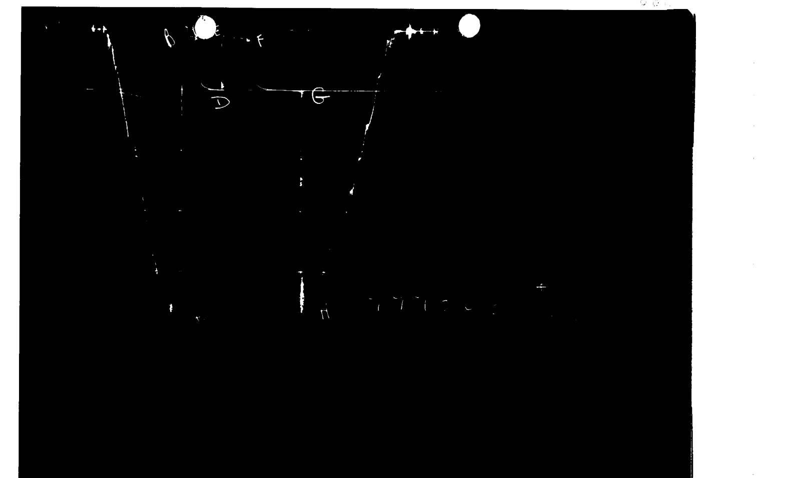
LEGAL LOCATION SEC. - TWP. - RNG.: 7 - 11S - 33E	FIELD AREA: WILDCAT
LEASE NAME: SUNBURST "A" ST. COMM.	WELL NO.: 1
TEST NO.: 1	TESTED INTERVAL: 9425' - 9530'
LEASE OWNER/COMPANY NAME: MANZANO OIL COMPANY	COUNTY: LEA
STATE: NEW MEXICO NM	

HALLIBURTON SERVICES

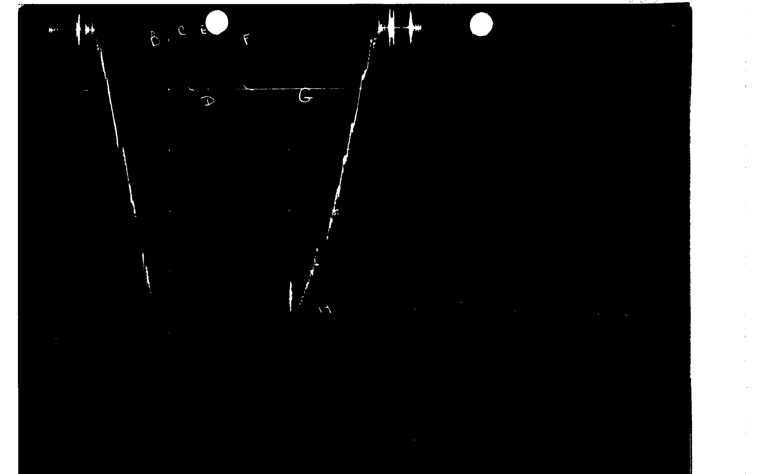
TICKET NO. 99930800
06-DEC-84
HOBBS

FORMATION TESTING SERVICE REPORT



GAUGE NO: 5619 DEPTH: 9409.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE REPORTED	PRESSURE CALCULATED	TIME REPORTED	TIME CALCULATED	TYPE
A	INITIAL HYDROSTATIC	4697	4714.5			
B	INITIAL FIRST FLOW	87	132.0	30.0	29.2	F
C	FINAL FIRST FLOW	131	122.0			
C	INITIAL FIRST CLOSED-IN	131	122.0	61.0	60.7	C
D	FINAL FIRST CLOSED-IN	1043	1010.3			
E	INITIAL SECOND FLOW	109	141.5	60.0	57.8	F
F	FINAL SECOND FLOW	131	145.2			
F	INITIAL SECOND CLOSED-IN	131	145.2	120.0	123.2	C
G	FINAL SECOND CLOSED-IN	1043	1018.1			
H	FINAL HYDROSTATIC	4697	4649.8			



GAUGE NO: 5618 DEPTH: 9527.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE REPORTED	PRESSURE CALCULATED	TIME REPORTED	TIME CALCULATED	TYPE
A	INITIAL HYDROSTATIC	4727	4778.2			
B	INITIAL FIRST FLOW	152	191.8	30.0	29.2	F
C	FINAL FIRST FLOW	174	164.4			
C	INITIAL FIRST CLOSED-IN	174	164.4	61.0	60.7	C
D	FINAL FIRST CLOSED-IN	1083	1053.0			
E	INITIAL SECOND FLOW	109	176.4	60.0	57.8	F
F	FINAL SECOND FLOW	195	185.0			
F	INITIAL SECOND CLOSED-IN	195	185.0	120.0	123.2	C
G	FINAL SECOND CLOSED-IN	1062	1052.6			
H	FINAL HYDROSTATIC	4684	4677.8			

EQUIPMENT & HOLE DATA

FORMATION TESTED: RANGER LAKE	TICKET NUMBER: 99930800
NET PAY (ft): 20.0	DATE: 12-1-84 TEST NO: 1
GROSS TESTED FOOTAGE: 105.0	TYPE DST: OPEN HOLE
ALL DEPTHS MEASURED FROM: KELLY BUSHING	HALLIBURTON CAMP: HOBBS
CASING PERFS. (ft):	TESTER: RAY FULLER
HOLE OR CASING SIZE (in): 7.875	WITNESS: CARROLL BELLAH
ELEVATION (ft): 4326	DRILLING CONTRACTOR: W.E.K. DRILLING COMPANY
TOTAL DEPTH (ft): 9530.0	
PACKER DEPTH(S) (ft): 9420, 9425	
FINAL SURFACE CHOKE (in): 0.250	
BOTTOM HOLE CHOKE (in): 0.750	
MUD WEIGHT (lb/gal): 9.40	
MUD VISCOSITY (sec): 51	
ESTIMATED HOLE TEMP. (°F):	
ACTUAL HOLE TEMP. (°F): 142 @ 9526.0 ft	

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
PIT	0.120 @ 75 °F	40000 ppm
TOP RECOVERY	0.095 @ 75 °F	54000 ppm
TOOL TOP	0.094 @ 75 °F	56000 ppm
SAMPLER	0.100 @ 75 °F	51000 ppm
	@ °F	ppm
	@ °F	ppm

SAMPLER DATA

Psig AT SURFACE: 125
cu.ft. OF GAS: 0.67
cc OF OIL: 0
cc OF WATER: 0
cc OF MUD: 600
TOTAL LIQUID cc: 600

HYDROCARBON PROPERTIES

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

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

440 FEET OF MUD
20 FEET OF SLIGHTLY OIL CUT MUD

MEASURED FROM TESTER VALVE

REMARKS:

REPORTED GROUND LEVEL ELEVATION WAS 4313.5'.

TYPE & SIZE MEASURING DEVICE: FLOOR MANIFOLD TICKET NO: 99930800

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
12-1-84					
0200					ON LOCATION, HOLE PROBLEMS - CONDITIONING THE MUD.
1030					PICKED UP THE TOOLS.
1145					GOING IN THE HOLE WITH TOOLS.
1400					TAGGED UP 9 JOINTS OFF BOTTOM- WORKED TOOLS - COULDN'T GET THROUGH.
1430					PULLED OUT OF THE HOLE. BROKE DOWN TOOLS - GOING IN THE HOLE WITH BIT AND RE-CONDITION THE HOLE.
12-2-84					
1130					ON LOCATION.
1330					MAKING UP TOOLS AND GOING IN THE HOLE.
1625					OPENED TOOL - WEAK BLOW - 1" IN THE BUCKET.
1630	BH	3.5#			INCREASE.
1635	"	9.5#			
1640	1/4"	15#			INCREASE - OPENED ON 1/4" CHOKE.
1645	"	19#			
1650	"	22#			
1655	"	25#			" - CLOSED TOOL. GAS TO THE SURFACE 30 MINUTES AFTER CLOSING.
1756	1/4"	2#			OPENED TOOL WITH A STRONG BLOW.
1801	"	12#			HAD AN INCREASE.
1806	"	14#			
1811	"	17#			
1816	"	19#			
1821	"	21#			
1826	"	23#			
1831	"	25#			
1836	"	26#			
1841	"	28#			
1846	"	29#			
1851	1/4"	30#			
1856	"	31#			CLOSED TOOL.
2056					OPENED BYPASS AND PULLED OUT OF THE HOLE.

TICKET NO: 99930800 CLOCK NO: 16511 HOUR: 24 **HALLIBURTON SERVICES** GAUGE NO: 5619 DEPTH: 9409.0

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	132.0			
2	3.0	109.8	-22.2		
3	6.0	95.9	-13.9		
4	9.0	98.9	3.0		
5	12.0	104.3	5.4		
6	15.0	110.9	6.5		
7	18.0	115.4	4.6		
8	21.0	118.5	3.0		
9	24.0	120.7	2.2		
10	27.0	121.7	1.1		
C 11	29.2	122.0	0.2		
	FIRST CLOSED-IN				
C 1	0.0	122.0			
2	1.0	248.5	126.5	1.0	1.485
3	2.0	323.7	201.7	1.9	1.186
4	3.0	403.3	281.3	2.7	1.028
5	4.0	464.8	342.8	3.5	0.921
6	5.0	528.3	406.3	4.3	0.833
7	6.0	594.3	472.4	5.0	0.766
8	7.0	647.0	525.0	5.7	0.712
9	8.0	688.3	566.3	6.3	0.668
10	9.0	732.4	610.4	6.9	0.628
11	10.0	769.8	647.8	7.5	0.593
12	12.0	837.0	715.0	8.5	0.535
13	14.0	880.4	758.5	9.5	0.489
14	16.0	911.1	789.1	10.4	0.451
15	18.0	931.5	809.6	11.1	0.419
16	20.0	947.6	825.7	11.9	0.391
17	22.0	957.4	835.4	12.5	0.367
18	24.0	963.9	842.0	13.2	0.346
19	26.0	970.7	848.7	13.8	0.327
20	28.0	975.4	853.5	14.3	0.310
21	30.0	980.2	858.3	14.8	0.296
22	35.0	991.3	869.3	15.9	0.263
23	40.0	995.4	873.5	16.9	0.238
24	45.0	999.1	877.2	17.7	0.217
25	50.0	1002.8	880.8	18.5	0.200
26	55.0	1005.6	883.6	19.1	0.185
D 27	60.7	1010.3	888.4	19.7	0.171
	SECOND FLOW				
E 1	0.0	141.5			
2	5.0	112.2	-29.3		
3	10.0	119.8	7.6		
4	15.0	123.9	4.1		
5	20.0	127.0	3.0		
6	25.0	130.7	3.7		

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log\frac{t+\Delta t}{\Delta t}$
	SECOND FLOW - CONTINUED				
7	30.0	134.8	4.1		
8	35.0	135.9	1.1		
9	40.0	135.9	0.0		
10	45.0	138.5	2.6		
11	50.0	143.0	4.6		
12	55.0	144.6	1.5		
F 13	57.8	145.2	0.7		
	SECOND CLOSED-IN				
F 1	0.0	145.2			
2	1.0	217.4	72.2	1.0	1.934
3	2.0	277.2	132.0	2.0	1.638
4	3.0	327.2	182.0	2.9	1.479
5	4.0	380.7	235.4	3.8	1.356
6	5.0	427.4	282.2	4.7	1.265
7	6.0	473.5	328.3	5.6	1.191
8	7.0	529.1	383.9	6.5	1.130
9	8.0	572.8	427.6	7.3	1.077
10	9.0	614.3	469.1	8.2	1.026
11	10.0	644.1	498.9	9.0	0.985
12	12.0	687.6	542.4	10.6	0.916
13	14.0	745.4	600.2	12.1	0.859
14	16.0	795.2	650.0	13.5	0.808
15	18.0	837.8	692.6	14.9	0.766
16	20.0	868.5	723.3	16.2	0.729
17	22.0	894.3	749.1	17.5	0.696
18	24.0	915.2	770.0	18.8	0.665
19	26.0	932.2	787.0	20.0	0.639
20	28.0	945.7	800.4	21.2	0.614
21	30.0	954.8	809.6	22.3	0.591
22	35.0	972.0	826.7	25.0	0.543
23	40.0	981.5	836.3	27.4	0.502
24	45.0	986.7	841.5	29.7	0.468
25	50.0	990.4	845.2	31.8	0.438
26	55.0	994.1	848.9	33.7	0.412
27	60.0	996.7	851.5	35.5	0.389
28	70.0	1000.2	855.0	38.8	0.351
29	80.0	1000.2	855.0	41.7	0.320
30	90.0	1004.1	858.9	44.2	0.294
31	100.0	1007.1	861.9	46.5	0.272
32	110.0	1015.5	870.3	48.6	0.253
33	120.0	1018.5	873.3	50.5	0.237
G 34	123.2	1018.1	872.8	51.0	0.232

REMARKS:

TICKET NO: 99930800 CLOCK NO: 12871 HOUR: 24 **HALLIBURTON SERVICES** GAUGE NO: 5618 DEPTH: 9527.0

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	191.8			
2	3.0	135.8	-56.0		
3	6.0	134.5	-1.3		
4	9.0	140.1	5.6		
5	12.0	145.8	5.6		
6	15.0	151.4	5.6		
7	18.0	155.3	3.9		
8	21.0	159.9	4.6		
9	24.0	162.0	2.2		
10	27.0	164.0	2.0		
C 11	29.2	164.4	0.4		
	FIRST CLOSED-IN				
C 1	0.0	164.4			
2	1.0	269.2	104.8	1.0	1.476
3	2.0	338.8	174.4	1.9	1.196
4	3.0	431.7	267.2	2.7	1.027
5	4.0	513.4	349.0	3.6	0.916
6	5.0	578.7	414.3	4.2	0.838
7	6.0	637.5	473.1	5.0	0.771
8	7.0	697.8	533.4	5.7	0.713
9	8.0	751.4	587.0	6.3	0.667
10	9.0	792.4	628.0	6.9	0.629
11	10.0	830.4	665.9	7.4	0.595
12	12.0	889.2	724.7	8.5	0.535
13	14.0	934.7	770.3	9.5	0.489
14	16.0	961.4	797.0	10.3	0.452
15	18.0	984.2	819.7	11.2	0.418
16	20.0	999.3	834.9	11.9	0.391
17	22.0	1009.6	845.2	12.5	0.368
18	24.0	1017.5	853.1	13.2	0.346
19	26.0	1021.8	857.4	13.8	0.327
20	28.0	1026.1	861.6	14.3	0.311
21	30.0	1029.3	864.8	14.8	0.295
22	35.0	1035.3	870.8	15.9	0.264
23	40.0	1038.9	874.5	16.9	0.238
24	45.0	1043.2	878.7	17.7	0.218
25	50.0	1047.0	882.6	18.4	0.200
26	55.0	1050.4	886.0	19.1	0.185
D 27	60.7	1053.0	888.6	19.7	0.171
	SECOND FLOW				
E 1	0.0	176.4			
2	5.0	146.0	-30.4		
3	10.0	149.5	3.5		
4	15.0	154.4	5.0		
5	20.0	157.7	3.3		
6	25.0	163.6	5.9		

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log\frac{t+\Delta t}{\Delta t}$
	SECOND FLOW - CONTINUED				
7	30.0	167.7	4.1		
8	35.0	170.3	2.6		
9	40.0	174.0	3.7		
10	45.0	177.7	3.7		
11	50.0	180.3	2.6		
12	55.0	183.7	3.5		
F 13	57.8	185.0	1.3		
	SECOND CLOSED-IN				
F 1	0.0	185.0			
2	1.0	239.0	54.0	1.0	1.940
3	2.0	293.9	108.9	1.9	1.657
4	3.0	357.3	172.2	2.9	1.477
5	4.0	405.2	220.2	3.8	1.356
6	5.0	453.8	268.8	4.7	1.263
7	6.0	501.1	316.1	5.6	1.190
8	7.0	545.1	360.1	6.5	1.128
9	8.0	590.7	405.6	7.3	1.074
10	9.0	625.2	440.1	8.2	1.028
11	10.0	661.0	475.9	9.0	0.985
12	12.0	728.0	543.0	10.6	0.916
13	14.0	788.7	603.7	12.0	0.859
14	16.0	839.9	654.9	13.5	0.808
15	18.0	878.1	693.1	14.9	0.765
16	20.0	912.6	727.5	16.3	0.729
17	22.0	937.7	752.7	17.6	0.695
18	24.0	957.0	772.0	18.8	0.666
19	26.0	974.0	788.9	20.0	0.638
20	28.0	985.5	800.4	21.2	0.614
21	30.0	994.8	809.8	22.3	0.591
22	35.0	1010.7	825.7	25.0	0.542
23	40.0	1018.6	833.6	27.4	0.502
24	45.0	1024.1	839.1	29.6	0.468
25	50.0	1028.6	843.6	31.7	0.438
26	55.0	1031.6	846.6	33.7	0.412
27	60.0	1034.6	849.6	35.5	0.389
28	70.0	1040.0	854.9	38.8	0.351
29	80.0	1043.8	858.8	41.7	0.320
30	90.0	1047.6	862.6	44.3	0.294
31	100.0	1051.3	866.2	46.5	0.272
32	110.0	1054.1	869.0	48.6	0.253
33	120.0	1052.8	867.7	50.4	0.237
G 34	123.2	1052.6	867.5	51.0	0.232

REMARKS:

TICKET NO. 99930800

		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE	4.000	3.340	8825.0	
3	DRILL COLLARS	6.500	2.250	492.0	
50	IMPACT REVERSING SUB	5.000	2.250	1.0	9293.0
3	DRILL COLLARS	6.500	2.250	91.0	
5	CROSSOVER	6.000	1.750	1.0	
62	MULTIPLE CIP SAMPLER	5.000	0.750	9.0	9390.0
14	EXTENSION JOINT	5.000	0.870	5.0	
14	EXTENSION JOINT	5.000	0.870	5.0	
80	AP RUNNING CASE	5.000	2.250	5.0	9409.0
15	JAR	5.000	1.750	5.0	
16	VR SAFETY JOINT	5.000	1.000	3.0	
70	OPEN HOLE PACKER	7.000	1.680	5.0	9420.0
70	OPEN HOLE PACKER	7.000	1.680	5.0	9425.0
19	ANCHOR PIPE SAFETY JOINT	5.750	1.500	4.0	
5	CROSSOVER	6.000	2.688	1.0	
3	DRILL COLLARS	6.500	2.250	60.0	
5	CROSSOVER	5.750	2.500	1.0	
20	FLUSH JOINT ANCHOR	5.750	2.870	32.0	
81	BLANKED-OFF RUNNING CASE	5.750		4.0	9527.0
	TOTAL DEPTH				9530.0

EQUIPMENT DATA