

TICKET NO. 80030400
01-MAR-84
PRATT

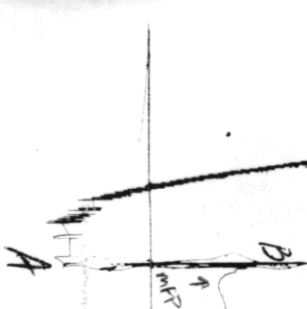
FORMATION TESTING SERVICE REPORT

LEGAL LOCATION SEC. - TWP. - RNG.		17-28-12		FIELD AREA	COUNTY	PRATT	STATE	KANSAS	SM
LEASE NAME HILLARD		WELL NO.	1-17	TEST NO.	1	TESTED INTERVAL 2756.1' - 2892.1'		LEASE OWNER/COMPANY NAME WHEATSTATE OILFIELD SERVICES	

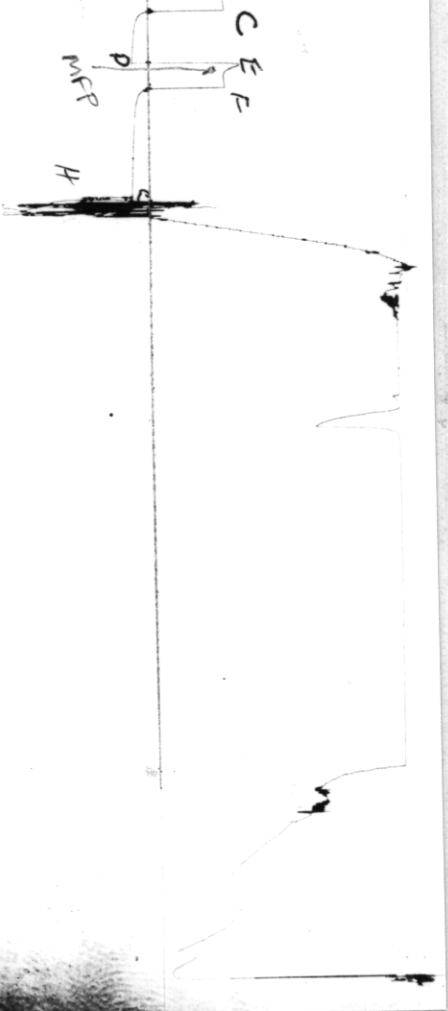
ID	
A	INITIAL
B	INITIAL
C	FINAL
C	INITIAL
D	FINAL
E	INITIAL
F	FINAL
F	INITIAL
G	FINAL
H	FINAL

GAUGE NO: 56

DST-1



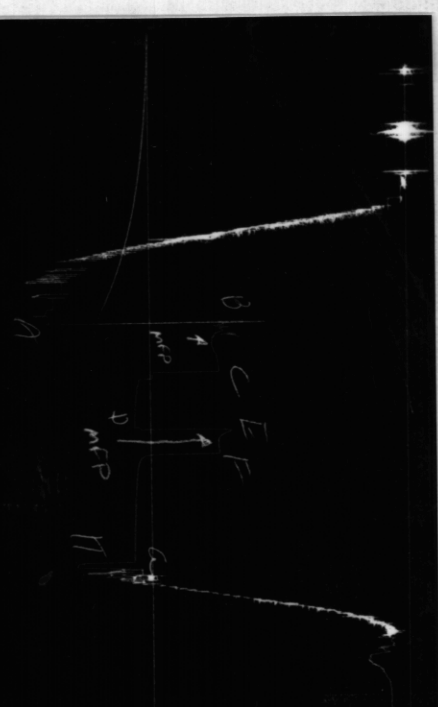
8



000304-5605

DEPT: 2740.0 BLANKED OFF: NO HOUR OF CLOCK: 12

DESCRIPTION	PRESSURE		TIME		TYPE
	REPORTED	CALCULATED	REPORTED	CALCULATED	
HYDROSTATIC		1395.7			
FIRST FLOW		584.7	30.0	31.4	F
FIRST FLOW		733.0			
FIRST CLOSED-IN		733.0	30.0	29.4	C
FIRST CLOSED-IN		1062.7			
SECOND FLOW		685.2	15.0	14.0	F
SECOND FLOW		732.7			
SECOND CLOSED-IN		732.7	60.0	61.5	C
SECOND CLOSED-IN		1067.4			
HYDROSTATIC		1289.6			



800304

Dst AT 800304

GAUGE NO: 5604 DEPTH: 2889.0 BL

ID	DESCRIPTION	REPORTED
A	INITIAL HYDROSTATIC	1395.7
B	INITIAL FIRST FLOW	733.0
C	INITIAL FIRST FLOW	733.0
C	INITIAL FIRST CLOSED-IN	733.0
D	INITIAL FIRST CLOSED-IN	1062.7
E	INITIAL SECOND FLOW	685.2
F	INITIAL SECOND FLOW	732.7
F	INITIAL SECOND CLOSED-IN	732.7
G	INITIAL SECOND CLOSED-IN	1067.4
H	INITIAL HYDROSTATIC	1289.6

EQUIPMENT & HOLE DATA

FORMATION TESTED: _____

WABBAUNSEE

NET PAY (ft): _____

GROSS TESTED FOOTAGE: _____

136.0

ALL DEPTHS MEASURED FROM: _____ KELLY BUSHING

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): _____

7.875

ELEVATION (ft): _____

0

TOTAL DEPTH (ft): _____

2892.0

PACKER DEPTH(S) (ft): _____

2750. 2756

FINAL SURFACE CHOKE (in): _____

1.500

BOTTOM HOLE CHOKE (in): _____

0.750

MUD WEIGHT (lb/gal): _____

9.20

MUD VISCOSITY (sec): _____

41

ESTIMATED HOLE TEMP. (°F): _____

95

ACTUAL HOLE TEMP. (°F): _____ @ _____ ft

TICKET NUMBER: 8003

DATE: 2-25-84 TES

TYPE DST: _____ OPEN

HALLIBURTON CAMP:

PRAIT

TESTER: _____ MR. ME

WITNESS: _____

DRILLING CONTRACTOR

COMPANY TOOLS

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE

RESISTIVITY

CHLORIDES

PII _____

@ _____ °F

30000 ppm

BOTTOM _____

0.140 @ 68.°F

40375 ppm

@ _____ °F

ppm

@ _____ °F

ppm

@ _____ °F

ppm

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F

GAS/OIL RATIO (cu.ft. per bbl): _____

GAS GRAVITY: _____

SAMPLER D

Psig AT SURFACE: _____

cu.ft. OF GAS: _____

cc OF OIL: _____

cc OF WATER: _____

cc OF MUD: _____

TOTAL LIQUID cc: _____

CUSHION D TYPE AMOUNT

RECOVERED:

20 FEET OF MUDDY WATER

REMARKS:

BOTTOM RECOVERY = SP. GR. = 1.0466, PH = 6.5, IRON = LIGHT, CAL
MAGNESIUM = 865, SULFATES = HEAVY, 80% WATER AND 20% MUD

INITIAL AND FINAL HYDROSTATIC READINGS SHOULD BE CONSIDERED QUE

ANKED OFF: YES HOUR OF CLOCK: 12

PRESSURE	CALCULATED	TIME		TYPE
		REPORTED	CALCULATED	
52	1320.2			
18	609.2	30.0	31.4	F
18	707.1			
18	707.1	30.0	29.4	C
66	1066.8			
77	650.6	15.0	14.0	F
38	706.9			
38	706.9			
38	706.9	60.0	61.5	C
66	1070.8			
12	1214.3			

2" MERLH ORIFICE WELL TESTER

TICKET NO: 80030400

TICKET NO: 80030400

REMARKS

REF

1

2

ח

7

LEG	1
REM	

REF	TIC	CLOC
B		
☐ 1		
C		
☐ 2		
☐ 2		
D		
E		
☐ 1		
F		
F		
LEG		
☐ 1		
REM		

TICKET NO: 80030400

CLOCK NO: 10288 HOUR: 12



GAUGE NO: 5605

DEPTH: 2740.0

TICKET NO: 80030400

CLOCK NO: 2478 HOUR: 12

MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW				
1 0.0	584.7			
2 5.0	715.9	131.2		
3 10.0	756.5	40.7		
4 12.1	761.2	4.7		
5 15.0	758.5	-2.6		
6 20.0	744.0	-14.5		
7 25.0	736.7	-7.3		
8 30.0	733.8	-2.8		
9 31.4	733.0	-0.8		

FIRST CLOSED-IN

1 0.0	733.0			
2 3.6	991.2	258.1	3.2	0.992
3 7.1	1048.5	315.4	5.8	0.734
4 8.0	1051.5	318.5	6.4	0.693
5 10.0	1053.9	320.9	7.6	0.616
6 12.0	1055.9	322.9	8.7	0.559
7 14.0	1057.6	324.5	9.7	0.510
8 16.0	1059.0	326.0	10.6	0.472
9 18.0	1059.6	326.6	11.4	0.439
10 20.0	1060.5	327.5	12.2	0.410
11 22.0	1061.3	328.3	13.0	0.385
12 24.0	1062.4	329.3	13.6	0.363
13 26.0	1062.7	329.7	14.2	0.344
14 28.0	1062.7	329.7	14.8	0.327
15 29.4	1062.7	329.7	15.2	0.315

SECOND FLOW

1 0.0	685.2			
2 3.0	718.8	33.6		
3 6.0	735.9	17.1		
4 7.8	736.7	0.8		
5 9.0	735.9	-0.8		
6 12.0	733.9	-1.9		
7 14.0	732.7	-1.2		

SECOND CLOSED-IN

1 0.0	732.7			
2 4.0	1041.8	309.1	3.7	1.092
3 8.0	1050.2	317.5	6.8	0.823
4 12.0	1054.0	321.3	9.5	0.679
5 16.0	1056.5	323.8	11.8	0.585
6 20.0	1058.2	325.5	13.9	0.514
7 24.0	1060.2	327.5	15.7	0.461
8 28.0	1061.7	328.9	17.3	0.418

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
9	32.0	1062.1	329.3	18.8	0.384
10	36.0	1063.2	330.5	20.1	0.354
11	40.0	1064.2	331.5	21.3	0.330
12	44.0	1064.8	332.1	22.4	0.308
13	48.0	1066.2	333.4	23.3	0.289
14	52.0	1066.2	333.4	24.3	0.273
15	56.0	1066.9	334.1	25.1	0.258
16	61.5	1067.4	334.7	26.1	0.240

G

FIRST CLOSED-IN

C 1 0.0	707.1			
2 2.0	1032.2	325.2		
3 4.0	1044.0	337.0		
4 6.0	1050.6	343.6		
5 8.0	1054.4	347.4		
6 10.0	1056.9	349.8		
7 12.0	1058.8	351.8		
8 14.0	1060.6	353.5		
9 16.0	1061.6	354.5		
10 18.0	1062.6	355.6		
11 20.0	1063.6	356.5		
12 22.0	1064.7	357.6		
13 24.0	1065.8	358.8		
14 26.0	1066.2	359.2		
15 28.0	1067.2	360.2		
16 29.4	1066.8	359.8		

SECOND FLOW

E 1 0.0	650.6			
2 3.0	684.6	33.9		
3 6.0	708.7	24.1		
4 7.8	711.9	3.2		
5 9.0	711.1	-0.7		
6 12.0	709.0	-2.1		
7 14.0	706.9	-2.1		

SECOND CLOSED-IN

F 1 0.0	706.9			
2 4.0	1041.1	334.2		
3 8.0	1050.7	343.9		
4 12.0	1055.3	348.5		
5 16.0	1057.5	350.6		
6 20.0	1059.4	352.6		
7 24.0	1061.7	354.9		

LEGEND:

☐ MAXIMUM FLOW PRESSURE

REMARKS:

☒ STAIR-STEP

END: MAXIMUM FLOW PRESSURE

REMARKS:



GAUGE NO: 5604
DEPTH: 2889.0

O.D.

I.D.

LEN

At
log t+At
At

REF MINUTES PRESSURE AP t+At t+At log t+At
At

SECOND CLOSED-IN - CONTINUED

8	28.0	1063.6	356.7	17.3	0.418
9	32.0	1064.6	357.7	18.8	0.383
10	36.0	1065.2	358.3	20.1	0.355
11	40.0	1066.2	359.4	21.3	0.330
12	44.0	1067.1	360.3	22.3	0.308
13	48.0	1068.3	361.4	23.3	0.289
14	52.0	1068.8	361.9	24.3	0.273
15	56.0	1069.7	362.9	25.1	0.258
16	61.5	1070.8	364.0	26.1	0.240

G

1.9 1.213
3.6 0.944
5.0 0.797
6.4 0.691
7.6 0.618
8.7 0.560
9.7 0.511
0.6 0.471
1.4 0.439
2.2 0.410
3.0 0.385
3.6 0.363
4.2 0.344
4.8 0.326
5.2 0.315

3.7 1.087
6.8 0.826
9.5 0.681
11.8 0.584
13.9 0.515
15.7 0.461

1	DRILL PIPE.....	4.500	3.826	26
50	IMPACT REVERSING SUB.....	5.625	2.000	
3	DRILL COLLARS.....	6.250	2.250	1
5	CROSSOVER.....	6.000	2.000	
12	DUAL CIP VALVE.....	5.750	0.860	
60	HYDROSPRING TESTER.....	5.000	0.750	
80	AP RUNNING CASE.....	5.000	2.060	
16	VR SAFETY JOINT.....	5.000	1.000	
70	OPEN HOLE PACKER.....	6.750	1.530	
70	OPEN HOLE PACKER.....	6.750	1.530	
20	FLUSH JOINT ANCHOR.....	5.000	2.360	
5	CROSSOVER.....	6.000	2.000	
3	DRILL COLLARS.....	6.250	2.250	
5	CROSSOVER.....	6.000	2.000	
20	FLUSH JOINT ANCHOR.....	5.000	2.360	
81	BLANKED-OFF RUNNING CASE.....	5.000		

TOTAL DEPTH

EQUIPMENT DATA

549463

TICKET NO. 80030400

NGTH	DEPTH
04.0	
1.0	2605.0
22.0	
1.0	
6.0	
5.0	2738.0
4.0	2740.0
3.0	
6.0	2750.0
6.0	2756.0
5.0	
1.0	
92.0	
2.0	
30.0	
4.0	2889.0
	2892.0