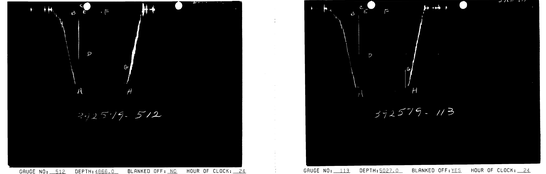
HALLIBURTON SERVICES

TICKET NO. 39257900
30-JUN-86
RETESTS

FORMATION TESTING SERVICE REPORT



GAUGE NO.: 512 DEPTH: 4866.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE REPORTED	PRESSURE CALCULATED	TIME REPORTED	TIME CALCULATED	TYPE
A	INITIAL HYDROSTATIC	2258	2224.9			
B	INITIAL FIRST FLOW	54	54.0	15.0	15.4	F
C	FINAL FIRST FLOW	54	50.9			
D	INITIAL FIRST CLOSED-IN	54	50.9	45.0	43.4	C
D	FINAL FIRST CLOSED-IN	1198	1189.5			
E	INITIAL SECOND FLOW	54	65.1	90.0	91.6	F
F	FINAL SECOND FLOW	81	77.7			
F	INITIAL SECOND CLOSED-IN	81	77.7	150.0	149.7	C
G	FINAL SECOND CLOSED-IN	1733	1735.9			
H	FINAL HYDROSTATIC	2256	2220.4			

GAUGE NO.: 113 DEPTH: 5027.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE REPORTED	PRESSURE CALCULATED	TIME REPORTED	TIME CALCULATED	TYPE
A	INITIAL HYDROSTATIC	2307	2301.7			
B	INITIAL FIRST FLOW	131	117.6	15.0	15.4	F
C	FINAL FIRST FLOW	131	121.7			
D	INITIAL FIRST CLOSED-IN	131	121.7	45.0	43.4	C
D	FINAL FIRST CLOSED-IN	1271	1261.8			
E	INITIAL SECOND FLOW	82	104.5	90.0	91.6	F
F	FINAL SECOND FLOW	131	140.3			
F	INITIAL SECOND CLOSED-IN	131	140.3	150.0	149.7	C
G	FINAL SECOND CLOSED-IN	1795	1798.9			
H	FINAL HYDROSTATIC	2307	2299.2			

EQUIPMENT & HOLE DATA

FORMATION TESTED: MED
NET PAY (FT): 12.0
GROSS TESTED FOOTAGE: 149.0
ALL DEPTHS MEASURED FROM: KELLY BUSHING
CASING PERFS. (FT): ----
HOLE OR CASING SIZE (IN): 7.875
ELEVATION (FT): 2460.0 G.L. 3472.5" K.B.
TOTAL DEPTH (FT): 5050.0
PACKER DEPTH(S) (FT): 4881, 4885
FINAL SURFACE CHOKE (IN): 0.25000
BOTTOM HOLE CHOKE (IN): 0.750
MUD WEIGHT (lb/gal): 8.80
MUD VISCOSITY (sec): 34
ESTIMATED HOLE TEMP. (°F): ----
ACTUAL HOLE TEMP. (°F): 138.8 @ 5031.0 (ft)

TICKET NUMBER: 39257900
DATE: 6-25-86 TEST NO: 2
TYPE DST: OPEN HOLE
HALLIBURTON CAMP: ORTEGA
TESTER: STAN MCKEE
WITNESS: DERRIO SWEENEY
DRILLING CONTRACTOR: GRACE DRILLING

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
MUD PIT	0.150 @ 74 °F	45000 ppm
TOP RECOVERY	0.150 @ 72 °F	45000 ppm
BOTTOM RECOVERY	0.150 @ 72 °F	45000 ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm

SAMPLER DATA

PRESS AT SURFACE: 100.0
cu.ft. OF GAS: 0.468
cc OF OIL:
cc OF WATER:
cc OF MUD:
TOTAL LIQUID cc:

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): @ °F
GRAVITY RATIO (Gas/Ft. per BATT): @ °F
GAS GRAVITY:

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED: 328 FEET OF DRILLING FLUID

REMARKS:

TYPE & SIZE MEASURING DEVICE:	AT POSITIVE CHOKE	TICKET NO: 39257900

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
0-25-86					
1200					ON LOCATION
1400					PICKED UP TOOLS
1500					STARTED TOOLS IN HOLE
1800	.25				OPENED TOOL WITH A WEAK BLOW. 2" IN BUCKET
1805					INCREASED TO BOTTOM OF BUCKET
1810	.25				
1815	.25				CLOSED TOOL
1820	.25	2			OPENED TOOL WITH A GOOD BLOW
1910	3.5				INCREASING PSI THROUGHOUT FLOW
1920	4				
1930	5				
1940	5.5				
1950	6.5				
2000	7				
2010	8				
2020	10				
2030	11				CLOSED TOOL
2100					OPENED BYPASS AND PULLED OUT

TICKET NO: 39257900 HALLIBURTON GAUGE NO: 512
CLOCK NO: 13428 HOUR: 24 DEPTH: 4866.0

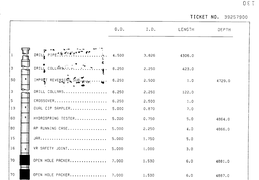
REF	MINUTES	PRESSURE	ΔP	PSI/MIN	REF	MINUTES	PRESSURE	ΔP	PSI/MIN
FIRST FLOW									
B	0.0	54.0							
C	15.4	50.9	-3.1						
FIRST CLOSED-IN									
C	0.0	50.9							
1	1.1	57.5	6.6	6.000					
2	4.3	267.8	214.9	49.977					
3	7.5	549.4	496.5	66.200					
4	10.7	811.8	761.0	71.037					
5	13.9	994.1	943.2	67.886					
6	16.0	1071.8	1020.9	63.806					
7	21.3	1147.6	1096.7	51.510					
8	26.6	1178.0	1127.1	42.381					
9	31.9	1188.3	1137.4	35.668					
10	37.2	1193.2	1142.3	30.718					
11	42.5	1195.5	1144.6	26.918					
12	43.4	1198.5	1147.6	26.455					
SECOND FLOW									
E	0.0	54.0							
1	15.0	68.6	3.5						
2	30.0	72.1	1.5						
3	45.0	73.6	1.5						
4	60.0	74.7	1.5						
5	75.0	76.2	1.5						
6	91.6	77.7	0.8						
SECOND CLOSED-IN									
F	0.0	77.7							
1	8.0	597.8	480.1	9.2	1.145				
2	16.0	1000.4	922.7	57.6	1.000				
3	25.0	944.1	866.4	35.9	0.963				
4	34.0	1037.6	960.2	25.4	0.900				
5	43.0	1101.4	1023.9	20.8	0.837				
6	52.0	1155.0	1077.5	18.1	0.837				
7	62.0	1417.5	1339.9	19.4	0.645				
8	72.0	1529.5	1451.9	20.2	0.645				
9	82.0	1535.5	1461.9	17.8	0.560				
10	92.0	1586.7	1509.1	16.4	0.560				
11	102.0	1633.3	1554.7	15.2	0.560				
12	112.0	1673.5	1596.8	14.3	0.526				
13	122.0	1682.2	1604.5	13.1	0.477				
14	132.0	1704.1	1626.4	12.3	0.443				
15	142.0	1725.5	1642.8	11.5	0.347				
C	149.7	1735.9	1651.6	11.0	0.347				

LEGEND:
C=CLOSED-IN
REMARKS:

TICKET NO: 39257900 HALLIBURTON GAUGE NO: 113
CLOCK NO: 4365 HOUR: 24 DEPTH: 5027.0

REF	MINUTES	PRESSURE	ΔP	PSI/MIN	REF	MINUTES	PRESSURE	ΔP	PSI/MIN
FIRST FLOW									
B	0.0	117.6							
C	15.4	121.7	4.1						
FIRST CLOSED-IN									
C	0.0	121.7							
1	1.1	180.3	61.8	2.5	0.790				
2	4.3	270.3	148.6	4.3	0.693				
3	8.0	365.1	236.0	5.7	0.630				
4	11.2	427.9	298.8	6.7	0.630				
5	15.0	505.0	365.9	7.8	0.599				
6	19.0	560.0	416.3	8.3	0.568				
7	24.3	615.8	467.1	8.6	0.536				
8	29.6	748.7	621.0	9.4	0.536				
9	37.0	831.0	709.3	9.6	0.536				
10	44.4	875.0	753.3	9.5	0.536				
11	51.8	901.0	779.3	9.4	0.536				
12	59.2	1045.9	924.2	10.0	0.536				
13	74.0	1151.3	1029.6	10.0	0.536				
14	92.5	1235.1	1113.4	10.2	0.536				
15	111.0	1281.8	1160.0	10.5	0.536				
SECOND FLOW									
E	0.0	104.5							
1	15.0	98.6	3.5						
2	30.0	101.1	1.5						
3	45.0	102.6	1.5						
4	60.0	104.1	1.5						
5	75.0	105.6	1.5						
6	91.6	107.1	0.8						
SECOND CLOSED-IN									
F	0.0	107.1							
1	8.0	597.8	490.7	9.2	1.145				
2	16.0	1000.4	893.3	55.8	1.000				
3	25.0	944.1	836.8	34.7	0.963				
4	34.0	1037.6	930.3	25.4	0.900				
5	43.0	1101.4	994.1	20.8	0.837				
6	52.0	1155.0	1047.7	18.1	0.837				
7	62.0	1417.5	1310.2	19.4	0.645				
8	72.0	1529.5	1422.2	20.2	0.645				
9	82.0	1535.5	1432.2	17.8	0.560				
10	92.0	1586.7	1479.4	16.4	0.560				
11	102.0	1633.3	1525.0	15.2	0.560				
12	112.0	1673.5	1566.1	14.3	0.526				
13	122.0	1682.2	1574.8	13.1	0.477				
14	132.0	1704.1	1596.7	12.3	0.443				
15	142.0	1724.7	1616.4	10.8	0.347				

REMARKS:



TICKET NO. 39257900

	O.D.	I.D.	LENGTH	DEPTH
1 DRILL PIPE	4.500	3.826	4906.0	
2 DRILL COLLARS	6.250	2.250	420.0	
3 JAR	6.250	2.500	1.0	4326.0
4 DRILL COLLARS	6.250	2.250	122.0	
5 CROSSOVER	6.250	2.500	1.0	
6 DUAL CIP SAMPLER	5.000	0.870	5.0	
7 HYDROSPRING TESTER	5.000	0.750	5.0	4864.0
8 AP RUNNING CASE	5.000	2.250	4.0	4869.0
9 JAR	5.000	1.750	5.0	
10 VR SAFETY JOINT	5.000	1.000	3.0	
11 OPEN HOLE PACKER	7.000	1.500	6.0	4881.0
12 OPEN HOLE PACKER	7.000	1.500	6.0	4887.0
13 ANCHOR PIPE SAFETY JOINT	5.750	1.500	3.0	
14 CROSSOVER	6.250	2.500	1.0	
15 DRILL COLLARS	6.250	2.250	90.0	
16 CROSSOVER	6.250	2.500	1.0	
17 FLOW JOINT ANCHOR	5.750	2.875	40.0	
18 BLANKED-OFF RUNNING CASE	5.750		4.0	5027.0
TOTAL DEPTH				5050.0

EQUIPMENT DATA