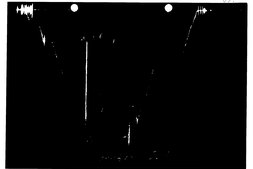
HALLIBURTON SERVICES

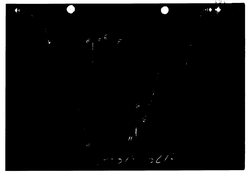
TICKET NO. 99931800
02-JAN-95
HOBBS

FORMATION TESTING SERVICE REPORT



GRUGE NO:.5818 DEPTH:12046.0 BLANKED OFF:.NO HOUR OF CLOCK:.24

ID	DESCRIPTION	PRESSURE MONITOR	PRESSURE BRIDGE	TIME MONITOR	TIME BRIDGE	TYPE
A	INITIAL HYDROSTATIC	5912	5890.0			
B	INITIAL FIRST FLOW	1473	1413.8	30.0	26.5	F
C	FINAL FIRST FLOW	1494	1457.0			
D	INITIAL FIRST CLOSED-IN	1494	1457.0	60.0	58.3	C
E	FINAL FIRST CLOSED-IN	4560	4576.9			
F	INITIAL SECOND FLOW	1494	1465.4	60.0	59.6	F
G	FINAL SECOND FLOW	1559	1540.9			
F	INITIAL SECOND CLOSED-IN	1559	1540.9	120.0	121.4	C
G	FINAL SECOND CLOSED-IN	4569	4575.9			
H	FINAL HYDROSTATIC	5912	5896.7			



GRUGE NO:.5818 DEPTH:12022.0 BLANKED OFF:YES HOUR OF CLOCK:.24

ID	DESCRIPTION	PRESSURE MONITOR	PRESSURE BRIDGE	TIME MONITOR	TIME BRIDGE	TYPE
A	INITIAL HYDROSTATIC	6054	5943.5			
B	INITIAL FIRST FLOW	1480	1477.0	30.0	26.5	F
C	FINAL FIRST FLOW	1532	1504.1			
D	INITIAL FIRST CLOSED-IN	1532	1504.1	60.0	58.3	C
E	FINAL FIRST CLOSED-IN	4619	4615.6			
F	INITIAL SECOND FLOW	1553	1516.7	60.0	59.6	F
G	FINAL SECOND FLOW	1574	1585.3			
F	INITIAL SECOND CLOSED-IN	1574	1585.3	120.0	121.4	C
G	FINAL SECOND CLOSED-IN	4577	4607.3			
H	FINAL HYDROSTATIC	5940	5928.3			

EQUIPMENT & HOLE DATA

FORMATION TESTED: DEVONIAN
NET PAY (FT): 14.0
GROSS TESTED FOOTAGE: 130.0
ALL DEPTHS MEASURED FROM: KELLY BUSHING
CASING PERF'S. (FT): 12046.0
HOLE OR CASING SIZE (IN): 7.875
ELEVATION (FT): 3894
TOTAL DEPTH (FT): 12035.0
PACKER DEPTH(S) (FT): 12041, 12046
FINAL SURFACE CHOKE (IN): 3/4
BOTTOM HOLE CHOKE (IN): 5/32
MUD WEIGHT (lb/gal): 9.3+
MUD VISCOSITY (sec): 38
ESTIMATED HOLE TEMP. (°F):
ACTUAL HOLE TEMP. (°F): 168 @ 12016.0 (-)

TICKET NUMBER: 99931800
DATE: 12-29-94 TEST NO: 1
TYPE DST: OPEN HOLE
HALLIBURTON CREW: HOBBS
TESTER: ROY FULLER, SAM NELSON
WITNESS: FLOYD LOVERY
DRILLING CONTRACTOR: RIG UNKNOWN #100

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
FIT SAMPLE	0.065 @ 78.0°F	3000 ppm
SAMPLER	0.065 @ 78.0°F	3000 ppm
CHAMBER #1-BEF. OUT	0.200 @ 78.0°F	2000 ppm
CHAMBER #2	0.200 @ 78.0°F	2000 ppm
CHAMBER #3	0.200 @ 78.0°F	2000 ppm
TOP OF TOOL	0.200 @ 78.0°F	2000 ppm

SAMPLER DATA

PSig AT SURFACE: 450 cc
cu.ft. OF GAS: 1.62
cc OF OIL: 450
cc OF WATER: 0
cc OF MUD: 850
TOTAL LIQUID cc: 1300

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): 48.0 @ 60°F
GAS/OIL RATIO (cu.ft. per bbl): 181
GAS GRAVITY:

CUSHION DATA

TYPE	AMOUNT	WEIGHT
FRESH WATER (FT)	3000.0	8.34

RECOVERED:

REVERSED OUT 11 BARRELS OF OIL AND 48.5 BARRELS OF WATER CUSHION.

REMARKS:

TOP RECOVERY WAS 1000 48 GRAVITY OIL.

TICKET NO: 99931800

TYPE & SIZE MEASURING DEVICE:		FLOW MANIFOLD			TICKET NO: 99931800
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
12-29-94					
2000					TESTER ON LOCATION
2245					PICKED UP TOOLS
12-30-94					
0100					went in hole with tools
0615	BH				OPENED TOOL WITH 8 WEAK BLOW
0820					WEAK BLOW-2" IN BUCKET
0825					INCREASING - 3" IN BUCKET
0830					INCREASING - 4" IN BUCKET
0835					INCREASING - 5" IN BUCKET
0840					STABLE - 5" IN BUCKET
0845					CLOSED TOOL - 5" IN BUCKET
0940					OPENED TOOL WITH VERY WEAK BLOW
0950					INCREASING - 1" IN BUCKET
0955					INCREASING - 1.5" IN BUCKET
1000					INCREASING - 2" IN BUCKET
1005					INCREASING - 3" IN BUCKET
1010					INCREASING - 4" IN BUCKET
1015					INCREASING - 5" IN BUCKET
1020					GAS TO SURFACE - 5" IN BUCKET
1025					GAS TO SURFACE - REMEASURED
					SAME UNTIL TOOL CLOSED
1045					CLOSED TOOL
1245					OPENED BYPASS AND PULLED OUT OF HOLE
1700					REVERSED OUT - TRIPPED OUT OF HOLE

REMARKS:

TICKET NO: 99931800 HALLIBURTON GRUGE NO: 5819
CLOCK NO: 5819 HOURS: 24 DEPTH: 12046.0

REF	MINUTES	PRESSURE	ΔP	CHK SIZE	TEMP °F
		FIRST FLOW			
B	0.0	1419.8			
	1.0	1421.5	4.3		
	5.0	1428.2	3.7		
	8.0	1431.3	3.1		
	12.0	1433.0	3.0		
	15.0	1434.2	2.9		
	20.0	1435.8	2.8		
	25.0	1452.5	4.5		
	30.0	1473.0	5.4		
C	30.0	1473.0	5.4		
		FIRST CLOSED-IN			
C	0.0	1473.0			
	1.0	2016.0	1015.0	0.0	1.493
	2.0	2351.0	1347.0	1.0	1.148
	3.0	3201.4	1765.4	2.0	0.889
	4.0	3405.1	2012.7	3.0	0.804
	5.0	3551.0	2193.0	4.0	0.751
	6.0	3642.0	2302.4	5.0	0.713
	7.0	3811.2	2534.7	5.5	0.690
	8.0	3911.0	2664.0	6.0	0.667
	9.0	4000.0	2779.0	6.5	0.643
	10.0	4206.0	2991.0	7.0	0.620
	12.0	4311.0	3126.0	7.5	0.597
	14.0	4386.0	3219.0	8.0	0.574
	16.0	4465.0	3311.0	10.0	0.524
	18.0	4521.0	3377.0	12.0	0.493
	20.0	4524.0	3383.0	14.0	0.467
	22.0	4547.0	3406.0	16.0	0.445
	24.0	4557.0	3416.0	18.0	0.424
	26.0	4557.0	3416.0	19.1	0.385
	28.0	4557.0	3416.0	20.1	0.349
	30.0	4557.0	3416.0	21.1	0.279
	35.0	4569.5	3428.7	21.1	0.000
	40.0	4569.5	3428.7	22.1	0.000
	45.0	4569.5	3428.7	23.1	0.000
	50.0	4570.6	3108.7	17.9	0.185
	55.0	4576.0	3116.9	19.0	0.183
D	58.3	4576.9	3118.5	19.0	0.183
		SECOND FLOW			
E	0.0	1465.4			
	5.0	1468.5	3.2		
	8.0	1470.5	3.4		
	10.0	1473.5	3.4		
	12.0	1478.5	4.0		
	15.0	1484.5	4.5		
	18.0	1487.5	4.7		

TICKET NO: 99931800 HALLIBURTON GRUGE NO: 5818
CLOCK NO: 5818 HOURS: 24 DEPTH: 12022.0

REF	MINUTES	PRESSURE	ΔP	CHK SIZE	TEMP °F
		FIRST FLOW			
B	0.0	1477.0			
	1.0	1470.0	-6.1		
	6.0	1478.0	3.3		
	9.0	1479.0	3.5		
	12.0	1481.0	2.9		
	15.0	1482.0	2.6		
	20.0	1483.0	2.4		
	25.0	1498.0	4.5		
	30.0	1504.0	5.3		
C	30.0	1504.0	5.3		
		FIRST CLOSED-IN			
C	0.0	1504.0			
	1.0	2006.0	501.7	1.0	1.493
	2.0	2320.0	1292.7	1.0	1.150
	3.0	3201.0	2217.2	2.0	0.888
	4.0	3389.4	1884.9	3.5	0.804
	5.0	3541.0	2080.0	4.0	0.751
	6.0	3640.0	2206.0	4.5	0.713
	7.0	3803.5	2435.8	5.5	0.681
	8.0	3911.0	2573.0	6.0	0.657
	9.0	4000.0	2692.0	6.5	0.637
	11.0	4245.7	2744.7	7.5	0.561
	12.0	4311.0	2807.0	8.0	0.537
	14.0	4414.0	2909.0	9.0	0.491
	16.0	4510.0	3006.0	10.0	0.464
	18.0	4561.0	3057.0	11.0	0.438
	20.0	4588.0	3082.0	11.8	0.394
	22.0	4591.0	3085.0	12.8	0.361
	24.0	4591.0	3085.0	13.8	0.332
	26.0	4591.0	3085.0	14.8	0.307
	28.0	4591.0	3085.0	15.8	0.285
	30.0	4591.0	3085.0	16.8	0.265
	35.0	4591.0	3085.0	18.8	0.231
	40.0	4591.0	3085.0	19.8	0.217
	45.0	4591.0	3085.0	20.8	0.205
	50.0	4593.9	3135.6	17.9	0.185
	55.0	4593.9	3135.6	18.9	0.183
D	58.5	4593.6	3133.5	18.9	0.183
		SECOND FLOW			
E	0.0	1559.1			
	3.0	1521.4	4.7		
	6.0	1524.0	4.7		
	8.0	1526.0	4.7		
	10.0	1530.0	4.7		
	12.0	1532.0	4.7		
	15.0	1536.0	5.8		
	18.0	1540.0	5.8		

REF	MINUTES	PRESSURE	ΔP	CHK SIZE	TEMP °F
		SECOND FLOW - CONTINUED			
F	21.0	1544.0	5.8		
	24.0	1544.2	5.2		
	27.0	1545.0	5.2		
	30.0	1545.0	5.2		
	35.0	1554.5	5.8		
	40.0	1555.5	4.5		
	45.0	1560.0	4.5		
	50.0	1562.0	4.5		
	55.0	1565.0	4.5		
	60.0	1570.0	3.2		
	65.0	1574.0	3.2		
	70.0	1580.0	3.2		
	75.0	1582.7	2.6		
F	120.0	1585.3	2.6		
		FIRST CLOSED-IN			
C	0.0	1585.3			
	1.0	2362.2	777.0	1.0	1.949
	2.0	2741.4	1330.2	2.0	1.544
	3.0	3000.0	1600.0	3.0	1.306
	4.0	3389.0	1814.0	3.5	1.092
	5.0	3511.0	1925.0	4.0	1.258
	6.0	3600.0	2021.0	4.5	1.127
	7.0	3663.0	2093.0	5.0	1.035
	8.0	3924.0	2336.0	7.0	1.000
	9.0	3911.0	2411.0	7.5	0.963
	10.0	4114.0	2529.0	8.0	0.880
	12.0	4222.0	2637.0	10.0	0.807
	14.0	4311.0	2734.0	11.0	0.762
	16.0	4400.0	2824.0	11.8	0.707
	18.0	4465.0	2889.0	12.8	0.658
	20.0	4485.0	2909.0	13.8	0.621
	22.0	4524.0	2939.0	15.5	0.587
	24.0	4524.0	2939.0	16.5	0.557
	26.0	4531.0	2952.0	17.5	0.531
	28.0	4540.0	2960.0	21.1	0.508
	30.0	4540.0	2960.0	22.1	0.486
	35.0	4540.0	2960.0	24.8	0.436
	40.0	4547.2	2981.0	27.2	0.400
	45.0	4547.2	2981.0	29.5	0.371
	50.0	4549.0	3007.1	30.5	0.432
	55.0	4549.0	3006.4	33.4	0.408
	60.0	4551.0	3011.8	35.2	0.389
	70.0	4559.0	3014.1	38.4	0.349
	80.0	4561.0	3016.4	41.0	0.316
	90.0	4562.0	3017.1	43.7	0.289
	100.0	4564.0	3019.0	46.0	0.267
	110.0	4575.0	3030.0	48.0	0.248
G	120.0	4575.9	3030.8	50.0	0.231

REMARKS:

	O.D.	I.D.	LENGTH	DEPTH
1 DRILL PIPE	5.000	4.276	11852.0	
3 DRILL COLLARS	6.500	2.250	279.0	
50 IMPACT REVERSING SUB	6.125	3.125	1.0	11926.0
DRILL COLLARS	6.500	2.250	90.0	
5 CROSSOVER	6.000	2.125	1.0	
5 CROSSOVER	5.750	2.500	1.0	
62 MULTIPLE CLP SAMPLER	5.000	0.750	5.0	12029.0
14 EXTENSION JOINT	5.000	0.870	5.0	
14 EXTENSION JOINT	5.000	0.870	5.0	
14 EXTENSION JOINT	5.000	0.870	5.0	
80 SP RUNNING CASE	9.500	9.063	5.0	12040.0
JPA	5.000	1.750	5.0	
VR SAFETY JOINT	5.000	1.000	5.0	
72 OPEN HOLE PACKER	7.000	1.530	5.0	12041.0
72 OPEN HOLE PACKER	7.000	1.530	5.0	12046.0
15 ANCHOR PIPE SAFETY JOINT	5.750	1.500	4.0	
5 CROSSOVER	6.563	2.750	1.0	
DRILL COLLARS	6.500	2.250	90.0	
5 CROSSOVER	6.250	2.375	1.0	
80 FLOW JOINT ANCHOR	5.750	2.870	37.0	
81 BLANKED-OFF RUNNING CASE	5.750		4.0	12050.0

TOTAL DEPTH 12035.0

EQUIPMENT DATA