HALLIBURTON

SERVICES

TICKET NO. 50366600

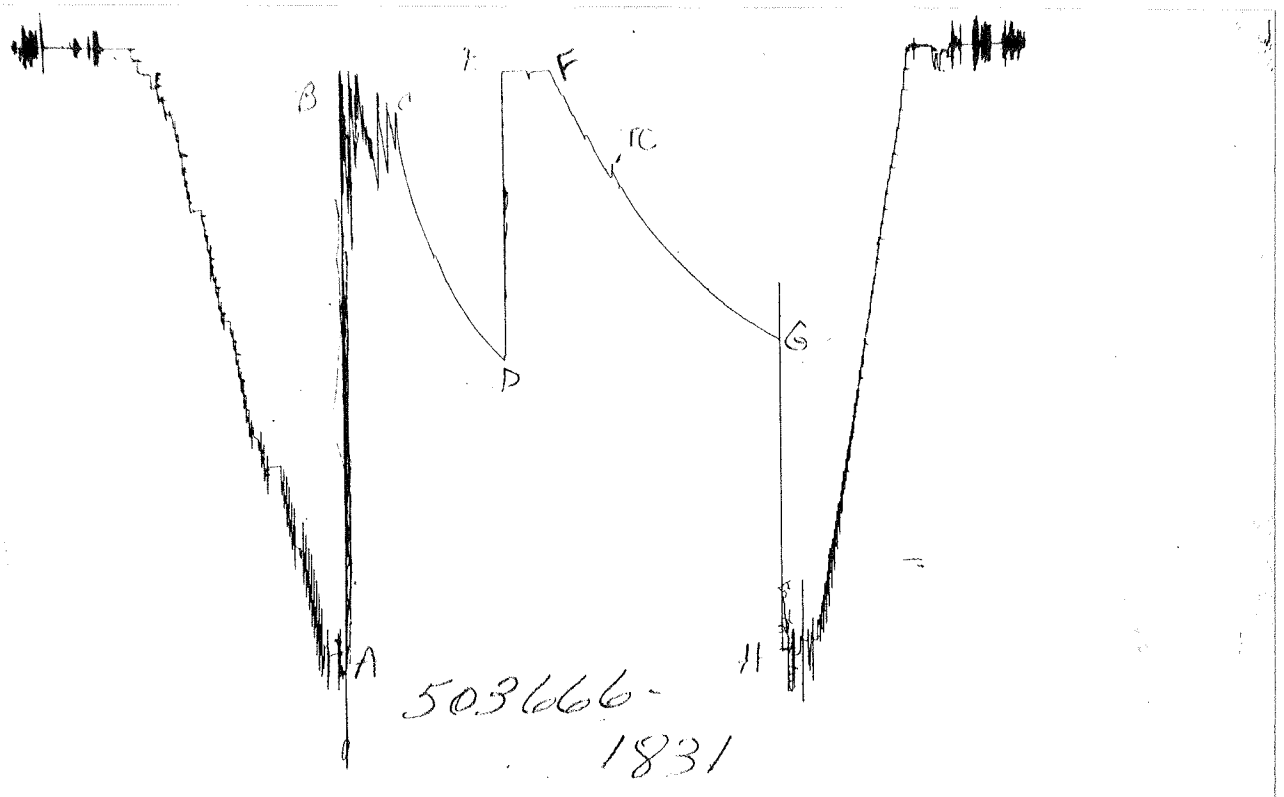
19-AUG-83

PRATT

FORMATION TESTING SERVICE REPORT

LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
HARPER	1-17	1	4277.' - 4330.'	RINE DRILLING COMPANY

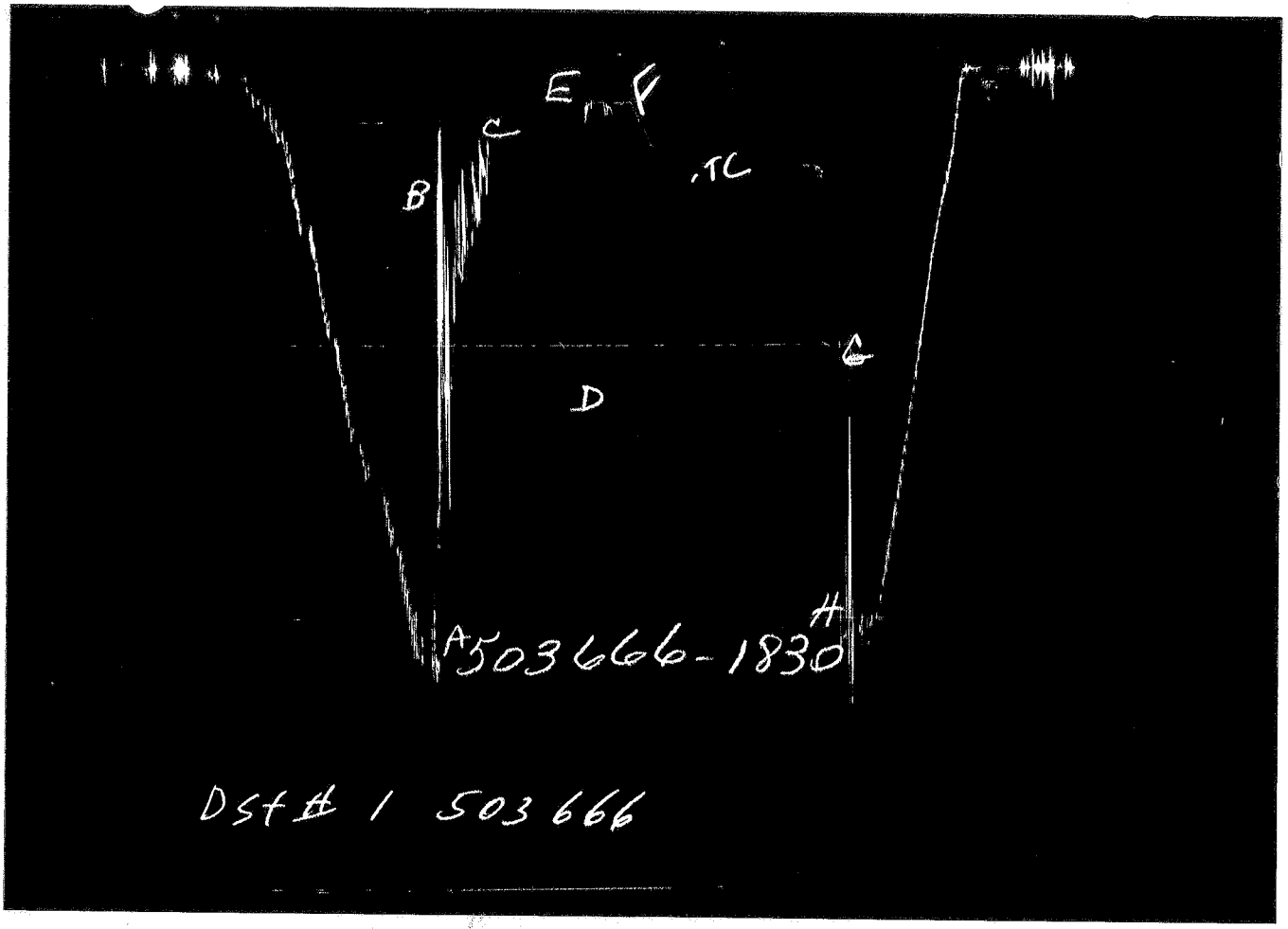
LEGAL LOCATION SEC. - TWP. - RNG.	FIELD AREA	COUNTY	STATE	IC/PW
17 - 34 - 21 WEST		CLARK	KANSAS	IC/PW



Dst#1 503666

GAUGE NO: 1831 DEPTH: 4256.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2058.8			
B	INITIAL FIRST FLOW		245.4	30.0	30.5	F
C	FINAL FIRST FLOW		221.1			
C	INITIAL FIRST CLOSED-IN		221.1	60.0	58.2	C
D	FINAL FIRST CLOSED-IN		1061.6			
E	INITIAL SECOND FLOW		83.9	60.0	26.7	F
F	FINAL SECOND FLOW		81.3			
F	INITIAL SECOND CLOSED-IN		81.3	90.0	124.6	C
G	FINAL SECOND CLOSED-IN		993.5			
H	FINAL HYDROSTATIC		2051.4			



GAUGE NO: 1830 DEPTH: 4327.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2103	2096.8			
B	INITIAL FIRST FLOW		631.1	30.0	30.5	F
C	FINAL FIRST FLOW		284.5			
C	INITIAL FIRST CLOSED-IN		284.5	60.0	58.2	C
D	FINAL FIRST CLOSED-IN	1106	1108.2			
E	INITIAL SECOND FLOW	129	142.2	60.0	26.7	F
F	FINAL SECOND FLOW	129	124.3			
F	INITIAL SECOND CLOSED-IN	129	124.3	90.0	124.6	C
G	FINAL SECOND CLOSED-IN	1041	1036.9			
H	FINAL HYDROSTATIC	2085	2081.8			

EQUIPMENT & HOLE DATA

FORMATION TESTED: TORONTO
NET PAY (ft):
GROSS TESTED FOOTAGE: 53.0
ALL DEPTHS MEASURED FROM: KELLY BUSHING
CASING PERFS. (ft):
HOLE OR CASING SIZE (in): 7.875
ELEVATION (ft): 1840
TOTAL DEPTH (ft): 4330.0
PACKER DEPTH(S) (ft): 4271, 4277
FINAL SURFACE CHOKE (in): 0.250
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 9.10
MUD VISCOSITY (sec): 40
ESTIMATED HOLE TEMP. (°F): 113
ACTUAL HOLE TEMP. (°F): ___ @ ___ ft

TICKET NUMBER: 50366600

DATE: 8-13-83 TEST NO: 1

TYPE DST: OPEN HOLE

HALLIBURTON CAMP: PRATT

TESTER: ROLF

WITNESS: BILL SLADEK

DRILLING CONTRACTOR: RINE DRILLING #1

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY		CHLORIDES
PIT	___ @	___ °F	20000 ppm
TOP	0.180 @	85 °F	22100 ppm
TOP OF TOOL	0.180 @	85 °F	22100 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:

90 FEET OF MUD

MEASURED FROM TESTER VALVE

REMARKS:

CHARTS INDICATE PARTIAL PLUGGING OF ANCHOR PERFORATIONS DURING FLOW PERIODS. TOOLS PLUGGED DURING THE SECOND FLOW PERIOD. THE FLOW WAS ENDED AT THIS TIME WHEN READING THE CHART.

ELEVATION REPORTED AT GROUND LEVEL

TYPE & SIZE MEASURING DEVICE:					TICKET NO: 50366600
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
8-13-83					
0315					CALLED OUT - TIME READY AT 0630
0620					ON LOCATION - RIG RUNNING OUT
0710					STARTED CLOCKS
0730					STARTED PICKING UP TOOLS
0755					TOOL MADE-UP AND IN TABLE
1008					OPENED TOOL - TOOL SLID 20' -
					WEAK BLOW - 4" IN BUCKET
					THROUGHOUT OPENING - NO GAS TO
					THE SURFACE.
1038					CLOSED TOOL
1138					REOPENED TOOL - NO BLOW
1238					CLOSED TOOL
1408					TOOL OFF BOTTOM

TICKET NO: 50366600		GAUGE NO: 1831
CLOCK NO: 26740 HOUR: 12	HALLIBURTON SERVICES	DEPTH: 4256.0

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	245.4			
C	2	30.5	221.1	-24.3		
		FIRST CLOSED-IN				
C	1	0.0	221.1			
	2	4.0	425.2	204.1	3.6	0.934
	3	8.0	518.9	297.8	6.4	0.680
	4	12.0	593.5	372.3	8.6	0.549
	5	16.0	654.9	433.8	10.5	0.463
	6	20.0	703.0	481.8	12.1	0.402
	7	24.0	760.9	539.8	13.4	0.356
	8	28.0	812.8	591.7	14.6	0.320
	9	32.0	860.1	638.9	15.6	0.290
	10	36.0	897.6	676.5	16.5	0.267
	11	40.0	936.1	714.9	17.3	0.246
	12	44.0	967.5	746.4	18.0	0.229
	13	48.0	996.4	775.3	18.6	0.214
	14	52.0	1024.6	803.5	19.2	0.200
	15	56.0	1051.1	830.0	19.8	0.189
D	16	58.2	1061.6	840.5	20.0	0.183
		SECOND FLOW				
E	1	0.0	83.9			
F	2	26.7	81.3	-2.7		
		SECOND CLOSED-IN				
F	1	0.0	81.3			
	2	6.0	155.4	74.1	5.4	1.023
	3	12.0	225.4	144.1	9.9	0.760
	4	18.0	295.7	214.4	13.7	0.621
	5	24.0	347.4	266.1	16.9	0.530
	6	30.0	414.9	333.7	19.7	0.464
[1]	7	33.6	398.8	317.5	21.2	0.432
	8	36.0	447.6	366.3	22.1	0.414
	9	42.0	509.2	428.0	24.2	0.373
	10	48.0	567.5	486.3	26.1	0.341
	11	54.0	619.0	537.7	27.8	0.314
	12	60.0	663.6	582.3	29.3	0.291
	13	66.1	705.2	623.9	30.7	0.271
	14	72.0	743.9	662.6	31.9	0.254
	15	78.0	779.5	698.2	33.0	0.239
	16	84.0	816.1	734.8	34.0	0.226
	17	90.0	848.6	767.3	35.0	0.214
	18	96.0	880.4	799.2	35.9	0.203
	19	102.0	907.2	825.9	36.7	0.193

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
		SECOND CLOSED-IN - CONTINUED				
	20	108.0	933.5	852.2	37.4	0.185
	21	114.0	956.9	875.6	38.1	0.177
	22	120.0	978.8	897.5	38.8	0.169
G	23	124.6	993.5	912.2	39.2	0.164

LEGEND:
[1] TOOL CLOSED

REMARKS:

TICKET NO: 50366600

CLOCK NO: 2476 HOUR: 12

HALLIBURTON SERVICES

GAUGE NO: 1830

DEPTH: 4327.0

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	631.1			
C	2	30.5	284.5	-346.6		
			FIRST CLOSED-IN			
C	1	0.0	284.5			
	2	4.0	485.8	201.3	3.6	0.932
	3	8.0	580.7	296.2	6.3	0.683
	4	12.0	651.5	367.0	8.6	0.548
	5	16.0	710.4	425.9	10.5	0.464
	6	20.0	748.7	464.2	12.1	0.403
	7	24.0	800.6	516.2	13.4	0.357
	8	28.0	853.8	569.3	14.6	0.320
	9	32.0	898.2	613.7	15.6	0.291
	10	36.0	940.6	656.2	16.5	0.266
	11	40.0	979.1	694.7	17.3	0.246
	12	44.0	1012.8	728.3	18.0	0.229
	13	48.0	1044.0	759.6	18.7	0.214
	14	52.0	1071.1	786.7	19.2	0.200
	15	56.0	1097.3	812.9	19.7	0.189
D	16	58.2	1108.2	823.7	20.0	0.183
			SECOND FLOW			
E	1	0.0	142.2			
F	2	26.7	124.3	-17.9		
			SECOND CLOSED-IN			
F	1	0.0	124.3			
	2	6.0	205.8	81.5	5.5	1.020
	3	12.0	280.5	156.2	9.9	0.760
	4	18.0	349.5	225.2	13.7	0.621
	5	24.0	400.4	276.1	16.9	0.529
	6	30.0	466.2	341.9	19.7	0.464
[1]	7	33.6	434.4	310.1	21.2	0.432
	8	36.0	495.3	371.0	22.1	0.413
	9	42.0	549.4	425.1	24.2	0.374
	10	48.0	606.5	482.2	26.1	0.341
	11	54.0	660.3	536.0	27.8	0.314
	12	60.0	708.6	584.3	29.3	0.291
	13	66.0	751.3	627.0	30.7	0.271
	14	72.0	791.4	667.1	31.9	0.254
	15	78.0	829.1	704.8	33.0	0.239
	16	84.0	861.9	737.6	34.0	0.226
	17	90.0	890.3	766.0	35.0	0.214
	18	96.0	919.0	794.7	35.9	0.203
	19	102.0	948.7	824.4	36.7	0.193

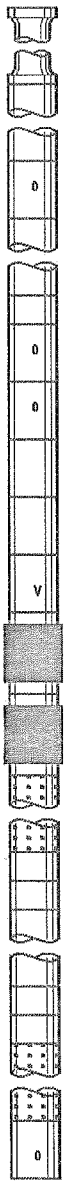
REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
			SECOND CLOSED-IN - CONTINUED			
	20	108.0	974.7	850.4	37.4	0.185
	21	114.0	998.6	874.3	38.1	0.177
	22	120.0	1021.0	896.7	38.7	0.169
G	23	124.6	1036.9	912.5	39.2	0.164

LEGEND:
[1] TOOL CLOSED

REMARKS:

244963

TICKET NO. 50366600



		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE.....	4.500	3.826	3792.0	
3	DRILL COLLARS.....	6.250	2.250	360.0	
50	IMPACT REVERSING SUB.....	5.750	2.750	1.0	4152.0
3	DRILL COLLARS.....	6.250	2.250	90.0	
5	CROSSOVER.....	5.750	2.750	1.0	
12	DUAL CIP VALVE.....	5.030	0.870	6.0	
60	HYDROSPRING TESTER.....	5.000	0.750	5.0	4254.0
80	AP RUNNING CASE.....	5.000	3.060	4.0	4256.0
15	JAR.....	5.000	1.750	5.0	
16	VR SAFETY JOINT.....	5.000	1.000	3.0	
70	OPEN HOLE PACKER.....	6.750	1.530	6.0	4271.0
70	OPEN HOLE PACKER.....	6.750	1.530	6.0	4277.0
20	FLUSH JOINT ANCHOR.....	5.000	3.840	3.0	
5	CROSSOVER.....	5.750	2.750	1.0	
5	CROSSOVER.....	5.750	2.750	1.0	
3	DRILL COLLARS.....	6.250	2.250	30.0	
5	CROSSOVER.....	5.750	2.750	1.0	
5	CROSSOVER.....	5.750	2.750	1.0	
20	FLUSH JOINT ANCHOR.....	5.000	3.840	10.0	
81	BLANKED-OFF RUNNING CASE.....	5.000		4.0	4327.0
	TOTAL DEPTH				4330.0

EQUIPMENT DATA