



TICKET NO. 70110200
10-OCT-83
GREAT BEND

FORMATION TESTING SERVICE REPORT

LEGAL LOCATION
SEC. - TWP. - RNG.

20-13-15

FIELD
AREA

COUNTY

PAWNEE

STATE

KANSAS SM

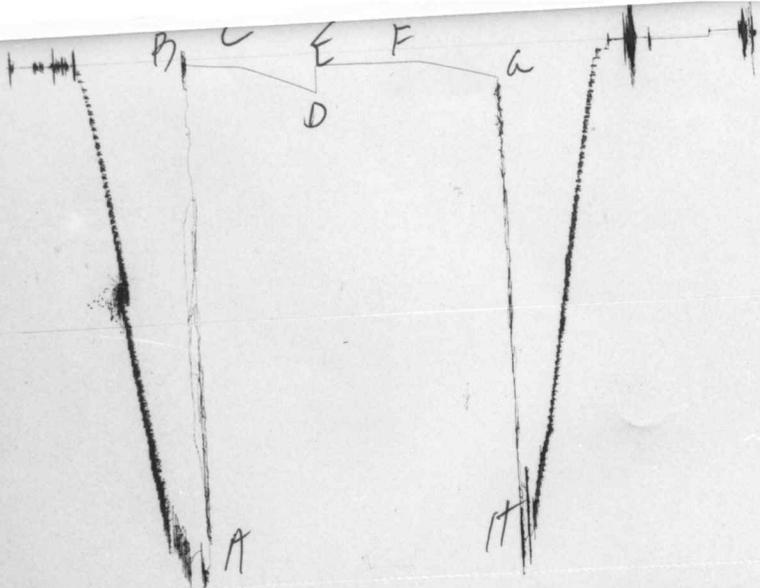
LEASE NAME

WELL NO.

TEST NO.

TESTED INTERVAL

LEASE OWNER/COMPANY NAME

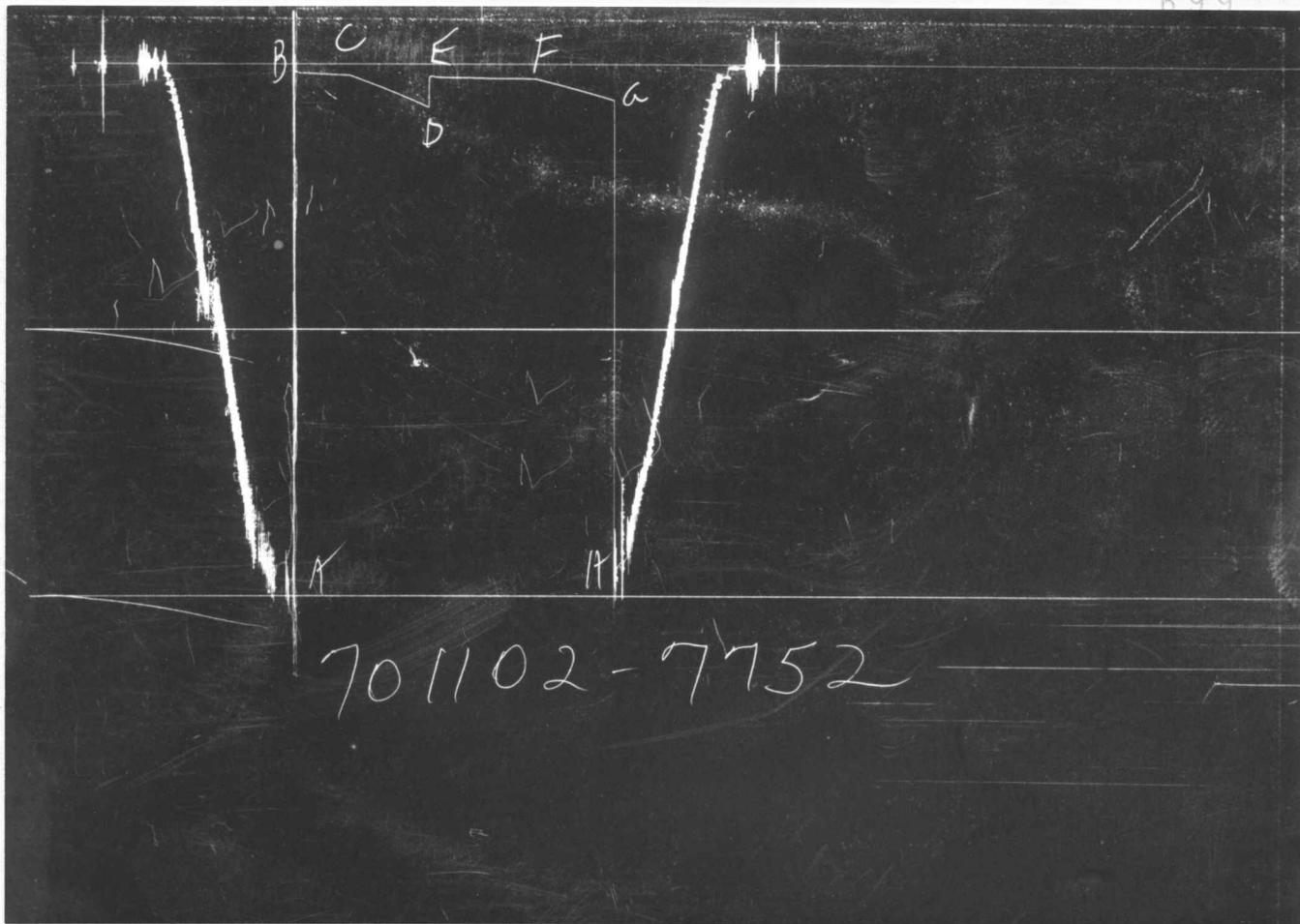


701102. 7751

7751-14532

GAUGE NO: 7751 DEPTH: 3773.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		1871.7			
B	INITIAL FIRST FLOW		17.9	30.0	30.0	F
C	FINAL FIRST FLOW		35.7			
C	INITIAL FIRST CLOSED-IN		35.7	45.0	45.0	C
D	FINAL FIRST CLOSED-IN		149.8			
E	INITIAL SECOND FLOW		47.9	60.0	60.0	F
F	FINAL SECOND FLOW		47.9			
F	INITIAL SECOND CLOSED-IN		47.9	45.0	45.0	C
G	FINAL SECOND CLOSED-IN		123.4			
H	FINAL HYDROSTATIC		1874.4			



GAUGE NO: 7752 DEPTH: 3803.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1983	1884.6			
B	INITIAL FIRST FLOW	40	27.3			
C	FINAL FIRST FLOW	40	42.4	30.0	30.0	F
C	INITIAL FIRST CLOSED-IN	40	42.4			
D	FINAL FIRST CLOSED-IN	180	166.3	45.0	45.0	C
E	INITIAL SECOND FLOW	60	47.8			
F	FINAL SECOND FLOW	60	57.3	60.0	60.0	F
F	INITIAL SECOND CLOSED-IN	60	57.3			
G	FINAL SECOND CLOSED-IN	140	136.7	45.0	45.0	C
H	FINAL HYDROSTATIC	1904	1880.0			

EQUIPMENT & HOLE DATA

FORMATION TESTED: LANSING (H-ZONE)
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 19.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 0
 TOTAL DEPTH (ft): 3806.0
 PACKER DEPTH(S) (ft): 3781. 3787
 FINAL SURFACE CHOKE (in): _____
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.40
 MUD VISCOSITY (sec): 38
 ESTIMATED HOLE TEMP. (°F): _____
 ACTUAL HOLE TEMP. (°F): 108 @ 3801.0 ft

TICKET NUMBER: 70110200
 DATE: 10-5-83 TEST NO: 1
 TYPE DST: OPEN HOLE
 HALLIBURTON CAMP: GREAT BEND
 TESTER: G.D. WILSON
 WITNESS: _____
 DRILLING CONTRACTOR: J AND W DRILLING #1

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:

40 FEET OF GAS AND OIL CUT MUD
 60 FEET OF HEAVY GAS AND OIL CUT MUD

MEASURED FROM
TESTER VALVE

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH
1	 DRILL PIPE.....	4.500	3.826	3190.0	
4	 FLEX WEIGHT.....	4.500	2.764	450.0	
50	 IMPACT REVERSING SUB.....	6.000	3.000	1.0	3640.0
4	 FLEX WEIGHT.....	4.500	2.764	120.0	
5	 CROSSOVER.....	5.750	2.875	0.8	
12	 DUAL CIP VALVE.....	5.000	0.750	6.3	
60	 HYDROSPRING TESTER.....	5.000	0.750	5.0	3771.0
80	 AP RUNNING CASE.....	5.000	3.060	4.1	3773.0
70	 OPEN HOLE PACKER.....	5.250	1.530	5.8	3781.0
70	 OPEN HOLE PACKER.....	5.250	1.530	5.8	3787.0
20	 FLUSH JOINT ANCHOR.....	5.000	3.840	12.0	
83	 HT-500 TEMPERATURE CASE.....	5.000		1.5	3801.0
81	 BLANKED-OFF RUNNING CASE.....	5.000		4.1	3803.0
	TOTAL DEPTH				3806.0

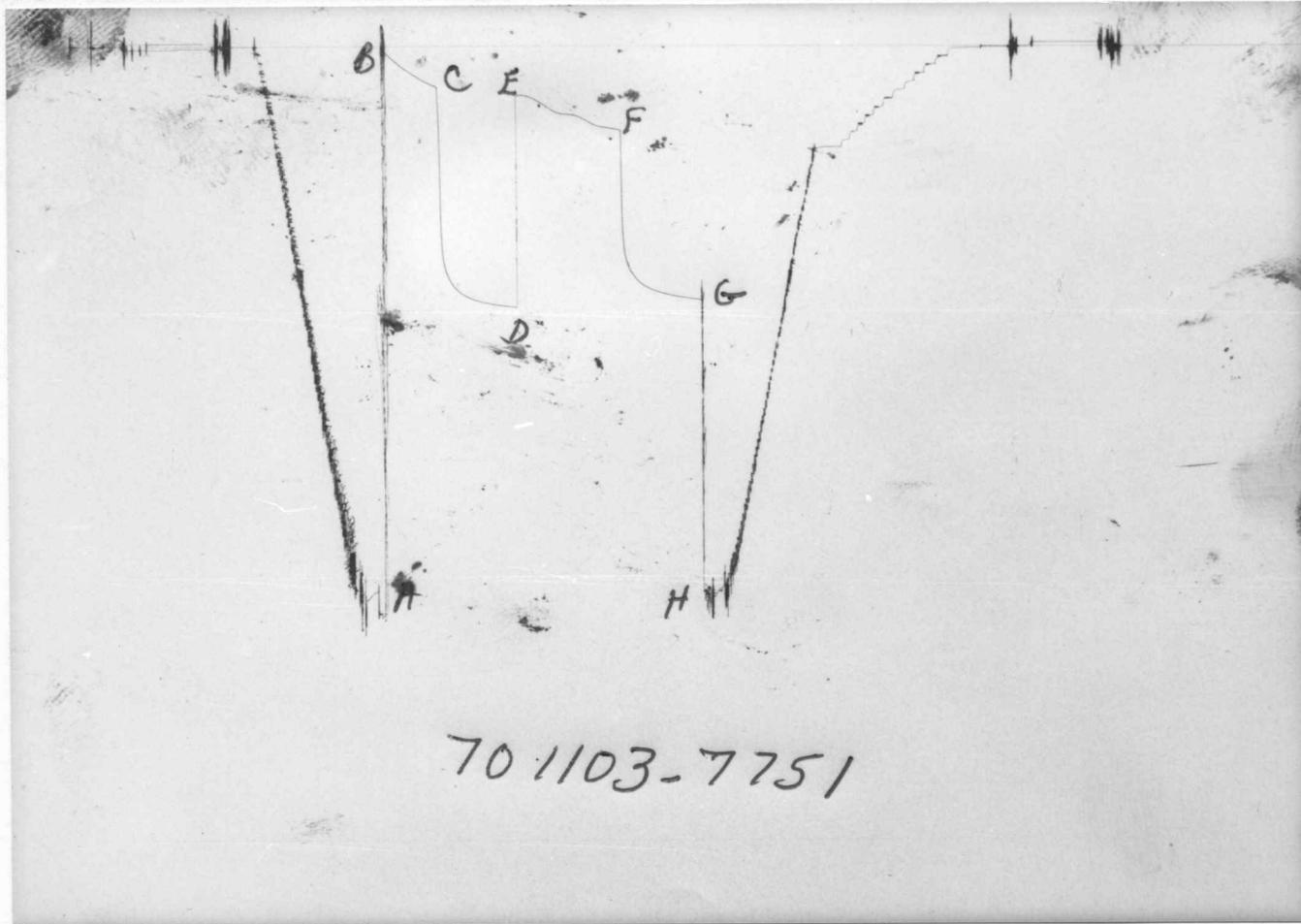
EQUIPMENT DATA



TICKET NO. 70110300
11-OCT-83
GREAT BEND

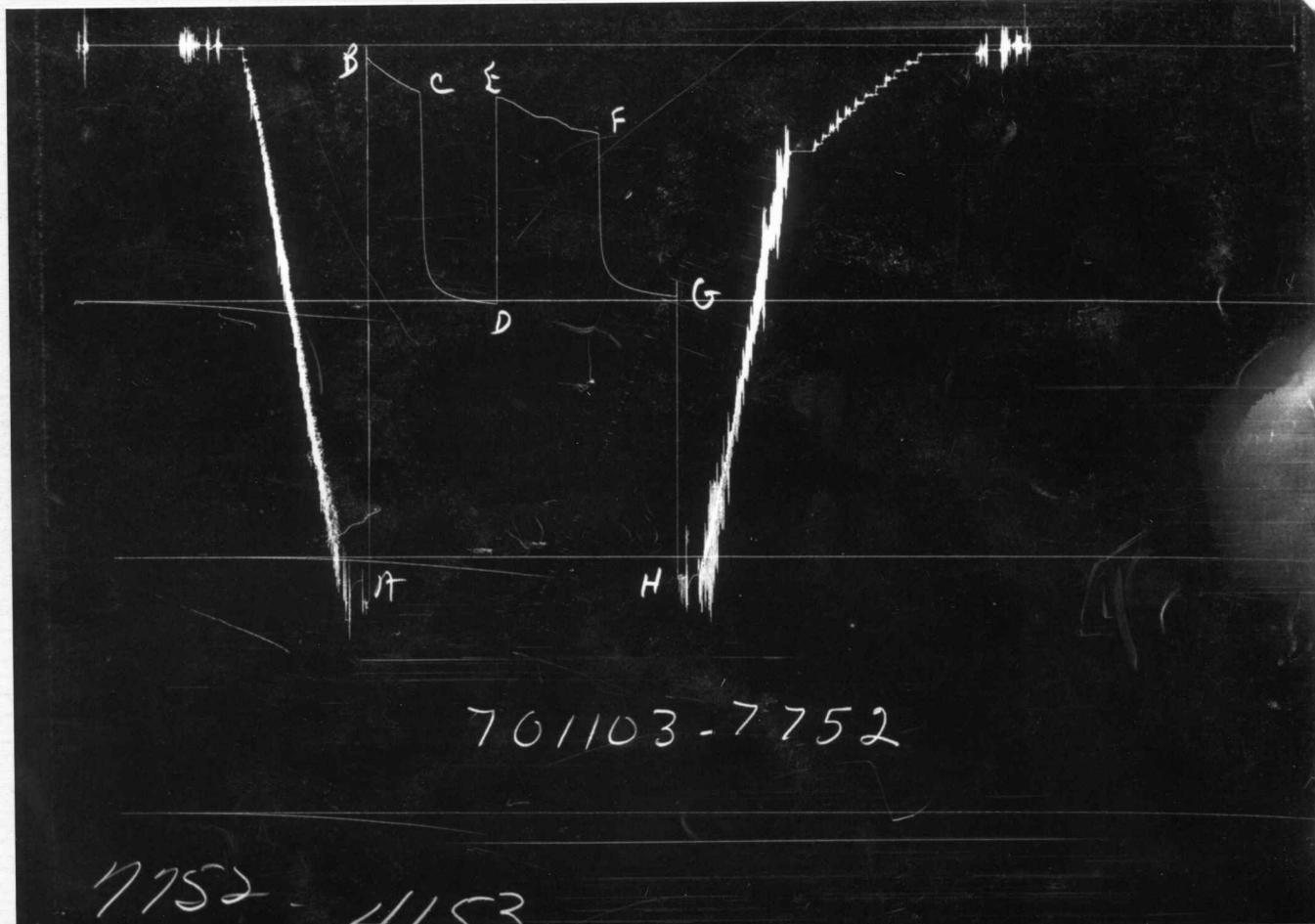
FORMATION TESTING SERVICE REPORT

COUININ
LEASE NAME
WELL NO.
TEST NO.
FIELD AREA
COUNTY
PRINCE SAND
STATE
LEASE OWNER/COMPANY NAME
LEGAL LOCATION
SEC. - TWP. - RNG.
20-13-15
KANSAS DR
TESTED INTERVAL



GAUGE NO: 7751 DEPTH: 4037.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2058.1			
B	INITIAL FIRST FLOW		15.6			
C	FINAL FIRST FLOW		155.8	30.0	31.0	F
C	INITIAL FIRST CLOSED-IN		155.8			
D	FINAL FIRST CLOSED-IN		987.6	45.0	44.1	C
E	INITIAL SECOND FLOW		193.1			
F	FINAL SECOND FLOW		322.8	60.0	59.9	F
F	INITIAL SECOND CLOSED-IN		322.8			
G	FINAL SECOND CLOSED-IN		960.0	45.0	45.0	C
H	FINAL HYDROSTATIC		2044.0			



GAUGE NO: 7752 DEPTH: 4102.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2181	2090.2			
B	INITIAL FIRST FLOW	60	49.3			
C	FINAL FIRST FLOW	200	186.4	30.0	31.0	F
C	INITIAL FIRST CLOSED-IN	200	186.4			
D	FINAL FIRST CLOSED-IN	1015	1014.4	45.0	44.1	C
E	INITIAL SECOND FLOW	200	207.3			
F	FINAL SECOND FLOW	339	351.4	60.0	59.9	F
F	INITIAL SECOND CLOSED-IN	339	351.4			
G	FINAL SECOND CLOSED-IN	995	987.5	45.0	45.0	C
H	FINAL HYDROSTATIC	2082	2071.5			

EQUIPMENT & HOLE DATA

FORMATION TESTED: SIMPSON SAND
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 47.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): _____
 ELEVATION (ft): 0
 TOTAL DEPTH (ft): 4105.0
 PACKER DEPTH(S) (ft): 4052, 4058
 FINAL SURFACE CHOKE (in): 0.125
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.70
 MUD VISCOSITY (sec): 40
 ESTIMATED HOLE TEMP. (°F): _____
 ACTUAL HOLE TEMP. (°F): 112 @ 4099.0 ft

TICKET NUMBER: 70110300
 DATE: 10-6-83 TEST NO: 2
 TYPE DST: OPEN HOLE
 HALLIBURTON CAMP:
GREAT BEND
 TESTER: WILSON
 WITNESS: _____
 DRILLING CONTRACTOR:
J & W DRILLING #1

FLUID PROPERTIES FOR RECOVERED MUD & WATER

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

SAMPLER DATA

P_{sig} 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:

840' OF OIL AND GAS WITH TRACE OF DRILLING MUD

MEASURED FROM TESTER VALVE

REMARKS:

TICKET NO: 70110300

CLOCK NO: 14232 HOUR: 12



GAUGE NO: 7751

DEPTH: 4037.0

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	15.6			
2	5.0	42.6	27.0		
3	10.0	70.9	28.3		
4	15.0	96.8	25.9		
5	20.0	117.3	20.5		
6	25.0	137.1	19.7		
7	30.0	152.3	15.2		
C 8	31.0	155.8	3.5		
FIRST CLOSED-IN					
C 1	0.0	155.8			
2	3.0	808.6	652.9	2.8	1.052
3	6.0	878.3	722.5	5.0	0.789
4	9.0	910.3	754.5	7.0	0.647
5	12.0	929.4	773.6	8.7	0.554
6	15.0	942.7	787.0	10.1	0.486
7	18.0	953.5	797.8	11.4	0.435
8	21.0	960.8	805.0	12.5	0.394
9	24.0	966.7	810.9	13.5	0.360
10	27.0	972.0	816.2	14.4	0.332
11	30.0	975.5	819.8	15.2	0.308
12	33.0	978.0	822.2	16.0	0.287
13	36.0	981.5	825.8	16.6	0.270
14	39.0	983.4	827.6	17.3	0.254
15	42.0	986.1	830.4	17.8	0.240
D 16	44.1	987.6	831.8	18.2	0.231
SECOND FLOW					
E 1	0.0	193.1			
2	10.0	199.0	5.9		
3	20.0	239.3	40.3		
4	30.0	260.0	20.6		
5	40.0	282.9	22.9		
6	50.0	309.4	26.5		
F 7	59.9	322.8	13.4		
SECOND CLOSED-IN					
F 1	0.0	322.8			
2	3.0	817.4	494.6	2.9	1.495
3	6.0	861.9	539.1	5.6	1.210
4	9.0	887.1	564.3	8.2	1.046
5	12.0	904.4	581.6	10.6	0.933
6	15.0	915.1	592.3	12.9	0.850
7	18.0	924.1	601.3	15.0	0.781
8	21.0	931.3	608.5	17.1	0.726
9	24.0	936.6	613.8	19.0	0.680

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
10	27.0	941.5	618.6	20.8	0.640
11	30.0	945.7	622.9	22.5	0.606
12	33.0	949.0	626.2	24.2	0.575
13	36.0	952.8	629.9	25.8	0.547
14	39.0	955.1	632.3	27.3	0.522
15	42.0	957.6	634.8	28.7	0.500
G 16	45.0	960.0	637.2	30.1	0.480

REMARKS:

TICKET NO: 70110300

CLOCK NO: 4153 HOUR: 12



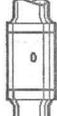
GAUGE NO: 7752

DEPTH: 4102.0

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	49.3			
2	5.0	79.1	29.8		
3	10.0	104.6	25.5		
4	15.0	129.4	24.8		
5	20.0	149.9	20.5		
6	25.0	168.6	18.7		
7	30.0	168.6	0.0		
C 8	31.0	186.4	17.9		
FIRST CLOSED-IN					
C 1	0.0	186.4			
2	3.0	852.3	665.8	2.7	1.059
3	6.0	918.4	731.9	5.0	0.790
4	9.0	946.9	760.5	7.0	0.647
5	12.0	964.8	778.4	8.7	0.554
6	15.0	976.1	789.6	10.1	0.487
7	18.0	984.8	798.3	11.4	0.435
8	21.0	991.8	805.4	12.5	0.394
9	24.0	996.5	810.1	13.5	0.360
10	27.0	1001.2	814.7	14.4	0.332
11	30.0	1003.6	817.1	15.2	0.308
12	33.0	1006.9	820.5	16.0	0.288
13	36.0	1009.9	823.5	16.7	0.270
14	39.0	1012.3	825.8	17.3	0.254
15	42.0	1013.9	827.4	17.8	0.240
D 16	44.1	1014.4	827.9	18.2	0.231
SECOND FLOW					
E 1	0.0	207.3			
2	10.0	227.8	20.5		
3	20.0	270.1	42.3		
4	30.0	286.0	16.0		
5	40.0	313.6	27.5		
6	50.0	337.1	23.6		
F 7	59.9	351.4	14.3		
SECOND CLOSED-IN					
F 1	0.0	351.4			
2	3.0	857.4	506.0	2.9	1.503
3	6.0	899.5	548.1	5.6	1.208
4	9.0	920.8	569.4	8.2	1.046
5	12.0	936.6	585.2	10.6	0.932
6	15.0	945.7	594.2	12.9	0.849
7	18.0	953.2	601.8	15.0	0.782
8	21.0	960.0	608.6	17.0	0.727
9	24.0	965.6	614.2	19.0	0.680

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
10	27.0	970.4	619.0	20.8	0.640
11	30.0	973.6	622.2	22.6	0.605
12	33.0	977.3	625.9	24.2	0.574
13	36.0	980.2	628.8	25.8	0.547
14	39.0	982.4	631.0	27.3	0.523
15	42.0	985.5	634.1	28.7	0.500
G 16	45.0	987.5	636.1	30.1	0.480

REMARKS:

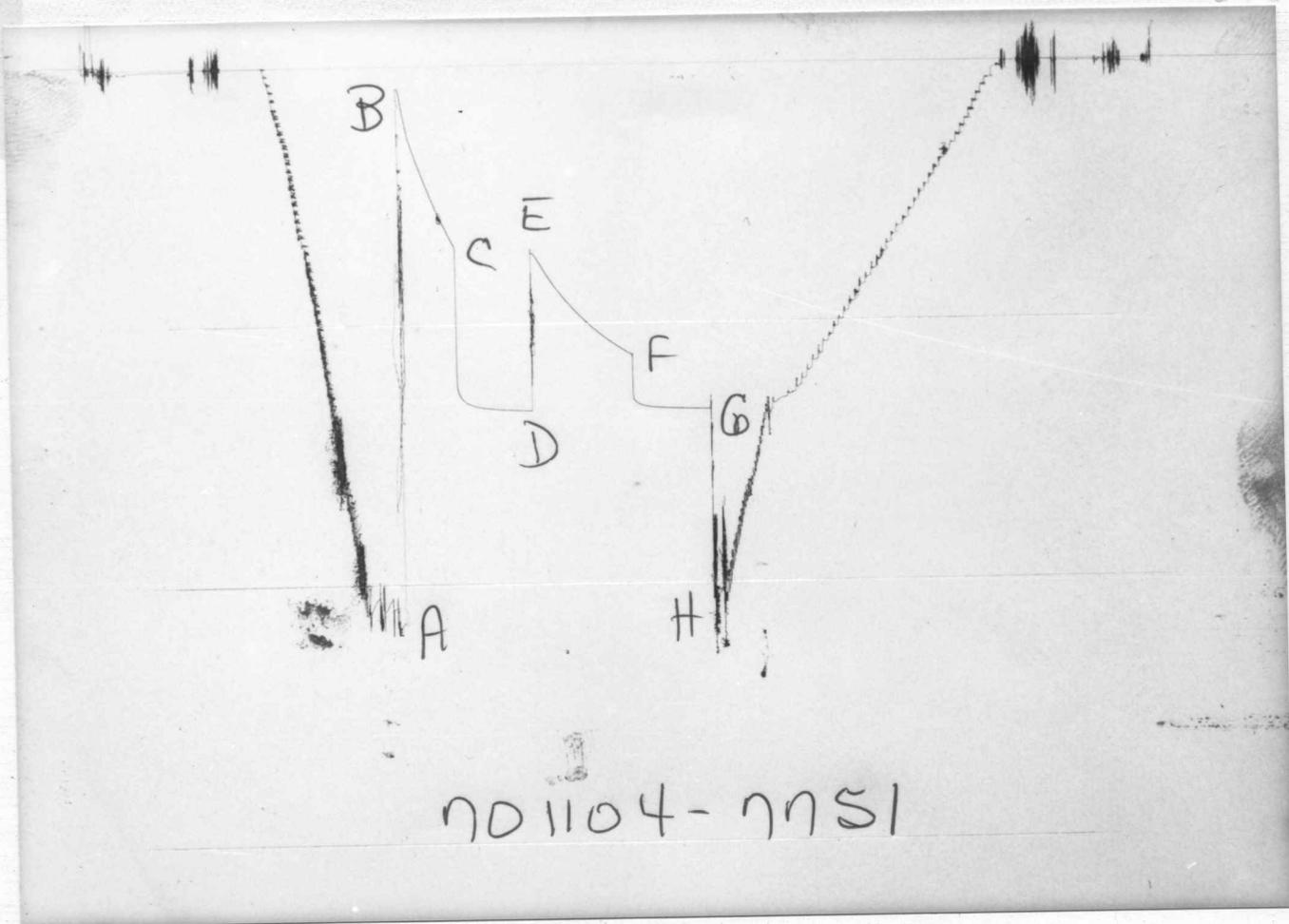
		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	3454.0	
4		FLEX WEIGHT.....	4.500	2.764	450.0	
50		IMPACT REVERSING SUB.....	6.000	3.000	1.0	3904.0
4		FLEX WEIGHT.....	4.500	2.764	120.0	
5		CROSSOVER.....	5.750	2.875	0.8	
12		DUAL CIP VALVE.....	5.000	0.750	6.3	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	4035.0
80		AP RUNNING CASE.....	5.000	3.060	4.1	4037.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	2.8	
70		OPEN HOLE PACKER.....	5.250	1.530	5.8	4052.0
70		OPEN HOLE PACKER.....	5.250	1.530	5.8	4058.0
20		FLUSH JOINT ANCHOR.....	5.000	3.840	40.0	
83		HT-500 TEMPERATURE CASE.....	5.000		1.5	4099.0
81		BLANKED-OFF RUNNING CASE.....	5.000		4.1	4102.0
TOTAL DEPTH					4105.0	

COSSMAN 7 WELL NO. 3 TEST NO. 4101.1 - 4130.1 ALPINE DRILLING COMPANY, INCORPORATED
 LEASE NAME LEASE OWNER/COMPANY NAME
 LEGAL LOCATION 20 - 13 - 15 FIELD AREA COUNTY PAVNEE STATE KANSAS PW
 SEC. - TWP. - RNG.



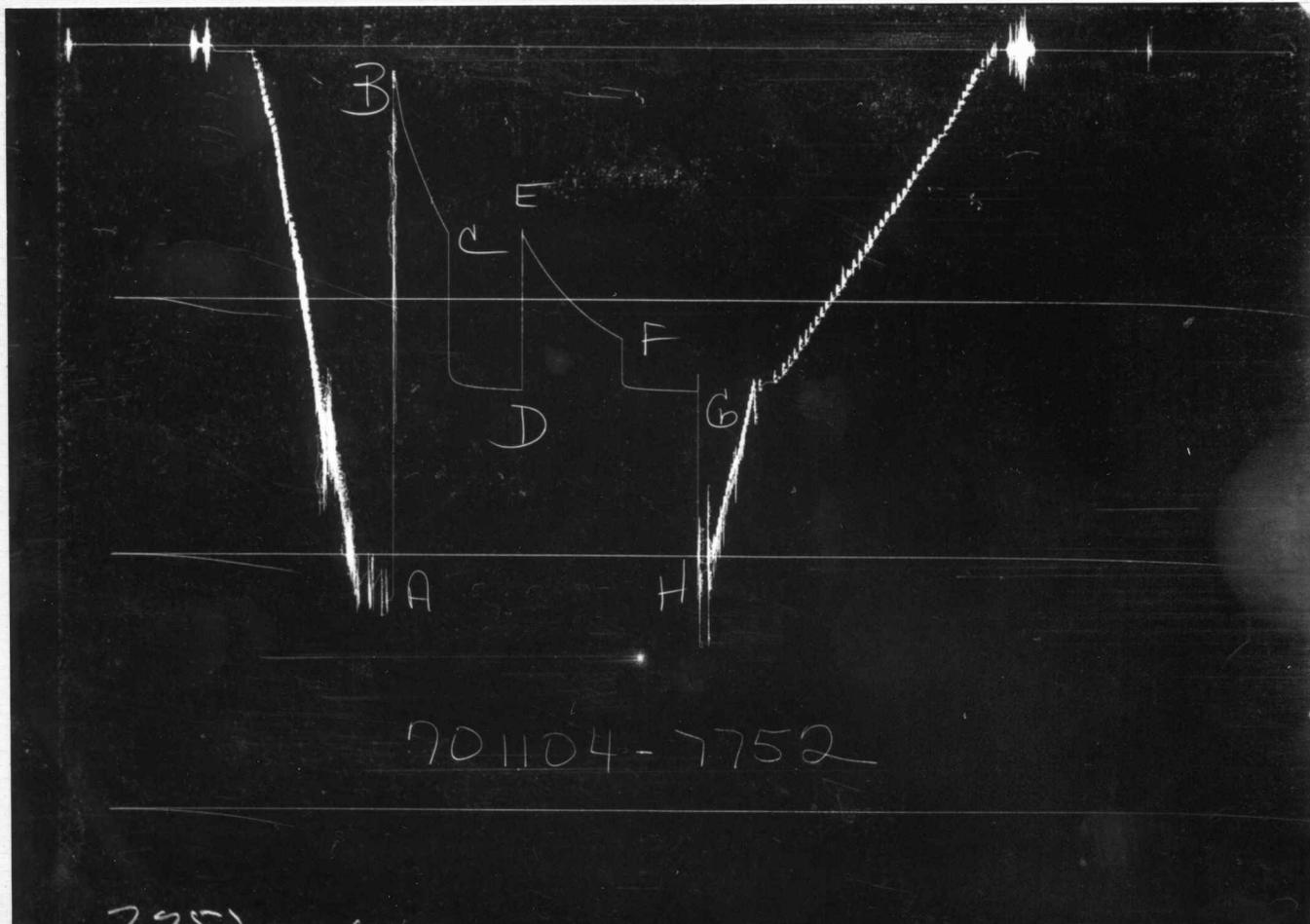
TICKET NO. 70110400
 11-OCT-83
 GREAT BEND

FORMATION TESTING SERVICE REPORT



GAUGE NO: 7751 DEPTH: 4080.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2048.5			
B	INITIAL FIRST FLOW		88.1			
C	FINAL FIRST FLOW		699.7	30.0	32.8	F
C	INITIAL FIRST CLOSED-IN		699.7	45.0	43.6	C
D	FINAL FIRST CLOSED-IN		1331.6			
E	INITIAL SECOND FLOW		726.4			
F	FINAL SECOND FLOW		1119.7	60.0	58.7	F
F	INITIAL SECOND CLOSED-IN		1119.7	45.0	44.9	C
G	FINAL SECOND CLOSED-IN		1332.8			
H	FINAL HYDROSTATIC		2032.2			



GAUGE NO: 7752 DEPTH: 4127.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2181	2065.7			
B	INITIAL FIRST FLOW	100	99.7			
C	FINAL FIRST FLOW	737	737.9	30.0	32.8	F
C	INITIAL FIRST CLOSED-IN	737	737.9	45.0	43.6	C
D	FINAL FIRST CLOSED-IN	1351	1350.5			
E	INITIAL SECOND FLOW	737	748.6			
F	FINAL SECOND FLOW	1153	1148.1	60.0	58.7	F
F	INITIAL SECOND CLOSED-IN	1153	1148.1	45.0	44.9	C
G	FINAL SECOND CLOSED-IN	1351	1352.5			
H	FINAL HYDROSTATIC	2082	2050.2			

TICKET NO: 70110400
 CLOCK NO: 14232 HOUR: 12



GAUGE NO: 7751
 DEPTH: 4080.0

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	88.1		
	2	5.0	228.0	139.8	
	3	10.0	348.3	120.3	
	4	15.0	439.0	90.7	
	5	20.0	524.5	85.4	
	6	25.0	599.1	74.7	
	7	30.0	666.7	67.6	
C	8	32.8	699.7	33.0	
FIRST CLOSED-IN					
C	i	0.0	699.7		
	2	3.0	1281.5	581.8	2.7 1.083
	3	6.0	1299.8	600.1	5.1 0.809
	4	9.0	1308.1	608.4	7.1 0.667
	5	12.0	1314.0	614.3	8.8 0.572
	6	15.0	1318.3	618.6	10.3 0.503
	7	18.0	1320.6	620.9	11.6 0.450
	8	21.0	1323.0	623.3	12.8 0.408
	9	24.0	1324.9	625.1	13.8 0.374
	10	27.0	1326.1	626.4	14.8 0.345
	11	30.0	1327.5	627.8	15.7 0.321
	12	33.0	1328.5	628.8	16.4 0.299
	13	36.0	1329.5	629.8	17.2 0.281
	14	39.0	1330.6	630.9	17.8 0.265
	15	42.0	1331.3	631.6	18.4 0.250
D	16	43.6	1331.6	631.9	18.7 0.243
SECOND FLOW					
E	1	0.0	726.4		
	2	10.0	816.6	90.2	
	3	20.0	905.7	89.1	
	4	30.0	977.7	72.0	
	5	40.0	1038.1	60.4	
	6	50.0	1085.6	47.5	
F	7	58.7	1119.7	34.1	
SECOND CLOSED-IN					
F	1	0.0	1119.7		
	2	3.0	1308.4	188.7	2.9 1.495
	3	6.0	1316.1	196.4	5.6 1.211
	4	9.0	1320.5	200.8	8.2 1.048
	5	12.0	1323.1	203.4	10.6 0.936
	6	15.0	1324.8	205.0	12.9 0.852
	7	18.0	1325.9	206.2	15.0 0.784
	8	21.0	1327.0	207.3	17.1 0.728
	9	24.0	1328.0	208.3	19.0 0.682

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
	10	27.0	1328.8	209.1	20.8 0.643
	11	30.0	1329.3	209.6	22.6 0.607
	12	33.0	1330.1	210.4	24.2 0.577
	13	36.0	1330.8	211.0	25.8 0.549
	14	39.0	1331.3	211.5	27.3 0.525
	15	42.0	1332.1	212.3	28.8 0.502
G	16	44.9	1332.8	213.1	30.1 0.483

REMARKS:

TICKET NO: 70110400
 CLOCK NO: 4153 HOUR: 12



GAUGE NO: 7752
 DEPTH: 4127.0

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	99.7		
	2	5.0	275.6	175.9	
	3	10.0	390.2	114.6	
	4	15.0	482.0	91.9	
	5	20.0	562.8	80.8	
	6	25.0	637.5	74.6	
	7	30.0	705.3	67.9	
C	8	32.8	737.9	32.6	
FIRST CLOSED-IN					
C	1	0.0	737.9		
	2	3.0	1311.5	573.5	2.7 1.081
	3	6.0	1325.1	587.2	5.1 0.811
	4	9.0	1332.2	594.2	7.1 0.665
	5	12.0	1336.0	598.1	8.8 0.572
	6	15.0	1339.1	601.2	10.3 0.502
	7	18.0	1341.0	603.0	11.6 0.450
	8	21.0	1343.2	605.2	12.8 0.408
	9	24.0	1344.4	606.4	13.8 0.374
	10	27.0	1345.6	607.7	14.8 0.345
	11	30.0	1347.1	609.2	15.6 0.321
	12	33.0	1347.9	610.0	16.4 0.299
	13	36.0	1348.9	611.0	17.1 0.281
	14	39.0	1349.2	611.3	17.8 0.265
	15	42.0	1350.1	612.2	18.4 0.251
D	16	43.6	1350.5	612.6	18.7 0.243
SECOND FLOW					
E	1	0.0	748.6		
	2	10.0	853.0	104.3	
	3	20.0	941.5	88.5	
	4	30.0	1011.7	70.2	
	5	40.0	1069.7	58.0	
	6	50.0	1115.0	45.3	
F	7	58.7	1148.1	33.1	
SECOND CLOSED-IN					
F	1	0.0	1148.1		
	2	3.0	1335.2	187.1	2.9 1.501
	3	6.0	1340.2	192.1	5.6 1.210
	4	9.0	1342.4	194.3	8.2 1.048
	5	12.0	1344.2	196.0	10.6 0.935
	6	15.0	1345.7	197.6	12.9 0.850
	7	18.0	1346.5	198.4	15.0 0.785
	8	21.0	1347.8	199.7	17.1 0.729
	9	24.0	1348.6	200.5	19.0 0.683

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
	10	27.0	1349.0	200.9	20.8 0.643
	11	30.0	1349.9	201.8	22.6 0.607
	12	33.0	1350.6	202.5	24.3 0.576
	13	36.0	1351.2	203.1	25.8 0.549
	14	39.0	1351.6	203.5	27.3 0.524
	15	42.0	1352.3	204.2	28.8 0.502
G	16	44.9	1352.5	204.4	30.1 0.483

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	3497.0	
4		FLEX WEIGHT.....	4.500	2.764	450.0	
50		IMPACT REVERSING SUB.....	4.500	3.000	1.0	3947.0
4		FLEX WEIGHT.....	4.500	2.764	120.0	
5		CROSSOVER.....	5.750	2.875	0.8	
12		DUAL CIP VALVE.....	5.000	0.750	6.3	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	4078.0
80		AP RUNNING CASE.....	5.000	3.060	4.1	4080.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	2.8	
70		OPEN HOLE PACKER.....	5.250	1.530	5.8	4095.0
70		OPEN HOLE PACKER.....	5.250	1.530	5.8	4101.0
20		FLUSH JOINT ANCHOR.....	5.000	3.840	22.0	
83		HT-500 TEMPERATURE CASE.....	5.000		1.5	4124.0
81		BLANKED-OFF RUNNING CASE.....	5.000		4.1	4127.0
TOTAL DEPTH						4130.0