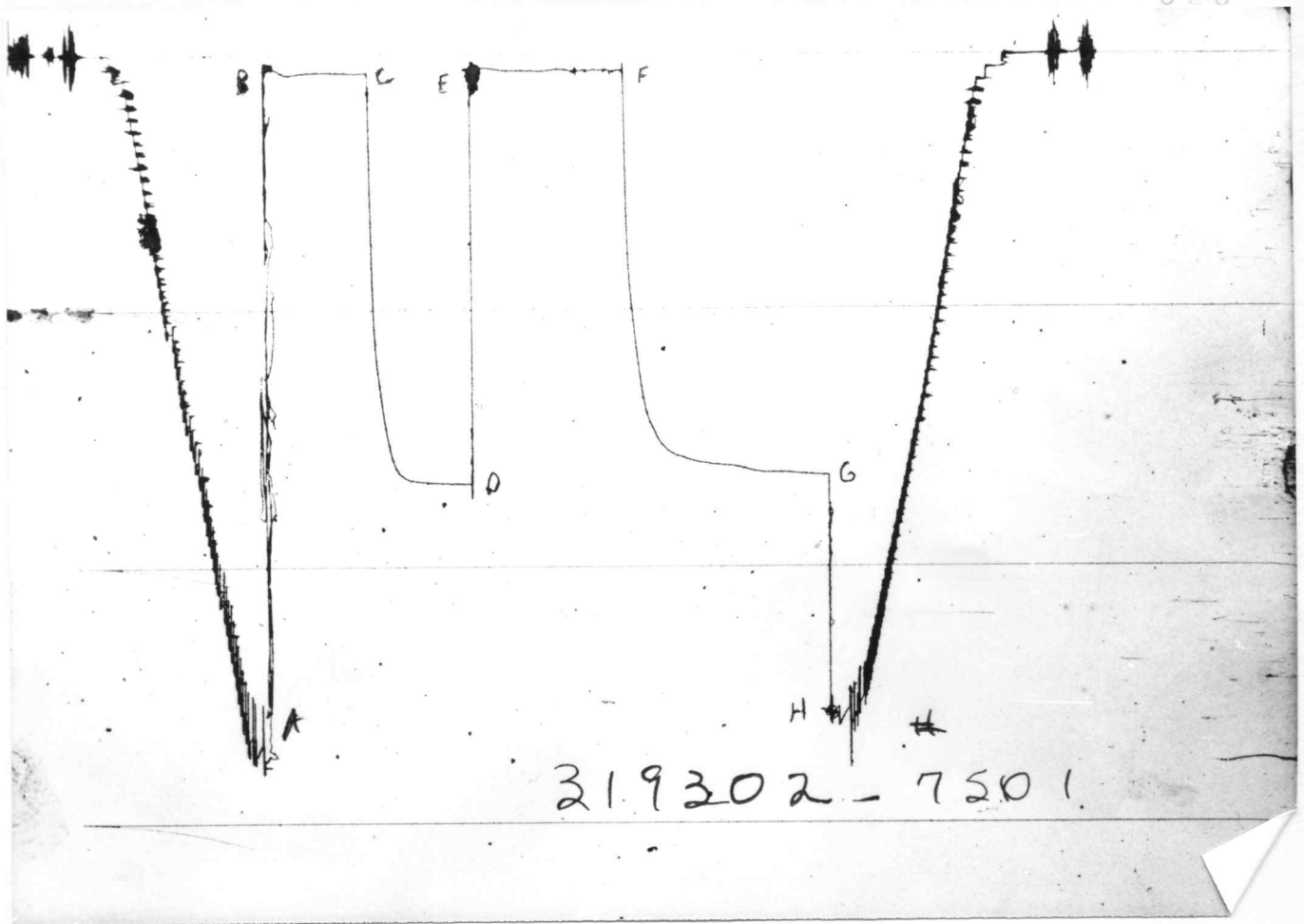


LEASE NAME	PLTON UNRUH	WELL NO.	3	TEST NO.	3	TESTED INTERVAL	5049.1 - 5072.1	LEASE OWNER/COMPANY NAME	THE MAURICE L. BROWN COMPANY
LEGAL LOCATION	SEC. - TWP. - RNG.		26-30-18	FIELD AREA		COUNTY	IOWA	STATE	KANSAS
									BM/IC



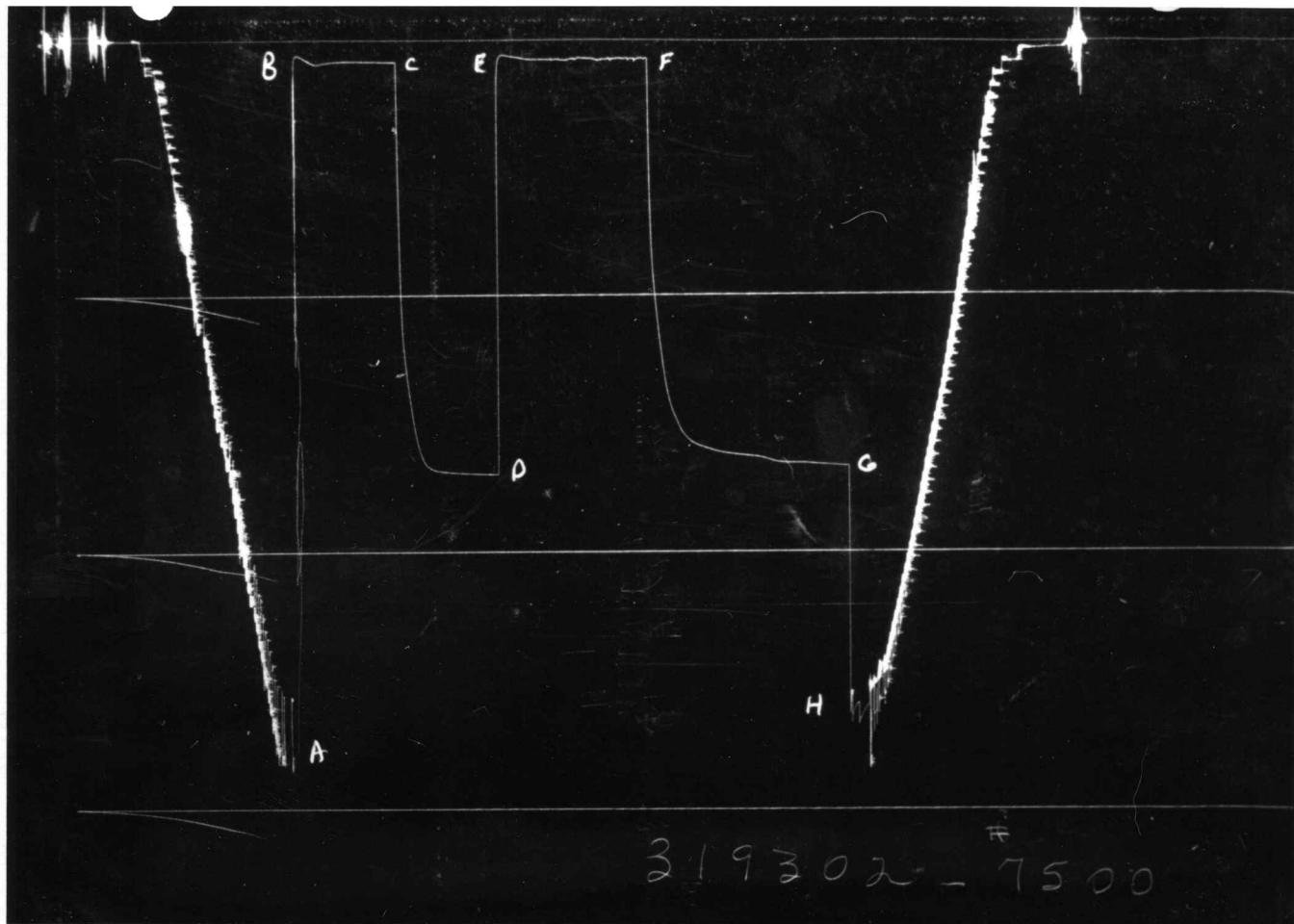
TICKET NO. 31930200  
05-APR-82

FORMATION TESTING SERVICE REPORT



GAUGE NO: 7501 DEPTH: 5028.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2739.9			
B	INITIAL FIRST FLOW		48.0			
C	FINAL FIRST FLOW		72.5	60.0	60.8	F
C	INITIAL FIRST CLOSED-IN		72.5	60.0	60.4	C
D	FINAL FIRST CLOSED-IN		1675.6			
E	INITIAL SECOND FLOW		51.5			
F	FINAL SECOND FLOW		64.1	90.0	89.5	F
F	INITIAL SECOND CLOSED-IN		64.1	120.0	119.3	C
G	FINAL SECOND CLOSED-IN		1644.0			
H	FINAL HYDROSTATIC		2579.6			



GAUGE NO: 7500 DEPTH: 5069.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2766.9			
B	INITIAL FIRST FLOW		105.8			
C	FINAL FIRST FLOW		83.7	60.0	60.8	F
C	INITIAL FIRST CLOSED-IN		83.7			
D	FINAL FIRST CLOSED-IN		1693.7	60.0	60.4	C
E	INITIAL SECOND FLOW		147.5			
F	FINAL SECOND FLOW		69.8	90.0	89.5	F
F	INITIAL SECOND CLOSED-IN		69.8			
G	FINAL SECOND CLOSED-IN		1659.7	120.0	119.3	C
H	FINAL HYDROSTATIC		2586.8			

## EQUIPMENT & HOLE DATA

FORMATION TESTED: MISSISSIPPI  
 NET PAY (ft): 7.0  
 GROSS TESTED FOOTAGE: 23.0  
 ALL DEPTHS MEASURED FROM: KELLY BUSHING  
 CASING PERFS. (ft): \_\_\_\_\_  
 HOLE OR CASING SIZE (in): 7.875  
 ELEVATION (ft): 2172  
 TOTAL DEPTH (ft): 5072.0  
 PACKER DEPTH(S) (ft): 5043, 5049  
 FINAL SURFACE CHOKE (in): 1.000  
 BOTTOM HOLE CHOKE (in): 0.750  
 MUD WEIGHT (lb/gal): 9.70  
 MUD VISCOSITY (sec): 60  
 ESTIMATED HOLE TEMP. (°F): \_\_\_\_\_  
 ACTUAL HOLE TEMP. (°F): 92 @ 5067.0 ft

TICKET NUMBER: 31930200  
 DATE: 3-28-82 TEST NO: 3  
 TYPE DST: OPEN HOLE  
 HALLIBURTON CAMP:  
PRATT  
 TESTER: PARKER  
 WITNESS: PALMER  
 DRILLING CONTRACTOR:  
ABERCROMBIE DRILLING COMPANY

### FLUID PROPERTIES FOR RECOVERED MUD & WATER

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

### SAMPLER DATA

Pstg 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:

180 FEET OF GAS & OIL CUT MUD

MEASURED FROM TESTER VALVE

### REMARKS:

TYPE &amp; SIZE MEASURING DEVICE: \_\_\_\_\_

TICKET NO: 31930200

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
0730					PICKED UP TOOL
0745					TOOLS MADE UP-THROUGH ROTARY
0937					ON BOTTOM
0940					OPENED TOOL WITH STRONG BLOW
0952					OPENED 2" LINE-.5" CHOKE
0954					GAS TO SURFACE
0955	.5	28	222		
1000	.5	20	177		
1005	.5	18	166		
1010	.5	16	153		
1015	.5	16	153		
1020	.5	15.5	150		
1025	.5	15	147		
1030	.5	15	147		
1035	.5	15	147		
1040	.5	15	147		CLOSED TOOL
1140					REOPENED TOOL TO 2" LINE AND .5" CHOKE
1150	.5	17	159		
1155	.5	16.5	156		
1200	.5	16	153		
1205	.5	15.5	150		
1210	.5	15	147		
1215	.5	14.5	144		
1220	.5	14	141		
1225	.5	13.5	137		
1230	.5	13	134		
1235	.5	12.5	131		
1240	.5	12	129		STARTED SLIGHT OIL SPRAY
1245	.5	11.5	125		SLIGHT OIL SPRAY
1250	.5	11.5	125		SLIGHT OIL SPRAY
1255	.5	11	121		SLIGHT OIL SPRAY
1300	.5	11	121		SLIGHT OIL SPRAY
1305	.5	10.5	118		SLIGHT OIL SPRAY
1310	.5	10.5	118		CLOSED TOOL
1510					OFF BOTTOM
1700					TOOL IN ROTARY TABLE

TICKET NO: 31930200

CLOCK NO: 25710 HOUR: 12



GAUGE NO: 7501

DEPTH: 5028.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$	
FIRST FLOW						SECOND CLOSED-IN - CONTINUED						
B	1	0.0	48.0			8	56.0	1603.1	1539.1	40.8	0.566	
	2	10.0	72.3	24.3		9	64.0	1607.4	1543.4	44.9	0.525	
	3	20.0	75.4	3.2		10	72.0	1621.3	1557.2	48.7	0.490	
	4	30.0	70.5	-5.0		11	80.0	1631.0	1566.9	52.2	0.459	
	5	40.0	71.4	0.9		12	88.0	1632.3	1568.3	55.5	0.433	
	6	50.0	73.8	2.4		13	96.0	1633.3	1569.2	58.6	0.409	
C	7	60.8	72.5	-1.3		14	104.0	1637.8	1573.7	61.5	0.388	
FIRST CLOSED-IN						G	15	112.0	1641.1	1577.1	64.2	0.370
C	1	0.0	72.5			16	119.3	1644.0	1580.0	66.5	0.354	
	2	4.0	1176.1	1103.6	3.7	1.210						
	3	8.0	1397.7	1325.2	7.1	0.932						
	4	12.0	1540.5	1468.1	10.0	0.784						
	5	16.0	1619.0	1546.6	12.7	0.681						
	6	20.0	1649.3	1576.8	15.1	0.606						
	7	24.0	1662.4	1589.9	17.2	0.548						
	8	28.0	1665.9	1593.4	19.1	0.502						
	9	32.0	1668.6	1596.1	21.0	0.462						
	10	36.0	1671.5	1599.0	22.6	0.429						
	11	40.0	1672.0	1599.5	24.1	0.401						
	12	44.0	1673.7	1601.3	25.5	0.377						
	13	48.0	1674.7	1602.2	26.8	0.355						
	14	52.0	1674.9	1602.4	28.0	0.336						
	15	56.0	1675.7	1603.2	29.1	0.319						
D	16	60.4	1675.6	1603.1	30.3	0.302						
SECOND FLOW												
E	1	0.0	51.5									
	2	10.0	53.8	2.3								
	3	20.0	62.9	9.1								
	4	30.0	63.7	0.8								
	5	40.0	65.8	2.2								
	6	50.0	58.7	-7.1								
	7	60.0	66.6	7.9								
	8	70.0	63.9	-2.8								
	9	80.0	62.2	-1.7								
F	10	89.5	64.1	1.9								
SECOND CLOSED-IN												
F	1	0.0	64.1									
	2	8.0	1209.6	1145.5	7.6	1.299						
	3	16.0	1453.6	1389.6	14.4	1.017						
	4	24.0	1539.2	1475.1	20.7	0.861						
	5	32.0	1568.7	1504.6	26.4	0.756						
	6	40.0	1585.6	1521.6	31.6	0.678						
	7	48.0	1596.0	1531.9	36.4	0.616						

REMARKS:

TICKET NO: 31930200

CLOCK NO: 2476 HOUR: 12


















GAUGE NO: 7500

DEPTH: 5069.0

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	105.8		
	2	10.0	85.7	-20.1	
	3	20.0	86.7	1.0	
	4	30.0	81.7	-5.0	
	5	40.0	81.7	0.0	
	6	50.0	83.2	1.5	
C	7	60.8	83.7	0.5	
FIRST CLOSED-IN					
C	1	0.0	83.7		
	2	4.0	1180.5	1096.8	3.8 1.210
	3	8.0	1412.3	1328.6	7.1 0.932
	4	12.0	1560.9	1477.3	10.0 0.782
	5	16.0	1642.0	1558.3	12.6 0.682
	6	20.0	1670.3	1586.6	15.0 0.607
	7	24.0	1679.9	1596.2	17.2 0.548
	8	28.0	1683.8	1600.1	19.2 0.501
	9	32.0	1686.4	1602.8	20.9 0.463
	10	36.0	1687.8	1604.1	22.6 0.430
	11	40.0	1689.5	1605.8	24.1 0.401
	12	44.0	1690.6	1607.0	25.5 0.377
	13	48.0	1691.5	1607.8	26.8 0.355
	14	52.0	1692.5	1608.8	28.0 0.336
	15	56.0	1693.2	1609.5	29.1 0.319
D	16	60.4	1693.7	1610.0	30.3 0.302
SECOND FLOW					
E	1	0.0	147.5		
	2	10.0	63.3	-84.3	
	3	20.0	72.8	9.5	
	4	30.0	73.4	0.6	
	5	40.0	75.5	2.2	
	6	50.0	67.1	-8.4	
	7	60.0	75.0	7.9	
	8	70.0	70.2	-4.9	
	9	80.0	69.5	-0.7	
F	10	89.5	69.8	0.3	
SECOND CLOSED-IN					
F	1	0.0	69.8		
	2	8.0	1226.8	1157.0	7.6 1.296
	3	16.0	1467.9	1398.1	14.5 1.016
	4	24.0	1555.6	1485.8	20.7 0.860
	5	32.0	1584.3	1514.5	26.4 0.755
	6	40.0	1601.7	1531.9	31.6 0.678
	7	48.0	1611.7	1541.9	36.4 0.616

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
	8	56.0	1618.5	1548.7	40.8 0.566
	9	64.0	1623.2	1553.4	44.9 0.525
	10	72.0	1635.4	1565.6	48.7 0.490
	11	80.0	1646.3	1576.5	52.2 0.459
	12	88.0	1648.1	1578.3	55.5 0.433
	13	96.0	1649.5	1579.7	58.6 0.409
	14	104.0	1654.0	1584.2	61.5 0.388
	15	112.0	1656.7	1586.9	64.2 0.370
G	16	119.3	1659.7	1589.9	66.5 0.354

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	4654.0	
4		FLEX WEIGHT.....	4.500	2.764	180.0	
50		IMPACT REVERSING SUB.....	6.000	2.250	1.0	4834.0
4		FLEX WEIGHT.....	4.500	2.764	180.0	
5		CROSSOVER.....	6.000	2.250	1.0	
12		DUAL CIP VALVE.....	5.000	0.870	6.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	5026.0
80		AP RUNNING CASE.....	5.000	3.060	4.0	5028.0
15		JAR.....	5.000	1.530	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	5043.0
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	5049.0
20		FLUSH JOINT ANCHOR.....	5.000	2.370	16.0	
82		TEMPERATURE RUNNING CASE.....	5.000	2.440	1.0	5067.0
81		BLANKED-OFF RUNNING CASE.....	5.000	2.440	4.0	5069.0
TOTAL DEPTH					5072.0	