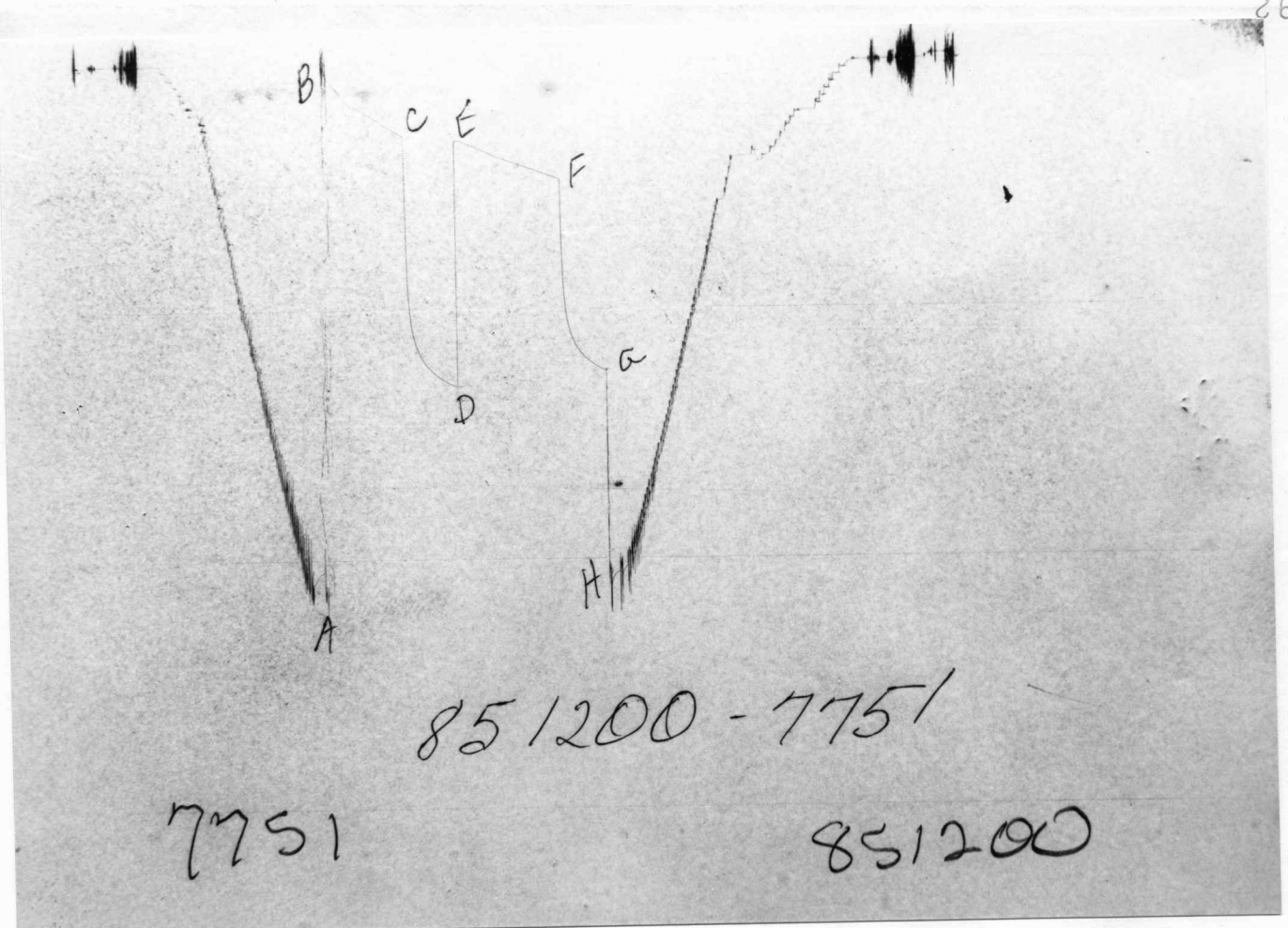


SLOAN
 LEASE NAME
 LEGAL LOCATION
 SEC. - TWP. - RANG. 27-28-20
 WELL NO. 2
 TEST NO. 1
 FIELD AREA
 COUNTY KIDWA
 STATE KANSAS
 SM
 4366.2 - 4400.0
 TESTED INTERVAL
 J. MARK RICHARDSON
 LEASE OWNER/COMPANY NAME

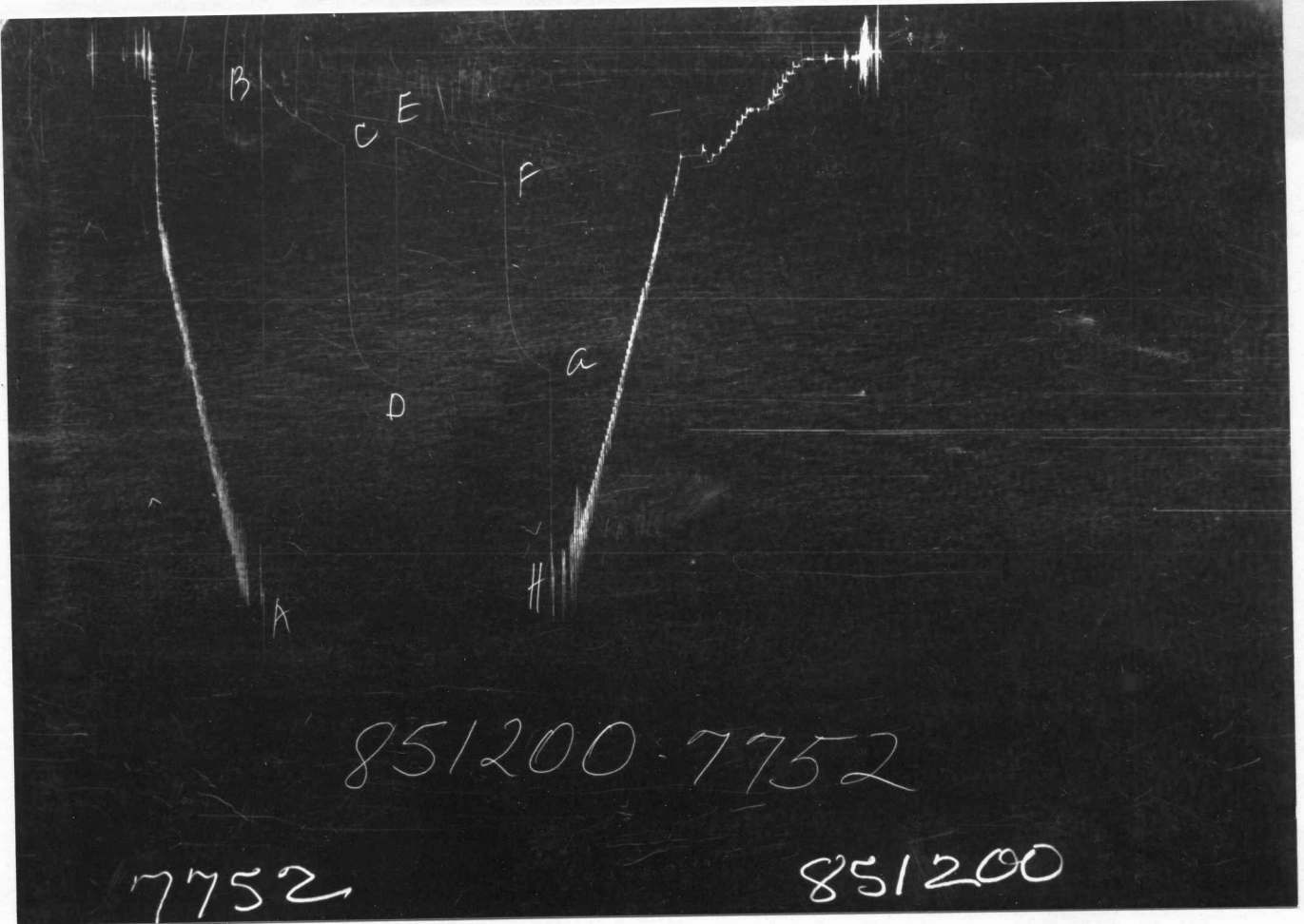
J. MARK RICHARDSON
 LEASE : SLOAN
 WELL NO. : 2
 TEST NO. : 1

TICKET NO. 85120000
 20-DEC-89
 GREAT BEND



GAUGE NO: 7751 DEPTH: 4345.1 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2047.4			
B	INITIAL FIRST FLOW		21.1			
C	FINAL FIRST FLOW		298.8	45.0	47.5	F
C	INITIAL FIRST CLOSED-IN		298.8			
D	FINAL FIRST CLOSED-IN		1306.8	30.0	29.6	C
E	INITIAL SECOND FLOW		315.7			
F	FINAL SECOND FLOW		475.6	60.0	62.6	F
F	INITIAL SECOND CLOSED-IN		475.6			
G	FINAL SECOND CLOSED-IN		1246.5	30.0	25.3	C
H	FINAL HYDROSTATIC		2053.1			



GAUGE NO: 7752 DEPTH: 4397.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2083	2080.1			
B	INITIAL FIRST FLOW	101	94.6			
C	FINAL FIRST FLOW	385	376.7	45.0	47.5	F
C	INITIAL FIRST CLOSED-IN	385	376.7			
D	FINAL FIRST CLOSED-IN	1335	1340.4	30.0	29.6	C
E	INITIAL SECOND FLOW	364	346.5			
F	FINAL SECOND FLOW	486	509.7	60.0	62.6	F
F	INITIAL SECOND CLOSED-IN	486	509.7			
G	FINAL SECOND CLOSED-IN	1296	1281.6	30.0	25.3	C
H	FINAL HYDROSTATIC	2083	2087.5			

EQUIPMENT & HOLE DATA

FORMATION TESTED: KANSAS CITY
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 33.8
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 2346.0 KELLY BUSHING
 TOTAL DEPTH (ft): 4400.0
 PACKER DEPTH(S) (ft): 4360, 4366
 FINAL SURFACE CHOKE (in): _____
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.00
 MUD VISCOSITY (sec): 39
 ESTIMATED HOLE TEMP. (°F): 101
 ACTUAL HOLE TEMP. (°F): _____ @ _____ ft

TICKET NUMBER: 85120000

DATE: 12-12-89 TEST NO: 1

TYPE DST: OPEN HOLE

FIELD CAMP:
GREAT BEND

TESTER: D. BROZEK

WITNESS: J. MARK RICHARDSON

DRILLING CONTRACTOR:
GABBERT & JONES RIG #11

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>PIT MUD</u>	_____ @ _____ °F	<u>10500</u> ppm
<u>TEST WATER</u>	_____ @ _____ °F	<u>119850</u> 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 :

- 1140 FEET OF GAS IN PIPE
- 120 FEET OF GASSY OIL CUT MUD
- 180 FEET OF GASSY OILY WATERY MUD
- 660 FEET OF SALT WATER

MEASURED FROM TESTER VALVE

REMARKS :

GRIND OUT = 50% MUD, 37.5% OIL, 2.5% GAS, & 10% WATER

CHARTS INDICATE POSSIBLE PARTIAL PLUGGING OF ANCHOR PIPE PERFORATIONS DURING FIRST FLOW PERIOD.

TICKET NO: 85120000

CLOCK NO: 4153 HOUR: 12

GAUGE NO: 7751

DEPTH: 4345.1

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	21.1		
	2	4.0	70.2	49.0	
	3	8.0	105.2	35.0	
	4	12.0	140.8	35.6	
	5	16.0	171.0	30.2	
	6	20.0	182.5	11.5	
	7	24.0	197.5	15.0	
	8	28.0	214.0	16.5	
	9	32.0	234.2	20.2	
	10	36.0	252.6	18.4	
	11	40.0	268.4	15.8	
C	12	47.5	298.8	30.4	
FIRST CLOSED-IN					
C	1	0.0	298.8		
	2	1.0	831.9	533.1	1.0 1.689
	3	2.0	983.5	684.7	1.9 1.394
	4	3.0	1047.8	749.0	2.8 1.232
	5	4.0	1092.6	793.9	3.7 1.112
	6	5.0	1124.4	825.7	4.5 1.020
	7	6.0	1147.1	848.3	5.3 0.949
	8	7.0	1164.9	866.1	6.1 0.889
	9	8.0	1179.4	880.7	6.8 0.842
	10	9.0	1192.9	894.2	7.6 0.797
	11	10.0	1203.9	905.1	8.3 0.760
	12	12.0	1223.0	924.2	9.6 0.696
	13	14.0	1238.5	939.7	10.8 0.642
	14	16.0	1251.5	952.7	12.0 0.599
	15	18.0	1262.7	963.9	13.0 0.562
	16	20.0	1272.8	974.0	14.1 0.528
	17	22.0	1281.3	982.5	15.0 0.500
	18	24.0	1288.6	989.8	15.9 0.474
	19	26.0	1295.9	997.1	16.8 0.451
	20	28.0	1302.6	1003.9	17.6 0.431
D	21	29.6	1306.8	1008.0	18.2 0.416
SECOND FLOW					
E	1	0.0	315.7		
	2	5.0	320.1	4.4	
	3	10.0	334.6	14.5	
	4	15.0	350.4	15.8	
	5	20.0	365.2	14.7	
	6	25.0	381.0	15.8	
	7	30.0	394.0	13.0	
	8	35.0	406.6	12.6	
	9	40.0	418.7	12.0	
	10	45.0	430.9	12.2	
	11	50.0	443.4	12.5	

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
	12	55.0	455.2	11.8	
	13	60.0	467.8	12.5	
F	14	62.6	475.6	7.8	
SECOND CLOSED-IN					
F	1	0.0	475.6		
	2	1.0	862.2	386.7	1.0 2.041
	3	2.0	979.8	504.2	2.0 1.741
	4	3.0	1030.9	555.3	3.0 1.571
	5	4.0	1065.7	590.1	3.8 1.458
	6	5.0	1093.1	617.5	4.8 1.362
	7	6.0	1113.7	638.2	5.7 1.285
	8	7.0	1128.9	653.4	6.5 1.226
	9	8.0	1143.4	667.9	7.5 1.169
	10	9.0	1155.7	680.1	8.4 1.120
	11	10.0	1164.9	689.3	9.1 1.081
	12	12.0	1182.8	707.2	10.8 1.007
	13	14.0	1197.0	721.4	12.5 0.946
	14	16.0	1208.9	733.4	14.0 0.896
	15	18.0	1218.8	743.3	15.4 0.853
	16	20.0	1226.8	751.2	16.9 0.814
	17	22.0	1235.0	759.4	18.3 0.779
	18	24.0	1242.6	767.1	19.7 0.747
G	19	25.3	1246.5	770.8	20.6 0.729

REMARKS:

TICKET NO: 85120000
 CLOCK NO: 16166 HOUR: 12



GAUGE NO: 7752
 DEPTH: 4397.0

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	94.5			
2	4.0	129.1	34.5		
3	8.0	186.6	57.5		
4	12.0	195.9	9.2		
5	16.0	244.1	48.2		
6	20.0	242.6	-1.4		
7	24.0	280.1	37.5		
8	28.0	290.2	10.1		
9	32.0	314.3	24.1		
10	36.0	332.9	18.5		
11	40.0	350.8	17.9		
C 12	47.5	376.7	25.9		
FIRST CLOSED-IN					
C 1	0.0	376.7			
2	1.0	910.5	533.8	1.0	1.678
3	2.0	1033.3	656.6	1.9	1.394
4	3.0	1101.7	725.0	2.9	1.220
5	4.0	1135.7	759.0	3.7	1.109
6	5.0	1164.9	788.2	4.5	1.025
7	6.0	1187.8	811.0	5.3	0.949
8	7.0	1203.9	827.2	6.1	0.894
9	8.0	1216.9	840.2	6.8	0.843
10	9.0	1232.9	856.2	7.6	0.796
11	10.0	1243.5	866.8	8.3	0.759
12	12.0	1262.2	885.5	9.6	0.696
13	14.0	1276.6	899.9	10.8	0.643
14	16.0	1289.0	912.3	12.0	0.598
15	18.0	1300.0	923.3	13.1	0.561
16	20.0	1309.4	932.7	14.1	0.528
17	22.0	1317.2	940.5	15.0	0.500
18	24.0	1324.8	948.1	15.9	0.474
19	26.0	1331.2	954.5	16.8	0.451
20	28.0	1337.4	960.7	17.6	0.431
D 21	29.5	1340.4	963.7	18.2	0.416
SECOND FLOW					
E 1	0.0	346.5			
2	5.0	351.3	4.8		
3	10.0	366.0	14.7		
4	15.0	382.4	16.4		
5	20.0	398.2	15.8		
6	25.0	413.0	14.8		
7	30.0	427.2	14.2		
8	35.0	439.6	12.4		
9	40.0	452.7	13.1		
10	45.0	466.1	13.5		
11	50.0	478.5	12.4		

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
12	55.0	491.4	12.9		
13	60.0	502.6	11.2		
F 14	62.5	509.7	7.2		
SECOND CLOSED-IN					
F 1	0.0	509.7			
2	1.0	952.3	442.5	1.0	2.050
3	2.0	1042.6	532.9	2.0	1.743
4	3.0	1085.1	575.4	2.9	1.574
5	4.0	1115.5	605.7	3.9	1.453
6	5.0	1137.5	627.7	4.7	1.366
7	6.0	1158.0	648.3	5.7	1.287
8	7.0	1170.6	660.9	6.6	1.221
9	8.0	1183.1	673.3	7.4	1.171
10	9.0	1195.7	686.0	8.4	1.120
11	10.0	1204.1	694.4	9.2	1.079
12	12.0	1219.7	709.9	10.8	1.008
13	14.0	1233.5	723.8	12.4	0.947
14	16.0	1245.1	735.4	14.0	0.897
15	18.0	1254.6	744.8	15.5	0.852
16	20.0	1264.2	754.4	16.9	0.813
17	22.0	1271.2	761.5	18.3	0.779
18	24.0	1278.5	768.8	19.7	0.747
G 19	25.3	1281.6	771.8	20.6	0.729

REMARKS:

TICKET NO. 85120000

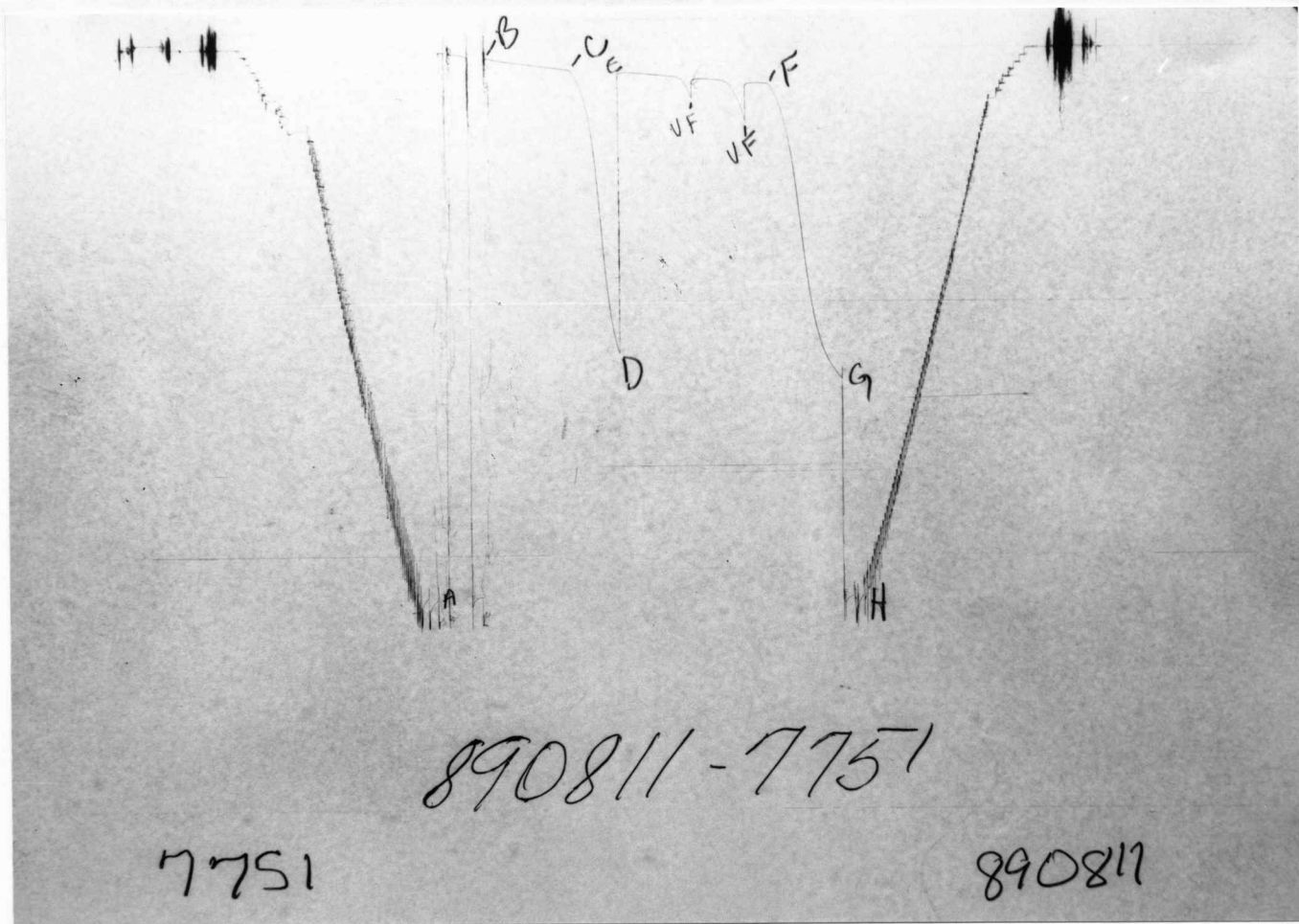
		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.825	3880.4	
3		DRILL COLLARS.....	6.250	2.250	330.0	
50		IMPACT REVERSING SUB.....	5.750	2.750	1.0	4211.4
3		DRILL COLLARS.....	6.250	2.250	121.0	
5		CROSSOVER.....	4.500	2.762	1.0	
12		DUAL CIP VALVE.....	5.750	0.870	6.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	4343.9
80		AP RUNNING CASE.....	5.000	2.250	4.1	4345.1
15		JAR.....	5.000	1.000	2.8	
16		VR SAFETY JOINT.....	5.000	1.000	5.0	
70		OPEN HOLE PACKER.....	6.750	1.530	5.8	4360.4
70		OPEN HOLE PACKER.....	6.750	1.530	5.8	4366.2
20		FLUSH JOINT ANCHOR.....	5.000	2.440	28.0	
81		BLANKED-OFF RUNNING CASE.....	5.000		4.1	4397.0
TOTAL DEPTH					4400.0	

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SLOAN
 LEASE NAME
 2
 WELL NO.
 2
 TEST NO.
 4639.0 - 4671.0
 TESTED INTERVAL
 J. MARK RICHARDSON
 LEASE OWNER/COMPANY NAME
 LEGAL LOCATION
 SEC. - TWP. - RANG.
 27-28-20
 FIELD AREA
 COUNTY
 KIDWA
 STATE
 KANSAS
 SM

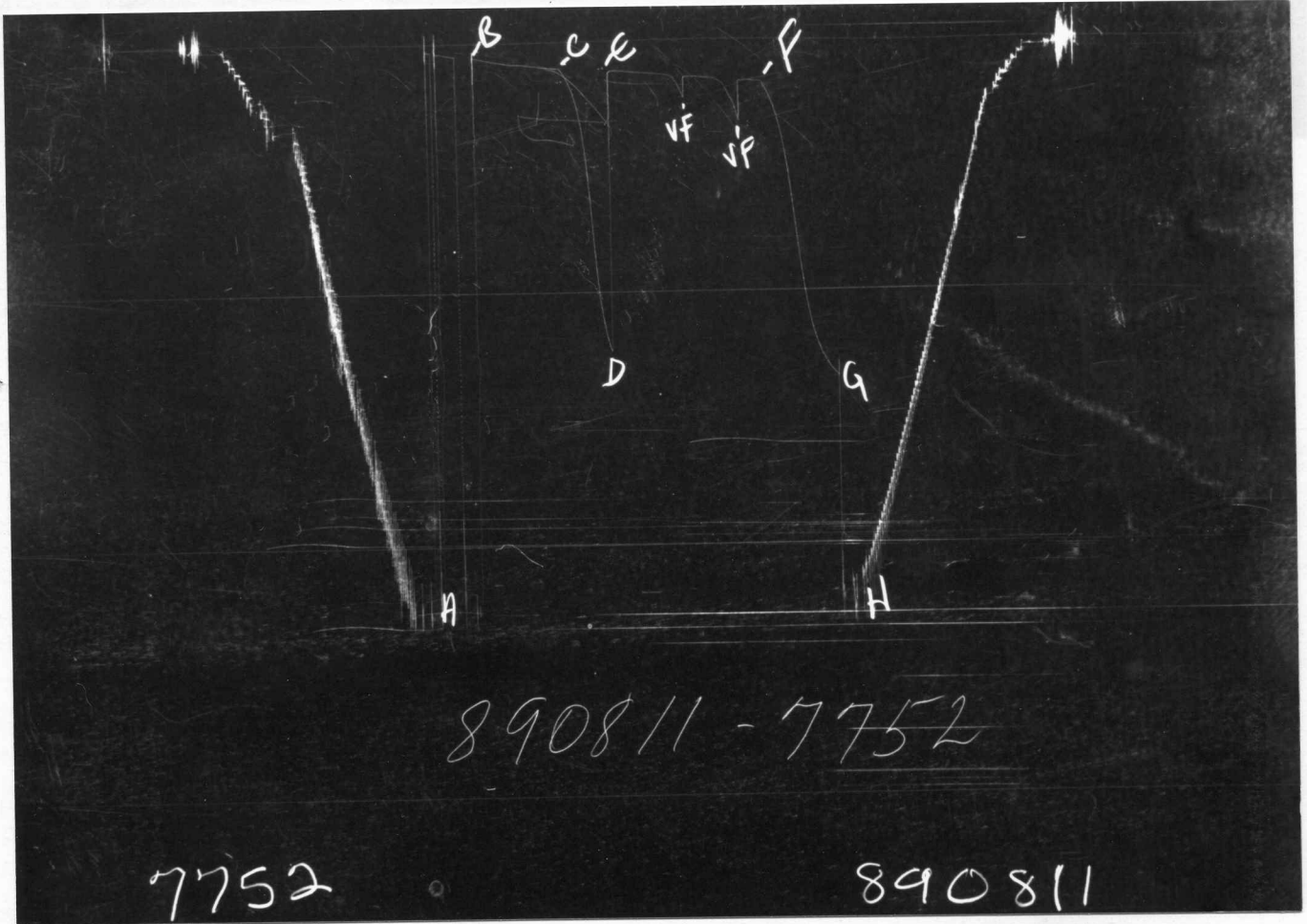
J. MARK RICHARDSON
 LEASE : SLOAN
 WELL NO. : 2
 TEST NO. : 2

TICKET NO. 89081100
 20-DEC-89
 GREAT BEND



GAUGE NO: 7751 DEPTH: 4617.1 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2178.5			
B	INITIAL FIRST FLOW		36.4			
C	FINAL FIRST FLOW		86.4	45.0	50.5	F
C	INITIAL FIRST CLOSED-IN		86.4			
D	FINAL FIRST CLOSED-IN		1202.9	30.0	27.9	C
E	INITIAL SECOND FLOW		101.8			
F	FINAL SECOND FLOW		143.0	90.0	89.0	F
F	INITIAL SECOND CLOSED-IN		143.0			
G	FINAL SECOND CLOSED-IN		1307.9	45.0	42.5	C
H	FINAL HYDROSTATIC		2168.6			



GAUGE NO: 7752 DEPTH: 4668.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2182	2199.1			
B	INITIAL FIRST FLOW	81	57.0			
C	FINAL FIRST FLOW	122	104.6	45.0	50.5	F
C	INITIAL FIRST CLOSED-IN	122	104.6			
D	FINAL FIRST CLOSED-IN	1198	1231.3	30.0	27.9	C
E	INITIAL SECOND FLOW	122	121.9			
F	FINAL SECOND FLOW	142	163.6	90.0	89.0	F
F	INITIAL SECOND CLOSED-IN	142	163.6			
G	FINAL SECOND CLOSED-IN	1296	1340.6	45.0	42.5	C
H	FINAL HYDROSTATIC	2182	2194.1			

EQUIPMENT & HOLE DATA

FORMATION TESTED: KANSAS CITY
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 32.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 2346.0 KELLY BUSHING
 TOTAL DEPTH (ft): 4671.0
 PACKER DEPTH(S) (ft): 4632, 4639
 FINAL SURFACE CHOKE (in): _____
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.10
 MUD VISCOSITY (sec): 43
 ESTIMATED HOLE TEMP. (°F): 103
 ACTUAL HOLE TEMP. (°F): _____ @ _____ ft

TICKET NUMBER: 89081100

DATE: 12-14-89 TEST NO: 2

TYPE DST: OPEN HOLE

FIELD CAMP:
GREAT BEND

TESTER: D. BROZEK
FRANK SNYDER

WITNESS: J. MARK RICHARDSON

DRILLING CONTRACTOR:
GABBERT AND JONES #11

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>PIT MUD</u>	_____ @ _____ °F	<u>12500</u> 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 :

- 60 FEET OF SLIGHT OIL CUT MUD
- 120 FEET OF GASSY OIL CUT MUD
- 60 FEET OF GASSY SLIGHT OIL CUT MUD

MEASURED FROM
TESTER VALVE

REMARKS :

SET TOOL 3 TIMES DUE TO NO BLOW AT SURFACE RESULTING FROM SURFACE VALVE BEING FROZEN.

TICKET NO: 89081100
 CLOCK NO: 4153 HOUR: 12

GAUGE NO: 7751
 DEPTH: 4617.1

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta P}{t + \Delta P}$	$\log \frac{t + \Delta P}{\Delta P}$
FIRST FLOW					
B 1	0.0	35.4			
2	3.0	42.4	6.0		
3	6.0	46.1	3.7		
4	9.0	49.8	3.7		
5	12.0	53.0	3.2		
6	15.0	55.8	2.8		
7	18.0	58.6	2.8		
8	21.0	61.5	2.9		
9	24.0	64.0	2.5		
10	27.0	66.8	2.8		
11	30.0	69.5	2.7		
12	33.0	71.4	1.9		
13	36.0	74.5	3.1		
14	39.0	76.8	2.3		
15	42.0	79.4	2.6		
16	45.0	82.1	2.7		
17	48.0	84.1	2.0		
C 18	50.5	86.4	2.3		
FIRST CLOSED-IN					
C 1	0.0	86.4			
2	1.0	90.4	4.0	1.0	1.707
3	2.0	99.0	12.6	1.9	1.414
4	3.0	109.6	23.2	2.9	1.248
5	4.0	122.2	35.8	3.7	1.137
6	5.0	136.0	49.6	4.5	1.048
7	6.0	153.5	67.1	5.4	0.974
8	7.0	171.5	85.1	6.2	0.914
9	8.0	192.0	105.6	6.9	0.863
10	9.0	217.5	131.0	7.6	0.820
11	10.0	245.6	159.1	8.3	0.784
12	12.0	318.3	231.9	9.7	0.718
13	14.0	420.0	333.6	10.9	0.665
14	16.0	565.0	478.5	12.2	0.619
15	18.0	725.2	638.8	13.3	0.581
16	20.0	885.2	798.7	14.4	0.547
17	22.0	998.8	912.4	15.3	0.518
18	24.0	1093.4	1007.0	16.3	0.492
19	26.0	1160.2	1073.8	17.2	0.469
D 20	27.9	1202.9	1116.5	18.0	0.449
SECOND FLOW					
E 1	0.0	101.8			
2	5.0	98.1	-3.7		
3	10.0	100.1	2.0		
4	15.0	102.5	2.4		
5	20.0	105.5	3.0		

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta P}{t + \Delta P}$	$\log \frac{t + \Delta P}{\Delta P}$
SECOND FLOW - CONTINUED					
6	25.0	108.8	3.3		
7	30.0	111.7	2.9		
8	35.0	115.7	4.0		
9	40.0	142.5	26.8		
I 10	43.6	198.7	56.1		
11	45.0	128.4	-70.3		
12	50.0	124.1	-4.3		
13	55.0	125.6	1.5		
14	60.0	128.5	2.9		
15	65.0	140.1	11.6		
16	70.0	189.2	49.0		
17	75.0	273.8	84.7		
I 18	75.7	290.5	16.7		
19	80.0	140.5	-150.0		
F 20	89.0	143.0	2.5		
SECOND CLOSED-IN					
F 1	0.0	143.0			
2	1.0	147.4	4.4	1.0	2.144
3	2.0	158.2	15.2	2.0	1.852
4	3.0	171.0	28.0	3.0	1.673
5	4.0	182.9	39.9	3.9	1.555
6	5.0	199.5	56.5	4.8	1.462
7	6.0	217.2	74.2	5.8	1.382
8	7.0	233.2	90.2	6.7	1.320
9	8.0	254.9	111.9	7.6	1.264
10	9.0	278.8	135.8	8.5	1.217
11	10.0	305.0	162.0	9.4	1.174
12	12.0	363.2	220.2	11.0	1.103
13	14.0	442.4	299.4	12.7	1.041
14	16.0	539.7	396.8	14.4	0.988
15	18.0	648.4	505.4	15.9	0.943
16	20.0	769.6	626.7	17.5	0.901
17	22.0	880.3	737.3	19.0	0.865
18	24.0	972.8	829.8	20.5	0.833
19	26.0	1047.8	904.8	21.9	0.804
20	28.0	1108.9	965.9	23.3	0.777
21	30.0	1157.3	1014.3	24.7	0.752
22	35.0	1240.4	1097.4	28.0	0.698
23	40.0	1290.8	1147.8	31.1	0.652
G 24	42.5	1307.9	1164.9	32.6	0.632

LEGEND:
 VALVE FROZEN
 REMARKS:

TICKET NO: 89081100

CLOCK NO: 16166 HOUR: 12

GAUGE NO: 7752

DEPTH: 4668.0

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	57.0			
2	3.0	61.3	4.3		
3	6.0	65.2	3.9		
4	9.0	69.6	4.4		
5	12.0	74.3	4.7		
6	15.0	78.2	3.9		
7	18.0	80.9	2.7		
8	21.0	84.3	3.3		
9	24.0	86.2	1.9		
10	27.0	86.4	0.2		
11	30.0	88.1	1.7		
12	33.0	91.1	2.9		
13	36.0	93.8	2.7		
14	39.0	95.8	2.0		
15	42.0	98.2	2.4		
16	45.0	100.6	2.3		
17	48.0	102.8	2.2		
C 18	50.5	104.6	1.8		
FIRST CLOSED-IN					
C 1	0.0	104.6			
2	1.0	114.0	9.4	1.0	1.718
3	2.0	123.8	19.1	1.9	1.426
4	3.0	134.5	29.9	2.8	1.254
5	4.0	147.6	42.9	3.7	1.133
6	5.0	161.3	56.7	4.5	1.049
7	6.0	179.0	74.4	5.4	0.972
8	7.0	195.3	90.7	6.1	0.917
9	8.0	217.6	113.0	6.9	0.864
10	9.0	241.2	136.6	7.6	0.821
11	10.0	273.0	168.4	8.4	0.780
12	12.0	347.7	243.1	9.7	0.716
13	14.0	453.0	348.4	11.0	0.664
14	16.0	599.0	494.4	12.2	0.618
15	18.0	763.6	659.0	13.2	0.581
16	20.0	932.0	827.4	14.3	0.548
17	22.0	1054.5	949.9	15.3	0.518
18	24.0	1133.9	1029.2	16.3	0.492
19	26.0	1196.3	1091.7	17.2	0.469
D 20	27.9	1231.3	1126.7	18.0	0.449
SECOND FLOW					
E 1	0.0	121.9			
2	5.0	115.1	-6.7		
3	10.0	117.2	2.1		
4	15.0	120.8	3.5		
5	20.0	124.1	3.3		



REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
6	25.0	127.0	2.8		
7	30.0	130.4	3.4		
8	35.0	136.1	5.7		
9	40.0	170.1	34.0		
[1] 10	43.6	227.5	57.4		
11	45.0	141.9	-85.6		
12	50.0	141.9	0.0		
13	55.0	145.1	3.1		
14	60.0	147.8	2.7		
15	65.0	163.8	16.0		
16	70.0	215.3	51.5		
17	75.0	307.0	91.8		
[1] 18	75.7	319.6	12.6		
19	80.0	159.8	-159.8		
F 20	89.0	163.6	3.7		
SECOND CLOSED-IN					
F 1	0.0	163.6			
2	1.0	176.0	12.5	1.0	2.129
3	2.0	190.4	26.8	2.0	1.844
4	3.0	203.2	39.6	3.0	1.673
5	4.0	216.7	53.1	3.9	1.553
6	5.0	233.9	70.3	4.9	1.459
7	6.0	250.6	87.0	5.8	1.384
8	7.0	270.1	106.5	6.7	1.320
9	8.0	290.6	127.0	7.6	1.266
10	9.0	315.9	152.4	8.5	1.217
11	10.0	343.9	180.3	9.3	1.174
12	12.0	406.3	242.7	11.1	1.100
13	14.0	487.7	324.1	12.7	1.041
14	16.0	593.1	429.5	14.4	0.987
15	18.0	703.8	540.2	16.0	0.941
16	20.0	817.5	654.0	17.5	0.902
17	22.0	926.4	762.8	19.0	0.865
18	24.0	1018.5	855.0	20.5	0.833
19	26.0	1091.4	927.8	21.9	0.804
20	28.0	1153.3	989.7	23.3	0.777
21	30.0	1195.4	1031.8	24.7	0.752
22	35.0	1273.5	1110.0	28.0	0.698
23	40.0	1324.0	1160.4	31.1	0.652
G 24	42.5	1340.6	1177.0	32.6	0.632

LEGEND:

[1] VALVE FROZEN

REMARKS:

TICKET NO. 89081100

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	4182.4	
3		DRILL COLLARS.....	6.250	2.250	300.0	
50		IMPACT REVERSING SUB.....	5.750	2.750	1.0	4483.4
3		DRILL COLLARS.....	6.250	2.250	121.0	
5		CROSSOVER.....	4.500	2.760	1.0	
12		DUAL CIP VALVE.....	5.750	0.870	6.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	4615.9
80		AP RUNNING CASE.....	5.000	2.250	4.1	4617.1
15		JAR.....	5.000	1.000	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	2.8	
70		OPEN HOLE PACKER.....	6.750	1.530	5.8	4632.4
70		OPEN HOLE PACKER.....	6.750	1.530	5.8	4639.0
20		FLUSH JOINT ANCHOR.....	5.000	2.440	27.0	
81		BLANKED-OFF RUNNING CASE.....	5.000		4.1	4668.0
TOTAL DEPTH					4671.0	

EQUIPMENT DATA