

# HALLIBURTON SERVICES

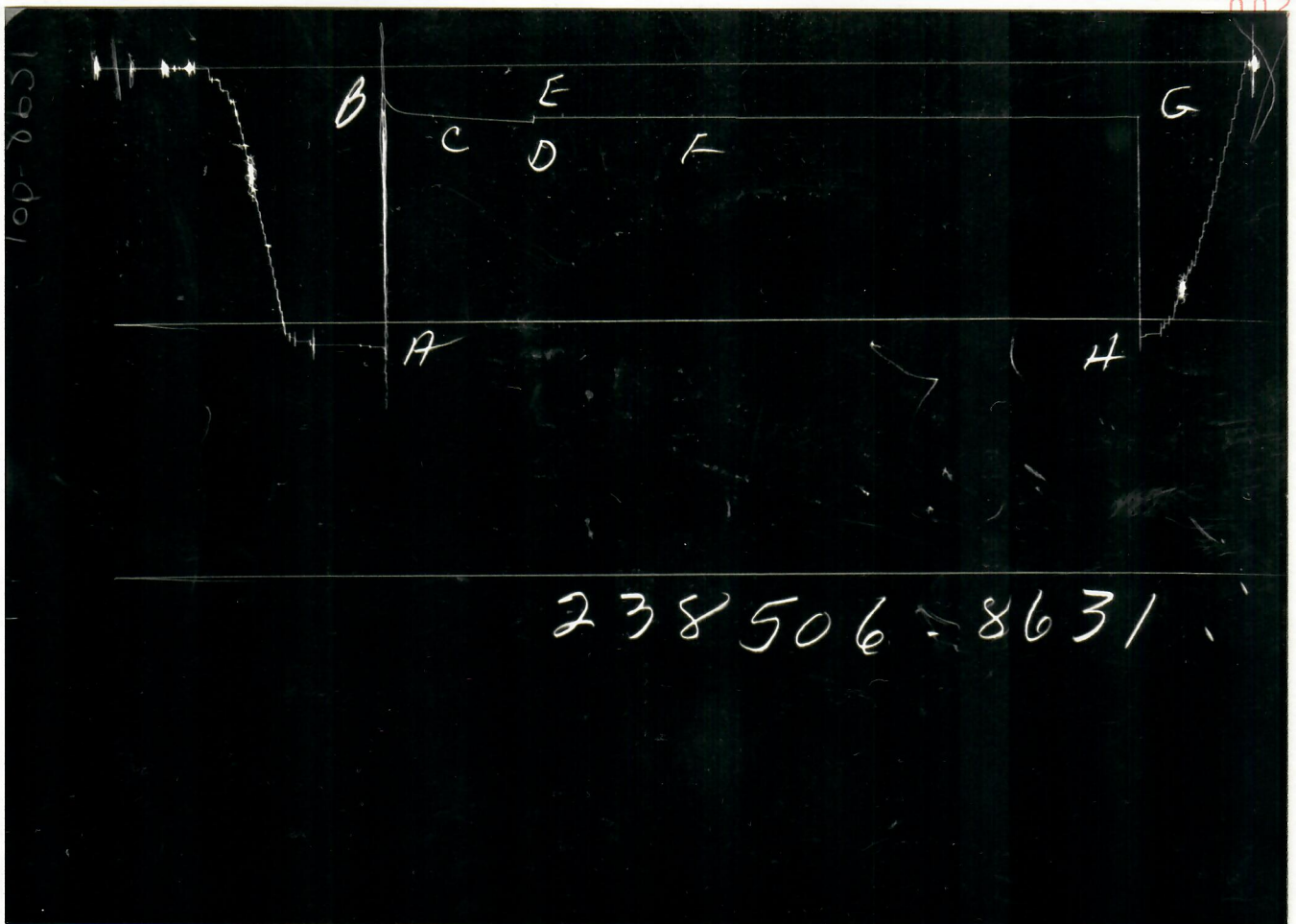
TICKET NO. 23850600  
13-JUL-87  
ROCK SPRINGS

## FORMATION TESTING SERVICE REPORT



00221436

MALLON MALLTRIP		18-6	2	2349.4 - 2604.0	MALLON OIL COMPANY	
LEASE NAME		WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME	
LEGAL LOCATION	18-7N-86W	FIELD AREA	WILDCAT	COUNTY	ROUTT	STATE COLORADO DR
SEC. - TWP. - RNG.						

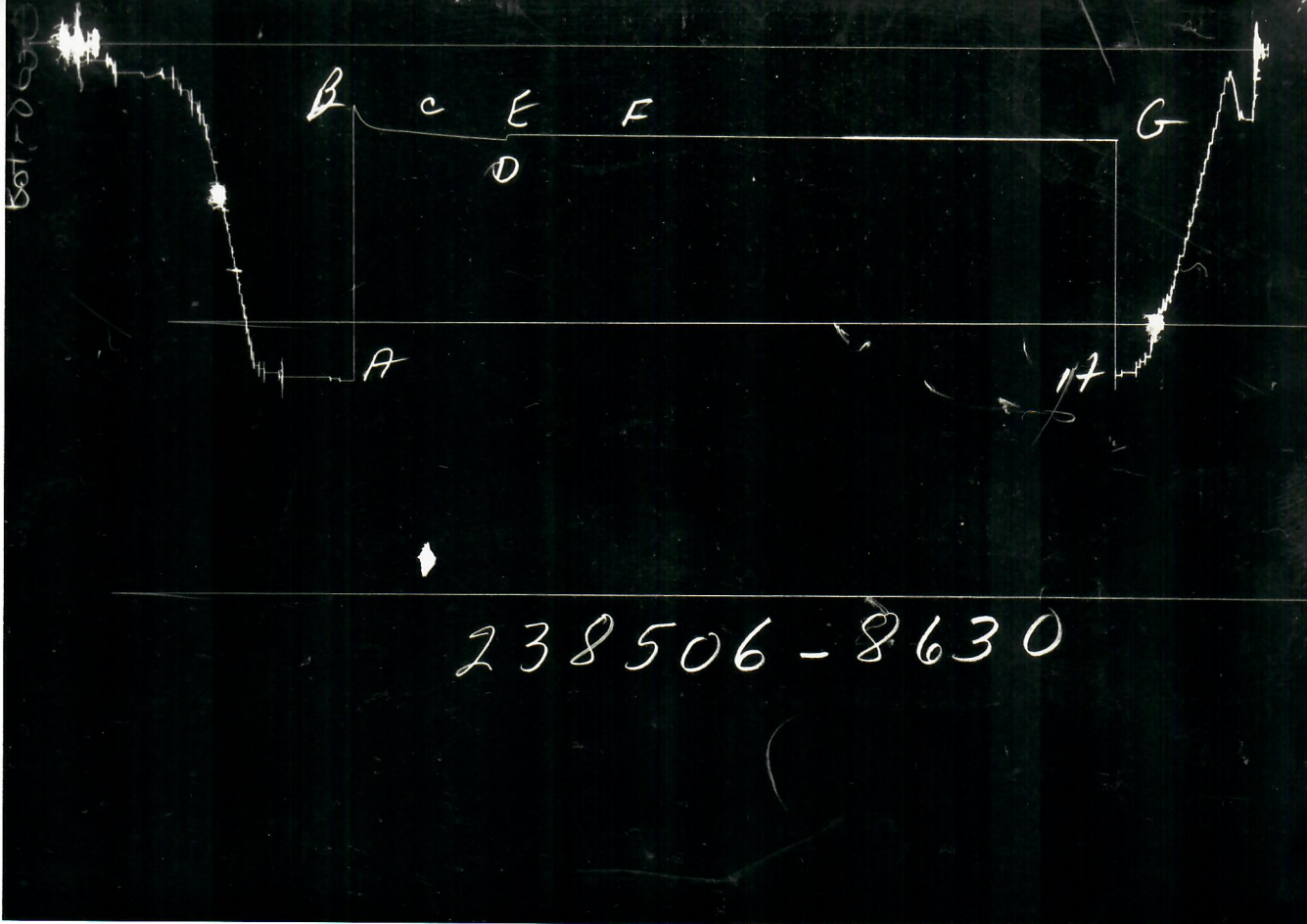


GAUGE NO: 8631 DEPTH: 2331.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1102	1099.9			
B	INITIAL FIRST FLOW		102.8			
C	FINAL FIRST FLOW	189	194.3	30.0	30.0	F
C	INITIAL FIRST CLOSED-IN	189	194.3			
D	FINAL FIRST CLOSED-IN	238	221.5	60.0	60.2	C
E	INITIAL SECOND FLOW	198	205.8			
F	FINAL SECOND FLOW	208	207.4	120.0	119.7	F
F	INITIAL SECOND CLOSED-IN	208	207.4			
G	FINAL SECOND CLOSED-IN	218	218.3	240.0	240.1	C
H	FINAL HYDROSTATIC	1141	1067.4			

BEST IMAGE  
AVAILABLE





GAUGE NO: 8630 DEPTH: 2601.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1209	1216.0			
B	INITIAL FIRST FLOW	215	212.6			
C	FINAL FIRST FLOW	309	303.9	30.0	30.0	F
C	INITIAL FIRST CLOSED-IN	309	303.9			
D	FINAL FIRST CLOSED-IN	337	334.5	60.0	60.2	C
E	INITIAL SECOND FLOW	318	330.6			
F	FINAL SECOND FLOW	318	320.4	120.0	119.7	F
F	INITIAL SECOND CLOSED-IN	318	320.4			
G	FINAL SECOND CLOSED-IN	327	330.0	240.0	240.1	C
H	FINAL HYDROSTATIC	1181	1188.7			

BEST IMAGE  
AVAILABLE



## EQUIPMENT &amp; HOLE DATA

FORMATION TESTED: NIOBRARA  
 NET PAY (ft): 120.0  
 GROSS TESTED FOOTAGE: 254.6  
 ALL DEPTHS MEASURED FROM: KELLY BUSHING  
 CASING PERFS. (ft): \_\_\_\_\_  
 HOLE OR CASING SIZE (in): 8.750  
 ELEVATION (ft): 7752.0  
 TOTAL DEPTH (ft): 2604.0  
 PACKER DEPTH(S) (ft): 2344. 2349  
 FINAL SURFACE CHOKE (in): \_\_\_\_\_  
 BOTTOM HOLE CHOKE (in): 0.750  
 MUD WEIGHT (lb/gal): 9.00  
 MUD VISCOSITY (sec): 36  
 ESTIMATED HOLE TEMP. (°F): 100  
 ACTUAL HOLE TEMP. (°F): 102 @ 2600.0 ft

TICKET NUMBER: 23850600DATE: 7-6-87 TEST NO: 2TYPE DST: OPEN HOLEHALLIBURTON CAMP:  
ROCK SPRINGSTESTER: P. SPRAGUEWITNESS: TOM POPPDRILLING CONTRACTOR:  
SHELBY #11FLUID PROPERTIES FOR  
RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
MUD PIT	<u>0.200 @ 68 °F</u>	<u>35000</u> ppm
FLUID TOP	<u>0.200 @ 68 °F</u>	<u>36000</u> ppm
SAMPLE CHAMBER	<u>0.200 @ 68 °F</u>	<u>36000</u> ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

## SAMPLER DATA

Psig AT SURFACE: 10.0  
 cu.ft. OF GAS: \_\_\_\_\_  
 cc OF OIL: \_\_\_\_\_  
 cc OF WATER: \_\_\_\_\_  
 cc OF MUD: 2200.0  
 TOTAL LIQUID cc: 2200.0

## HYDROCARBON PROPERTIES

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

## CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

## RECOVERED:

427' OF DRILLING MUD, SLIGHT GAS CUT

MEASURED FROM  
TESTER VALVE

## REMARKS:

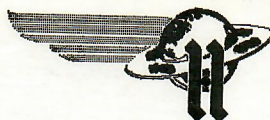






TICKET NO: 23850600

CLOCK NO: 6776 HOUR: 12



GAUGE NO: 8631

DEPTH: 2331.0

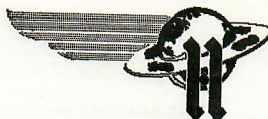
REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW											
B	1	0.0	102.8								
	2	5.0	157.8	55.0							
	3	10.0	178.6	20.8							
	4	15.0	185.8	7.1							
	5	20.0	189.0	3.3							
	6	25.0	191.6	2.6							
C	7	30.0	194.3	2.7							
FIRST CLOSED-IN											
C	1	0.0	194.3								
	2	4.0	196.1	1.8	3.5	0.929					
	3	8.0	198.9	4.7	6.3	0.677					
	4	12.0	201.4	7.1	8.6	0.544					
	5	16.0	203.9	9.6	10.4	0.458					
	6	20.0	205.6	11.3	12.0	0.398					
	7	24.0	207.4	13.1	13.3	0.351					
	8	28.0	208.7	14.4	14.5	0.316					
	9	32.0	211.0	16.7	15.5	0.287					
	10	36.0	212.8	18.6	16.3	0.263					
	11	40.0	214.8	20.5	17.1	0.243					
	12	44.0	216.3	22.0	17.8	0.226					
	13	48.0	218.2	23.9	18.4	0.211					
	14	52.0	219.6	25.3	19.0	0.198					
	15	56.0	221.3	27.0	19.5	0.186					
D	16	60.2	221.5	27.2	20.0	0.175					
SECOND FLOW											
E	1	0.0	205.8								
	2	20.0	204.9	-0.9							
	3	40.0	205.4	0.5							
	4	60.0	205.9	0.5							
	5	80.0	206.8	0.9							
	6	100.0	207.6	0.8							
F	7	119.7	207.4	-0.2							
SECOND CLOSED-IN											
F	1	0.0	207.4								
G	2	240.1	218.3	10.9	92.2	0.210					

REMARKS:



TICKET NO: 23850600

CLOCK NO: 2802 HOUR: 12



GAUGE NO: 8630

DEPTH: 2601.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
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## FIRST FLOW

B	1	0.0	212.6		
	2	5.0	264.2	51.5	
	3	10.0	289.2	25.1	
	4	15.0	297.2	8.0	
	5	20.0	301.0	3.8	
	6	25.0	303.4	2.3	
C	7	30.0	303.9	0.6	

## FIRST CLOSED-IN

C	1	0.0	303.9			
	2	4.0	307.5	3.6	3.5	0.932
	3	8.0	310.8	6.9	6.3	0.677
	4	12.0	313.3	9.4	8.6	0.544
	5	16.0	315.9	12.0	10.4	0.458
	6	20.0	318.0	14.1	12.0	0.398
	7	24.0	320.2	16.3	13.3	0.351
	8	28.0	322.2	18.2	14.5	0.316
	9	32.0	323.9	20.0	15.5	0.287
	10	36.0	325.9	22.0	16.4	0.263
	11	40.0	327.7	23.8	17.1	0.243
	12	44.0	329.5	25.6	17.8	0.225
	13	48.0	330.9	27.0	18.5	0.210
	14	52.0	332.3	28.4	19.0	0.198
	15	56.0	333.7	29.7	19.5	0.186
D	16	60.2	334.5	30.6	20.0	0.175

## SECOND FLOW

E	1	0.0	330.6			
	2	20.0	316.9	-13.7		
	3	40.0	317.8	0.9		
	4	60.0	318.7	0.8		
	5	80.0	319.7	1.0		
	6	100.0	319.7	0.0		
F	7	119.7	320.4	0.7		

## SECOND CLOSED-IN





















F	1	0.0	320.4			
G	2	240.1	330.0	9.6	92.2	0.210

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
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REMARKS:



TICKET NO. 23850600

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	2044.7	
3		DRILL COLLARS.....	6.000	2.375	180.7	
50		IMPACT REVERSING SUB.....	6.250	2.875	1.4	2225.4
3		DRILL COLLARS.....	6.000	2.375	91.4	
5		CROSSOVER.....	6.250	2.875	1.1	
13		DUAL CIP SAMPLER.....	5.000	0.750	5.8	
50		HYDROSPRING TESTER.....	5.000	0.750	5.0	2329.1
80		AP RUNNING CASE.....	5.000	2.250	4.1	2331.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	2.7	
70		OPEN HOLE PACKER.....	8.000	1.530	5.2	2344.2
70		OPEN HOLE PACKER.....	8.000	1.530	5.2	2349.4
5		CROSSOVER.....	5.875	2.375	1.5	
5		CROSSOVER.....	6.125	2.250	1.1	
3		DRILL COLLARS.....	6.000	2.375	179.9	
5		CROSSOVER.....	6.000	2.750	0.8	
5		CROSSOVER.....	5.750	2.250	1.2	
20		FLUSH JOINT ANCHDR.....	5.000	2.370	59.0	
97		EMPTY RUNNING CASE.....	5.000		4.1	
81		BLANKED-OFF RUNNING CASE.....	5.000		4.1	2601.0
TOTAL DEPTH					2604.0	

EQUIPMENT DATA