HALLIBURTON
SERVICES

TICKET NO. 59931900
DT-270-27
4-1-27

FORMATION TESTING SERVICE REPORT

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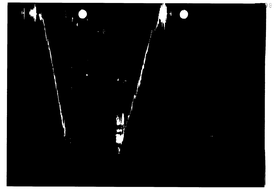
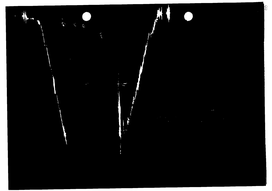


GAUGE NO: 1616 DEPTH: 10187.0 BLANKED OFF: NO HOUR OF CLOCK: 24

KEY	PRESSURE		TIME	
A	INITIAL HYDROSTATIC	5277 5274.4		
B	INITIAL FIRST FLOW	152 120.0		
C	FINAL FIRST FLOW	417 417.5	60.0	0.0
D	INITIAL FIRST CLOSED-IN	417 417.5		
E	FINAL FIRST CLOSED-IN	2079 2094.2	61.0	60.5
F	INITIAL SECOND FLOW	429 437.3		
G	FINAL SECOND FLOW	769 753.7	61.0	61.0
H	INITIAL SECOND CLOSED-IN	769 753.7		
I	FINAL SECOND CLOSED-IN	2949 2946.6	120.0	120.5
J	FINAL HYDROSTATIC	5299 5177.6		



GAUGE NO: 1436 DEPTH: 10187.0 BLANKED OFF: NO HOUR OF CLOCK: 24

KEY	PRESSURE		TIME	
A	INITIAL HYDROSTATIC	5300 5287.3		
B	INITIAL FIRST FLOW	351 305.3		
C	FINAL FIRST FLOW	401 401.5	60.0	0.0
D	INITIAL FIRST CLOSED-IN	401 401.5		
E	FINAL FIRST CLOSED-IN	2079 2092.4	61.0	60.5
F	INITIAL SECOND FLOW	630 630.0		
G	FINAL SECOND FLOW	802 800.5	61.0	61.0
H	INITIAL SECOND CLOSED-IN	859 845.5		
I	FINAL SECOND CLOSED-IN	2944 2945.0	120.0	120.5
J	FINAL HYDROSTATIC	5299 5303.4		

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EQUIPMENT & HOLE DATA

FORMATION TESTED: 2100'SAL
NET PAY (ft): ____
GROSS TESTED FOOTAGE: 245.0
ALL DEPTHS MEASURED FROM: DRILL BUSHING
CASING (OD) (in): ____
HOLE OR CASING SIZE (in): 7.875
ELEVATION (ft): 4320
TOTAL DEPTH (ft): 10470.0
PACKER DEPTH(S) (ft): 10000, 10005
FINAL INTERNAL CHOKE (inch): 0.250
BOTTOM HOLE CHOKE (inch): 0.750
MUD WEIGHT (lb/gal): 9.40
MUD VISCOSITY (sec): 45
ESTIMATED HOLE TEMP. (°F): ____
ACTUAL HOLE TEMP. (°F): 183 @ 10466.0 ft

TICKET NUMBER: 59931900
DATE: 10-11-82 TEST NO: 3
TYPE DST: OPEN HOLE
HALLIBURTON CAMP: ____
TESTER: BAX FULLER
TESTER: JOHN BROWN
WITNESS: C.W. ARZLER
DRILLING CONTRACTOR: ____

FLUID PROPERTIES FOR RECOVERED MUD & WATER

1 oil	8.5 @ 70 °F	1.0	30000
1 gas	0.635 @ 60 °F	0.000	0
1 mud	8.5 @ 70 °F	30000	30000
1 water	8.5 @ 70 °F	0.000	0

SAMPLER DATA

PRESS AT SURFACE: ____
CU. FT. OF GAS: 1.00
cc OF OIL: 50
cc OF WATER: 1.00
cc OF MUD: ____
TOTAL LIQUID cc: 1000

H D

OIL GRAVITY (API): ____
GORSAND RATIO (cu.ft. per bbl): ____
GAS GRAVITY: ____

CUSHION

TYPE: ____ AMOUNT: ____ WEIGHT: ____

RECOVERED:
300 FEET OF HEAVY OIL AND GAS CUT WATER
1000 FEET OF WATER.

PRESSURE GAUGE RECORDER CHART

REMARKS:
CHARTS INDICATE SLIGHT PLUGGING OF THE ANCHOR PIPE PERFORATIONS DURING BOTH FLOW PERIODS.
*MEASURED GROUND LEVEL ELEVATION WAS 4333.5'

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TYPE & SIZE MEASURING DEVICE: HEWLETT PACKARD 2.5" TICKET NO: 59931900

TIME	CHOKE SIZE	SURFACE PRESSURE PSIG	GAS RATE MCF	LIQUID RATE BPD	REMARKS
19:00:00					
2400					ON FORMATION
2500					MOVED TO THE BOTTOM
2510					GOING IN THE HOLE WITH TOOLS.
2600	60				OPENED TOOL WITH A FOUR INCH 6" IN THE BUCKET.
2605	60	.4			GAS INCREASE.
2610	60	2.0			"
2620	60	5.0			"
2630	60	8.0			"
2640	"	15.5			"
2645	60	16.5			HOLD ON INCREASE. CLOSED TOOL.
2650					HOLD GAS TO SURFACE FOR 60 MIN.
2700					CHECK TOOL.
2710					OPEN.
2800					OPENED TOOL WITH A FOUR INCH.
2810					HOLD GAS TO SURFACE. SURFACE PRESSURE.
2900					"
2910					HOLD ON SURFACE.
2920					HOLD AT 10 MIN.
2930					CLOSED TOOL.
2940		10.5			"
2950		9.5			"
3000		9.5			"
3010		9.5			"
3020		9.5			"
3030		9.5			"
3040		9.5			"
3050		9.5			"
3100		9.5			"
3110		9.5			"
3120	3/4	6.0			STABLE.
3130	3/4	6.0			STABLE - CLOSED TOOL.
19:11:04					
21:00					OPENED BYPASS AND PULLED OUT OF THE HOLE.

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TICKET NO: 59931900 HALLIBURTON SERVICES GAUGE NO: 1616
CLOCK NO: 2270 HOUR: 24 DEPTH: 10187.0

KEY	MINUTES	PRESSURE	ΔP	TIME	Log (T+Δt)/Δt
FIRST FLOW					
B	0.0	152.0			
1	5.0	250.0	122.0		
2	10.0	305.0	153.0		
3	15.0	319.0	167.0		
4	20.0	352.0	200.0		
5	25.0	365.0	213.0		
C	30.0	417.5	265.5		
FIRST CLOSED-IN					
1	0.0	417.5			
2	5.0	1205.0	872.5	3.0	0.477
3	10.0	1825.0	1492.5	6.0	0.778
4	15.0	1947.0	1614.5	9.0	0.954
5	20.0	2000.0	1667.5	12.0	1.079
6	25.0	2035.0	1702.5	15.0	1.176
7	30.0	2055.0	1722.5	18.0	1.255
8	35.0	2065.0	1732.5	21.0	1.322
9	40.0	2070.0	1737.5	24.0	1.380
10	45.0	2075.0	1742.5	27.0	1.431
11	50.0	2077.0	1744.5	30.0	1.477
12	55.0	2078.0	1745.5	33.0	1.519
13	60.0	2079.0	1746.5	36.0	1.556
SECOND FLOW					
F	0.0	429.0			
1	5.0	440.0	11.0		
2	10.0	460.0	31.0		
3	15.0	510.0	81.0		
4	20.0	610.0	181.0		
5	25.0	700.0	271.0		
6	30.0	750.0	321.0		
7	35.0	765.0	336.0		
8	40.0	768.0	339.0		
9	45.0	769.0	340.0		
10	50.0	769.0	340.0		
11	55.0	769.0	340.0		
12	60.0	769.0	340.0		
SECOND CLOSED-IN					
F	0.0	769.0			
1	5.0	1000.0	231.0	3.0	0.477
2	10.0	1700.0	931.0	6.0	0.778
3	15.0	2000.0	1231.0	9.0	0.954
4	20.0	2150.0	1381.0	12.0	1.079
5	25.0	2225.0	1456.0	15.0	1.176
6	30.0	2300.0	1531.0	18.0	1.255
7	35.0	2400.0	1631.0	21.0	1.322
8	40.0	2480.0	1711.0	24.0	1.380
9	45.0	2540.0	1771.0	27.0	1.431
10	50.0	2590.0	1821.0	30.0	1.477
11	55.0	2630.0	1861.0	33.0	1.519
12	60.0	2660.0	1891.0	36.0	1.556

REMARKS:

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TICKET NO: 59931900 HALLIBURTON SERVICES GAUGE NO: 1436
CLOCK NO: 2271 HOUR: 24 DEPTH: 10187.0

KEY	MINUTES	PRESSURE	ΔP	TIME	Log (T+Δt)/Δt
FIRST FLOW					
B	0.0	351.0			
1	5.0	516.0	165.0		
2	10.0	575.0	224.0		
3	15.0	591.0	240.0		
4	20.0	619.0	268.0		
5	25.0	630.0	279.0		
C	30.0	401.5	50.5		
FIRST CLOSED-IN					
1	0.0	401.5			
2	5.0	1095.0	693.5	3.0	0.477
3	10.0	1625.0	1223.5	6.0	0.778
4	15.0	1750.0	1348.5	9.0	0.954
5	20.0	1800.0	1398.5	12.0	1.079
6	25.0	1835.0	1433.5	15.0	1.176
7	30.0	1855.0	1453.5	18.0	1.255
8	35.0	1865.0	1463.5	21.0	1.322
9	40.0	1870.0	1468.5	24.0	1.380
10	45.0	1875.0	1473.5	27.0	1.431
11	50.0	1877.0	1475.5	30.0	1.477
12	55.0	1878.0	1476.5	33.0	1.519
13	60.0	1879.0	1477.5	36.0	1.556
SECOND FLOW					
F	0.0	630.0			
1	5.0	640.0	10.0		
2	10.0	660.0	30.0		
3	15.0	710.0	80.0		
4	20.0	810.0	180.0		
5	25.0	900.0	270.0		
6	30.0	950.0	320.0		
7	35.0	965.0	335.0		
8	40.0	968.0	338.0		
9	45.0	969.0	339.0		
10	50.0	969.0	339.0		
11	55.0	969.0	339.0		
12	60.0	969.0	339.0		
SECOND CLOSED-IN					
F	0.0	969.0			
1	5.0	1200.0	231.0	3.0	0.477
2	10.0	1900.0	931.0	6.0	0.778
3	15.0	2200.0	1231.0	9.0	0.954
4	20.0	2350.0	1381.0	12.0	1.079
5	25.0	2425.0	1456.0	15.0	1.176
6	30.0	2500.0	1531.0	18.0	1.255
7	35.0	2600.0	1631.0	21.0	1.322
8	40.0	2680.0	1711.0	24.0	1.380
9	45.0	2740.0	1771.0	27.0	1.431
10	50.0	2790.0	1821.0	30.0	1.477
11	55.0	2830.0	1861.0	33.0	1.519
12	60.0	2860.0	1891.0	36.0	1.556

REMARKS:

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TICKET NO. 59931900

		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE	4.000	3.340		
2	DRILL COLLAR	6.750	2.250		
3	INPACT REDUCING SUB	6.000	2.750	1.0	10210.0
4	DRILL COLLARS	6.750	2.250	155.0	
5	CROSSOVER	6.000	2.250	1.0	
6	MULTIPLE EXP SAMPLER	5.000	0.750	9.0	10240.0
7	EXTENSION JOINT	5.000	0.000	5.0	
8	EXTENSION JOINT	5.000	0.000	5.0	
9	AP RUNNING CASE	5.000	0.250	5.0	10187.0
10	CROSSOVER	5.000	0.750	1.0	
11	DRILL COLLAR	5.000	0.750	5.0	
12	DRILL COLLAR	5.000	0.000	5.0	10192.0
13	DRILL COLLAR	5.000	0.000	5.0	10195.0
14	DRILL COLLAR	5.000	0.000	5.0	10197.0
15	CROSSOVER	6.000	0.000	1.0	
16	CROSSOVER	6.000	0.000	1.0	
17	DRILL JARS	6.000	0.000	5.0	
18	CROSSOVER	6.000	2.500	1.0	
19	DRILL JARS HOLLOW	5.750	2.250	31.0	
20	BLANK-OFF RUNNING CASE	5.750		4.0	10187.0

NEW DEPTH 10187.0

EQUIPMENT DATA