

LEASE NAME	HALDIK	WELL NO.	1	TEST NO.	1	TESTED INTERVAL	3090.0 - 3147.0	SPURLOCK AND SPINES EXPLORATION INC.
LEGAL LOCATION SEC. - TWP. - RNG.	12-26S-2E	FIELD AREA		COUNTY	SEDGWICK	STATE	KANSAS	DR

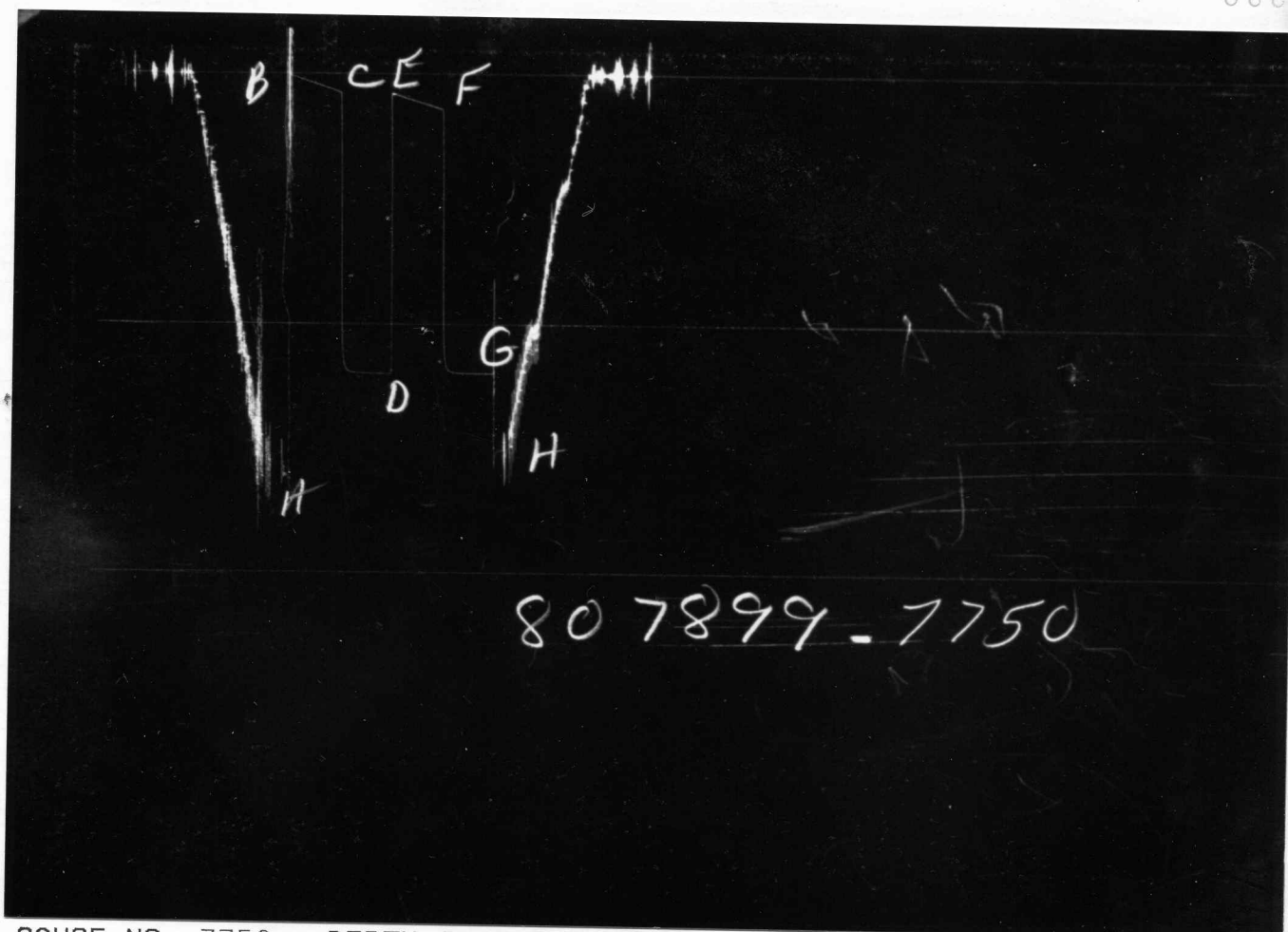
SPURLOCK AND SPINES EXPLORATION INC.

LEASE : HALDIK

WELL NO. : 1

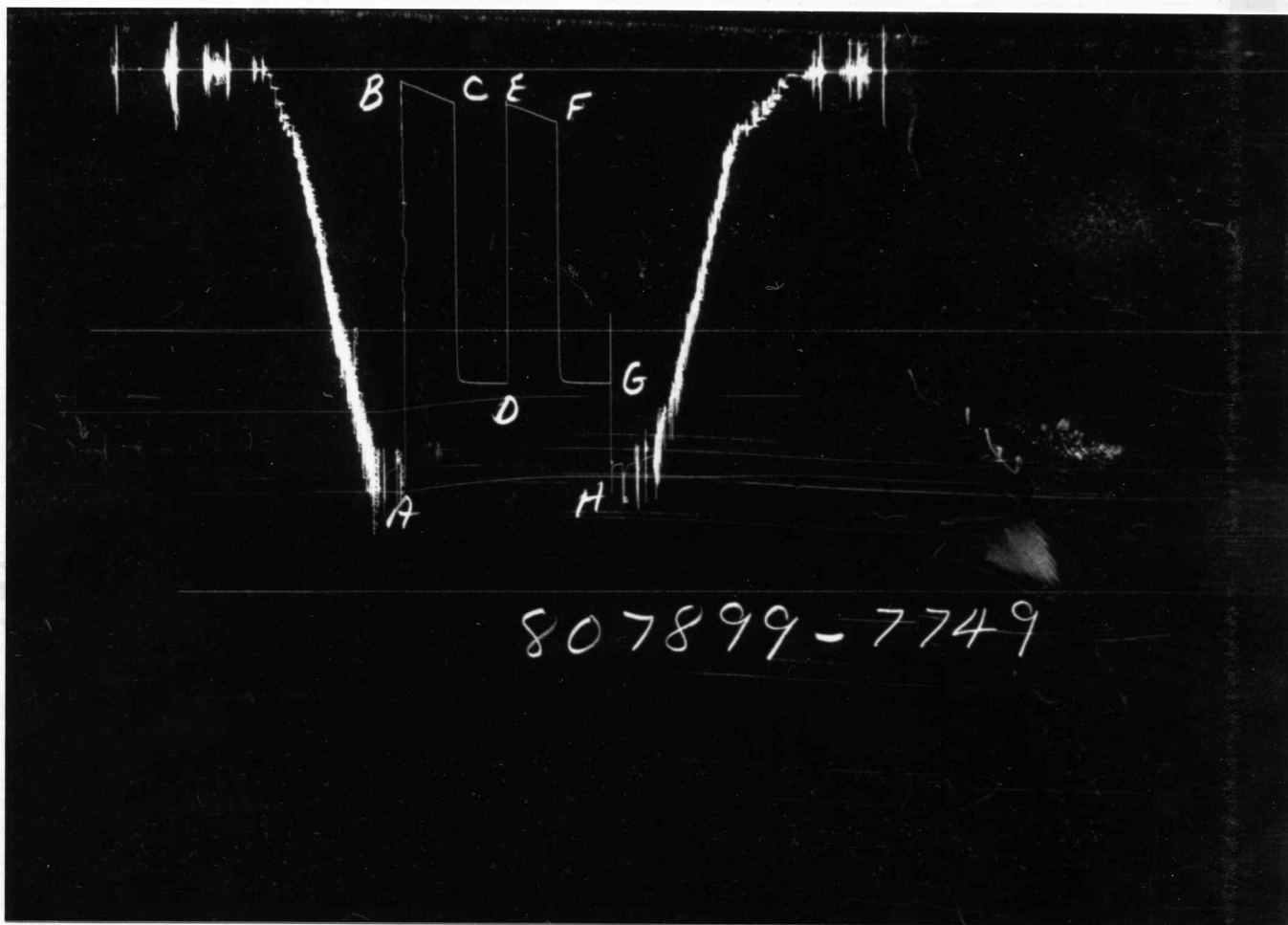
TEST NO. : 1

TICKET NO. 80789900
01-AUG-89
WINFIELD



GAUGE NO: 7750 DEPTH: 3069.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1566	1520.8			
B	INITIAL FIRST FLOW	10	8.4			
C	FINAL FIRST FLOW	61	75.6	30.0	30.6	F
C	INITIAL FIRST CLOSED-IN	61	75.6			
D	FINAL FIRST CLOSED-IN	1201	1200.7	30.0	30.0	C
E	INITIAL SECOND FLOW	82	85.4			
F	FINAL SECOND FLOW	133	141.2	30.0	29.2	F
F	INITIAL SECOND CLOSED-IN	133	141.2			
G	FINAL SECOND CLOSED-IN	1201	1199.2	30.0	30.3	C
H	FINAL HYDROSTATIC	1546	1504.4			



GAUGE NO: 7749 DEPTH: 3144.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		1529.4			
B	INITIAL FIRST FLOW		47.3			
C	FINAL FIRST FLOW		127.7	30.0	30.6	F
C	INITIAL FIRST CLOSED-IN		127.7			
D	FINAL FIRST CLOSED-IN		1204.9	30.0	30.0	C
E	INITIAL SECOND FLOW		135.8			
F	FINAL SECOND FLOW		198.4	30.0	29.2	F
F	INITIAL SECOND CLOSED-IN		198.4			
G	FINAL SECOND CLOSED-IN		1203.6	30.0	30.3	C
H	FINAL HYDROSTATIC		1510.4			

EQUIPMENT & HOLE DATA

FORMATION TESTED: HUNTON

NET PAY (ft): _____

GROSS TESTED FOOTAGE: 57.0ALL DEPTHS MEASURED FROM: R. KELLY BUSHING

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 7.875ELEVATION (ft): 1340.0 GROUND LEVELTOTAL DEPTH (ft): 3147.0PACKER DEPTH(S) (ft): 3084, 3090

FINAL SURFACE CHOKE (in): _____

BOTTOM HOLE CHOKE (in): 0.750MUD WEIGHT (lb/gal): 9.50MUD VISCOSITY (sec): 49ESTIMATED HOLE TEMP. (°F): 102

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

TICKET NUMBER: 80789900DATE: 7-25-89 TEST NO: 1TYPE DST: OPEN HOLE

FIELD CAMP:

WINFIELDTESTER: CHARLES D. CAPEHARTWITNESS: SCOTT BANKS

DRILLING CONTRACTOR:

BRANDT DRILLING COMPANYFLUID PROPERTIES FOR
RECOVERED MUD & WATER

SOURCE

RESISTIVITY

CHLORIDES

<u>PIT</u>	_____ @ _____ °F	<u>5000</u> ppm
<u>BOTTOM SAMPLE</u>	_____ @ _____ °F	<u>5000</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): 30.6 @ 60 °F

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

GAS GRAVITY: _____

CUSHION DATA

TYPE AMOUNT WEIGHT

_____	_____	_____
_____	_____	_____

RECOVERED:

67' OF FREE OIL IN DRILL PIPE

57' OF HEAVY OIL, GAS CUT MUD

124' OF SLIGHTLY OIL, GAS CUT MUD

124' OF WATERY MUD

MEASURED FROM
TESTER VALVE

REMARKS:

TICKET NO: 80789900

CLOCK NO: 20581 HOUR: 12

GAUGE NO: 7750

DEPTH: 3069.0

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	8.4			
2	2.0	10.6	2.1		
3	4.0	14.3	3.7		
4	6.0	18.5	4.2		
5	8.0	22.9	4.4		
6	10.0	28.3	5.4		
7	12.0	32.6	4.3		
8	14.0	36.7	4.1		
9	16.0	41.7	5.0		
10	18.0	46.2	4.5		
11	20.0	50.8	4.6		
12	22.0	56.0	5.2		
13	24.0	59.9	3.9		
14	26.0	64.7	4.8		
15	28.0	69.6	4.9		
C 16	30.6	75.6	6.0		
FIRST CLOSED-IN					
C 1	0.0	75.6			
2	1.0	1103.4	1027.8	1.0	1.507
3	2.0	1163.1	1087.5	1.8	1.219
4	3.0	1182.2	1106.6	2.8	1.044
5	4.0	1189.1	1113.5	3.5	0.939
6	5.0	1194.0	1118.4	4.3	0.848
7	6.0	1195.7	1120.1	5.0	0.782
8	7.0	1197.2	1121.5	5.7	0.731
9	8.0	1197.7	1122.0	6.4	0.681
10	9.0	1198.1	1122.4	6.9	0.644
11	10.0	1198.8	1123.2	7.5	0.609
12	12.0	1199.4	1123.8	8.6	0.550
13	14.0	1199.4	1123.8	9.6	0.504
14	16.0	1200.1	1124.5	10.5	0.464
15	18.0	1200.1	1124.5	11.3	0.431
16	20.0	1200.6	1125.0	12.1	0.403
17	22.0	1200.6	1125.0	12.8	0.378
18	24.0	1200.8	1125.2	13.4	0.357
19	26.0	1200.8	1125.2	14.0	0.338
20	28.0	1200.8	1125.2	14.6	0.320
D 21	30.0	1200.7	1125.1	15.1	0.305
SECOND FLOW					
E 1	0.0	85.4			
2	2.0	81.3	4.1		
3	4.0	85.2	3.9		
4	6.0	90.0	4.8		
5	8.0	94.7	4.7		
6	10.0	98.8	4.1		
7	12.0	103.9	5.1		

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
8	14.0	108.3	4.4		
9	16.0	112.6	4.3		
10	18.0	116.6	4.0		
11	20.0	120.7	4.1		
12	22.0	125.0	4.3		
13	24.0	130.4	5.4		
14	26.0	134.4	4.0		
15	28.0	139.1	4.7		
F 16	29.2	141.2	2.0		
SECOND CLOSED-IN					
F 1	0.0	141.2			
2	1.0	1112.0	970.9	1.0	1.772
3	2.0	1168.3	1027.2	1.9	1.487
4	3.0	1183.6	1042.4	2.9	1.321
5	4.0	1189.8	1048.7	3.8	1.200
6	5.0	1193.3	1052.1	4.6	1.114
7	6.0	1195.2	1054.0	5.4	1.042
8	7.0	1196.7	1055.6	6.3	0.979
9	8.0	1197.1	1056.0	7.0	0.928
10	9.0	1197.7	1056.5	7.8	0.884
11	10.0	1198.2	1057.0	8.6	0.843
12	12.0	1198.6	1057.4	10.0	0.777
13	14.0	1199.2	1058.0	11.3	0.721
14	16.0	1199.2	1058.0	12.6	0.675
15	18.0	1199.2	1058.0	13.8	0.636
16	20.0	1199.3	1058.1	15.0	0.600
17	22.0	1199.3	1058.1	16.1	0.570
18	24.0	1199.3	1058.1	17.1	0.543
19	26.0	1199.7	1058.5	18.1	0.518
20	28.0	1199.7	1058.5	19.1	0.496
G 21	30.3	1199.2	1058.0	20.1	0.473

REMARKS:

TICKET NO: 80789900

CLOCK NO: 17418 HOUR: 12

GAUGE NO: 7749

DEPTH: 3144.0

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	47.3			
2	2.0	51.8	4.5		
3	4.0	58.4	6.6		
4	6.0	62.2	3.8		
5	8.0	65.7	3.6		
6	10.0	71.8	6.0		
7	12.0	78.1	6.3		
8	14.0	84.0	5.8		
9	16.0	88.9	5.0		
10	18.0	94.3	5.3		
11	20.0	100.4	6.1		
12	22.0	106.1	5.7		
13	24.0	112.9	6.7		
14	26.0	117.1	4.3		
15	28.0	121.6	4.5		
C 16	30.6	127.7	6.1		
FIRST CLOSED-IN					
C 1	0.0	127.7			
2	1.0	1150.8	1023.1	1.0	1.502
3	2.0	1189.7	1062.0	1.9	1.214
4	3.0	1194.6	1066.8	2.8	1.045
5	4.0	1197.6	1069.9	3.6	0.935
6	5.0	1199.3	1071.6	4.3	0.851
7	6.0	1200.4	1072.7	5.0	0.785
8	7.0	1201.3	1073.6	5.7	0.728
9	8.0	1201.8	1074.0	6.3	0.683
10	9.0	1201.8	1074.0	6.9	0.644
11	10.0	1202.8	1075.0	7.5	0.608
12	12.0	1203.2	1075.5	8.6	0.550
13	14.0	1203.2	1075.5	9.6	0.503
14	16.0	1203.8	1076.1	10.5	0.464
15	18.0	1203.9	1076.2	11.3	0.431
16	20.0	1203.9	1076.2	12.1	0.402
17	22.0	1204.4	1076.7	12.8	0.378
18	24.0	1204.4	1076.7	13.4	0.357
19	26.0	1204.8	1077.1	14.0	0.338
20	28.0	1204.8	1077.1	14.6	0.320
D 21	30.0	1204.9	1077.2	15.1	0.305
SECOND FLOW					
E 1	0.0	135.8			
2	2.0	135.8	0.0		
3	4.0	139.0	3.2		
4	6.0	143.6	4.6		
5	8.0	148.2	4.7		
6	10.0	153.7	5.4		
7	12.0	158.7	5.1		

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
8	14.0	163.1	4.4		
9	16.0	168.2	5.2		
10	18.0	174.1	5.8		
11	20.0	178.9	4.9		
12	22.0	184.1	5.2		
13	24.0	189.1	5.1		
14	26.0	194.4	5.3		
15	28.0	198.1	3.7		
F 16	29.2	198.4	0.4		
SECOND CLOSED-IN					
F 1	0.0	198.4			
2	1.0	1152.9	954.5	1.0	1.792
3	2.0	1188.2	989.7	1.9	1.492
4	3.0	1195.0	996.5	2.9	1.317
5	4.0	1197.4	999.0	3.7	1.203
6	5.0	1199.1	1000.6	4.6	1.116
7	6.0	1200.3	1001.9	5.5	1.039
8	7.0	1200.9	1002.5	6.3	0.978
9	8.0	1201.3	1002.8	7.1	0.928
10	9.0	1201.9	1003.4	7.8	0.885
11	10.0	1201.9	1003.4	8.5	0.845
12	12.0	1203.1	1004.7	10.0	0.776
13	14.0	1203.1	1004.7	11.4	0.721
14	16.0	1203.6	1005.2	12.6	0.675
15	18.0	1203.7	1005.3	13.8	0.635
16	20.0	1203.7	1005.3	15.0	0.601
17	22.0	1204.4	1006.0	16.1	0.570
18	24.0	1204.4	1006.0	17.1	0.542
19	26.0	1204.4	1006.0	18.1	0.518
20	28.0	1204.4	1006.0	19.1	0.496
G 21	30.3	1203.6	1005.2	20.1	0.473

REMARKS:

TICKET NO. 80789900

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	2670.0	
3		DRILL COLLARS.....	6.250	2.750	257.0	
50		IMPACT REVERSING SUB.....	5.750	2.750	1.0	2928.0
3		DRILL COLLARS.....	6.250	2.750	124.0	
5		CROSSOVER.....	5.000	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	3067.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	3069.0
15		JAR.....	5.030	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	3084.0
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	3090.0
20		FLUSH JOINT ANCHOR.....	5.000	2.370	10.0	
5		CROSSOVER.....	5.000	2.750	2.0	
3		DRILL COLLARS.....	6.250	2.750	31.0	
5		CROSSOVER.....	5.000	2.750	2.0	
20		FLUSH JOINT ANCHOR.....	5.000	2.370	6.0	
81		BLANKED-OFF RUNNING CASE.....	5.000		4.0	3144.0
TOTAL DEPTH					3147.0	

EQUIPMENT DATA

295

LEASE NAME	HALDIK	WELL NO.	1	TEST NO.	2	TESTED INTERVAL	3150.0 - 3154.0	SPURLOCK AND SPINES EXPLORATION INC.
LEGAL LOCATION SEC. - TWP. - RANG.	12-26S-2E	FIELD AREA		COUNTY	SEDGWICK	STATE	KANSAS	DR
LEASE OWNER/COMPANY NAME								

SPURLOCK AND SPINES EXPLORATION INC.

LEASE : HALDIK

WELL NO. : 1

TEST NO. : 2

TICKET NO. 80790000

01-AUG-89

WINFIELD



GAUGE NO : 7750 DEPTH : 3135.0 BLANKED OFF : NO HOUR OF CLOCK : 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1485	1488.9			
B	INITIAL FIRST FLOW	10	7.8			
C	FINAL FIRST FLOW	82	92.0	31.0	30.1	F
C	INITIAL FIRST CLOSED-IN	82	92.0			
D	FINAL FIRST CLOSED-IN	1160	1169.2	29.0	30.6	C
E	INITIAL SECOND FLOW	102	99.8			
F	FINAL SECOND FLOW	164	165.7	30.0	28.6	F
F	INITIAL SECOND CLOSED-IN	164	165.7			
G	FINAL SECOND CLOSED-IN	1140	1169.5	30.0	30.7	C
H	FINAL HYDROSTATIC	1465	1473.5			

EQUIPMENT & HOLE DATA

FORMATION TESTED: HUNTON

NET PAY (ft): _____

GROSS TESTED FOOTAGE: 4.0ALL DEPTHS MEASURED FROM: R. KELLY BUSHING

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 7.875ELEVATION (ft): 1340.0 GROUND LEVELTOTAL DEPTH (ft): 3154.0PACKER DEPTH(S) (ft): 3150

FINAL SURFACE CHOKE (in): _____

BOTTOM HOLE CHOKE (in): 0.750

MUD WEIGHT (lb/gal): _____

MUD VISCOSITY (sec): _____

ESTIMATED HOLE TEMP. (°F): 102

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

TICKET NUMBER: 80790000DATE: 7-25-89 TEST NO: 2TYPE DST: OPEN HOLE

FIELD CAMP:

WINFIELDTESTER: CHARLES CAPEHARTWITNESS: ROBERT SPURLOCK

DRILLING CONTRACTOR:

BRANDT DRILLING COMPANYFLUID PROPERTIES FOR
RECOVERED MUD & WATER

SOURCE

RESISTIVITY

CHLORIDES

<u>PIT</u>	_____ @ _____ °F	<u>5000</u> ppm
<u>SAMPLE DRILL PIPE</u>	_____ @ _____ °F	<u>15000</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): 30.6 @ 60 °F

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

GAS GRAVITY: _____

CUSHION DATA

TYPE AMOUNT WEIGHT

RECOVERED:

77' OF GASSY CUT FREE OIL IN DRILL PIPE

258' OF WATER

MEASURED FROM
TESTER VALVE

REMARKS:

[illegible]

TICKET NO: 80790000

CLOCK NO: 20581 HOUR: 12

GAUGE NO: 7750

DEPTH: 3135.0

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	7.8			
2	2.0	14.4	6.5		
3	4.0	20.8	6.4		
4	6.0	25.0	4.2		
5	8.0	29.3	4.3		
6	10.0	34.2	4.9		
7	12.0	42.1	7.9		
8	14.0	47.6	5.5		
9	16.0	54.2	6.5		
10	18.0	59.3	5.1		
11	20.0	64.1	4.8		
12	22.0	70.0	5.9		
13	24.0	76.1	6.1		
14	26.0	81.2	5.1		
15	28.0	86.4	5.1		
C 16	30.1	92.0	5.6		
FIRST CLOSED-IN					
C 1	0.0	92.0			
2	1.0	1081.8	989.8	1.0	1.473
3	2.0	1149.2	1057.2	1.9	1.207
4	3.0	1157.8	1065.8	2.7	1.043
5	4.0	1161.5	1069.5	3.5	0.934
6	5.0	1163.4	1071.4	4.3	0.850
7	6.0	1164.7	1072.7	5.0	0.779
8	7.0	1165.4	1073.4	5.7	0.725
9	8.0	1166.7	1074.7	6.3	0.679
10	9.0	1166.7	1074.7	6.9	0.638
11	10.0	1166.7	1074.7	7.5	0.605
12	12.0	1167.7	1075.8	8.6	0.546
13	14.0	1167.7	1075.8	9.6	0.498
14	16.0	1168.3	1076.4	10.4	0.460
15	18.0	1168.7	1076.7	11.3	0.427
16	20.0	1169.0	1077.0	12.0	0.399
17	22.0	1169.0	1077.0	12.7	0.375
18	24.0	1169.5	1077.5	13.4	0.353
19	26.0	1169.5	1077.5	14.0	0.334
20	28.0	1169.5	1077.5	14.5	0.317
D 21	30.6	1169.2	1077.2	15.2	0.298
SECOND FLOW					
E 1	0.0	99.8			
2	2.0	99.4	-0.4		
3	4.0	104.8	5.4		
4	6.0	109.5	4.7		
5	8.0	114.4	4.9		
6	10.0	118.7	4.3		
7	12.0	123.8	5.1		

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
8	14.0	129.0	5.1		
9	16.0	135.7	6.8		
10	18.0	139.2	3.5		
11	20.0	145.2	6.0		
12	22.0	149.7	4.5		
13	24.0	154.1	4.4		
14	26.0	159.5	5.4		
15	28.0	164.8	5.2		
F 16	28.6	165.7	0.9		
SECOND CLOSED-IN					
F 1	0.0	165.7			
2	1.0	1106.5	940.8	1.0	1.787
3	2.0	1154.2	988.6	1.9	1.480
4	3.0	1161.2	995.6	2.9	1.311
5	4.0	1163.0	997.3	3.8	1.192
6	5.0	1164.7	999.0	4.6	1.105
7	6.0	1165.8	1000.1	5.4	1.034
8	7.0	1166.7	1001.0	6.2	0.974
9	8.0	1167.1	1001.5	7.0	0.922
10	9.0	1167.8	1002.2	7.8	0.878
11	10.0	1168.0	1002.4	8.5	0.837
12	12.0	1168.9	1003.2	10.0	0.770
13	14.0	1169.5	1003.8	11.3	0.714
14	16.0	1170.0	1004.3	12.6	0.669
15	18.0	1170.0	1004.3	13.8	0.630
16	20.0	1170.0	1004.3	14.9	0.595
17	22.0	1170.2	1004.5	16.0	0.564
18	24.0	1170.2	1004.5	17.1	0.537
19	26.0	1170.4	1004.7	18.0	0.513
20	28.0	1170.4	1004.7	18.9	0.491
G 21	30.7	1169.5	1003.8	20.2	0.464

REMARKS:

TICKET NO. 80790000

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	2736.0	
3		DRILL COLLARS.....	6.250	2.750	257.0	
50		IMPACT REVERSING SUB.....	5.750	2.750	1.0	2993.0
3		DRILL COLLARS.....	6.250	2.750	124.0	
5		CROSSOVER.....	5.000	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	3133.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	3135.0
15		JAR.....	5.030	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	3150.0
20		FLUSH JOINT ANCHOR.....	5.000	2.370	1.0	
24		SHOE.....	5.000		1.0	
TOTAL DEPTH					3154.0	

EQUIPMENT DATA

3204.0 - 3277.0
TESTED INTERVAL
SPURLOCK AND SPINES EXPLORATION INC.
LEASE OWNER/COMPANY NAME
LEASE NAME
WELL NO. 1
TEST NO. 3
LEGAL LOCATION
SEC. - TWP. - RANG. 12-26S-2E
FIELD AREA
COUNTY SEDGWICK
STATE KANSAS DR

SPURLOCK AND SPINES EXPLORATION INC.

LEASE : HALDIK

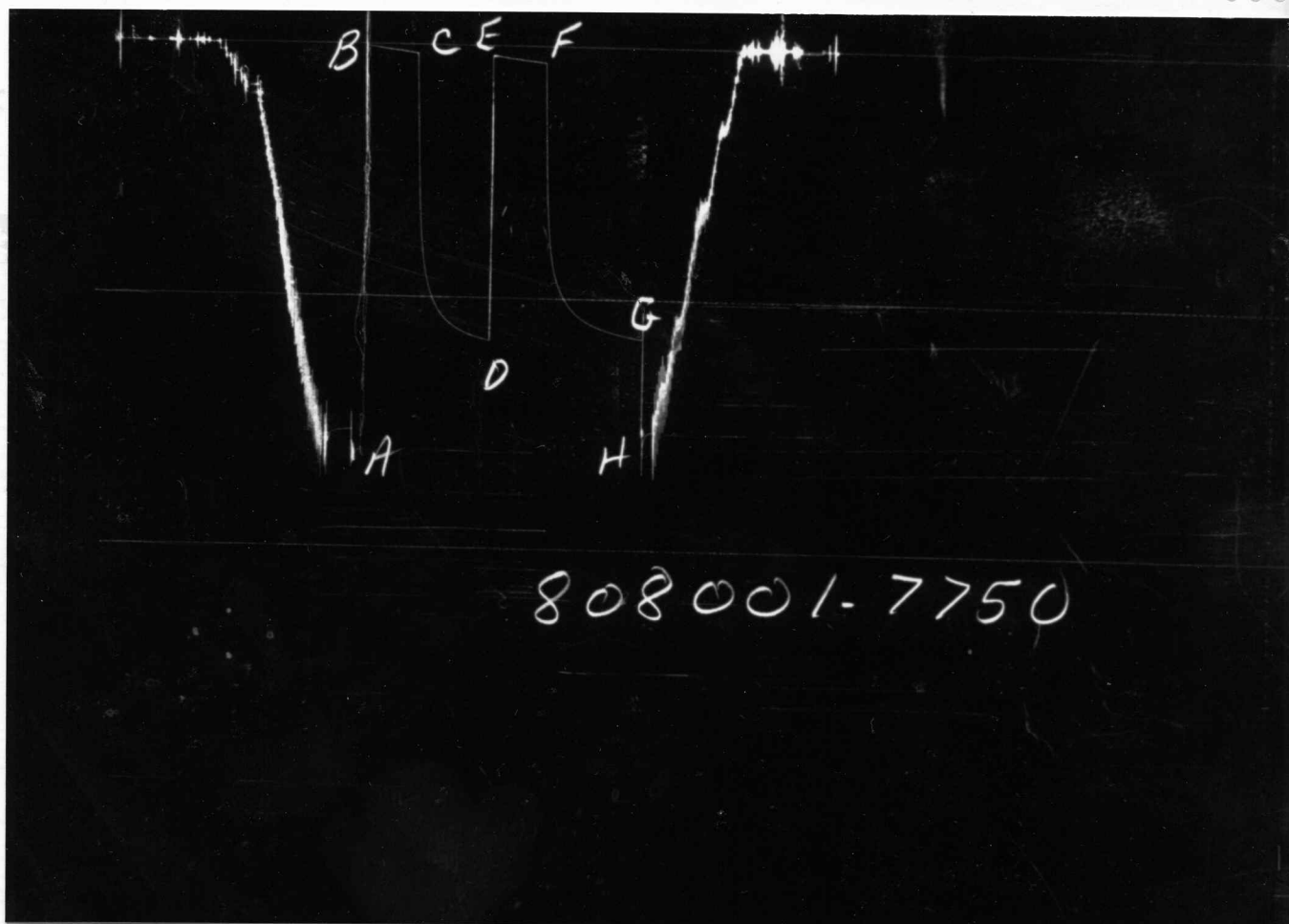
WELL NO. : 1

TEST NO. : 3

TICKET NO. 80800100

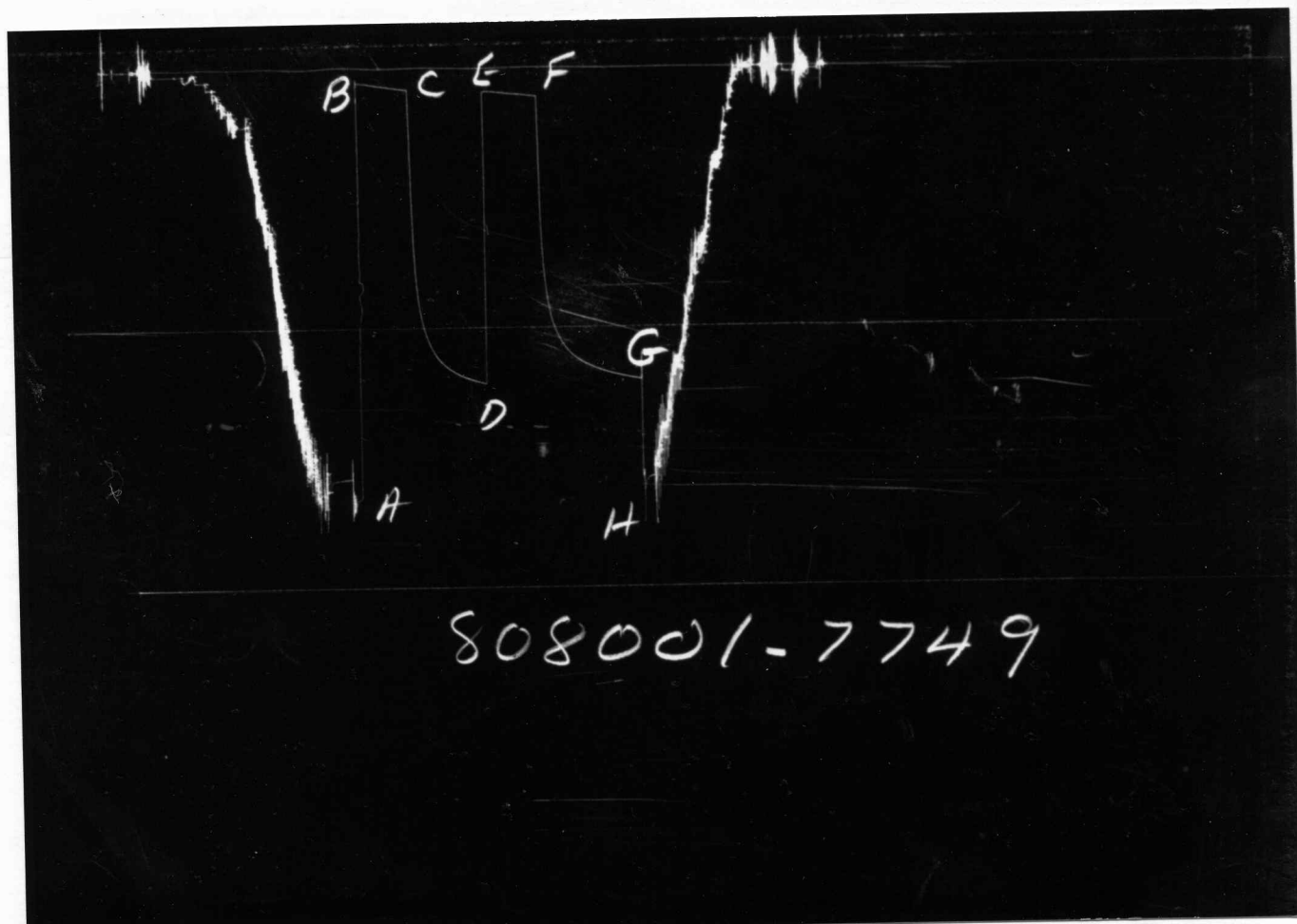
01-AUG-89

WINFIELD



GAUGE NO: 7750 DEPTH: 3183.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1587	1531.5			
B	INITIAL FIRST FLOW	4	7.8			
C	FINAL FIRST FLOW	21	33.7	30.0	30.2	F
C	INITIAL FIRST CLOSED-IN	21	33.7			
D	FINAL FIRST CLOSED-IN	1160	1171.3	45.0	43.5	C
E	INITIAL SECOND FLOW	41	43.1			
F	FINAL SECOND FLOW	61	63.6	30.0	32.3	F
F	INITIAL SECOND CLOSED-IN	61	63.6			
G	FINAL SECOND CLOSED-IN	1160	1159.7	60.0	59.0	C
H	FINAL HYDROSTATIC	1546	1527.8			



GAGE NO: 7749 DEPTH: 3274.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		1579.9			
B	INITIAL FIRST FLOW		53.1			
C	FINAL FIRST FLOW		81.1	30.0	30.2	F
C	INITIAL FIRST CLOSED-IN		81.1			
D	FINAL FIRST CLOSED-IN		1217.2	45.0	43.5	C
E	INITIAL SECOND FLOW		92.8			
F	FINAL SECOND FLOW		108.5	30.0	32.3	F
F	INITIAL SECOND CLOSED-IN		108.5			
G	FINAL SECOND CLOSED-IN		1204.6	60.0	59.0	C
H	FINAL HYDROSTATIC		1575.6			

EQUIPMENT & HOLE DATA

FORMATION TESTED: SIMPSONNET PAY (ft): 8.0GROSS TESTED FOOTAGE: 73.0ALL DEPTHS MEASURED FROM: R. KELLY BUSHING
CASING PERFS. (ft): _____HOLE OR CASING SIZE (in): 7.875ELEVATION (ft): 1340.0 GROUND LEVELTOTAL DEPTH (ft): 3277.0PACKER DEPTH(S) (ft): 3198, 3204

FINAL SURFACE CHOKE (in): _____

BOTTOM HOLE CHOKE (in): 0.750MUD WEIGHT (lb/gal): 9.30MUD VISCOSITY (sec): 47ESTIMATED HOLE TEMP. (°F): 103

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

TICKET NUMBER: 80800100DATE: 7-26-89 TEST NO: 3TYPE DST: OPEN HOLE

FIELD CAMP:

WINFIELDTESTER: CHARLES D. CAPEHARTWITNESS: TOM SPINES

DRILLING CONTRACTOR:

BRANDT DRILLING COMPANYFLUID PROPERTIES FOR
RECOVERED MUD & WATER

SOURCE

RESISTIVITY

CHLORIDES

<u>PIT</u>	_____ @ _____ °F	<u>5000</u> ppm
<u>SAMPLE TOP</u>	_____ @ _____ °F	<u>5000</u> ppm
<u>SAMPLE BOTTOM</u>	_____ @ _____ °F	<u>5000</u> 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:

85' OF LIGHT OIL SPECK, GAS ODOR CUT MUDMEASURED FROM
TESTER VALVE

REMARKS:

[illegible]

TICKET NO: 80800100

CLOCK NO: 20581 HOUR: 12

GAUGE NO: 7750

DEPTH: 3183.0

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	7.8			
2	2.0	8.6	0.8		
3	4.0	9.6	0.9		
4	6.0	11.3	1.7		
5	8.0	14.2	2.9		
6	10.0	15.9	1.7		
7	12.0	17.7	1.8		
8	14.0	19.8	2.0		
9	16.0	21.5	1.7		
10	18.0	23.2	1.6		
11	20.0	24.8	1.6		
12	22.0	26.7	1.9		
13	24.0	28.6	1.8		
14	26.0	30.4	1.8		
15	28.0	32.2	1.7		
C 16	30.2	33.7	1.5		
FIRST CLOSED-IN					
C 1	0.0	33.7			
2	1.0	413.4	379.7	1.0	1.488
3	2.0	644.8	611.1	1.9	1.197
4	3.0	755.6	721.9	2.7	1.044
5	4.0	829.1	795.4	3.5	0.934
6	5.0	884.9	851.2	4.3	0.851
7	6.0	919.9	886.2	5.0	0.780
8	7.0	952.9	919.2	5.7	0.727
9	8.0	974.5	940.8	6.3	0.679
10	9.0	995.3	961.6	6.9	0.640
11	10.0	1011.5	977.8	7.5	0.603
12	12.0	1038.1	1004.4	8.6	0.546
13	14.0	1061.8	1028.1	9.6	0.499
14	16.0	1079.5	1045.8	10.4	0.461
15	18.0	1093.7	1060.0	11.3	0.428
16	20.0	1105.2	1071.5	12.0	0.399
17	22.0	1115.0	1081.3	12.7	0.376
18	24.0	1124.0	1090.3	13.4	0.354
19	26.0	1131.7	1098.0	14.0	0.335
20	28.0	1139.2	1105.5	14.5	0.318
21	30.0	1144.9	1111.2	15.1	0.302
22	35.0	1157.1	1123.4	16.2	0.270
23	40.0	1166.0	1132.3	17.2	0.244
D 24	43.5	1171.3	1137.6	17.8	0.229
SECOND FLOW					
E 1	0.0	43.1			
2	2.0	39.6	-3.5		
3	4.0	41.6	2.0		
4	6.0	44.2	2.6		

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
5	8.0	45.4	1.2		
6	10.0	47.8	2.4		
7	12.0	49.4	1.6		
8	14.0	51.4	1.9		
9	16.0	52.5	1.1		
10	18.0	54.6	2.1		
11	20.0	55.9	1.2		
12	22.0	57.5	1.6		
13	24.0	59.3	1.8		
14	26.0	60.0	0.7		
15	28.0	61.8	1.7		
16	30.0	63.1	1.3		
F 17	32.3	63.6	0.5		
SECOND CLOSED-IN					
F 1	0.0	63.6			
2	1.0	411.9	348.3	1.0	1.805
3	2.0	634.3	570.7	2.0	1.502
4	3.0	754.1	690.5	2.9	1.338
5	4.0	813.6	750.0	3.8	1.222
6	5.0	865.1	801.4	4.7	1.128
7	6.0	896.1	832.5	5.4	1.060
8	7.0	923.1	859.4	6.3	0.997
9	8.0	943.5	879.8	7.1	0.945
10	9.0	962.2	898.6	7.9	0.899
11	10.0	977.5	913.9	8.6	0.860
12	12.0	1002.4	938.8	10.1	0.792
13	14.0	1023.7	960.1	11.4	0.738
14	16.0	1043.1	979.4	12.8	0.690
15	18.0	1057.3	993.6	14.0	0.651
16	20.0	1069.3	1005.7	15.1	0.616
17	22.0	1080.1	1016.5	16.3	0.584
18	24.0	1089.0	1025.4	17.3	0.557
19	26.0	1097.9	1034.3	18.4	0.532
20	28.0	1104.2	1040.6	19.3	0.509
21	30.0	1110.2	1046.6	20.3	0.489
22	35.0	1123.0	1059.4	22.4	0.445
23	40.0	1133.2	1069.6	24.4	0.409
24	45.0	1142.0	1078.3	26.1	0.378
25	50.0	1149.0	1085.3	27.8	0.352
26	55.0	1155.8	1092.1	29.2	0.330
G 27	59.0	1159.7	1096.1	30.4	0.314

REMARKS:

TICKET NO: 80800100

CLOCK NO: 17418 HOUR: 12

GAUGE NO: 7749

DEPTH: 3274.0

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	53.1			
2	2.0	55.5	2.4		
3	4.0	56.4	0.9		
4	6.0	57.4	1.0		
5	8.0	60.3	3.0		
6	10.0	62.8	2.5		
7	12.0	64.4	1.6		
8	14.0	66.4	2.0		
9	16.0	68.6	2.2		
10	18.0	70.3	1.8		
11	20.0	72.3	2.0		
12	22.0	74.1	1.8		
13	24.0	75.8	1.7		
14	26.0	77.9	2.1		
15	28.0	79.2	1.4		
C 16	30.2	81.1	1.9		
FIRST CLOSED-IN					
C 1	0.0	81.1			
2	1.0	511.0	429.8	0.9	1.504
3	2.0	715.0	633.9	1.9	1.204
4	3.0	825.9	744.8	2.7	1.042
5	4.0	883.6	802.5	3.5	0.934
6	5.0	936.3	855.1	4.3	0.845
7	6.0	969.0	887.9	5.0	0.780
8	7.0	997.6	916.5	5.7	0.723
9	8.0	1021.2	940.0	6.3	0.678
10	9.0	1042.0	960.9	7.0	0.638
11	10.0	1059.5	978.4	7.5	0.604
12	12.0	1084.8	1003.7	8.6	0.546
13	14.0	1107.9	1026.7	9.6	0.499
14	16.0	1125.3	1044.2	10.5	0.461
15	18.0	1140.2	1059.0	11.3	0.428
16	20.0	1151.6	1070.5	12.0	0.400
17	22.0	1161.7	1080.5	12.7	0.375
18	24.0	1169.6	1088.4	13.4	0.354
19	26.0	1177.7	1096.6	14.0	0.335
20	28.0	1185.4	1104.3	14.5	0.318
21	30.0	1191.0	1109.8	15.0	0.303
22	35.0	1203.0	1121.9	16.2	0.270
23	40.0	1212.9	1131.7	17.2	0.244
D 24	43.5	1217.2	1136.1	17.8	0.229
SECOND FLOW					
E 1	0.0	92.8			
2	2.0	88.9	-3.9		
3	4.0	89.2	0.3		
4	6.0	89.6	0.4		

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
5	8.0	91.4	1.9		
6	10.0	92.9	1.5		
7	12.0	94.5	1.6		
8	14.0	96.4	1.9		
9	16.0	97.4	1.0		
10	18.0	98.8	1.4		
11	20.0	99.0	0.2		
12	22.0	100.8	1.8		
13	24.0	102.3	1.6		
14	26.0	103.6	1.3		
15	28.0	104.8	1.2		
16	30.0	106.8	2.0		
F 17	32.3	108.5	1.7		
SECOND CLOSED-IN					
F 1	0.0	108.5			
2	1.0	586.5	478.0	1.0	1.813
3	2.0	729.1	620.6	1.9	1.519
4	3.0	816.9	708.5	2.9	1.339
5	4.0	872.8	764.3	3.7	1.223
6	5.0	918.1	809.6	4.6	1.131
7	6.0	952.5	844.1	5.5	1.057
8	7.0	974.8	866.3	6.3	0.998
9	8.0	997.7	889.2	7.1	0.945
10	9.0	1017.2	908.8	7.9	0.900
11	10.0	1030.5	922.0	8.6	0.860
12	12.0	1054.6	946.1	10.0	0.794
13	14.0	1074.3	965.8	11.4	0.738
14	16.0	1092.3	983.8	12.7	0.690
15	18.0	1105.8	997.3	14.0	0.650
16	20.0	1116.9	1008.4	15.1	0.616
17	22.0	1126.5	1018.0	16.3	0.584
18	24.0	1135.4	1026.9	17.4	0.556
19	26.0	1143.5	1035.0	18.3	0.532
20	28.0	1149.6	1041.1	19.3	0.510
21	29.9	1155.7	1047.2	20.2	0.490
22	35.0	1168.1	1059.6	22.4	0.445
23	40.0	1178.3	1069.8	24.4	0.409
24	45.0	1187.0	1078.5	26.2	0.378
25	50.0	1194.4	1085.9	27.8	0.352
26	55.0	1200.3	1091.8	29.3	0.330
G 27	59.0	1204.6	1096.1	30.4	0.314

REMARKS:

TICKET NO. 80800100

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	2784.0	
3		DRILL COLLARS.....	6.250	2.750	257.0	
50		IMPACT REVERSING SUB.....	5.750	2.750	1.0	3041.0
3		DRILL COLLARS.....	6.250	2.750	124.0	
5		CROSSOVER.....	5.000	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	3181.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	3183.0
15		JAR.....	5.030	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	3198.0
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	3204.0
20		FLUSH JOINT ANCHOR.....	5.000	2.370	10.0	
5		CROSSOVER.....	5.000	2.750	2.0	
3		DRILL COLLARS.....	6.250	2.750	31.0	
5		CROSSOVER.....	5.000	2.750	2.0	
20		FLUSH JOINT ANCHOR.....	5.000	2.370	22.0	
81		BLANKED-OFF RUNNING CASE.....	5.000		4.0	3274.0
TOTAL DEPTH					3277.0	

EQUIPMENT DATA