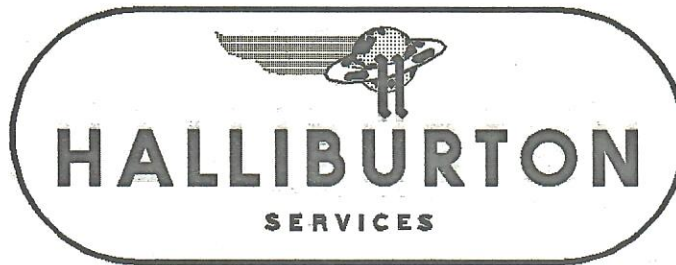




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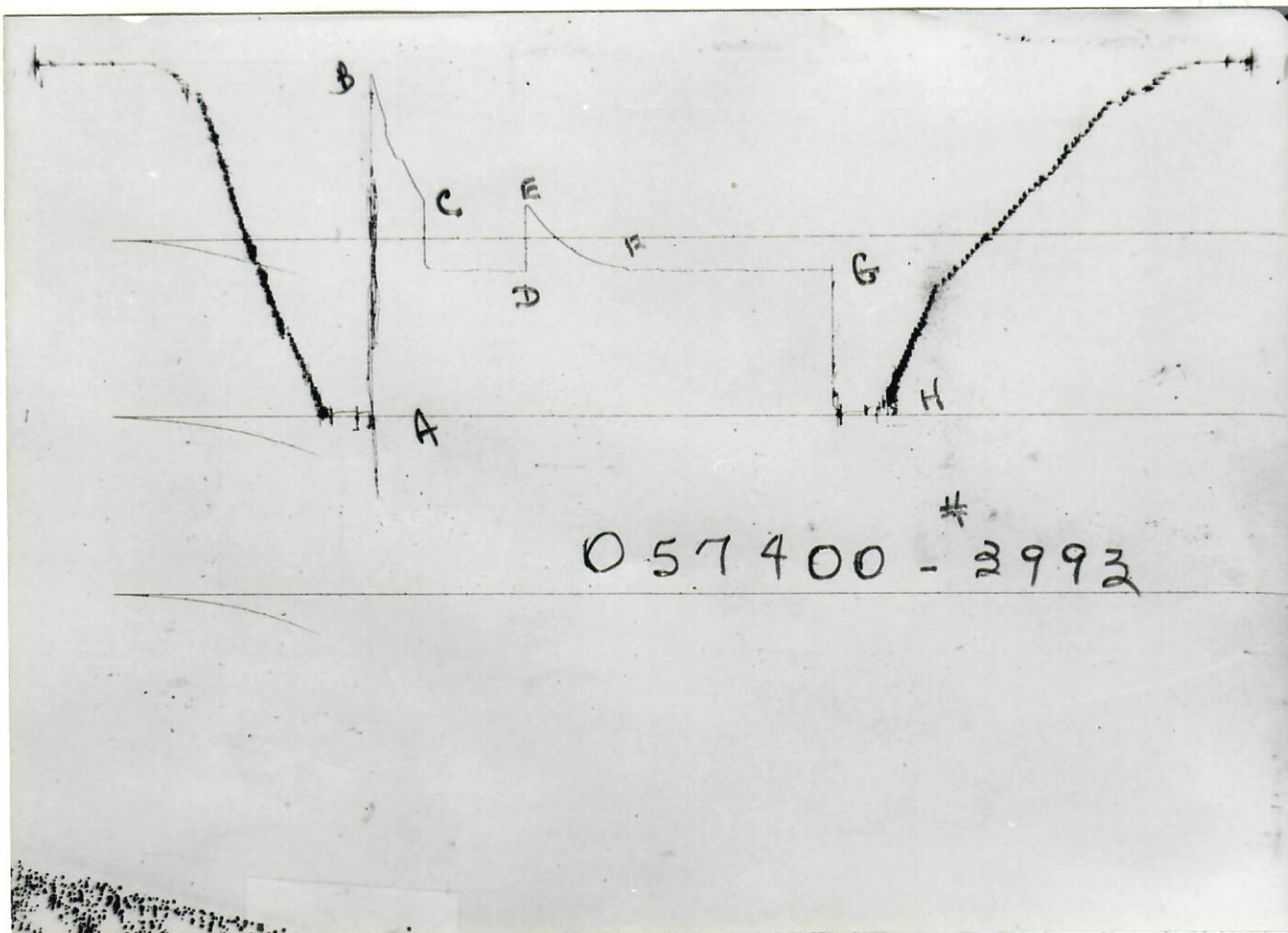
TICKET NO. 05740000

30-DEC-82

LAMAR

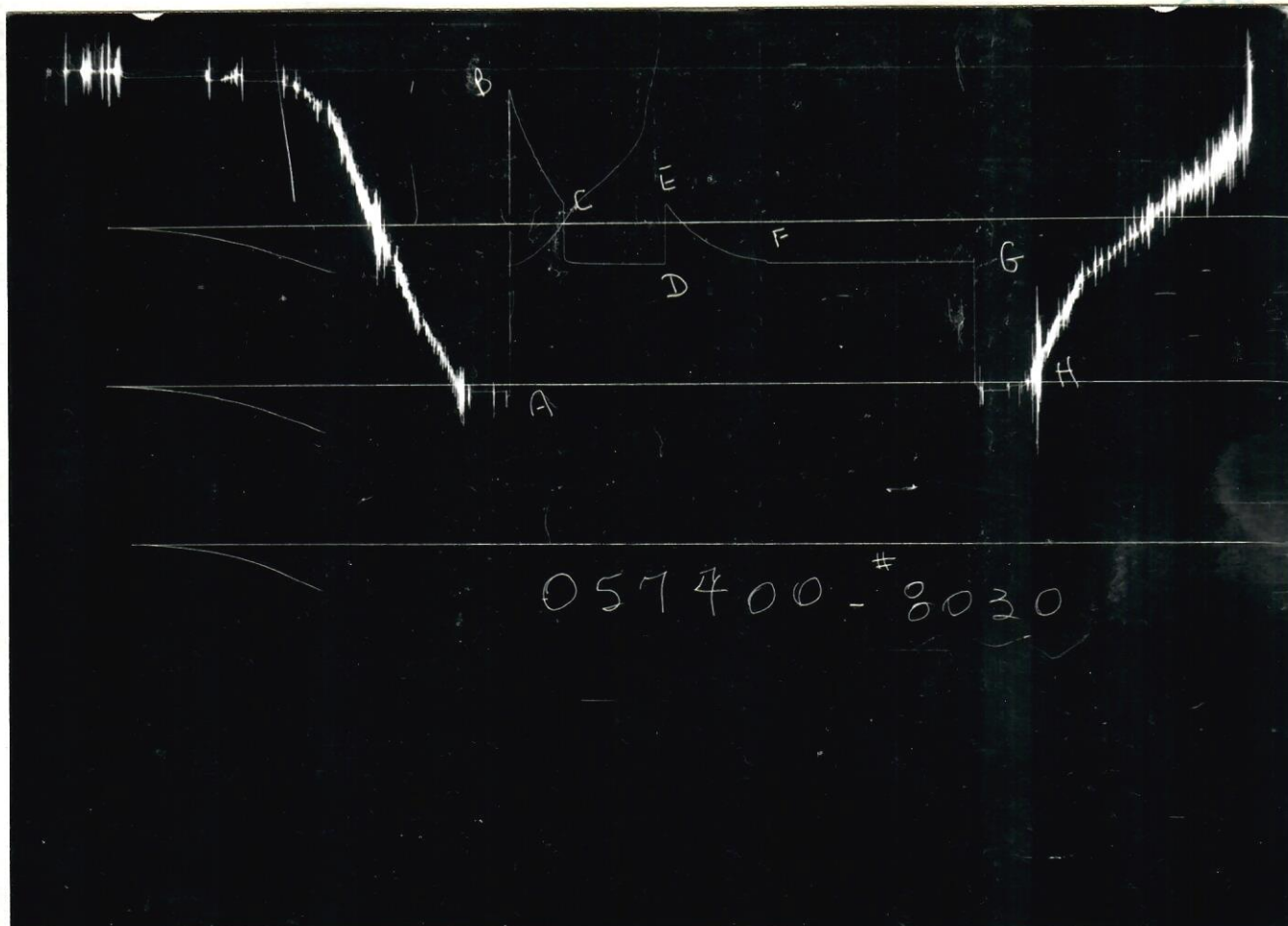
FORMATION TESTING SERVICE REPORT

ARNOLD C	1	1	4023.1 - 4137.1	TEXAS OIL AND GAS CORPORATION
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
LEGAL LOCATION SEC. - TWP. - RNG.	18-19S-47W	FIELD AREA	WILDCAT	COUNTY
				KIOWA
				STATE
				COLORADO NM/NM



GAUGE NO: 3993 DEPTH: 4004.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1957	1972.6			
B	INITIAL FIRST FLOW	57	70.6			
C	FINAL FIRST FLOW	768	781.1	30.0	32.0	F
C	INITIAL FIRST CLOSED-IN	768	781.1			
D	FINAL FIRST CLOSED-IN	1164	1183.2	60.0	59.2	C
E	INITIAL SECOND FLOW	768	815.8			
F	FINAL SECOND FLOW	1164	1165.8	60.0	59.2	F
F	INITIAL SECOND CLOSED-IN	1164	1165.8			
G	FINAL SECOND CLOSED-IN	1164	1180.9	120.0	121.6	C
H	FINAL HYDROSTATIC	1957	1974.3			



GAUGE NO: 8030 DEPTH: 4134.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2035	2038.4			
B	INITIAL FIRST FLOW	96	137.2	30.0	32.0	F
C	FINAL FIRST FLOW	831	860.8			
C	INITIAL FIRST CLOSED-IN	831	860.8	60.0	59.2	C
D	FINAL FIRST CLOSED-IN	1213	1240.2			
E	INITIAL SECOND FLOW	831	875.2	60.0	59.2	F
F	FINAL SECOND FLOW	1213	1227.1			
F	INITIAL SECOND CLOSED-IN	1213	1227.1	120.0	121.6	C
G	FINAL SECOND CLOSED-IN	1213	1238.3			
H	FINAL HYDROSTATIC	2035	2037.3			

EQUIPMENT & HOLE DATA

FORMATION TESTED: MARMATON
NET PAY (ft): 14.0
GROSS TESTED FOOTAGE: 114.0
ALL DEPTHS MEASURED FROM: _____
CASING PERFS. (ft): _____
HOLE OR CASING SIZE (in): 7.875
ELEVATION (ft): 0
TOTAL DEPTH (ft): 4137.0
PACKER DEPTH(S) (ft): 4017, 4023
FINAL SURFACE CHOKE (in): 0.250
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 9.10
MUD VISCOSITY (sec): 40
ESTIMATED HOLE TEMP. (°F): 110
ACTUAL HOLE TEMP. (°F): 150 @ 4132.0 ft

TICKET NUMBER: 05740000

DATE: 12-16-82 TEST NO: 1

TYPE DST: OPEN HOLE

HALLIBURTON CAMP:
LAMAR

TESTER: MR. REPPHUN

WITNESS: FRANK PFANNENSTEIL

DRILLING CONTRACTOR:
KISSINGER # 3

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>TOP- PH 9.0</u>	<u>0.760 @ 56 °F</u>	<u>8073 ppm</u>
<u>MIDDLE-PH 9.0</u>	<u>0.540 @ 56 °F</u>	<u>10596 ppm</u>
<u>BOTTOM - PH 8.5</u>	<u>0.570 @ 58 °F</u>	<u>10092 ppm</u>
<u>PIT - PH 10.0</u>	<u>1.800 @ 56 °F</u>	<u>1513 ppm</u>
<u>SAMPLER</u>	<u>0.470 @ 54 °F</u>	<u>15138 ppm</u>
_____	_____ @ _____ °F	_____ ppm

SAMPLER DATA

Psig AT SURFACE: 40
cu.ft. OF GAS: 0.00
cc OF OIL: 0
cc OF WATER: 2240
cc OF MUD: 0
TOTAL LIQUID cc: 2240

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F
GAS/OIL RATIO (cu.ft. per bbl): _____
GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED:

1800 FEET OF MUDDY SULPHUR WATER
850 FEET OF SULPHUR WATER

MEASURED FROM
TESTER VALVE

REMARKS:

READINGS FROM GAUGE # 3993 ARE HIGHLY QUESTIONABLE DUE TO GAUGE
MALFUNCTIONING.

TICKET NO: 05740000

CLOCK NO: 18765 HOUR: 12



GAUGE NO: 3993

DEPTH: 4004.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	70.6			
2	5.0	218.7	148.1		
3	10.0	435.4	216.7		
4	15.0	539.0	103.6		
5	20.0	571.2	32.2		
6	25.0	667.7	96.5		
7	30.0	750.6	82.9		
C 8	32.0	781.1	30.5		
FIRST CLOSED-IN					
C 1	0.0	781.1			
2	1.0	1146.3	365.3	1.0	1.499
3	2.0	1157.3	376.3	1.9	1.223
4	3.0	1161.7	380.6	2.7	1.068
5	4.0	1164.4	383.3	3.5	0.956
6	5.0	1167.2	386.2	4.3	0.867
7	6.0	1168.6	387.6	5.0	0.802
8	7.0	1169.6	388.6	5.8	0.744
9	8.0	1170.2	389.1	6.4	0.699
10	9.0	1171.5	390.4	7.0	0.657
11	10.0	1172.9	391.8	7.6	0.622
12	15.0	1175.1	394.1	10.2	0.496
13	20.0	1175.7	394.6	12.3	0.416
14	30.0	1170.6	389.5	15.5	0.315
15	40.0	1176.7	395.6	17.8	0.255
16	50.0	1179.7	398.6	19.5	0.215
D 17	59.2	1183.2	402.1	20.8	0.188
SECOND FLOW					
E 1	0.0	815.8			
2	5.0	855.1	39.3		
3	10.0	913.7	58.6		
4	15.0	963.0	49.3		
5	20.0	1003.8	40.8		
6	25.0	1040.8	37.0		
7	30.0	1073.9	33.1		
8	35.0	1104.0	30.1		
9	40.0	1122.9	18.9		
10	45.0	1138.3	15.4		
11	50.0	1149.7	11.4		
12	55.0	1158.3	8.6		
F 13	59.2	1165.8	7.5		
SECOND CLOSED-IN					
F 1	0.0	1165.8			
2	1.0	1171.0	5.2	1.0	1.979

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
3	2.0	1173.4	7.6	2.0	1.667
4	3.0	1174.9	9.0	2.9	1.490
5	4.0	1174.0	8.2	3.8	1.375
6	5.0	1173.0	7.2	4.8	1.283
7	10.0	1171.3	5.5	9.0	1.006
8	15.0	1171.5	5.6	12.9	0.850
9	20.0	1172.7	6.9	16.4	0.746
10	25.0	1178.4	12.6	19.6	0.668
11	30.0	1179.4	13.6	22.6	0.607
12	40.0	1180.2	14.4	27.8	0.516
13	50.0	1178.8	13.0	32.3	0.451
14	60.0	1175.1	9.3	36.2	0.401
15	70.0	1176.4	10.6	39.6	0.362
16	80.0	1181.4	15.5	42.6	0.331
17	90.0	1180.8	15.0	45.3	0.304
18	100.0	1178.5	12.7	47.7	0.281
19	110.0	1175.8	10.0	49.9	0.262
G 20	121.6	1180.9	15.1	52.1	0.243

REMARKS:

TICKET NO: 05740000

CLOCK NO: 26293 HOUR: 12

























GAUGE NO: 8030

DEPTH: 4134.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	137.2			
2	5.0	305.3	168.1		
3	10.0	437.7	132.4		
4	15.0	557.8	120.1		
5	20.0	655.4	97.6		
6	25.0	746.8	91.4		
7	30.0	828.2	81.4		
C 8	32.0	860.8	32.6		
FIRST CLOSED-IN					
C 1	0.0	860.8			
2	1.0	1216.8	356.0	1.0	1.510
3	2.0	1223.8	363.0	1.9	1.222
4	3.0	1228.2	365.4	2.7	1.067
5	4.0	1228.3	367.4	3.6	0.954
6	5.0	1229.2	368.4	4.3	0.868
7	6.0	1230.8	370.0	5.1	0.800
8	7.0	1231.1	370.3	5.8	0.745
9	8.0	1232.1	371.2	6.4	0.698
10	9.0	1232.9	372.0	7.1	0.657
11	10.0	1233.3	372.5	7.6	0.623
12	15.0	1235.6	374.7	10.2	0.495
13	20.0	1236.2	375.4	12.3	0.415
14	30.0	1238.3	377.4	15.5	0.316
15	40.0	1238.7	377.9	17.8	0.255
16	50.0	1239.4	378.5	19.5	0.215
D 17	59.2	1240.2	379.3	20.8	0.188
SECOND FLOW					
E 1	0.0	875.2			
2	5.0	922.6	47.5		
3	10.0	981.8	59.2		
4	15.0	1032.2	50.4		
5	20.0	1072.2	40.0		
6	25.0	1110.6	38.4		
7	30.0	1141.3	30.6		
8	35.0	1166.7	25.4		
9	40.0	1186.0	19.4		
10	45.0	1200.6	14.6		
11	50.0	1211.3	10.6		
12	55.0	1220.0	8.7		
F 13	59.2	1227.1	7.1		
SECOND CLOSED-IN					
F 1	0.0	1227.1			
2	1.0	1235.4	8.3	1.0	1.963

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
3	2.0	1236.5	9.4	2.0	1.669
4	3.0	1236.7	9.5	2.9	1.495
5	4.0	1237.5	10.3	3.8	1.378
6	5.0	1237.5	10.3	4.8	1.281
7	10.0	1237.6	10.5	9.0	1.004
8	15.0	1237.6	10.5	12.9	0.850
9	20.0	1237.6	10.5	16.4	0.746
10	25.0	1237.6	10.5	19.6	0.667
11	30.0	1238.1	11.0	22.6	0.606
12	40.0	1238.1	11.0	27.8	0.516
13	50.0	1238.1	11.0	32.3	0.451
14	60.0	1238.1	11.0	36.2	0.401
15	70.0	1238.1	11.0	39.6	0.362
16	80.0	1238.1	11.0	42.6	0.331
17	90.0	1238.1	11.0	45.3	0.304
18	100.0	1237.5	10.3	47.7	0.281
19	110.0	1237.3	10.2	49.9	0.262
G 20	121.6	1238.3	11.1	52.1	0.243

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH
1		DRILL PIPE.....	4.000	3.340	3588.0
3		DRILL COLLARS.....	6.250	2.250	330.0
5		CROSSOVER.....	5.630	3.820	1.0
50		IMPACT REVERSING SUB.....	5.630	3.820	1.0
5		CROSSOVER.....	5.630	3.820	1.0
3		DRILL COLLARS.....	6.250	2.250	60.0
5		CROSSOVER.....	5.630	3.820	1.0
11		HANDLING SUB & CHOKE ASSEMBLY...	4.500	3.820	5.0
13		DUAL CIP SAMPLER.....	5.000	0.870	7.0
60		HYDROSPRING TESTER.....	5.000	0.750	5.0
80		AP RUNNING CASE.....	5.000	3.060	4.0
15		JAR.....	5.030	1.750	5.0
16		VR SAFETY JOINT.....	5.000	1.000	3.0
70		OPEN HOLE PACKER.....	6.750	1.530	6.0
70		OPEN HOLE PACKER.....	6.750	1.530	6.0
20		FLUSH JOINT ANCHOR.....	5.000	3.400	13.0
5		CROSSOVER.....	5.630	3.820	1.0
3		DRILL COLLARS.....	6.250	2.250	92.0
5		CROSSOVER.....	5.630	3.820	1.0
5		CROSSOVER.....	5.630	3.820	1.0
83		HT-500 TEMPERATURE CASE.....	5.000		1.0
81		BLANKED-OFF RUNNING CASE.....	5.000	3.060	4.0
TOTAL DEPTH					4137.0

EQUIPMENT DATA