	460'	None	Obtained formation shut-off		
8 5/8"	1931	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	1993	150	" "	"	" "

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Hot-shot		Dynamite	500 gals.	7-9-59	1993-2023'	Unable
2nd-8qt.		Crude-Oil	60,000 gals.	" "	" "	
		Ottawa Sand	150,000 lbs.	" "	" "	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2023 feet, and from ... feet to ... feet

DATES

August 6 19 59 Put to producing July 13 19 59

The production for the first 24 hours was 440 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, API 35.0°

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

D. C. Crocker, Driller ... J. E. Wilcox, Driller
L. F. Jennings, Driller ...

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	1	Caliche
15	250	235	Sand & shale
250	290	40	Anhy
290	330	40	Shale
330	405	75	Anhy
405	840	435	Salt
840	1000	160	Anhy
1000	1060	60	Red shale
1060	1159	119	Anhy & shale
1159	1280	121	Anhy
1280	1302	22	Lime
1302	1630	328	Anhy
1630	1636	6	Anhy & shale
1636	1766	130	Anhy
1766	1780	14	Red sand
1780	1931	151	Anhy
1931	1940	9	Anhy & shale
1940	1993	53	Anhy
1993	2020	27	Sand
2020	2023	3	Sand & anhy

AT THE TIME OF COMPLETING DRILLERS LOG, ALL CASING STRINGS WERE STANDING.

FORM 9-330

FORMATION RECORD—Continued

N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Lessee's monthly report of operations

State ..... County .....
Field ..... Lease .....
The following is a correct report of operations and production (including drilling and producing wells) for the month of ..... 19..
Agent's address .....
Company .....
Signed .....
Phone .....
Agent's title .....

Sec. and ¼ ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (If none, so state)	Remarks

NOTE.—There were ..... runs or sales of oil; ..... M cu. ft. of gas sold; ..... runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in the duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

FOOTAGE MUST CONNECT

EXHIBIT 5-B

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Lessee's monthly report of operations

State ..... County .....
Field ..... Lease .....
The following is a correct report of operations and production (including drilling and producing wells) for the month of ..... 19..
Agent's address .....
Company .....
Signed .....
Phone .....
Agent's title .....

Sec. and ¼ ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (If none, so state)	Remarks

NOTE.—There were ..... runs or sales of oil; ..... M cu. ft. of gas sold; ..... runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in the duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

FOOTAGE MUST CONNECT

EXHIBIT 5-C

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Lessee's monthly report of operations

State ..... County .....
Field ..... Lease .....
The following is a correct report of operations and production (including drilling and producing wells) for the month of ..... 19..
Agent's address .....
Company .....
Signed .....
Phone .....
Agent's title .....

Sec. and ¼ ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (If none, so state)	Remarks

NOTE.—There were ..... runs or sales of oil; ..... M cu. ft. of gas sold; ..... runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in the duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

FOOTAGE MUST CONNECT

EXHIBIT 5-D

U.S.G.S.—M.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

Exhibit 2-v

Form 9-330

Budget Bureau No. 42-R355.5.
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 18 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. {N./S.} of S. Line and 1980 ft. {E./W.} of M. Line of Section 14 Elevation 3713'
(Derrick floor relative to sea level or ground)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. V. Reed

Date September 8, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilled August 6, 19 59 Finished drilling August 29, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1302' to 1306' (G) No. 4, from ..... to .....
No. 2, from 2019' to 2063' No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 320' to 324' No. 3, from ..... to .....
No. 2, from 1805' to 1815' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	390'	Regular	390'			Gals Strng
7"	20# & 23#	8rd	Nat'l	1815'	Baker	1795'			Water Strng
5 1/2"	14#	8rd	Nat'l	2067'	Guide				Prods Strng

OIL CONSERVATION COMMISSION
HOBBS, NEW MEXICO

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	374'	None	Obtained formation shut-off		
7"	1846'	None	Pump & Plug	Heavy	30 sacks Aquagel
5 1/2"	2059'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

SHOOTING RECORD

Size shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
	Water Frac				
	20% HCl	500 gals.	8-30-59	2019-2047'	
	Brute Oil	61,700 gals.	"	"	
	Ottawa Sand	205,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from ..... 0 feet to 2047 feet, and from ..... feet to ..... feet

DATES

September 8, 19 59

Put to producing September 1, 19 59

The production for the first 24 hours was 665 barrels of fluid of which 100% was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, °Bé 41 API 35.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

R. M. Farr, Driller Ben Porter, Driller
E. T. Haney, Driller ....., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	20	20	Caliche
20	300	280	Red shale
300	320	20	Anhy & Red Shale
320	324	4	Sand
324	380	56	Anhy
380	415	35	Anhy & red shale
415	445	30	Anhy
445	892	447	Salt
892	1168	276	Anhy
1168	1191	23	Lime
1191	1197	6	Anhy & lime
1197	1585	388	Anhy
1585	1595	10	Sand
1595	1792	197	Anhy
1792	1822	30	Red sand
1822	1922	100	Anhy
1922	1950	28	Lime & Anhy
1950	2022	72	Anhy
2022	2044	22	Sand
2044	2047	3	Sand & anhy

AT THE END OF COMPLETE DRILLER'S LOG, ADD GEOLOGIC TOPS AND WHETHER FROM CUTTINGS OR SAMPLES

FORMATION RECORD—Continued

Exhibit 2-w

Form 9-330

Budget Bureau No. 42-R355.5.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 067610-A
LEASE OR PERMIT TO PROSPECT Bosworth

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Bosworth Field Undesignated State New Mexico
Well No. 1 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. {N./S.} of S. Line and 660' {E./W.} of E. Line of Section 14 Elevation 3718'
(Derrick floor relative to sea level or ground)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. V. Reed

Date June 4, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilled May 2, 19 59 Finished drilling May 26, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2068' to 2097' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 1816' to 1853' No. 3, from ..... to .....
No. 2, from ..... to ..... No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	390'	Regular	390'			Gals Strng
8 5/8"	28#	8rd	National	1913'	Baker	1913'			Water Strng
7"	20#	8rd	Used	2067'	Guide				Prods Strng

OIL CONSERVATION COMMISSION
HOBBS, NEW MEXICO

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	390'	None	Obtained formation shut-off		
8 5/8"	1913'	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2067'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

FRACTURING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		Acid	500 gals.	5-27-59	2067-2101'	
		Oil & Sand	15,000 gals.	"	"	
		Ottawa Sand	150,000 gals.	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

DATES

June 4, 19 59

Put to producing May 31, 19 59

The production for the first 24 hours was 262 barrels of fluid of which 100% was oil; ..... % emulsion; ..... % water; and ..... % sediment. Gravity, °Bé ..... API 35.4°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

E. M. Farr, Driller Ben Porter, Driller
E. T. Haney, Driller ....., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	270	270	Red sandy shale
270	295	25	Anhy
295	388	93	Anhy & shale
388	425	37	Anhy
425	430	5	Red shale
430	480	50	Anhy
480	890	410	Salt
890	910	20	Anhy
910	920	10	Shale
920	1073	153	Anhy
1073	1200	127	Anhy & shale
1200	1625	425	Anhy
1625	1635	10	Red shale
1635	1846	211	Anhy
1846	1853	7	Red sand
1853	1858	5	Anhy
1858	1864	6	Red sand
1864	1877	13	Anhy
1877	1884	7	Lime
1884	1905	21	Anhy
1905	1909	4	Red shale
1909	1913	4	Brown lime
1913	1925	12	Anhy & lime
1925	2061	136	Anhy
2061	2068	7	Sandy lime
2068	2072	4	Sand & sandy lime
2072	2077	25	Anhy
2077	2101	4	Anhy

AT THE END OF COMPLETE DRILLER'S LOG, ADD GEOLOGIC TOPS AND WHETHER FROM CUTTINGS OR SAMPLES

FORMATION RECORD—Continued

N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FOCUS MEFF CORRECTA

HISTORY OF OIL OR GAS WELL

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	THREADS PER INCH	MAKE	DEPTH SET	KIND OF SHOE	CEMENT	PERFORATED FROM	PERFORATED TO	PURPOSE

MUDDING AND CEMENTING RECORD

SIZE CASING	WHERE SET	NUMBER SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

SIZE SHELL USED	EXPLOSIVE USED	QUANTITY	DATE	DEPTH SHOT	DEPTH CLEANED OUT

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing _____, 19__
The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % was emulsion; _____ % was water; and _____ % was sediment. _____ Gravity, Be°
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller
_____, Tool dresser _____, Tool dresser

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FOCUS MEFF CORRECTA

HISTORY OF OIL OR GAS WELL

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	THREADS PER INCH	MAKE	DEPTH SET	KIND OF SHOE	CEMENT	PERFORATED FROM	PERFORATED TO	PURPOSE

MUDDING AND CEMENTING RECORD

SIZE CASING	WHERE SET	NUMBER SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

SIZE SHELL USED	EXPLOSIVE USED	QUANTITY	DATE	DEPTH SHOT	DEPTH CLEANED OUT

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing _____, 19__
The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % was emulsion; _____ % was water; and _____ % was sediment. _____ Gravity, Be°
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller
_____, Tool dresser _____, Tool dresser

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION

N.M.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

Form 9-330

Budget Bureau No. 42-R355.5.
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 3 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of N. Line and 1980 ft. [E.] of E. Line of Section 14 Elevation 3633'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. J. Heard
Date December 1, 1958 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling October 22, 1958 Finished drilling November 23, 1958

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2062' to 2078' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 318' to 325' No. 3, from ... to ...
No. 2, from 1831' to 1838' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	Rnd	Used	314'	Texas				Salt String
8 5/8"	24#	Rnd	Used	1850'	Texas				Water String
7"	23#	Rnd	Used	2015'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	343	None	Obtained formation shut-off		
8 5/8"	1850	None	Pump & Plug	Heavy	45 sacks Aquagel
7"	2055	150	Pump & Plug	Heavy	35 sacks Aquagel

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		20% HCl	500 gals.	11-26-58	2055-2081'	
		Crude Oil	56,196 gals	"	" "	
		Ottawa Sand	90,000#	"	" "	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2081 feet, and from ... feet to ... feet

DATES

December 1, 1958 Put to producing December 1, 1958

The production for the first 24 hours was 89 barrels of fluid of which 100 % was oil; ... % emulsion; ... % water; and ... % sediment.
Gravity, °Bé. 36° API

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

D. C. Crooks, Driller — Ben Porter, Driller
E. W. Farr, Driller — ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	318	318	Red shale
318	325	7	Sand
325	355	30	Anhy
355	440	85	Red shale
440	465	25	Anhy
465	900	435	Salt
900	915	15	Anhy
915	940	25	Salt
940	980	40	Salt & anhy
980	1070	90	Anhy
1070	1195	125	Anhy & shale
1195	1831	636	Anhy
1831	1838	7	Sand
1838	1920	82	Anhy
1920	1960	40	Lime
1960	2030	70	Anhy
2030	2057	27	Anhy & sand
2057	2063	6	Anhy
2063	2078	15	Sand
2078	2084	6	Anhy & sand

AT THE END OF COMPLETE DRILLER'S LOG FURNISH ON THIS SIDE A COMPLETE VERTICAL DRILLING CHRONOLOGY.

FOLD MARK

FORMATION RECORD—Continued

16-43094

Form 9-330

Budget Bureau No. 42-R355.5.
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 6 Sec. 11 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of S. Line and 660 ft. [W.] of E. Line of Section 11 Elevation 3728'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. J. Heard
Date April 28, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling March 25, 1959 Finished drilling April 20, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1332' to 1339' (G) No. 4, from ... to ...
No. 2, from 2062' to 2083' No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 1828' to 1851' No. 3, from ... to ...
No. 2, from ... to ... No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	Rnd	Used	400'	Regular				Salt String
8 5/8"	24#	Rnd	Used	1850'	Regular				Water String
7"	23#	Rnd	Used	2056'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	400'	None	Obtained formation shut-off		
8 5/8"	1870'	None	Pump & Plug	Heavy	35 Sacks
7"	2059'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		20% HCl	500 gals.	4-21-59	2059-86'	
		Crude Oil	61,820 gals.	"	" "	
		Ottawa Sand	90,800 lbs.	"	" "	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2086 feet, and from ... feet to ... feet

DATES

April 28, 1959 Put to producing April 28, 1959

The production for the first 24 hours was 120 barrels of fluid of which 100 % was oil; 0 % emulsion; ... % water; and ... % sediment.
Gravity, °API 36.0°

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

D. C. Crooks, Driller — Hollie Gray, Driller
E. W. Farr, Driller — Ben Porter, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Sand & caliche
10	235	225	Sand & shale
235	314	79	Shale & anhy
314	327	13	Gravel
327	346	19	Gravel & shale
346	358	12	Broken anhy
358	396	38	Red shale
396	481	85	Anhy
481	892	411	Salt
892	1013	121	Anhy
1013	1066	53	Anhy & lime
1066	1073	7	Red shale
1073	1131	58	Anhy
1131	1142	11	Red sand
1142	1196	54	Anhy & shale
1196	1332	136	Anhy
1332	1339	7	Lime
1339	1548	209	Anhy
1548	1551	3	Lime
1551	1620	69	Anhy
1620	1658	38	Anhy & shale
1658	1695	37	Anhy & salt
1695	1828	133	Anhy
1828	1851	23	Shale & sand
1851	2049	198	Anhy

AT THE END OF COMPLETE DRILLER'S LOG FURNISH ON THIS SIDE A COMPLETE VERTICAL DRILLING CHRONOLOGY.

FOLD MARK

FORMATION RECORD—Continued

16-43094

Form 9-330

Budget Bureau No. 42-R355.5.
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Undesignated State New Mexico
Well No. 12 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N.] of S. Line and 859 ft. [W.] of W. Line of Section 13 Elevation 3727'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. J. Heard
Date July 10, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling June 3, 1959 Finished drilling June 27, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1365' to 1370' (G) No. 4, from ... to ...
No. 2, from 2108' to 2130' No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 352' to 367' No. 3, from ... to ...
No. 2, from 1867' to 1872' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	Rnd	Used	400'	Regular				Salt String
8 5/8"	24#	Rnd	Used	1950'	Regular				Water String
7"	23 & 24#	Rnd & 10T	Used	2102'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	402	None			
8 5/8"	1953	None	Obtained formation shut-off		
7"	2105	200	Pump & Plug	Heavy	35 sacks Aquagel

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		20% HCl	500 gals.	6-25-59	2105-2134'	
		Crude Oil	58,716 gals.	"	" "	
		Ottawa Sand	123,000#	"	" "	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2134 feet, and from ... feet to ... feet

DATES

July 10, 1959 Put to producing July 7, 1959

The production for the first 24 hours was 96 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.
Gravity, °API 35.0°

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

E. W. Farr, Driller — Ben Porter, Driller
E. T. Haney, Driller — ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	260	260	Red shale
260	360	100	Anhy
360	450	90	Red shale
450	495	45	Anhy
495	915	420	Salt
915	1046	131	Anhy
1046	1085	39	Lime
1085	1224	139	Anhy & shale
1224	1250	26	Lime
1250	1310	60	Anhy
1310	1332	22	Lime
1332	1663	331	Anhy
1663	1668	5	Red shale
1668	1867	199	Anhy
1867	1877	10	Red sand
1877	1942	65	Anhy
1942	1951	9	Anhy & shale
1951	1956	5	Lime
1956	1961	5	Anhy & shale
1961	2090	129	Anhy
2090	2095	5	Sand
2095	2100	5	Sandy lime
2100	2123	23	Sand
2123	2134	11	Sand & anhy

AT THE END OF COMPLETE DRILLER'S LOG FURNISH ON THIS SIDE A COMPLETE VERTICAL DRILLING CHRONOLOGY.

FOLD MARK

FORMATION RECORD—Continued

16-43094

N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
5750	5770	20	Shale & sand
5770	5810	40	Shale
5810	5830	20	Shale & sand
5830	5850	20	Shale
5850	5870	20	Shale & sand
5870	5890	20	Shale
5890	5910	20	Shale & sand
5910	5930	20	Shale

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, New Mexico
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 15 Sec. 12 T. 16S. R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of S. Line and 1977 ft. [W.] of W. Line of Section 12 Elevation 3735'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Date August 12, 1959 Title District Superintendent

The summary on this page is for the condition of the well above date.
Commenced drilling July 6, 1959 Finished drilling August 4, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2050' to 2087' No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 330' to 340' No. 3, from to
No. 2, from 1845' to 1855' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	337'	Regular				Salt String
8 5/8"	20#	8rd	Used	1934'	Pittsburg				Water String
7"	20#	8rd	Pittsburg	2051'	Used				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	345'	None	Obtained formation shut-off		
8 5/8"	1938'	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2060'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

STIMULATION SHOOTING RECORD

Size	Shell used	Material Shot or Chemical used	Quantity	Date	Depth Shot or Treated	Depth cleaned out
		20# NG	500 gals.	8-5-59	2060-2090'	
		Crude Oil & 218 gals.	"	"	"	
		Ottawa Sand 265,000 lbs.	"	"	"	

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2090 feet, and from feet to feet

DATES

August 12, 1959 Put to producing August 12, 1959

The production for the first 24 hours was 312 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

If gas well, cu. ft. per 24 hours Gravity, Bé. 34.0°
Rock pressure, lbs. per sq. in. Gallons gasoline per 1,000 cu. ft. of gas

EMPLOYEES

Truman Jacobs Driller Charley Powell Driller
Al Luke Driller Bill Walker Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	5	5	Sand
5	15	10	Caliche
15	230	215	Sand & shale
230	330	100	Anhy
330	340	10	Sand
340	447	107	Shale & anhy
447	480	33	Anhy
480	975	495	Salt
975	1080	105	Anhy
1080	1115	35	Sand shale
1115	1130	15	Anhy
1130	1295	165	Anhy & shale
1295	1610	315	Anhy
1610	1630	20	Brown sand
1630	1635	5	Anhy
1635	1660	25	Salt
1660	1845	185	Anhy & [illegible]
1845	1865	20	Red sand
1865	1925	60	Anhy
1925	1938	9	Anhy & shale
1938	1968	30	Lime
1968	1973	5	Lime & anhy
1973	1978	5	Lime
1978	1988	10	Anhy
1988	1991	3	Anhy & [illegible]
1991	1996	5	Anhy
1996	2000	4	Anhy

(OVER)

FORMATION RECORD—Continued

AT THE END OF COMPLETE DRILLERS LOG, TOTAL FEET, 2090

FOLD MARK

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 21 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of S. Line and 660 ft. [W.] of W. Line of Section 14 Elevation 3711'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Date November 3, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling September 15, 19 59 Finished drilling October 7, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1992' to 2020' No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 927' to 1051' No. 3, from to
No. 2, from 1770' to 1787' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	337'	Regular				Salt String
7"	20 & 23#	8rd	Used	2006'	Pittsburg				Water String
5 1/2"	14#	8rd	Used	1990'	Ohio				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	345'	None	Obtained formation shut-off		
7"	1993'	150 (Around Shoe)	Pump & Plug	Heavy	30 sacks
		50 (1990-892')	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

STIMULATION SHOOTING RECORD

Size	Shell used	Material Shot or Chemical used	Quantity	Date	Depth Shot or Treated	Depth cleaned out
		20# NG	500 gals.	11-8-59	1991-2025'	
		Crude Oil & 80,250 gals.	"	"	"	
		Ottawa Sand 260,000 lbs.	"	"	"	

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2022 feet, and from feet to feet

DATES

November 3, 19 59 Put to producing October 25, 19 59

The production for the first 24 hours was 61 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

If gas well, cu. ft. per 24 hours Gravity, Bé. 35.0°
Rock pressure, lbs. per sq. in. Gallons gasoline per 1,000 cu. ft. of gas

EMPLOYEES

D. C. Crooks Driller J. E. Wilcox Driller
C. F. Jennings Driller Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	210	210	Red shale & sand
210	287	77	Red shale
287	315	28	Anhy
315	380	65	Shale & shells
380	420	40	Red shale
420	825	405	Salt
825	860	35	Anhy
860	880	20	Red shale
880	1160	280	Anhy & red shale
1160	1280	120	Anhy
1280	1305	25	Lime
1305	1555	250	Anhy
1555	1568	13	Sand & shale
1568	1770	202	Anhy
1770	1787	17	Red sand
1787	1810	23	Anhy
1810	1807	-3	Slk
1807	1938	131	Anhy
1938	1967	49	Anhy & shale
1967	1992	5	Sandy lime
1992	2022	30	Sand

(OVER)

FORMATION RECORD—Continued

AT THE END OF COMPLETE DRILLERS LOG, TOTAL FEET, 2022

FOLD MARK

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 23 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] of S. Line and 1980 ft. [W.] of W. Line of Section 14 Elevation 3720'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Date December 9, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling October 20, 19 59 Finished drilling November 16, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2025' to 2060' No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 296' to 297' No. 3, from to
No. 2, from 1792' to 1815' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	302'	Regular				Salt String
8 5/8"	24#	8rd	Used	1989'	Pittsburg				Water String
7"	20 & 23#	8rd	Used	2042'	Pittsburg				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	363'	None	Obtained formation shut-off		
8 5/8"	1838'	None	Pump & Plug	Heavy	15 sacks Aquagel
7"	2024'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

STIMULATION SHOOTING RECORD

Size	Shell used	Material Shot or Chemical used	Quantity	Date	Depth Shot or Treated	Depth cleaned out
		20# NG	500 gals.	12-16-59	2025-2064'	
		Crude Oil & 69,826 gals.	"	"	"	
		Ottawa Sand 260,000 lbs.	"	"	"	

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet
Cable tools were used from 0 feet to 2066 feet, and from feet to feet

DATES

December 9, 19 59 Put to producing December 9, 19 59

The production for the first 24 hours was 60 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, Bé. 35.0°

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

D. C. Crooks Driller G. H. Harris Driller
J. S. Dennis Driller J. E. Wilcox Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Caliche
10	250	240	Red sand and shale
250	260	10	Gravel
260	325	65	Anhy
325	372	47	Red shale
372	382	10	Anhy
382	410	28	Red shale
410	450	40	Anhy and shale
450	855	405	Salt
855	900	45	Anhy and shale
900	974	74	Anhy
974	999	25	Anhy and lime
999	1025	26	Anhy
1025	1152	127	Anhy and red shale
1152	1415	263	Anhy
1415	1420	5	Anhy and shale
1420	1436	16	Lime
1436	1602	166	Anhy
1602	1625	21	Red sandy shale
1625	1792	167	Anhy
1792	1815	23	Red shale
1815	1835	20	Anhy
1835	1843	8	Lime
1843	1845	2	Anhy
1845	1839	306	Red sandy shale
1839	1890	51	Anhy

(OVER)

FORMATION RECORD—Continued

AT THE END OF COMPLETE DRILLERS LOG, TOTAL FEET, 2066

FOLD MARK

W.S.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
1915	1934	19	Clay & red beds
1934	1952	18	Shale
1952	1962	10	Lime
1962	1968	6	Shale
1968	1974	6	Lime
1974	1980	6	Shale
1980	1988	8	Lime
1988	2000	12	Shale
2000	2008	8	Lime
2008	2015	7	Shale
2015	2020	5	Lime
2020	2026	6	Shale
2026	2032	6	Lime
2032	2038	6	Shale
2038	2044	6	Lime
2044	2050	6	Shale
2050	2060	10	Lime
2060	2070	10	Shale
2070	2080	10	Lime
2080	2090	10	Shale
2090	2100	10	Lime
2100	2110	10	Shale

Form 9-330

Form approved.
Budget Bureau No. 42-R355.5

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 26 Sec. 12 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. $\{N./S.\}$ of S. Line and 990 ft. $\{E./W.\}$ of E. Line of Section 12 Elevation 3744'
(Derrick floor, relative to sea level or other datum)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Date January 14, 1960 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling November 23, 59 Finished drilling December 19, 19 59.

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2103' to 2113' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 335' to 341' No. 3, from ..... to .....
No. 2, from 1867' to 1885' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10-3/4"	32.75#	8rd	Used	455'	Regular		455'		Surface String
8-5/8"	24#	8rd	Used	2002'	Larkin		1995'		Water String
7"	23#	8rd	Used	2077'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	455'	150	Obtained formation shut-off		
8-5/8"	2002'	None	Pump & Plug	Heavy	15 sacks Gel
7"	2077'	150	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		Acid NEA	500 gals.	12-20-59	2038-2116	
		Crude Oil	60,359 gals.	"	"	
		Ottawa Sand	240,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2116 feet, and from ..... feet to ..... feet

DATES

January 14, 19 60 Put to producing December 25, 19 59
The production for the first 24 hours was 568 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.
If gas well, cu. ft. per 24 hours ..... Gravity, ~~Bé~~ API 35.6°
Rock pressure, lbs. per sq. in. ..... Gallons gasoline per 1,000 cu. ft. of gas .....

EMPLOYEES

R. O. Caffey, Driller J. G. Crow, Driller
P. C. Crooks, Driller ....., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Sand and red shale
15	330	315	Red shale
330	335	5	Crevice
335	341	6	Sand
341	390	49	Anhy
390	410	20	Red shale
410	415	5	Anhy
415	420	5	Anhy and shale
420	440	20	Red shale
440	490	50	Anhy and shale
490	945	455	Salt
945	995	50	Anhy and shale
995	1065	70	Anhy
1065	1240	175	Anhy and shale
1240	1660	420	Anhy
1660	1695	35	Anhy and red shale
1695	1867	172	Anhy
1867	1885	18	Red sand
1885	1917	32	Anhy
1917	1928	11	Lime
1928	1935	7	Anhy & lime
1935	1939	4	Slm
1939	2038	109	Anhy
2038	2096	58	Anhy and shale
2096	2103	7	Sandy lime
2103	2116	13	Sand

FOLD 3 WAYS

FORMATION RECORD—Continued

Form 9-330

Form approved.
Budget Bureau No. 42-R355.5

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 06761-A
LEASE OR PERMIT TO PROSPECT Bosworth

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Bosworth Field High Lonesome State New Mexico
Well No. A Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 990 ft. $\{N./S.\}$ of S. Line and 990 ft. $\{E./W.\}$ of E. Line of Section 14 Elevation 3717'
(Derrick floor, relative to sea level or other datum)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed
Date February 8, 1960 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling December 24, 19 59. Finished drilling January 14, 19 60

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1365' to 1368' (G) No. 4, from ..... to .....
No. 2, from 2060' to 2078' No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 455' to 460' No. 3, from ..... to .....
No. 2, from ..... to ..... No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	381'	Regular		381'		Surface String
8 5/8"	24#	8rd	Used	923'	Larkin		923'		Water String
7"	20 & 23#	8rd	Used	2050'	Larkin		1873'		Water String
5 1/2"	14#	8rd	New	2078'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	381'	None	Obtained formation shut-off		
8 5/8"	923'	None	Obtained formation shut-off		
7"	1873'	None	Pump & Plug	Heavy	15 sacks Aquagel
1 1/2"	2050'	150 + 50	"	"	

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		Acid NEA	500 gals.	1-20-60	2050-2079'	
		Crude Oil	53,634 "	"	"	
		Ottawa Sand	280,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2079 feet, and from ..... feet to ..... feet

DATES

February 8, 19 60 Put to producing January 26, 19 60
The production for the first 24 hours was 92 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.
If gas well, cu. ft. per 24 hours ..... Gravity, ~~Bé~~ API 35.0°
Rock pressure, lbs. per sq. in. ..... Gallons gasoline per 1,000 cu. ft. of gas .....

EMPLOYEES

J. G. Crow, Driller G. H. Harris, Driller
N. T. Haney, Driller J. E. Wilcox, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Caliche
15	280	265	Red shale
280	335	55	Red shale & anhy
335	375	40	Red shale
375	377	2	Anhy
377	381	4	Slm
381	395	14	Red shale
395	405	10	Anhy
405	440	35	Red shale
440	460	20	Red shale & anhy
460	888	428	Salt
888	925	37	Anhy
925	938	13	Shale & anhy
938	1062	124	Anhy
1062	1100	38	Red shale
1100	1187	87	Red shale & anhy
1187	1250	63	Anhy
1250	1305	55	Anhy & shale
1305	1576	271	Anhy
1576	1750	174	Anhy & shale
1750	1825	75	Anhy
1825	1849	24	Red sand
1849	1900	51	Anhy & shale
1900	1915	15	Anhy & shale
1915	1996	81	Anhy
1996	2016	20	Anhy & shale

FOLD 3 WAYS

FORMATION RECORD—Continued

W.N.M.C.V. MICROGRAPHICS
BEST AVAILABLE COPY

Form 9-330

Form approved.
Budget Bureau No. 42-R355.5.

U. S. LAND OFFICE ... Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT .....
Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract ..... Brewer ..... Field High Lonesome ... State New Mexico
Well No. 26 ... Sec. 12 T. 16S. R. 29E Meridian ..... N.M.P.M. ..... County Eddy
Location 660 ft. [N.] [Rec.] of S. Line and 990 ft. [W.] [Rec.] of E. Line of Section 12 Elevation 3744'
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....
Title R. J. Hagood
Date January 14, 1960 District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling ..... November 23 19 59 Finished drilling ..... December 19 ..., 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2103' to 2113' No. 4, from ..... to .....
No. 2, from ..... to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 335' to 341' No. 3, from ..... to .....
No. 2, from 1862' to 1885' No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	415'	Regular				Surface String
8 5/8"	28#	8rd	Used	2002'	Pattern	1995'			Water String
7"	23#	8rd	Used	2078'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	415'	None	Obtained formation shut-off		
8 5/8"	2002'	None	Obtained formation shut-off		
7"	2078'	150	Pump & Plug	Heavy	15 sacks Gel

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION RECORD

Size	Shot used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		Zone Nil	500 gals.	12-20-59	2098-2114'	
		Crude Oil	50,529 gals.	"	"	
		Ottawa Sand	240,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2116 feet, and from ..... feet to ..... feet

DATES

January 14, 1960 Put to producing December 25, 19 59

The production for the first 24 hours was 568 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

If gas well, cu. ft. per 24 hours ..... Gravity, [API] 35.0°
Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

R. O. Caffey, Driller
R. O. Crooks, Driller
J. G. Crow, Driller
....., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Sand and red shale
15	330	315	Red shale
330	335	5	Crevice
335	341	6	Sand
341	390	49	Anhy
390	410	20	Red shale
410	415	5	Anhy
415	420	5	Anhy and shale
420	440	20	Red shale
440	490	50	Anhy and shale
490	945	455	Salt
945	995	50	Anhy and shale
995	1065	70	Anhy
1065	1240	175	Anhy and shale
1240	1660	420	Anhy
1660	1695	35	Anhy and red shale
1695	1867	172	Anhy
1867	1885	18	Red sand
1885	1917	32	Anhy
1917	1938	11	Lime
1938	1935	7	Anhy & lime
1935	1929	-6	SLM
1929	2038	109	Anhy
2038	2096	58	Anhy and shale
2096	2103	7	Sandy lime
2103	2116	13	Sand

(OVER)

LONGVIEW RECORD—Continued

16-43064-4

Form 9-330

Form approved.
Budget Bureau No. 42-R355.5.

U. S. LAND OFFICE ... Las Cruces
SERIAL NUMBER 067610-A
LEASE OR PERMIT TO PROSPECT .....
Bosworth

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract ..... Bosworth ..... Field High Lonesome ... State New Mexico
Well No. 4 ... Sec. 14 T. 16S. R. 29E. Meridian ..... N.M.P.M. ..... County Eddy
Location 990 ft. [N.] [Rec.] of S. Line and 990 ft. [W.] [Rec.] of E. Line of Section 14 Elevation 3717'
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed .....
Title R. J. Hagood
Date February 8, 1960 District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling ..... December 30 ..., 19 59 Finished drilling ..... January 14 ..., 19 60

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1365' to 1368' (G) No. 4, from ..... to .....
No. 2, from 2060' to 2075' No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

No. 1, from 455' to 460' No. 3, from ..... to .....
No. 2, from ..... to ..... No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	381'	Regular				Surface String
8 5/8"	28#	8rd	Used	2001'	Pattern	1995'			Water String
7" 20 & 23#		8rd	Used	2072'	Pattern	1973'			Water String
5 1/2"	14#	8rd	New	2072'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	381'	None	Obtained formation shut-off		
8 5/8"	2001'	None	Obtained formation shut-off		
7"	1973'	None	Pump & Plug	Heavy	15 sacks Aquagel
5 1/2"	2050'	150 & 50			

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION RECORD

Size	Shot used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		Zone Nil	500 gals.	1-20-60	2050-2079'	
		Crude Oil	51,634	"	"	
		Ottawa Sand	280,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2079 feet, and from ..... feet to ..... feet

DATES

February 8, 1960 Put to producing January 26, 19 60

The production for the first 24 hours was 92 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

If gas well, cu. ft. per 24 hours ..... Gravity, [API] 35.0°
Gallons gasoline per 1,000 cu. ft. of gas .....
Rock pressure, lbs. per sq. in. .....

EMPLOYEES

J. G. Crow, Driller
N. T. Haney, Driller
G. H. Harris, Driller
J. E. Wilcox, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Caliche
15	280	265	Red shale
280	335	55	Red shale & anhy
335	375	40	Red shale
375	377	2	Anhy
377	381	4	SLM
381	395	14	Red shale
395	405	10	Anhy
405	440	35	Red shale
440	460	20	Red shale & anhy
460	888	428	Salt
888	925	37	Anhy
925	938	13	Shale & anhy
938	1062	124	Anhy
1062	1100	38	Red shale
1100	1187	87	Red shale & anhy
1187	1250	63	Anhy
1250	1305	55	Anhy & shale
1305	1576	271	Anhy
1576	1750	174	Anhy & shale
1750	1825	75	Anhy
1825	1849	24	Red sand
1849	1900	51	Anhy
1900	1915	15	Anhy & shale
1915	1996	81	Anhy
1996	2016	20	Anhy & shale

(OVER)

LONGVIEW RECORD—Continued

16-43064-4

N.M.C.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
2016	2052	36	Ashy
2052	2076	24	Sand
2076	2079	3	Sand & ashy

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
2016	2052	36	Ashy
2052	2076	24	Sand
2076	2079	3	Sand & ashy

N.M.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

Form 9-330

LOCATE WELL CORRECTLY

Form approved.
Budget Bureau No. 42-R355.5.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 067610-A
LEASE OR PERMIT TO PROSPECT Bosworth

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Bosworth Field High Lonesome State New Mexico
Well No. 3 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 990 ft. [N.] of S. Line and 2310 ft. [W.] of E. Line of Section 14 Elevation 3704'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed W. L. Heard
Date January 14, 1960 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling November 24, 19 59. Finished drilling December 17, 19 59.

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2039' to 2050' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 1795' to 1816' No. 3, from ... to ...
No. 2, from ... to ... No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	964'	Regular	367'			Salt String
8 5/8"	20#	8rd	Used	1810'	Patton	1810'			Water String
7"	23#	8rd	Used	2027'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	367'	None	Obtained formation shut-off		
8 5/8"	1818'	None	Pump & Plug	Heavy	15 sacks Gel
7"	2029'	150	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		20# NCI	500 gals.	12-18-59	2029-2055'	
		Crude Oil	64,093 "	"	" "	
		Ottawa Sand	213,000 lbs.	"	" "	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2059 feet, and from ... feet to ... feet

DATES

January 24, 19 60 Put to producing December 26, 19 59

The production for the first 24 hours was 168 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, API 35.6°

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

E. T. Haney, Driller — J. E. Wilcox, Driller
G. N. Harris, Driller — J. C. Crow, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	6	6	Caliche
6	70	64	Red shale
70	145	75	Gyp and shale
145	238	93	Red shale
238	297	59	Anhy
297	362	65	Anhy and shale
362	395	33	Anhy
395	435	40	Red shale
435	455	20	Anhy
455	870	415	Salt
870	894	24	Anhy and shale
894	1030	136	Anhy
1030	1159	129	Anhy and shale
1159	1549	390	Anhy
1549	1585	36	Anhy and shale
1585	1597	12	Red shale
1597	1774	177	Anhy
1774	1795	21	Anhy and shale
1795	1816	21	Red sand
1816	1846	30	Anhy
1846	1853	7	Anhy and lime
1853	1870	17	Anhy
1870	1904	34	Anhy and shale
1904	1940	36	Anhy
1940	1977	37	Anhy and shale
1977	1994	17	Sandy lime
1994	2025	31	Sand
2025	2031	6	Sandy lime
2031	2059	28	Anhy

AT THE END OF CLIENTS' DRILLERS LOG, MADE BY U.S.G.S., STATE WHETHER FROM SAMPLES OR DRILLER'S LOG OF SAMPLES.

FOLD | MARK

LOCATION RECORD—Continued

Form 9-330

LOCATE WELL CORRECTLY

Form approved.
Budget Bureau No. 42-R355.5.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 24 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N.] of S. Line and 1970 ft. [E.] of W. Line of Section 13 Elevation 3720'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed W. L. Heard
Date December 9, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling October 17, 19 59. Finished drilling November 10, 19 59.

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1144' to 1448' (G) No. 4, from ... to ...
No. 2, from 2126' to 2132' No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 378' to 381' No. 3, from ... to ...
No. 2, from 1884' to 1900' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	410'	Regular	420'			Salt String
8 5/8"	20#	8rd	Used	1917'	Patton	1917'			Water String
7"	23#	8rd	Used	2157'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	420'	None	Obtained formation shut-off		
8 5/8"	1927'	None	Pump & Plug	Heavy	15 sacks Aquagel
7"	2132'	150	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		20# NCI	500 gals.	11-12-59	2122-2174'	
		Crude Oil	80,536 gals.	"	" "	
		Ottawa Sand	240,000 lbs.	"	" "	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2147 feet, and from ... feet to ... feet

DATES

December 9, 19 59 Put to producing December 9, 19 59

The production for the first 24 hours was 47 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, °Bé. ...

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

F. E. Farr, Driller — Ben Porter, Driller
E. T. Haney, Driller — ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Caliche
10	312	302	Red sandy shale
312	340	28	Lime
340	350	10	Red shale
350	376	26	Anhy
376	417	41	Red shale
417	420	3	Anhy
420	468	48	Anhy and shale
468	482	14	Anhy
482	930	448	Salt
930	1110	180	Anhy
1110	1115	5	Red shale
1115	1125	10	Anhy
1125	1145	20	Red shale
1145	1168	23	Anhy
1168	1175	7	Red shale
1175	1565	390	Anhy
1565	1579	14	Gray lime
1579	1868	289	Anhy
1868	1877	9	Lime
1877	1884	7	Blue shale
1884	1900	16	Red sand
1900	2052	152	Anhy
2052	2060	8	Red shale
2060	2106	46	Anhy
2106	2116	10	Sandy lime
2116	2142	26	Sand
2142	2147	5	Lime and Anhy

AT THE END OF CLIENTS' DRILLERS LOG, MADE BY U.S.G.S., STATE WHETHER FROM SAMPLES OR DRILLER'S LOG OF SAMPLES.

FOLD | MARK

LOCATION RECORD—Continued

Form 9-330

LOCATE WELL CORRECTLY

Form approved.
Budget Bureau No. 42-R355.5.

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 27 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 990 ft. [N.] of S. Line and 660 ft. [W.] of W. Line of Section 14 Elevation 3699'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed W. L. Heard
Date March 9, 1960 Title District Superintendent

The summary on this page is for the condition of the well at above date.
Commenced drilling January 27, 1960. Finished drilling February 18, 19 60

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2021' to 2026' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 1720' to 1785' No. 3, from ... to ...
No. 2, from ... to ... No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	395'	Regular	395'			Salt String
8 5/8"	20#	8rd	Used	1810'	Patton	1809'			Water String
7"	23#	8rd	Used	2099'	Texas Pattern				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	397'	None	Obtained formation shut-off		
8 5/8"	1809'	None	Pump & Plug	Heavy	15 sacks Aquagel
7"	2026'	150 & 50	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		20% HCl	500 gals.	2-20-60	2002-2036'	
		Crude Oil	79,526 gals.	"	" "	
		Ottawa Sand	281,800 lbs.	"	" "	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2036 feet, and from ... feet to ... feet

DATES

March 9, 19 60 Put to producing March 2, 19 60

The production for the first 24 hours was 128 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, API 36.0°

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

E. T. Haney, Driller — L. P. Jennings, Driller
G. N. Harris, Driller — ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	240	240	Red shale
240	290	50	Anhy
290	298	8	Lime
298	397	99	Red shale
397	420	23	Anhy
420	835	415	Salt
835	855	20	Anhy
855	895	40	Anhy and shale
895	990	95	Anhy
990	1070	80	Anhy and shale
1070	1090	20	Anhy
1090	1145	55	Anhy and shale
1145	1540	395	Anhy
1540	1565	25	Red sand and shale
1565	1615	50	Anhy
1615	1638	23	Anhy and salt
1638	1750	112	Anhy
1750	1755	5	Anhy and shale
1755	1770	15	Anhy
1770	1785	15	Red sand
1785	1835	50	Anhy
1835	1855	20	Anhy and shale
1855	1960	105	Anhy
1960	1965	5	Brown sandy shale
1965	1995	30	Anhy and shale
1995	2005	10	Sandy lime
2005	2036	31	Gray sand

LOCATION RECORD—Continued

W.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

HISTORY OF OIL OR GAS WELL

1. If one of the greatest importance is to have a complete history of the well. Please state in detail the dates of everything together with the reasons for the work and the results. If there were any changes made in the casing, state fully, and if any casing was "abandoned," or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If there or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

CASING RECORD

SIZE CASING	WEIGHT PER FOOT	NEW OR SECOND HAND	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATED FROM	PURPOSE
20"							
16"							
13"							
10"							
8"							
6"							
4"							
3"							
2"							

INCREMENTAL WATER SHAFT

SIZE CASING	DEPTH SET	NUMBER SACKS CEMENT	METHOD USED	MUD GRAVITY	AMOUNT MUD USED
20"					
16"					
13"					
10"					
8"					
6"					
4"					
3"					
2"					

(Depth set to nearest foot)

OIL OR GAS SAND OR ZONES

Commenced drilling ..... 19.. ; finished drilling ..... 19.. ; total depth ..... ft.

Did you encounter oil, gas or water in any sand or zone not mentioned in the log? If so, name it and state depth .....

Did you encounter any artificial obstruction in the hole? If so, describe .....

Did you encounter any mineral deposits? If so, describe .....

Did you encounter any unusual conditions? If so, describe .....

Did you encounter any water? If so, describe .....

Did you encounter any gas? If so, describe .....

Did you encounter any oil? If so, describe .....

Did you encounter any sand or zone containing both oil and water? If so, describe .....

Did you encounter any sand or zone containing both oil and gas? If so, describe .....

Did you encounter any sand or zone containing both gas and water? If so, describe .....

Did you encounter any sand or zone containing oil,

Form 9-330

Budget Bureau No. 42-R355.4

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 067610-A
LEASE OR PERMIT TO PROSPECT Roseworth

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Roseworth Field Undesignated State New Mexico
Well No. 1 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N.] [S.] of N. Line and 660 ft. [E.] [W.] of E. Line of Section 14 Elevation 3718'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed S. W. Neeld
Title District Superintendent

Date June 4, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling May 2, 19 59 Finished drilling May 26, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2068' to 2097' No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 1846' to 1853' No. 3, from to
No. 2, from to No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	390'	Regular	390'			Cell. String
8 5/8"	20#	8rd	National	1933'	Regular	1933'			Water String
7"	24#	10	Used	2064'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	390'	None	Obtained formation shut-off		
8 5/8"	1933'	None	Pump & Plug	Heavy	55 sacks Aquagel
7"	2067'	150	" "	"	" "

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

FRACTURING RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot or treated	Depth cleaned out
		20% HCL	500 gals.	7-27-59	2067-2101'	
		Crude Oil	48,720 gals.	" "	" "	
		Ottawa Sand	120,000 gals.	" "	" "	

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

DATES

June 4, 19 59 Put to producing May 31, 19 59

The production for the first 24 hours was 262 barrels of fluid of which 100% was oil; .....% emulsion; .....% water; and .....% sediment. Gravity, [API] API 35.4°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

S. M. Farr, Driller Ben Porter, Driller
S. T. Haney, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	270	270	Red sandy shale
270	295	25	Anhy
295	388	93	Anhy & shale
388	425	37	Anhy
425	430	5	Red shale
430	480	50	Anhy
480	890	410	Salt
890	910	20	Anhy
910	920	10	Shale
920	1073	153	Anhy
1073	1200	127	Anhy & shale
1200	1625	425	Anhy
1625	1635	10	Red shale
1635	1816	211	Anhy
1816	1853	7	Red sand
1853	1858	5	Anhy
1858	1864	6	Red sand
1864	1877	13	Anhy
1877	1884	7	Lime
1884	1905	21	Anhy
1905	1909	4	Red shale
1909	1913	4	Brown lime
1913	1925	12	Anhy & lime
1925	2061	136	Anhy
2061	2068	7	Sandy lime
2068	2079	11	Sand & sandy lime
2079	2097	18	Sand
2097	2101	4	Anhy

FORMATION RECORD—Continued

FOLD | MARK

Form 9-330

Budget Bureau No. 42-R355.4

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Wildcat State New Mexico
Well No. 1 Sec. 14 T. 16-S R. 29-E Meridian N.M.P.M. County Eddy
Location 660 ft. [N.] [S.] of N. Line and 660 ft. [E.] [W.] of E. Line of Section 14 Elevation 3728'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed N. J. Neeld
Title Dist. Supt.

Date Sept. 2, 1958

The summary on this page is for the condition of the well at above date.

Commenced drilling Aug. 3, 19 58 Finished drilling Aug. 23, 19 58

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1353' to 1362' No. 4, from to
No. 2, from 1903' to 1909' (g) No. 5, from to
No. 3, from 2067' to 2080' No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 318' to 325' No. 3, from to
No. 2, from 1835' to 1848' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	325'	Regular	325'			Cell. String
8 5/8"	20#	8rd	Used	1828'	Regular	1828'			Water String
7"	24#		Used	2080'	Guide	2080'			Prod. String

HIDALGO OIL CO. OF CVO WELL

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	380'	None	Obtained formation shut-off		
8 5/8"	1883'	None	Pump & Plug	Heavy	50 sacks Aquagel
7"	2061'	150	" "	"	" "

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot or treated	Depth cleaned out
		20% HCL	500 gals.			
		Crude Oil	36,500 gals.	8-27-58	2061-2080'	
		Ottawa Sand	23,000#			

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2080 feet, and from ..... feet to ..... feet

DATES

Sept. 2, 19 58 Put to producing Sept. 3, 19 58

The production for the first 24 hours was 360 barrels of fluid of which 100% was oil; .....% emulsion; .....% water; and .....% sediment. Gravity, °API .....

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

M. M. Crabb, Driller J. O. Crow, Driller
D. C. Crooke, Driller Ben Porter, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	110	110	Red shale & sand
110	318	208	Red shale
318	350	32	Anhy
350	370	20	Red shale
370	378	8	Anhy
378	380	2	Blk
380	473	93	Anhy & red shale
473	890	417	Salt
890	1180	290	Anhy
1180	1305	125	Anhy & shale
1305	1353	48	Anhy
1353	1359	6	Brown sandy shale
1359	1510	151	Anhy
1510	1540	30	Lime
1540	1590	50	Anhy
1590	1733	143	Anhy & red shale
1733	1835	102	Anhy
1835	1848	13	Red sand
1848	1886	38	Anhy
1886	1909	23	Anhy & shale
1909	1915	6	Anhy
1915	1927	12	Brown lime
1927	1938	11	Anhy & red shale
1938	2002	64	Anhy
2002	2007	5	Brown shale
2007	2067	60	Anhy
2067	2084	17	Sand

FORMATION RECORD—Continued

Budget Bureau No. 42-R355.4

U.S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field Wildcat State New Mexico
Well No. 1 Sec. 14 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N.] [S.] of N. Line and 1980 ft. [E.] [W.] of E. Line of Section 14 Elevation 3729'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed N. J. Neeld
Title District Superintendent

Date February 18, 1959

The summary on this page is for the condition of the well at above date.

Commenced drilling January 13, 19 59 Finished drilling February 6, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2056' to 2076' No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 345' to 352' No. 3, from to
No. 2, from 1880' to 1892' No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4"	32.75#	8rd	Used	383'	Regular	383'			Cell. String
8 5/8"	20#	8rd	Used	1878'	Pacific	1880'			Water String
7"	23#	8rd	Used	2062'	Guide				Prod. String

HIDALGO OIL CO. OF CVO WELL

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	385	None	Obtained formation shut-off		
8 5/8"	1880	None	Pump & Plug	Heavy	" sacks Aquagel
7"	2052	150	" "	"	35 " "

PLUGS AND ADAPTERS

Heaving plug—Material ..... Length ..... Depth set .....
Adapters—Material ..... Size .....

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot or treated	Depth cleaned out
		20% HCL	420 gals.			
		Crude Oil	61,650 gals.	2-7-59	2052-2078'	
		Ottawa Sand	92,600 lbs.			

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet
Cable tools were used from 0 feet to 2078 feet, and from ..... feet to ..... feet

DATES

February 18, 19 59 Put to producing February 13, 19 59

The production for the first 24 hours was 257 barrels of fluid of which 100 % was oil; 0 % emulsion; ..... % water; and ..... % sediment. Gravity, °API 36.0°

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

D. G. Crooke, Driller Ben Porter, Driller
Hollis Gray, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	10	10	Caliche
10	225	215	Red shale
225	345	120	Anhy
345	352	7	Sand
352	387	35	Red shale
387	400	13	Anhy
400	430	30	Red shale
430	450	20	Anhy
450	895	445	Salt
895	935	30	Anhy
935	945	10	Red shale
945	1065	130	Anhy
1065	1197	132	Anhy & shale
1197	1224	27	Lime
1224	1619	395	Anhy
1619	1630	11	Red sand
1630	1820	190	Anhy
1820	1828	8	Red shale
1828	1849	21	Red sand
1849	1878	29	Anhy
1878	1880	2	SLN
1880	1999	119	Anhy
1999	2003	4	Red shale
2003	2045	43	Anhy & shale
2045	2050	5	Anhy & sand
2050	2076	26	Sand
2076	2078	2	Anhy & sand

FORMATION RECORD—Continued

N.M.C.P. MICROGRAPHICS

BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM	TO	TOTAL FEET	FORMATION

CASING RECORD

SIZE CASING	NO. SACKS CEMENT	METHOD USED	MUD GRAVITY	AMOUNT PULLED	PACKERS SET

PLUGS AND ADAPTERS

HEAVING PLUG—MATERIAL	LENGTH	DEPTH SET
ADAPTERS—MATERIAL	SIZE	

SHOOTING OR CHEMICAL TREATMENT RECORD

SIZE SHOT	NUMBER SHOTS	DEPTH SHOT	QUANTITY	DATE	RESULT AFTER TREATMENT

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet.
Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet.

DATES

Put to producing ..... 19..
The production for the first 24 hours was ..... barrels of fluid of which ..... % was oil; ..... % was emulsion; ..... % was water; and ..... % was sediment.
Gravity, Be° or API ..... (corrected to 60° F.)

EMPLOYEES

..... Driller ..... Driller
..... Driller ..... Driller

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION

HISTORY OF OIL OR GAS WELL

Well is of the general type known as ..... Complete history of the well. Please refer to detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was abandoned, or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and results of shooting. If any strings were pulled, give its size, position, and results of pulling. If packers were used, give their depth. If any logs were run or if the well was drilled on material other than cable tools, such as rotary, state kind of material used, position, and results of pumping or bailing.

CASING RECORD

SIZE CASING	WHERE SET	NO. SACKS CEMENT	METHOD USED	MUD GRAVITY	AMOUNT PULLED

INCREMENTAL WATER SHOTS

SIZE CASING	WHERE SET	NO. SACKS CEMENT	METHOD USED	MUD GRAVITY	AMOUNT PULLED

OIL OR GAS SHOTS OR ROCKS

Commenced drilling ..... 19.. Finished drilling ..... 19..
The contractor or driller was ..... whose address is .....
The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.
Signed .....
Date ..... 19.. Title .....

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FOLDER MUST CONNECT A

U.S.G.S. MICROGRAPHICS
BEST AVAILABLE COPY

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 7 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N/S] of S. Line and 660 ft. [E/W] of W. Line of Section 13 Elevation 3730'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed W. F. Heard

Date April 7, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling March 9, 1959 Finished drilling April 4, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2087' to 2106' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 364' to 369' No. 3, from ... to ...
No. 2, from 1848' to 1858' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Used	417'	Regular	420'			Salt String
8 5/8"	28#	8rd	Used	1965'	Regular	1943'			Water String
7"	23#	8rd	Used	2081'	Guide	2081'			Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	420	None	Obtained formation shut-off		
8 5/8"	1943	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2081	150	Pump & Plug		

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2119 feet, and from ... feet to ... feet

DATES

April 7, 1959 Put to producing April 4, 1959

The production for the first 24 hours was 296 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, XXX °API 36.0°

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

M. H. Crabb, Driller E. J. Parish, Driller
J. G. Crow, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	312	312	Red shale
312	330	18	Shale & anhy
330	364	34	Anhy
364	369	5	Sand
369	417	48	Red shale
417	420	3	Anhy
420	450	30	Gyp & red rock
450	463	13	Red shale
463	477	14	Anhy & shale
477	915	438	Salt
915	1095	180	Anhy
1095	1235	140	Anhy & shale
1235	1620	385	Anhy
1620	1645	25	Anhy & shale
1645	1805	160	Anhy & salt
1805	1848	43	Anhy
1848	1858	10	Red sand
1858	2020	162	Anhy
2020	2050	30	Anhy & shale
2050	2065	15	Anhy
2065	2080	15	Anhy & sand
2080	2119	39	Gray sand

FORMATION RECORD—Continued

AT THE END OF CONCRETE DRILLERS WORK, FOR THE STATE

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 9 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 660 ft. [N/S] of N. Line and 1973 ft. [E/W] of W. Line of Section 13 Elevation 3733'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed W. F. Heard

Date June 2, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling April 10, 1959 Finished drilling May 8, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 2071' to 2095' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 368' to 377' No. 3, from ... to ...
No. 2, from 1837' to 1850' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Used	434'	Regular	434'			Salt String
8 5/8"	28#	8rd	Used	1950'	Pattern	1950'			Water String
7"	23#	8rd	Used	2095'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	434'	None	Obtained formation shut-off		
8 5/8"	1950'	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	2095'	150	Pump & Plug		

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2095 feet, and from ... feet to ... feet

DATES

June 2, 1959 Put to producing May 8, 1959

The production for the first 24 hours was 1848 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment.

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

M. H. Crabb, Driller E. J. Parish, Driller
J. G. Crow, Driller ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	15	Caliche
15	290	275	Shale
290	300	10	Gyp
300	310	10	Shale
310	377	67	Anhy
377	450	73	Shale
450	465	15	Anhy
465	905	440	Salt
905	1070	165	Anhy
1070	1305	135	Anhy & shale
1205	1225	20	Anhy & lime
1225	1337	112	Anhy
1337	1345	8	Anhy & lime
1345	1837	492	Anhy
1837	1850	13	Red sand
1850	1929	79	Anhy
1929	1940	11	Anhy & shale
1940	2011	71	Anhy
2011	2023	12	Anhy
2023	2036	3	Sand
2036	2065	39	Anhy
2065	2068	3	Sandy lime
2068	2095	27	Sand

FORMATION RECORD—Continued

AT THE END OF CONCRETE DRILLERS WORK, FOR THE STATE

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 13 Sec. 13 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N/S] of S. Line and 660 ft. [E/W] of W. Line of Section 13 Elevation 3728'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed W. F. Heard

Date August 5, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling June 8, 1959 Finished drilling July 6, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1993' to 2020' No. 4, from ... to ...
No. 2, from ... to ... No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 1766' to 1780' No. 3, from ... to ...
No. 2, from ... to ... No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Used	435'	Regular	435'			Salt String
8 5/8"	28#	8rd	Used	1950'	Pattern	1950'			Water String
7"	23#	8rd	Used	2020'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	400'	None	Obtained formation shut-off		
8 5/8"	1831	None	Pump & Plug	Heavy	35 sacks Aquagel
7"	1993	150			

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		20% HCl	500 gals.	7-7-59	1993-2023'	
		Grade 011	62,000 gals.	"	"	
		Ottawa Sand	130,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2023 feet, and from ... feet to ... feet

DATES

August 6, 1959 Put to producing July 13, 1959

The production for the first 24 hours was 440 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, XXX °API 35.0°

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

D. G. Crooks, Driller J. E. Wilcox, Driller
L. F. Jennings, Driller ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	15	1	Caliche
15	250	235	Sand & shale
250	290	40	Anhy
290	330	40	Shale
330	405	75	Anhy
405	840	435	Salt
840	1000	160	Anhy
1000	1040	40	Red shale
1040	1159	119	Anhy & shale
1159	1280	121	Anhy
1280	1302	22	Lime
1302	1630	328	Anhy
1630	1636	6	Anhy & shale
1636	1766	130	Anhy
1766	1780	14	Red sand
1780	1931	151	Anhy
1931	1940	9	Anhy & shale
1940	1993	53	Anhy
1993	2020	27	Sand
2020	2023	3	Sand & anhy

FORMATION RECORD—Continued

AT THE END OF CONCRETE DRILLERS WORK, FOR THE STATE

Form 9-330

Budget Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 061638
LEASE OR PERMIT TO PROSPECT Brewer

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company General American Oil Co. of Texas Address P. O. Box 416, Loco Hills, N. M.
Lessor or Tract Brewer Field High Lonesome State New Mexico
Well No. 18 Sec. 24 T. 16S R. 29E Meridian N.M.P.M. County Eddy
Location 1980 ft. [N/S] of S. Line and 1980 ft. [E/W] of W. Line of Section 24 Elevation 3721'

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed W. F. Heard

Date September 8, 1959 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling August 6, 1959 Finished drilling August 29, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1302' to 1306' (G) No. 4, from ... to ...
No. 2, from 2037' to 2043' No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from 330' to 524' No. 3, from ... to ...
No. 2, from 1805' to 1815' No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From	Perforated To	Purpose
10 3/4"	32.75#	8rd	Used	367'	Regular	374'			Salt String
8 5/8"	28#	8rd	Used	1804'	Regular	1798'			Water String
7" 20 & 23#		8rd	Used	2047'	Guide				Prod. String
5 1/2"	14#	8rd	Used	2017'	Guide				Prod. String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	374'	None	Obtained formation shut-off		
8 5/8"	1804'	None	Pump & Plug	Heavy	30 sacks Aquagel
7"	2047'	150	" "	"	"
5 1/2"	2017'	200	" "	"	"

PLUGS AND ADAPTERS

Heaving plug—Material ... Length ... Depth set ...
Adapters—Material ... Size ...

STIMULATION RECORD

Size	Shell used	Material used	Quantity	Date	Depth shot	Depth cleaned out
		20% HCl	500 gals.	8-30-59	2019-2047'	
		Grade 011	61,530 gals.	"	"	
		Ottawa Sand	200,000 lbs.	"	"	

TOOLS USED

Rotary tools were used from ... feet to ... feet, and from ... feet to ... feet
Cable tools were used from 0 feet to 2047 feet, and from ... feet to ... feet

DATES

September 8, 1959 Put to producing September 1, 1959

The production for the first 24 hours was 565 barrels of fluid of which 100% was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, XXX °API 35.0°

If gas well, cu. ft. per 24 hours ... Gallons gasoline per 1,000 cu. ft. of gas ...
Rock pressure, lbs. per sq. in. ...

EMPLOYEES

E. W. Farr, Driller Ben Porter, Driller
E. T. Nacey, Driller ..., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	20	20	Caliche
20	300	280	Red shale
300	320	20	Anhy & Red Shale
320	324	4	Sand
324	380	56	Anhy
380	415	35	Anhy & red shale
415	445	30	Anhy
445	892	447	Salt
892	1168	276	Anhy
1168	1191	23	Lime
1191	1197	6	Anhy & lime
1197	1585	388	Anhy
1585	1595	10	Sand
1595	1792	197	Anhy
1792	1822	30	Red sand
1822	1922	100	Anhy
1922	1950	28	Lime & anhy
1950	2022	72	Anhy
2022	2044	22	Sand
2044	2047	3	Sand & anhy

FORMATION RECORD—Continued

AT THE END OF CONCRETE DRILLERS WORK, FOR THE STATE

N.M.O.C.C. MICROGRAPHICS

BEST AVAILABLE COPY

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
3040	3045	5	Sand
3045	3050	5	Shale & sand
3050	3060	10	Sand
3060	3065	5	Shale & sand
3065	3070	5	Sand
3070	3080	10	Shale & sand
3080	3085	5	Sand
3085	3090	5	Shale & sand
3090	3095	5	Sand
3095	3100	5	Shale & sand
3100	3105	5	Sand
3105	3110	5	Shale & sand

GENERAL AMERICAN OIL COMPANY OF TEXAS

HIGH LONESOME AREA

EDDY COUNTY, NEW MEXICO

SCALE

LEGEND

- ● - Oil Well
- ✲ - Gas Well
- ✧ - Dry Hole
- ⊛ - Water Input Well
- ▲ - Proposed Water Input Well
- G● - Queen Fm. Well
- G● - Grayburg Fm. Well
- S● - San Andres Fm. Well

R 29 E

R 30 E

T 16 S

T 16 S

R 29 E

R 30 E

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
Appl. EXHIBIT NO. 1
CASE NO. 2755

N.M.O.C.C. MICROGRAPHICS
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