

GAUGE NO: 7505 DEPTH: 2934.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1462	1459.2			
B	INITIAL FIRST FLOW	10	12.8	30.0	32.4	F
C	FINAL FIRST FLOW	20	12.8			
C	INITIAL FIRST CLOSED-IN	20	12.8	30.0	27.4	C
D	FINAL FIRST CLOSED-IN	60	51.7			
E	INITIAL SECOND FLOW	20	13.0	30.0	30.5	F
F	FINAL SECOND FLOW	20	13.0			
F	INITIAL SECOND CLOSED-IN	20	13.0	30.0	29.7	C
G	FINAL SECOND CLOSED-IN	60	42.6			
H	FINAL HYDROSTATIC	1462	1439.8			

GAUGE NO: 7504 DEPTH: 3047.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1500	1515.9			
B	INITIAL FIRST FLOW	80	76.3	30.0	32.4	F
C	FINAL FIRST FLOW	80	72.2			
C	INITIAL FIRST CLOSED-IN	80	72.2	30.0	27.4	C
D	FINAL FIRST CLOSED-IN	100	105.8			
E	INITIAL SECOND FLOW	80	78.9	30.0	30.5	F
F	FINAL SECOND FLOW	80	73.1			
F	INITIAL SECOND CLOSED-IN	80	73.1	30.0	29.7	C
G	FINAL SECOND CLOSED-IN	100	98.6			
H	FINAL HYDROSTATIC	1500	1496.0			

## EQUIPMENT & HOLE DATA

FORMATION TESTED: MISSISSIPPI  
 NET PAY (ft): 7.0  
 GROSS TESTED FOOTAGE: 99.0  
 ALL DEPTHS MEASURED FROM: KELLY BUSHING  
 CASING PERFS. (ft): \_\_\_\_\_  
 HOLE OR CASING SIZE (in): 7.875  
 ELEVATION (ft): 0  
 TOTAL DEPTH (ft): 3051.0  
 PACKER DEPTH(S) (ft): 2942, 2952  
 FINAL SURFACE CHOKE (in): 1.000  
 BOTTOM HOLE CHOKE (in): 0.750  
 MUD WEIGHT (lb/gal): 9.40  
 MUD VISCOSITY (sec): 45  
 ESTIMATED HOLE TEMP. (°F): \_\_\_\_\_  
 ACTUAL HOLE TEMP. (°F): 108 @ 3045.0 ft

TICKET NUMBER: 30852400  
 DATE: 12-12-82 TEST NO: 1  
 TYPE DST: OPEN HOLE  
 HALLIBURTON CAMP:  
EL DORADO  
 TESTER: MR. ROOK  
 WITNESS: \_\_\_\_\_  
 DRILLING CONTRACTOR:  
BLACKSTONE # 3

### FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES	
_____	_____ @ _____ °F	_____ ppm	
_____	_____ @ _____ °F	_____ ppm	
_____	_____ @ _____ °F	_____ ppm	
_____	_____ @ _____ °F	_____ ppm	
_____	_____ @ _____ °F	_____ ppm	
_____	_____ @ _____ °F	_____ ppm	

### SAMPLER DATA

Psig AT SURFACE: \_\_\_\_\_  
 cu.ft. OF GAS: \_\_\_\_\_  
 cc OF OIL: \_\_\_\_\_  
 cc OF WATER: \_\_\_\_\_  
 cc OF MUD: \_\_\_\_\_  
 TOTAL LIQUID cc: \_\_\_\_\_

### HYDROCARBON PROPERTIES

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

### CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

### RECOVERED:

5 FEET OF MUD

MEASURED FROM  
TESTER VALVE

### REMARKS:

CHARTS INDICATE SLIGHT PLUGGING OF ANCHOR PERFORATIONS OCCURRED DURING BOTH FLOW PERIODS.





TICKET NO: 30852400

CLOCK NO: 2803 HOUR: 12



GAUGE NO: 7504

DEPTH: 3047.0

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	76.3			
2	5.0	76.1	-0.2		
3	10.0	77.0	0.9		
4	15.0	71.5	-5.4		
5	20.0	73.9	2.4		
6	25.0	76.2	2.2		
7	30.0	72.8	-3.3		
C 8	32.4	72.2	-0.6		
FIRST CLOSED-IN					
C 1	0.0	72.2			
2	3.0	80.7	8.4	2.7	1.073
3	6.0	87.7	15.4	5.1	0.805
4	9.0	90.4	18.1	7.0	0.662
5	12.0	93.7	21.4	8.7	0.569
6	15.0	96.1	23.8	10.3	0.499
7	18.0	98.8	26.6	11.6	0.448
8	21.0	101.1	28.9	12.7	0.406
9	24.0	103.6	31.4	13.8	0.371
D 10	27.4	105.8	33.6	14.9	0.339
SECOND FLOW					
E 1	0.0	78.9			
2	5.0	76.8	-2.1		
3	10.0	73.6	-3.1		
4	15.0	73.6	0.0		
5	20.0	73.6	0.0		
6	25.0	73.6	0.0		
F 7	30.5	73.1	-0.5		
SECOND CLOSED-IN					
F 1	0.0	73.1			
2	3.0	79.6	6.4	2.9	1.335
3	6.0	84.9	11.7	5.5	1.060
4	9.0	88.1	14.9	7.9	0.903
5	12.0	91.0	17.8	10.1	0.794
6	15.0	92.2	19.0	12.1	0.715
7	18.0	93.4	20.2	14.0	0.653
8	21.0	94.8	21.6	15.8	0.601
9	24.0	96.6	23.4	17.4	0.559
10	27.0	98.1	24.9	18.9	0.522
G 11	29.7	98.6	25.5	20.2	0.494

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
(Empty table)					

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.640	2858.0	
50		IMPACT REVERSING SUB.....	5.000	2.120	1.0	2858.0
1		DRILL PIPE.....	4.500	3.640	60.0	
11		HANDLING SUB & CHOKE ASSEMBLY...	5.750	2.250	5.0	
12		DUAL CIP VALVE.....	5.030	0.870	5.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	2929.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	2934.0
16		VR SAFETY JOINT.....	5.000	1.000	4.0	
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	2942.0
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	2952.0
20		FLUSH JOINT ANCHOR.....	5.000	2.370	27.0	
5		CROSSOVER.....	5.875	2.375	1.0	
1		DRILL PIPE.....	4.500	3.640	62.0	
5		CROSSOVER.....	5.875	2.375	1.0	
83		HT-500 TEMPERATURE CASE.....	5.000		2.0	3045.0
81		BLANKED-OFF RUNNING CASE.....	5.000		4.0	3047.0
TOTAL DEPTH					3051.0	

EQUIPMENT DATA

# TEMPERATURE RECORDER CHART



**10° each circle**

Indicated Flow Capacity  $kh = \frac{1637 Q_g T}{m}$  md-ft

Average Effective Permeability  $k = \frac{kh}{h}$  md

Skin Factor  $S = 1.151 \left[ \frac{m(P^*) - m(P_f)}{m} - \text{LOG} \frac{kt}{\phi \mu c_f r_w^2} + 3.23 \right]$  —

Damage Ratio  $DR = \frac{m(P^*) - m(P_f)}{m(P^*) - m(P_f) - 0.87 mS}$  —

Indicated Flow Rate (Maximum)  $AOF_1 = \frac{Q_g m(P^*)}{m(P^*) - m(P_f)}$  MCFD

Indicated Flow Rate (Minimum)  $AOF_2 = Q_g \sqrt{\frac{m(P^*)}{m(P^*) - m(P_f)}}$  MCFD

Approx. Radius of Investigation  $r_i = 0.032 \sqrt{\frac{kt}{\phi \mu c_t}}$  ft