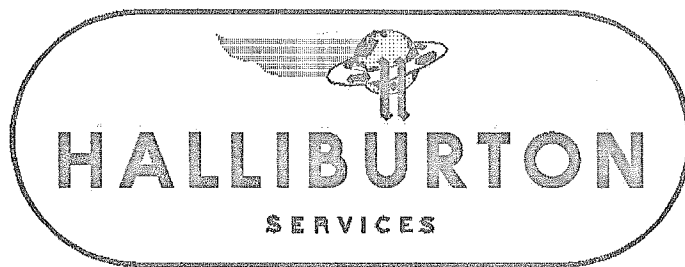
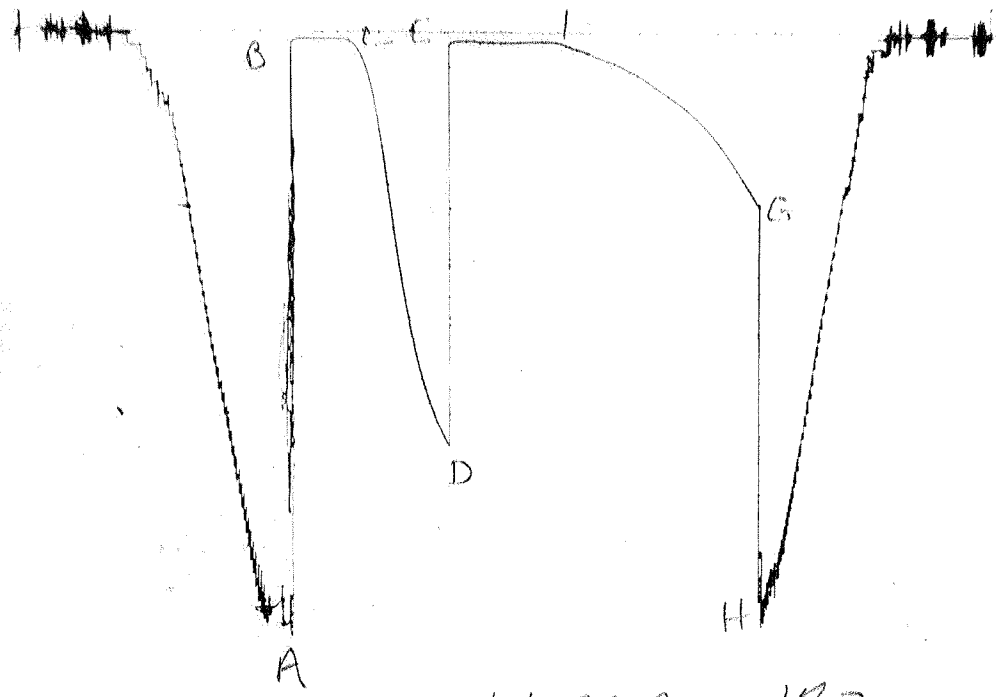


LEASE NAME	SHUPE	WELL NO.	3-21R	TEST NO.	1	TESTED INTERVAL	4239.1 - 4293.1	LEASE OWNER/COMPANY NAME	RINE DRILLING COMPANY
LEGAL LOCATION	21-34-21W	FIELD	FRER	COUNTY	CLARK	STATE	KANSAS	IC	



TICKET NO. 84477200
 11-SEP-84
 PRATT

FORMATION TESTING SERVICE REPORT

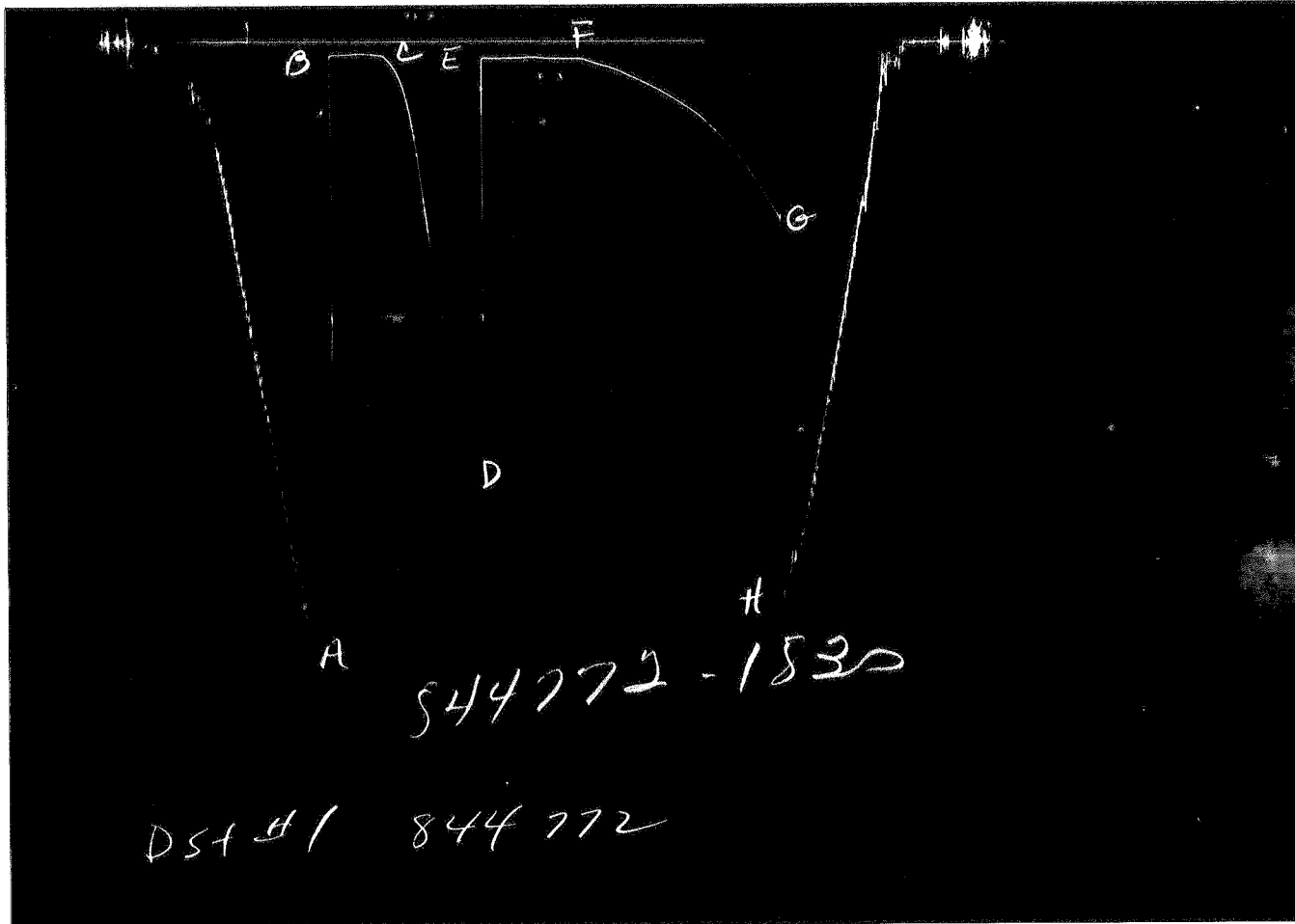


844772-1831

DST# / 844772

GAUGE NO: 1831 DEPTH: 4218.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2016.2			
B	INITIAL FIRST FLOW		38.5			
C	FINAL FIRST FLOW		25.6	30.0	31.0	F
C	INITIAL FIRST CLOSED-IN		25.6			
D	FINAL FIRST CLOSED-IN		1461.3	60.0	59.2	C
E	INITIAL SECOND FLOW		46.3			
F	FINAL SECOND FLOW		36.7	60.0	59.8	F
F	INITIAL SECOND CLOSED-IN		36.7			
G	FINAL SECOND CLOSED-IN		612.2	120.0	117.3	C
H	FINAL HYDROSTATIC		2005.0			



GAUGE NO: 1830 DEPTH: 4290.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2076	2049.5			
B	INITIAL FIRST FLOW	56	51.4	30.0	31.0	F
C	FINAL FIRST FLOW	56	51.1			
C	INITIAL FIRST CLOSED-IN	56	51.1	60.0	59.2	C
D	FINAL FIRST CLOSED-IN	1511	1502.9			
E	INITIAL SECOND FLOW	65	59.4	60.0	59.8	F
F	FINAL SECOND FLOW	65	62.0			
F	INITIAL SECOND CLOSED-IN	65	62.0	120.0	117.3	C
G	FINAL SECOND CLOSED-IN	646	644.9			
H	FINAL HYDROSTATIC	2076	2030.6			

EQUIPMENT & HOLE DATA

FORMATION TESTED: TORONTO
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 54.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 1775
 TOTAL DEPTH (ft): 4293.0
 PACKER DEPTH(S) (ft): 4233, 4239
 FINAL SURFACE CHOKE (in): 0.250
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.40
 MUD VISCOSITY (sec): 42
 ESTIMATED HOLE TEMP. (°F): 112
 ACTUAL HOLE TEMP. (°F): _____ @ _____ ft

TICKET NUMBER: 84477200DATE: 9-5-84 TEST NO: 1TYPE DST: OPEN HOLEHALLIBURTON CAMP:
PRATTTESTER: ROLFWITNESS: JERRY YOUNGDRILLING CONTRACTOR:
RINE DRILLING #8FLUID PROPERTIES FOR
RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>MUD SYSTEM</u>	_____ @ _____ °F	<u>9000</u> ppm
<u>BOTTOM</u>	<u>0.320</u> @ <u>75</u> °F	<u>11100</u> 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:

30 FEET OF MUD

MEASURED FROM
TESTER VALVE

REMARKS:

ELEVATION IS REPORTED AT GROUND LEVEL.

TICKET NO: 84477200

CLOCK NO: 26864 HOUR: 12



GAUGE NO: 1831

DEPTH: 4218.0

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	38.5			10	72.0	255.5	218.8	40.2	0.354	
	2	5.0	24.6	-13.9		11	80.0	297.0	260.4	42.5	0.329	
	3	10.0	24.4	-0.2		12	88.0	347.2	310.6	44.7	0.308	
	4	15.0	24.4	0.0		13	96.0	407.3	370.6	46.7	0.289	
	5	20.0	24.7	0.3		14	104.0	482.7	446.0	48.5	0.273	
	6	25.0	24.7	0.0		15	112.0	560.4	523.7	50.1	0.258	
	7	30.0	25.5	0.7		G	16	117.3	612.2	575.5	51.2	0.249
C	8	31.0	25.6	0.1								
FIRST CLOSED-IN												
C	1	0.0	25.6									
	2	4.0	36.1	10.6	3.6	0.940						
	3	8.0	67.0	41.5	6.4	0.688						
	4	12.0	123.5	98.0	8.6	0.556						
	5	16.0	219.6	194.1	10.6	0.468						
	6	20.0	359.9	334.4	12.2	0.407						
	7	24.0	530.0	504.5	13.6	0.360						
	8	28.0	705.0	679.4	14.7	0.324						
	9	32.0	866.5	840.9	15.8	0.294						
	10	36.0	1000.3	974.7	16.7	0.270						
	11	40.0	1125.4	1099.8	17.5	0.249						
	12	44.0	1225.6	1200.1	18.2	0.232						
	13	48.0	1304.0	1278.4	18.9	0.217						
	14	52.0	1374.8	1349.3	19.4	0.203						
	15	56.0	1425.3	1399.7	20.0	0.192						
D	16	59.2	1461.3	1435.7	20.4	0.183						
SECOND FLOW												
E	1	0.0	46.3									
	2	10.0	33.4	-12.9								
	3	20.0	37.2	3.8								
	4	30.0	39.3	2.0								
	5	40.0	37.6	-1.7								
	6	50.0	35.6	-2.0								
F	7	59.8	36.7	1.1								
SECOND CLOSED-IN												
F	1	0.0	36.7									
	2	8.0	51.8	15.1	7.3	1.093						
	3	16.0	67.4	30.7	13.6	0.825						
	4	24.0	87.8	51.1	19.0	0.680						
	5	32.0	105.0	68.3	23.6	0.585						
	6	40.0	127.7	91.0	27.8	0.515						
	7	48.0	153.3	116.7	31.4	0.461						
	8	56.0	186.4	149.7	34.6	0.419						
	9	64.0	219.8	183.1	37.5	0.384						

REMARKS:

NO: 84477200

GAUGE NO: 1830

CLOCK NO: 7046 HOUR: 12






















DEPTH: 4290.0



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	51.4			
2	5.0	48.4	-3.0		
3	10.0	48.1	-0.4		
4	15.0	45.5	-2.6		
5	20.0	44.9	-0.6		
6	25.0	47.2	2.3		
7	30.0	50.6	3.3		
C 8	31.0	51.1	0.6		
FIRST CLOSED-IN					
C 1	0.0	51.1			
2	4.0	71.9	20.8	3.5	0.943
3	8.0	106.7	55.5	6.4	0.689
4	12.0	164.9	113.8	8.7	0.554
5	16.0	257.3	206.2	10.6	0.469
6	20.0	395.4	344.3	12.2	0.407
7	24.0	571.9	520.8	13.5	0.360
8	28.0	743.5	692.4	14.7	0.324
9	32.0	903.5	852.4	15.8	0.295
10	36.0	1037.8	986.6	16.7	0.270
11	40.0	1161.9	1110.8	17.5	0.250
12	44.0	1269.2	1218.1	18.2	0.232
13	48.0	1345.1	1294.0	18.8	0.217
14	52.0	1415.4	1364.3	19.4	0.203
15	56.0	1468.9	1417.8	20.0	0.192
D 16	59.2	1502.9	1451.8	20.4	0.183
SECOND FLOW					
E 1	0.0	59.4			
2	10.0	61.6	2.1		
3	20.0	59.4	-2.1		
4	30.0	57.0	-2.4		
5	40.0	60.6	3.6		
6	50.0	61.7	1.1		
F 7	59.8	62.0	0.3		
SECOND CLOSED-IN					
F 1	0.0	62.0			
2	8.0	78.2	16.2	7.3	1.093
3	16.0	91.9	29.9	13.6	0.824
4	24.0	111.0	49.0	19.0	0.679
5	32.0	133.3	71.3	23.7	0.584
6	40.0	156.7	94.6	27.8	0.515
7	48.0	182.2	120.1	31.4	0.461
8	56.0	212.3	150.3	34.6	0.419
9	64.0	243.3	181.2	37.5	0.384

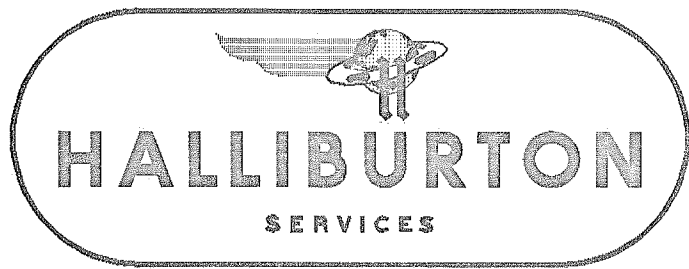
REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
10	72.0	281.5	219.5	40.2	0.354
11	80.0	328.5	266.5	42.5	0.329
12	88.0	380.0	318.0	44.7	0.308
13	96.0	440.0	378.0	46.7	0.289
14	104.0	511.4	449.4	48.5	0.273
15	112.0	591.5	529.5	50.2	0.258
G 16	117.3	644.9	582.9	51.2	0.249

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	3688.0	
3		DRILL COLLARS.....	6.250	2.250	422.0	
50		IMPACT REVERSING SUB.....	5.750	2.750	1.0	4110.0
3		DRILL COLLARS.....	6.250	2.250	90.0	
5		CROSSOVER.....	5.750	2.750	1.0	
11		HANDLING SUB & CHOKE ASSEMBLY...	5.870	3.000	5.0	
12		DUAL CIP VALVE.....	5.030	0.870	5.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	4216.0
80		AP RUNNING CASE.....	5.000	3.060	4.0	4218.0
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	4233.0
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	4239.0
20		FLUSH JOINT ANCHOR.....	5.000	3.840	1.0	
5		CROSSOVER.....	5.750	2.750	1.0	
5		CROSSOVER.....	5.750	2.750	1.0	
3		DRILL COLLARS.....	6.250	2.250	33.0	
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	4290.0
TOTAL DEPTH						4293.0

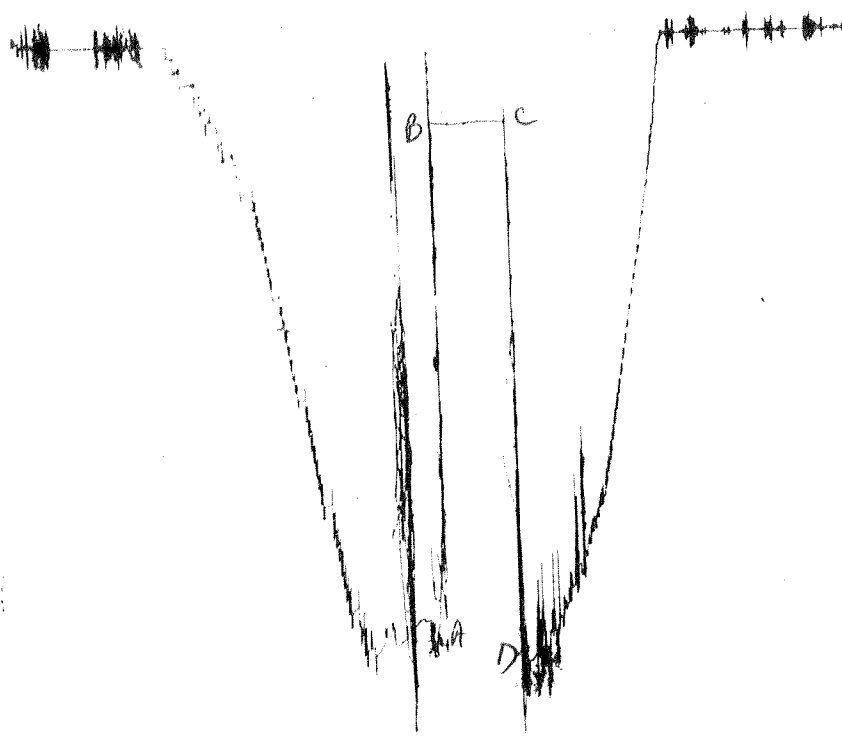
EQUIPMENT DATA

LEASE NAME	SHUPE	WELL NO.	3-21A	TEST NO.	6	TESTED INTERVAL	4275.1 - 4320.1	LEASE OWNER/COMPANY NAME	RINE DRILLING COMPANY
LEGAL LOCATION	SEC. - TWP. - RANG.		21-34-21	FIELD AREA		COUNTY		STATE	KANSAS DR
									CLARK



TICKET NO. 84477700
 24-SEP-84
 PRATT

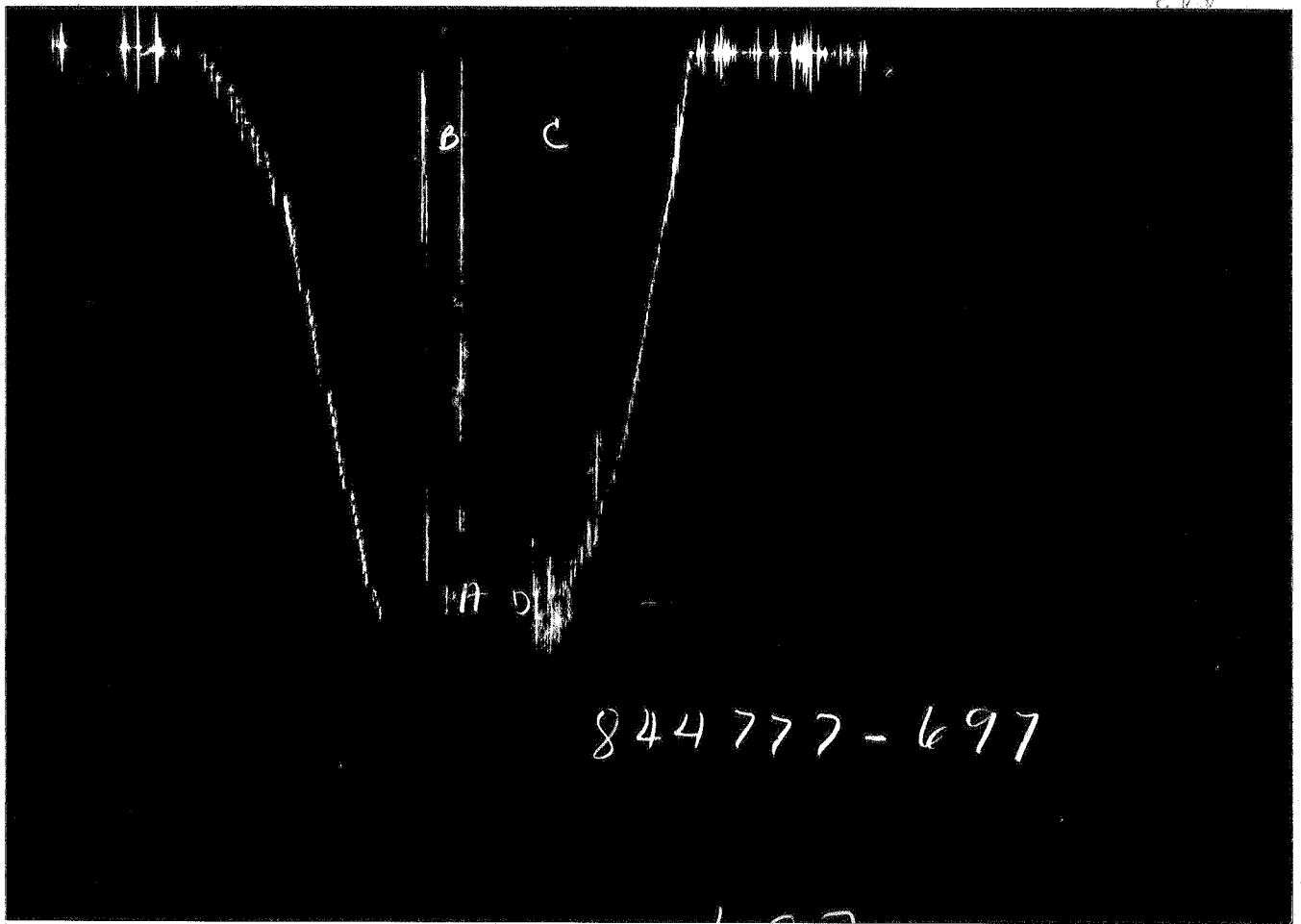
FORMATION TESTING SERVICE REPORT



844777-1831

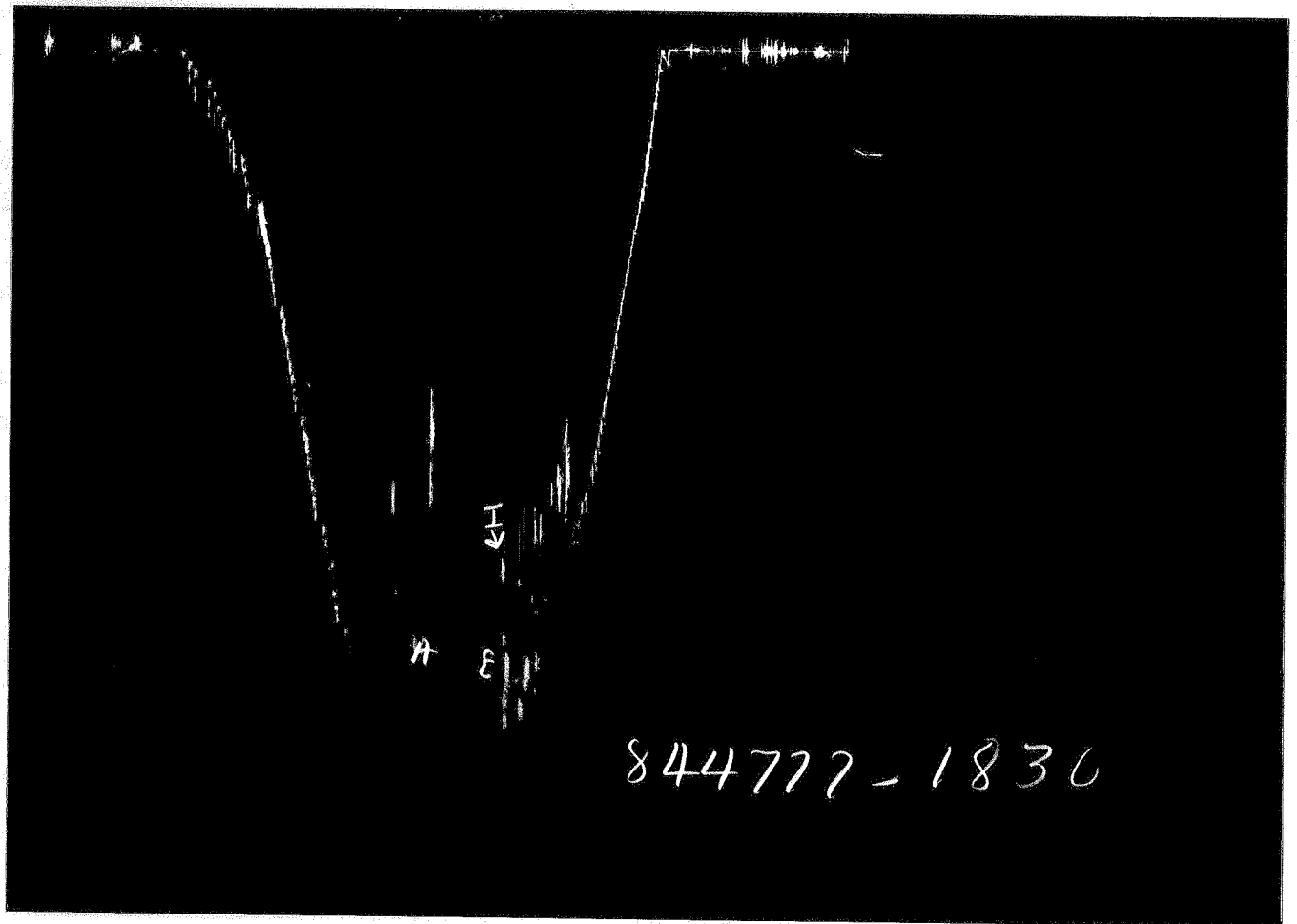
GAUGE NO: 1831 DEPTH: 4259.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2117.9			
B	INITIAL FIRST FLOW		299.4	40.0	40.0	F
C	FINAL FIRST FLOW		297.9			
D	FINAL HYDROSTATIC		2158.2			
E	HYDROSTATIC RELEASE					



GAUGE NO: 697 DEPTH: 4315.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2140.6			
B	INITIAL FIRST FLOW		330.5			
C	FINAL FIRST FLOW		331.1	40.0	40.0	F
D	FINAL HYDROSTATIC		2181.3			
E	HYDROSTATIC RELEASE					



GAUGE NO: 1830 DEPTH: 4333.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2141.6			
B	INITIAL FIRST FLOW			40.0		F
C	FINAL FIRST FLOW					
D	FINAL HYDROSTATIC		2184.9			
E	HYDROSTATIC RELEASE		1912.4			

EQUIPMENT & HOLE DATA

TICKET NUMBER: 84477700

FORMATION TESTED: TORONTO

DATE: 9-13-84 TEST NO: 6

NET PAY (ft): _____

GROSS TESTED FOOTAGE: 45.0

TYPE DST: OFF BT. STRADDLE

ALL DEPTHS MEASURED FROM: KELLY BUSHING

CASING PERFS. (ft): _____

HALLIBURTON CAMP:
PRATT

HOLE OR CASING SIZE (in): 7.875

ELEVATION (ft): 1787

TOTAL DEPTH (ft): 5578.0

TESTER: L.R. PARKER

PACKER DEPTH(S) (ft): 4275, 4320

FINAL SURFACE CHOKE (in): _____

WITNESS: B. SLADEK

BOTTOM HOLE CHOKE (in): 0.750

MUD WEIGHT (lb/gal): 9.30

MUD VISCOSITY (sec): 45

ESTIMATED HOLE TEMP. (°F): 110

DRILLING CONTRACTOR:
COMPANY TOOL

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

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SAMPLER DATA

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

Pstg AT SURFACE: _____

cu.ft. OF GAS: _____

cc OF OIL: _____

cc OF WATER: _____

cc OF MUD: _____

TOTAL LIQUID cc: _____

HYDROCARBON PROPERTIES

CUSHION DATA

OIL GRAVITY (°API): _____ @ _____ °F

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

GAS GRAVITY: _____





















TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED:

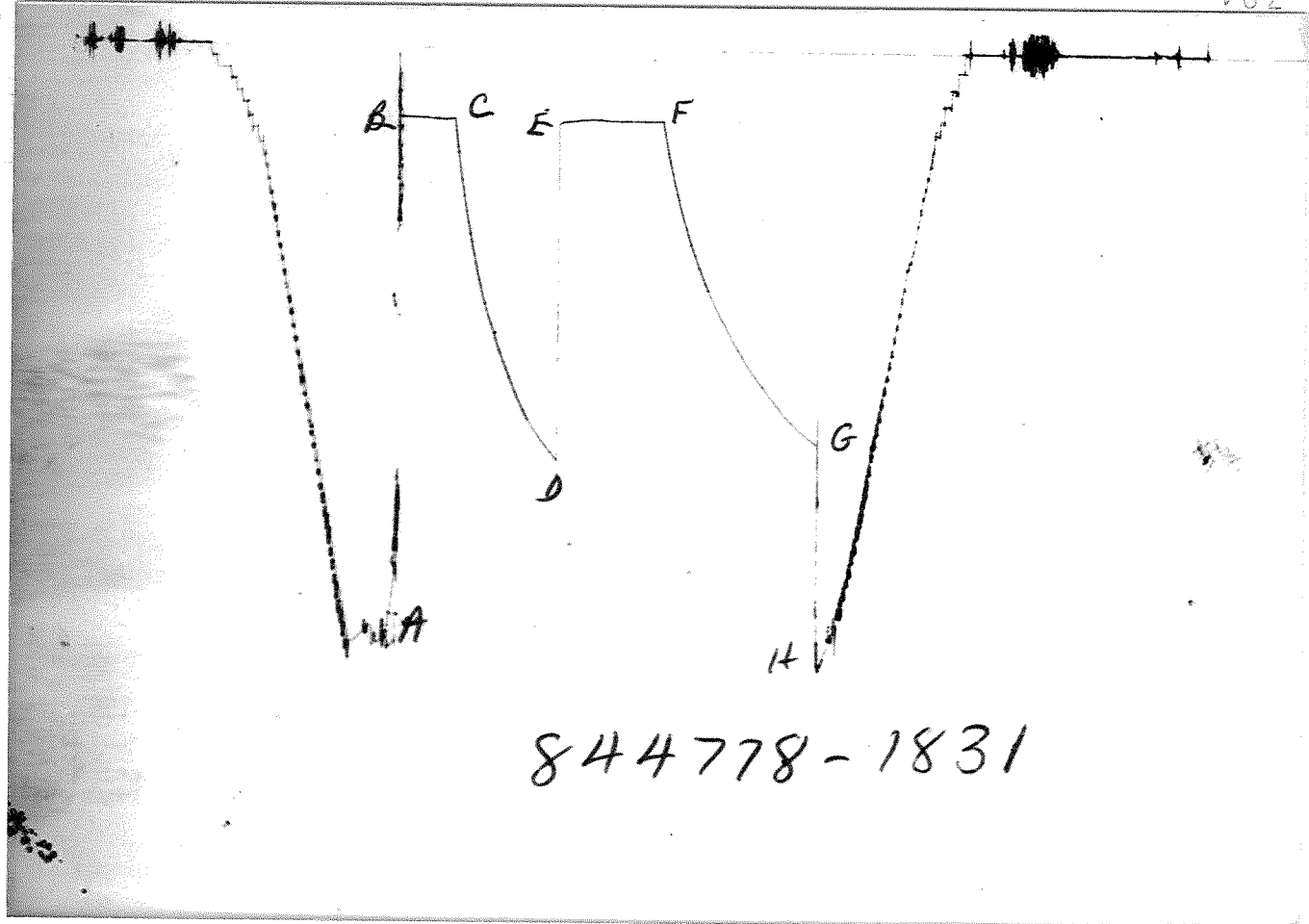
MEASURED FROM TESTER VALVE

REMARKS:

MISRUN-UNSUCCESSFUL TEST

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	3639.0	
3		DRILL COLLARS.....	6.250	2.250	515.0	
50		IMPACT REVERSING SUB.....	6.000	2.750	1.0	4154.0
3		DRILL COLLARS.....	6.250	2.250	87.0	
5		CROSSOVER.....	6.000	2.250	1.0	
11		HANDLING SUB & CHOKE ASSEMBLY...	5.750	3.750	5.0	
12		DUAL CIP VALVE.....	5.000	0.870	5.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	4257.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	4259.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
17		PRESSURE EQUALIZING CROSSOVER...	5.000		1.0	
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	4275.0
20		FLUSH JOINT ANCHOR.....	5.000	2.370	36.0	
17		PRESSURE EQUALIZING CROSSOVER...	5.000		1.0	
80		AP RUNNING CASE.....	5.000	2.250	4.0	4315.0
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	4320.0
90		SIDE WALL ANCHOR.....	6.750	1.630	5.0	4326.0
20		FLUSH JOINT ANCHOR.....	5.000	2.370	3.0	
81		BLANKED-OFF RUNNING CASE.....	5.000		4.0	4333.0
		TOTAL DEPTH				5578.0

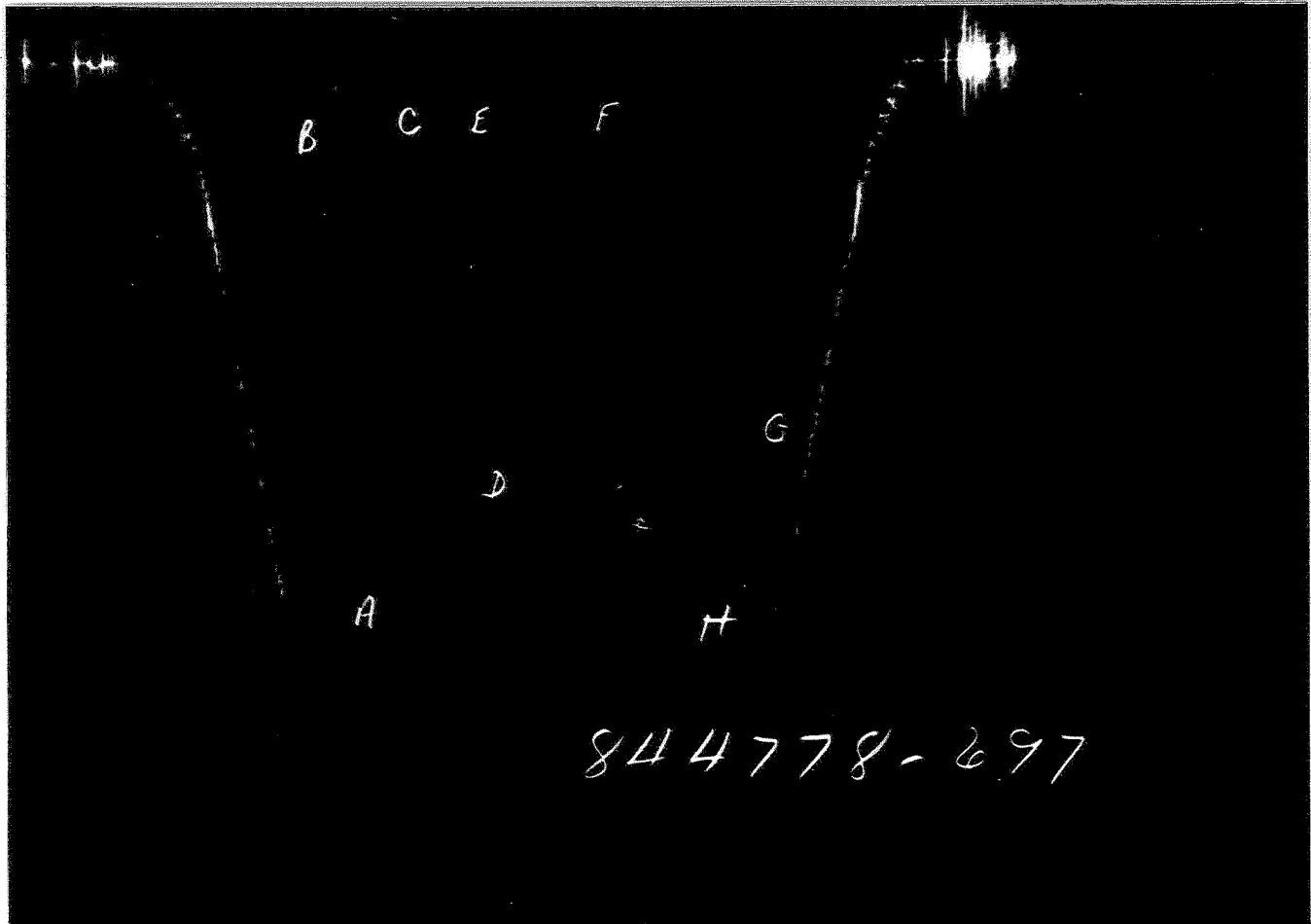
EQUIPMENT DATA



844778-1831

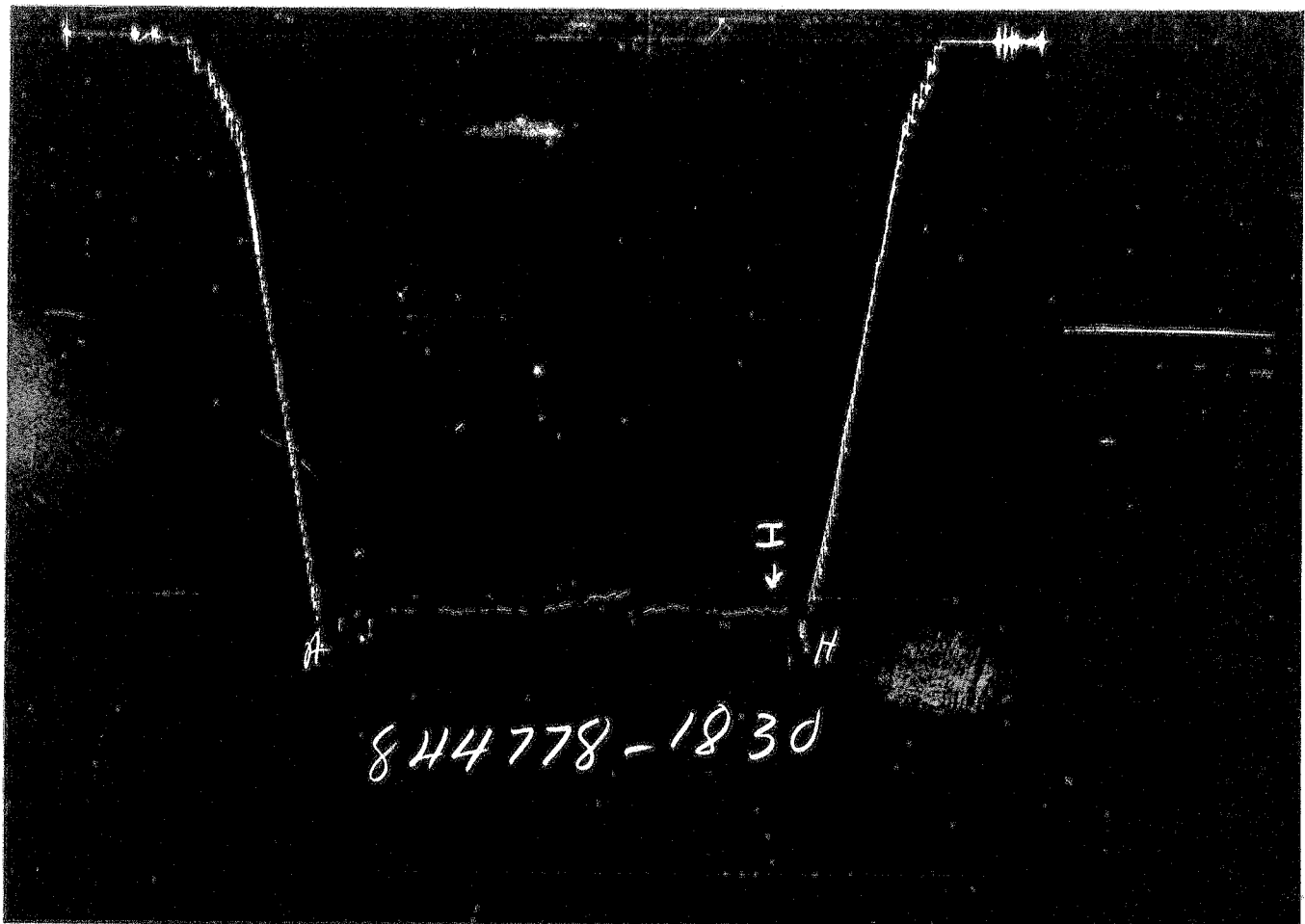
GAUGE NO: 1831 DEPTH: 4255.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2099.6			
B	INITIAL FIRST FLOW		244.3			
C	FINAL FIRST FLOW		251.0	30.0	30.6	F
C	INITIAL FIRST CLOSED-IN		251.0			
D	FINAL FIRST CLOSED-IN		1451.2	60.0	58.9	C
E	INITIAL SECOND FLOW		267.1			
F	FINAL SECOND FLOW		252.2	60.0	61.2	F
F	INITIAL SECOND CLOSED-IN		252.2			
G	FINAL SECOND CLOSED-IN		1384.6	90.0	89.3	C
H	FINAL HYDROSTATIC		2102.9			
I	HYDROSTATIC RELEASE					



GAUGE NO: 697 DEPTH: 4311.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2149	2131.8			
B	INITIAL FIRST FLOW	280	281.3			
C	FINAL FIRST FLOW	280	285.0	30.0	30.6	F
C	INITIAL FIRST CLOSED-IN	280	285.0			
D	FINAL FIRST CLOSED-IN	1471	1493.2	60.0	58.9	C
E	INITIAL SECOND FLOW	280	288.2			
F	FINAL SECOND FLOW	280	288.2	60.0	61.2	F
F	INITIAL SECOND CLOSED-IN	280	288.2			
G	FINAL SECOND CLOSED-IN	1431	1431.3	90.0	89.3	C
H	FINAL HYDROSTATIC	2149	2142.9			
I	HYDROSTATIC RELEASE					



GAUGE NO: 1830 DEPTH: 4329.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2135.9			
B	INITIAL FIRST FLOW					
C	FINAL FIRST FLOW			30.0		F
C	INITIAL FIRST CLOSED-IN					
D	FINAL FIRST CLOSED-IN			60.0		C
E	INITIAL SECOND FLOW					
F	FINAL SECOND FLOW			60.0		F
F	INITIAL SECOND CLOSED-IN					
G	FINAL SECOND CLOSED-IN			90.0		C
H	FINAL HYDROSTATIC		2150.1			
I	HYDROSTATIC RELEASE		2032.8			

EQUIPMENT & HOLE DATA

FORMATION TESTED: TORONTO
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 45.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 1787
 TOTAL DEPTH (ft): 5578.0
 PACKER DEPTH(S) (ft): 4271. 4316
 FINAL SURFACE CHOKE (in): _____
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.30
 MUD VISCOSITY (sec): 45
 ESTIMATED HOLE TEMP. (°F): 110
 ACTUAL HOLE TEMP. (°F): _____ @ _____ ft

TICKET NUMBER: 84477800
 DATE: 9-14-84 TEST NO: 7
 TYPE DST: OFF BT. STRADDLE
 HALLIBURTON CAMP: PRATT
 TESTER: L.R. PARKER
 WITNESS: B. SLADEK
 DRILLING CONTRACTOR: _____
 COMPANY TOOL _____

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: 450' OF DRILLING MUD

MEASURED FROM TESTER VALVE

REMARKS:

TICKET NO: 84477800

GAUGE NO: 1831

CLOCK NO: 26864 HOUR: 12


 HALLIBURTON
SERVICES

DEPTH: 4255.0

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	244.3		
	2	5.0	245.9	1.7	
	3	10.0	246.8	0.8	
	4	15.0	248.3	1.6	
	5	20.0	251.0	2.7	
	6	25.0	252.2	1.2	
C	7	30.6	251.0	-1.2	
FIRST CLOSED-IN					
C	1	0.0	251.0		
	2	4.0	449.6	198.6	3.5 0.940
	3	8.0	613.2	362.1	6.3 0.685
	4	12.0	748.0	497.0	8.6 0.551
	5	16.0	863.8	612.8	10.5 0.464
	6	20.0	950.2	699.2	12.1 0.403
	7	24.0	1028.6	777.6	13.5 0.357
	8	28.0	1100.5	849.4	14.6 0.321
	9	32.0	1164.4	913.4	15.7 0.291
	10	36.0	1224.9	973.9	16.5 0.268
	11	40.0	1280.2	1029.2	17.3 0.247
	12	44.0	1326.8	1075.7	18.1 0.230
	13	48.0	1361.0	1110.0	18.7 0.215
	14	52.0	1394.8	1143.8	19.3 0.201
	15	56.0	1427.0	1176.0	19.8 0.190
D	16	58.9	1451.2	1200.2	20.1 0.182
SECOND FLOW					
E	1	0.0	267.1		
F	2	61.2	252.2	-14.9	
SECOND CLOSED-IN					
F	1	0.0	252.2		
	2	6.0	454.2	201.9	5.6 1.212
	3	12.0	599.0	346.8	10.6 0.936
	4	18.0	716.5	464.3	15.0 0.786
	5	24.0	813.1	560.9	19.0 0.684
	6	30.0	896.8	644.6	22.6 0.609
	7	36.0	967.7	715.5	25.9 0.551
	8	42.0	1037.6	785.4	28.8 0.503
	9	48.0	1101.6	849.5	31.5 0.464
	10	54.0	1153.5	901.3	34.0 0.432
	11	60.0	1203.4	951.2	36.3 0.403
	12	66.0	1250.9	998.7	38.4 0.379
	13	72.0	1297.1	1044.9	40.4 0.357
	14	78.0	1333.4	1081.2	42.2 0.338
	15	84.0	1362.9	1110.6	43.9 0.321

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
G	16	89.3	1384.6	1132.4	45.3 0.307

REMARKS:

TICKET NO: 84477800

CLOCK NO: 17482 HOUR: 12























GAUGE NO: 697

DEPTH: 4311.0

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	281.3		
	2	5.0	285.7	4.4	
	3	10.0	285.7	0.0	
	4	15.0	285.7	0.0	
	5	20.0	285.7	0.0	
	6	25.0	285.7	0.0	
C	7	30.6	285.0	-0.7	
FIRST CLOSED-IN					
C	1	0.0	285.0		
	2	4.0	530.3	245.3	3.5 0.938
	3	8.0	690.2	405.2	6.3 0.685
	4	12.0	816.8	531.8	8.6 0.551
	5	16.0	928.3	643.3	10.5 0.465
	6	20.0	1017.9	732.9	12.1 0.404
	7	24.0	1096.1	811.1	13.4 0.357
	8	28.0	1165.6	880.6	14.6 0.321
	9	32.0	1225.8	940.8	15.7 0.291
	10	36.0	1281.0	996.0	16.5 0.268
	11	40.0	1328.4	1043.4	17.3 0.247
	12	44.0	1370.6	1085.6	18.1 0.230
	13	48.0	1405.8	1120.8	18.7 0.215
	14	52.0	1443.0	1158.0	19.3 0.201
	15	56.0	1473.4	1188.4	19.8 0.190
D	16	58.9	1493.2	1208.2	20.1 0.182
SECOND FLOW					
E	1	0.0	288.2		
F	2	61.2	288.2	0.0	
SECOND CLOSED-IN					
F	1	0.0	288.2		
	2	6.0	504.2	216.0	5.6 1.213
	3	12.0	647.8	359.6	10.6 0.938
	4	18.0	761.4	473.2	15.0 0.786
	5	24.0	858.8	570.6	19.1 0.683
	6	30.0	944.4	656.2	22.6 0.609
	7	36.0	1018.9	730.7	25.9 0.550
	8	42.0	1089.6	801.4	28.8 0.504
	9	48.0	1152.3	864.1	31.5 0.464
	10	54.0	1206.5	918.3	34.0 0.432
	11	60.0	1256.0	967.8	36.3 0.403
	12	66.0	1299.9	1011.7	38.4 0.379
	13	72.0	1339.7	1051.5	40.4 0.357
	14	78.0	1375.5	1087.3	42.2 0.338
	15	84.0	1405.9	1117.7	43.9 0.321

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
G	16	89.3	1431.3	1143.1	45.3 0.307

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	3635.0	
3		DRILL COLLARS.....	6.250	2.250	515.0	
50		IMPACT REVERSING SUB.....	6.000	2.750	1.0	4150.0
3		DRILL COLLARS.....	6.250	2.250	87.0	
5		CROSSOVER.....	6.000	2.250	1.0	
11		HANDLING SUB & CHOKE ASSEMBLY...	5.750	3.750	5.0	
12		DUAL CIP VALVE.....	5.000	0.870	5.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	4253.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	4255.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
17		PRESSURE EQUALIZING CROSSOVER...	5.000	0.870	1.0	
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	4271.0
20		FLUSH JOINT ANCHOR.....	5.000	2.370	36.0	
17		PRESSURE EQUALIZING CROSSOVER...	5.000	0.870	1.0	
81		BLANKED-OFF RUNNING CASE.....	5.000	2.250	4.0	4311.0
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	4316.0
90		SIDE WALL ANCHOR.....	6.750	1.630	5.0	4322.0
20		FLUSH JOINT ANCHOR.....	5.000	2.370	3.0	
81		BLANKED-OFF RUNNING CASE.....	5.000		4.0	4329.0
TOTAL DEPTH					5578.0	

EQUIPMENT DATA