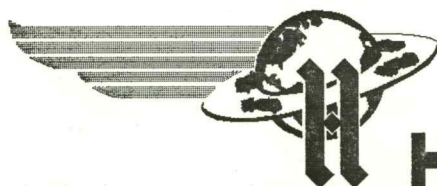


283



HALLIBURTON SERVICES

TICKET NO. 62020100

14-DEC-87

NESS CITY

RECEIVED

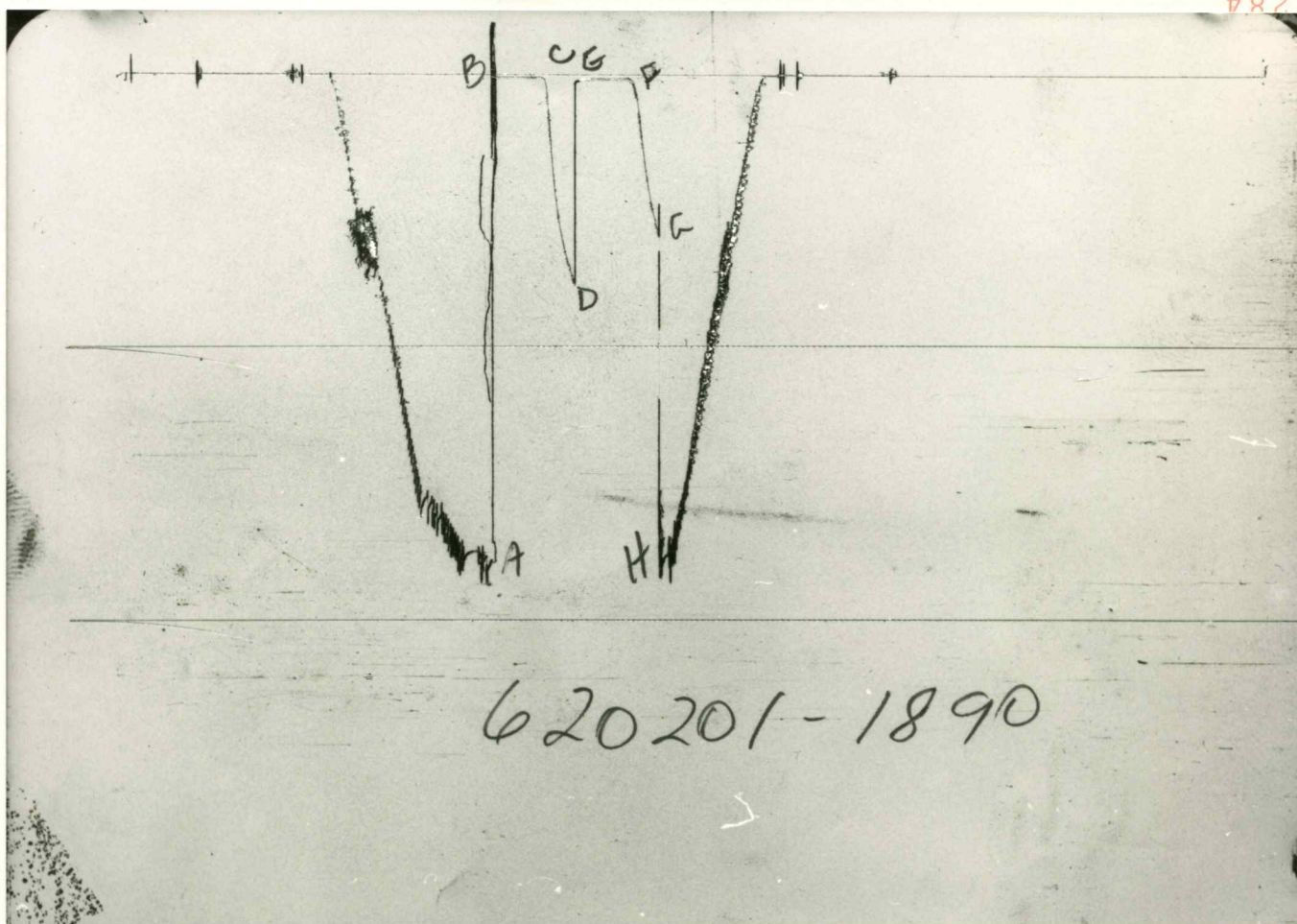
JAN 22 '88

WILLIAM BEND
Division Office

FORMATION TESTING SERVICE REPORT

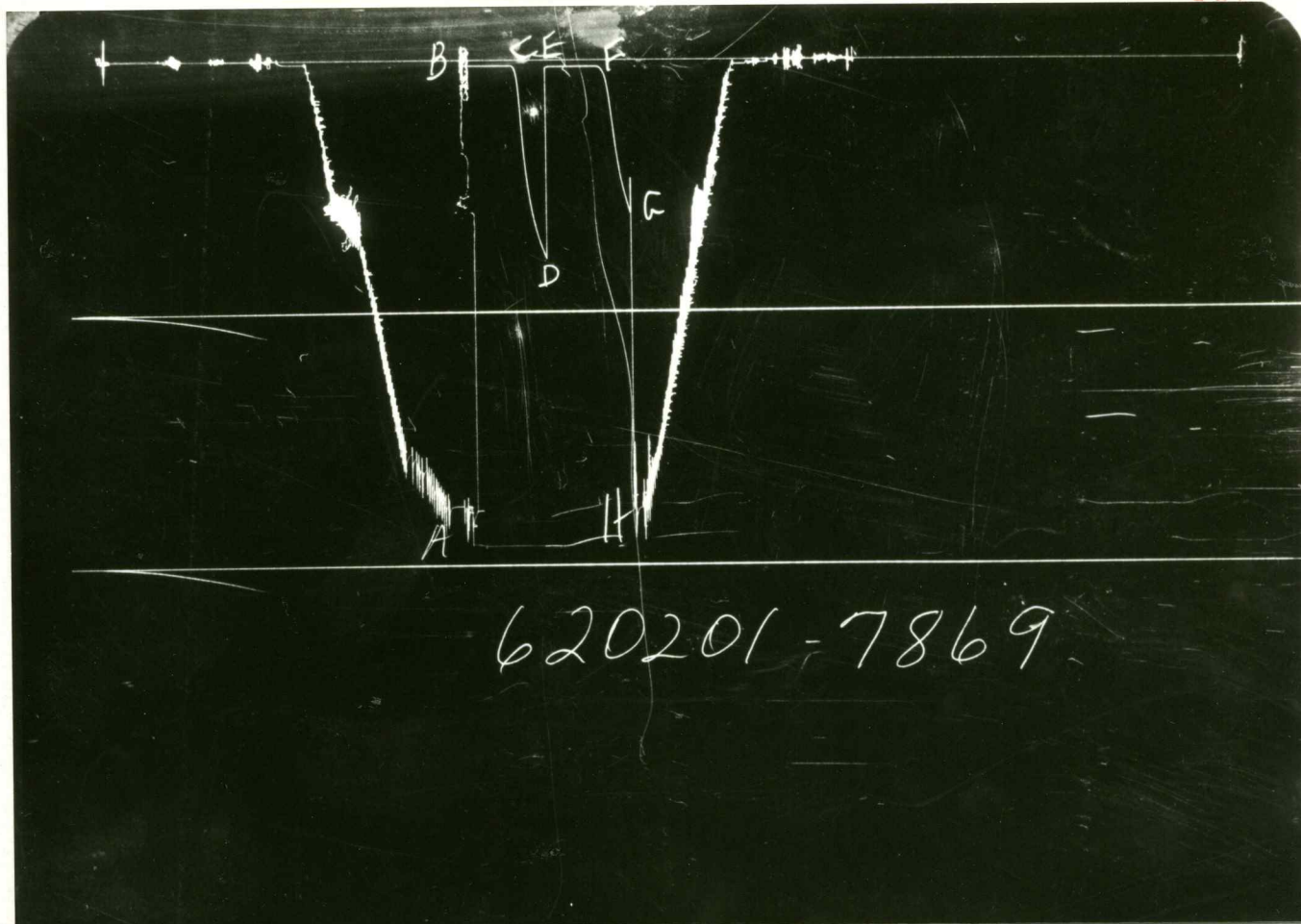
LEASE NAME	DAVIS	WELL NO.	WV-1	TEST NO.	1	TESTED INTERVAL	3665.0 - 3690.0	LEASE OWNER/COMPANY NAME	DONALD C. SLAWSON
LEGAL LOCATION	29-155-28M	FIELD AREA		COUNTY	GOVE	STATE	KANSAS	SM	
SEC. - TWP. - RNG.									

C NW-NW



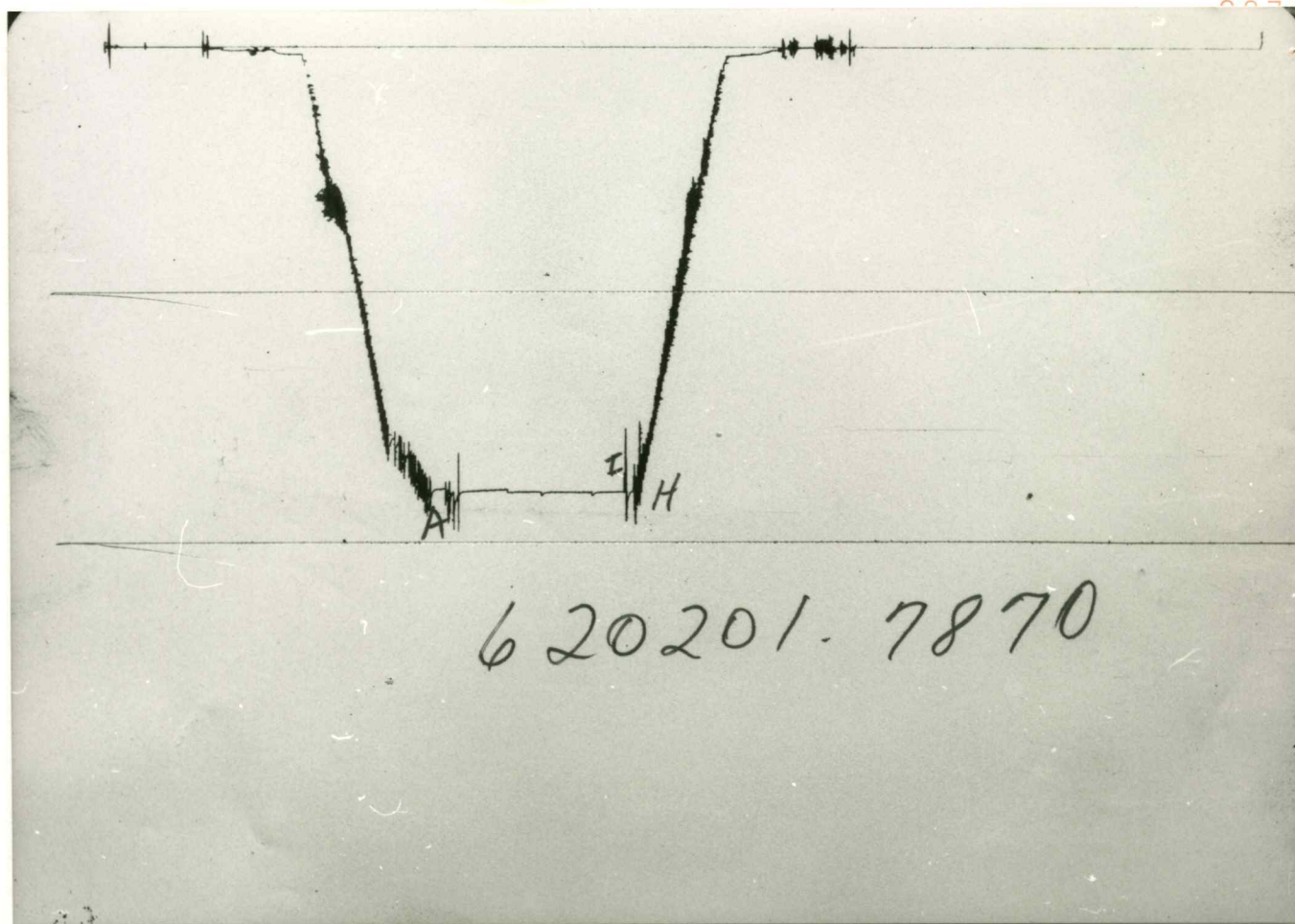
GAUGE NO: 1890 DEPTH: 3649.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1763	1783.5			
B	INITIAL FIRST FLOW	9	7.4			
C	FINAL FIRST FLOW	13	9.2	30.0	29.7	F
C	INITIAL FIRST CLOSED-IN	13	9.2			
D	FINAL FIRST CLOSED-IN	765	763.9	20.0	20.2	C
E	INITIAL SECOND FLOW	18	30.4			
F	FINAL SECOND FLOW	18	14.0	30.0	31.1	F
F	INITIAL SECOND CLOSED-IN	18	14.0			
G	FINAL SECOND CLOSED-IN	559	591.1	20.0	19.0	C
H	FINAL HYDROSTATIC	1763	1763.7			
I	HYDROSTATIC RELEASE					



GAUGE NO: 7869 DEPTH: 3682.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		1774.4			
B	INITIAL FIRST FLOW		23.4			
C	FINAL FIRST FLOW		23.7	30.0	29.7	F
C	INITIAL FIRST CLOSED-IN		23.7	20.0	20.2	C
D	FINAL FIRST CLOSED-IN		787.6			
E	INITIAL SECOND FLOW		33.9	30.0	31.1	F
F	FINAL SECOND FLOW		27.2			
F	INITIAL SECOND CLOSED-IN		27.2	20.0	19.0	C
G	FINAL SECOND CLOSED-IN		607.4			
H	FINAL HYDROSTATIC		1769.4			
I	HYDROSTATIC RELEASE					



GAUGE NO: 7870 DEPTH: 3707.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		1806.3			
B	INITIAL FIRST FLOW					
C	FINAL FIRST FLOW			30.0		F
C	INITIAL FIRST CLOSED-IN					
D	FINAL FIRST CLOSED-IN			20.0		C
E	INITIAL SECOND FLOW					
F	FINAL SECOND FLOW			30.0		F
F	INITIAL SECOND CLOSED-IN					
G	FINAL SECOND CLOSED-IN			20.0		C
H	FINAL HYDROSTATIC		1791.7			
I	HYDROSTATIC RELEASE		1793.4			

EQUIPMENT & HOLE DATA

FORMATION TESTED: KANSAS CITY 35'
 NET PAY (ft): 4.0
 GROSS TESTED FOOTAGE: 25.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 2496.0 KELLY BUSHING
 TOTAL DEPTH (ft): 3710.0
 PACKER DEPTH(S) (ft): 3665, 3690
 FINAL SURFACE CHOKE (in): _____
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.20
 MUD VISCOSITY (sec): 42
 ESTIMATED HOLE TEMP. (°F): 120
 ACTUAL HOLE TEMP. (°F): _____ @ _____ ft

TICKET NUMBER: 62020100DATE: 12-8-87 TEST NO: 1TYPE DST: ON BTM STRADDLEHALLIBURTON CAMP:
NESS CITYTESTER: B. CROSSWHITEWITNESS: R. ROBBADRILLING CONTRACTOR:
CO. TOOLS RIG #1FLUID PROPERTIES FOR
RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
RECOVERY	_____ @ _____ °F	<u>7000</u> ppm
SYSTEM	_____ @ _____ °F	<u>7000</u> 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:

10 FEET OF DRILLING MUD

NO SHOW OF OILMEASURED FROM
TESTER VALVE

REMARKS:

[illegible]

TICKET NO: 62020100

CLOCK NO: 28268 HOUR: 12



GAUGE NO: 1890

DEPTH: 3649.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
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FIRST FLOW

B 1 0.0 7.4
C 2 29.7 9.2 1.8

FIRST CLOSED-IN

C 1 0.0 9.2
2 2.0 19.2 10.0 1.9 1.197
3 4.0 115.0 105.9 3.5 0.926
4 6.0 287.1 277.9 5.0 0.775
5 8.0 419.9 410.8 6.3 0.673
6 10.0 518.0 508.8 7.5 0.598
7 12.0 589.0 579.8 8.6 0.539
8 14.0 645.1 636.0 9.5 0.493
9 16.0 689.0 679.8 10.4 0.455
10 17.9 727.0 717.9 11.2 0.424
D 11 20.2 763.9 754.7 12.0 0.393

SECOND FLOW

E 1 0.0 30.4
F 2 31.1 14.0 -16.4

SECOND CLOSED-IN

F 1 0.0 14.0
2 2.1 22.4 8.4 2.0 1.485
3 4.0 55.3 41.2 3.8 1.209
4 6.0 129.3 115.3 5.5 1.045
5 8.0 234.0 220.0 7.1 0.932
6 10.0 327.5 313.5 8.6 0.849
7 12.0 406.5 392.4 10.0 0.784
8 14.0 472.0 458.0 11.4 0.728
9 16.0 525.8 511.8 12.7 0.681
10 18.0 568.9 554.9 13.9 0.641
G 11 19.0 591.1 577.1 14.5 0.623

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
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REMARKS:

DEPTH: 3682.0



REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	3511.0	
50		IMPACT REVERSING SUB.....	5.000	2.750	1.0	3511.0
1		DRILL PIPE.....	4.500	3.826	124.0	
5		CROSSOVER.....	5.000	2.750	1.0	
12		DUAL CIP VALVE.....	5.000	0.870	6.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	3647.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	3649.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
17		PRESSURE EQUALIZING CROSSOVER...	5.000	1.000	1.0	
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	3665.0
20		FLUSH JOINT ANCHOR.....	5.000	2.370	13.0	
17		PRESSURE EQUALIZING CROSSOVER...	5.000	1.000	1.0	
80		AP RUNNING CASE.....	5.000	2.250	4.0	3682.0
5		CROSSOVER.....	5.000	2.750	1.0	
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	3690.0
20		FLUSH JOINT ANCHOR.....	5.000	2.370	14.0	
81		BLANKED-OFF RUNNING CASE.....	5.000		4.0	3707.0
TOTAL DEPTH					3710.0	

EQUIPMENT DATA

DAVIS *WU'* WELL NO. 1 TEST NO. 2 3718.0 - 3740.0
 LEASE NAME
 LEGAL LOCATION SEC. - TWP. - RNG. 29-15S-28M FIELD AREA
 COUNTY GOVE STATE KANSAS DR
 DONALD C. SLIMSON
 LEASE OWNER/COMPANY NAME

C NW-NW



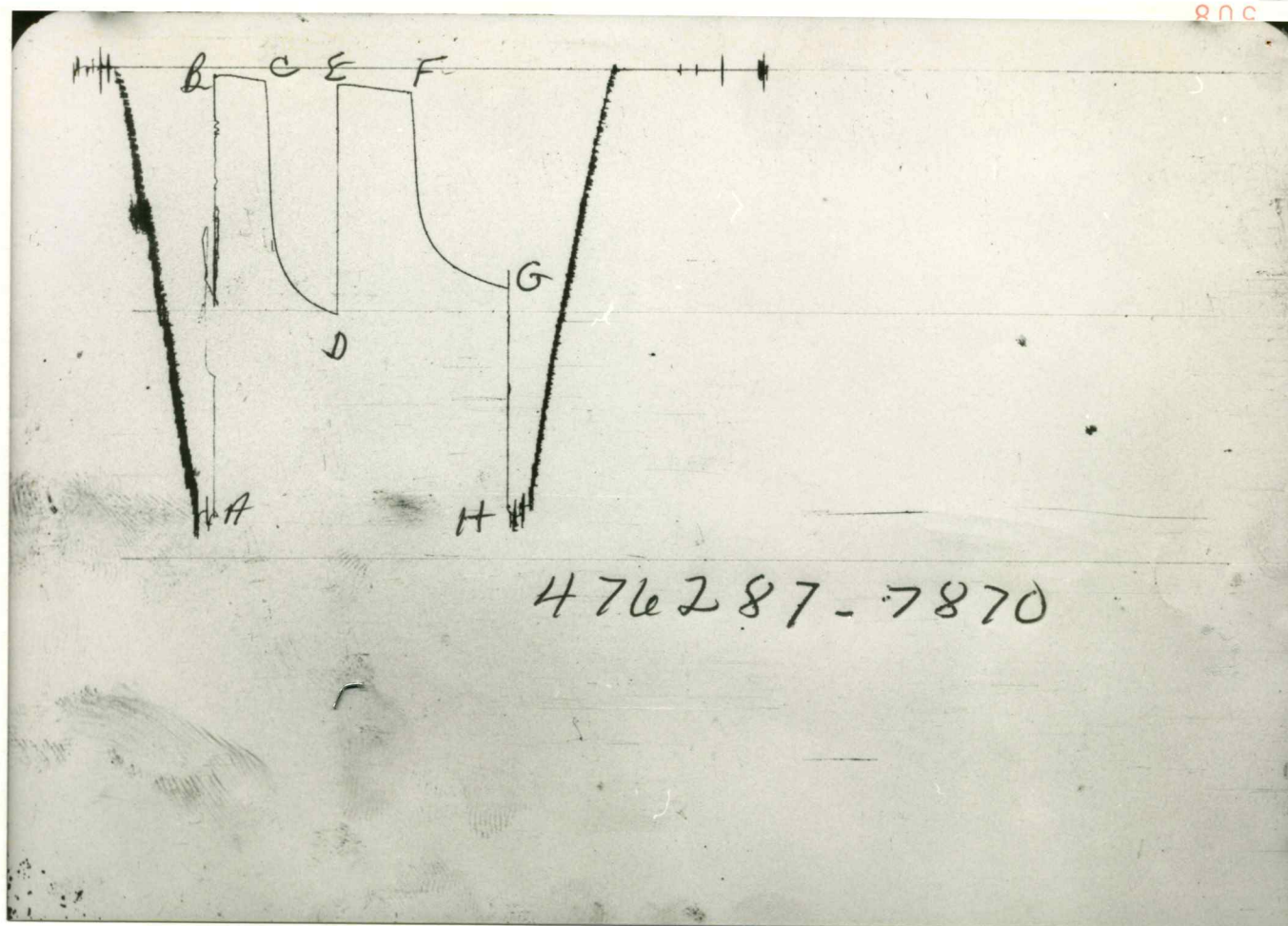
HALLIBURTON SERVICES

TICKET NO. 47628700

14-DEC-87

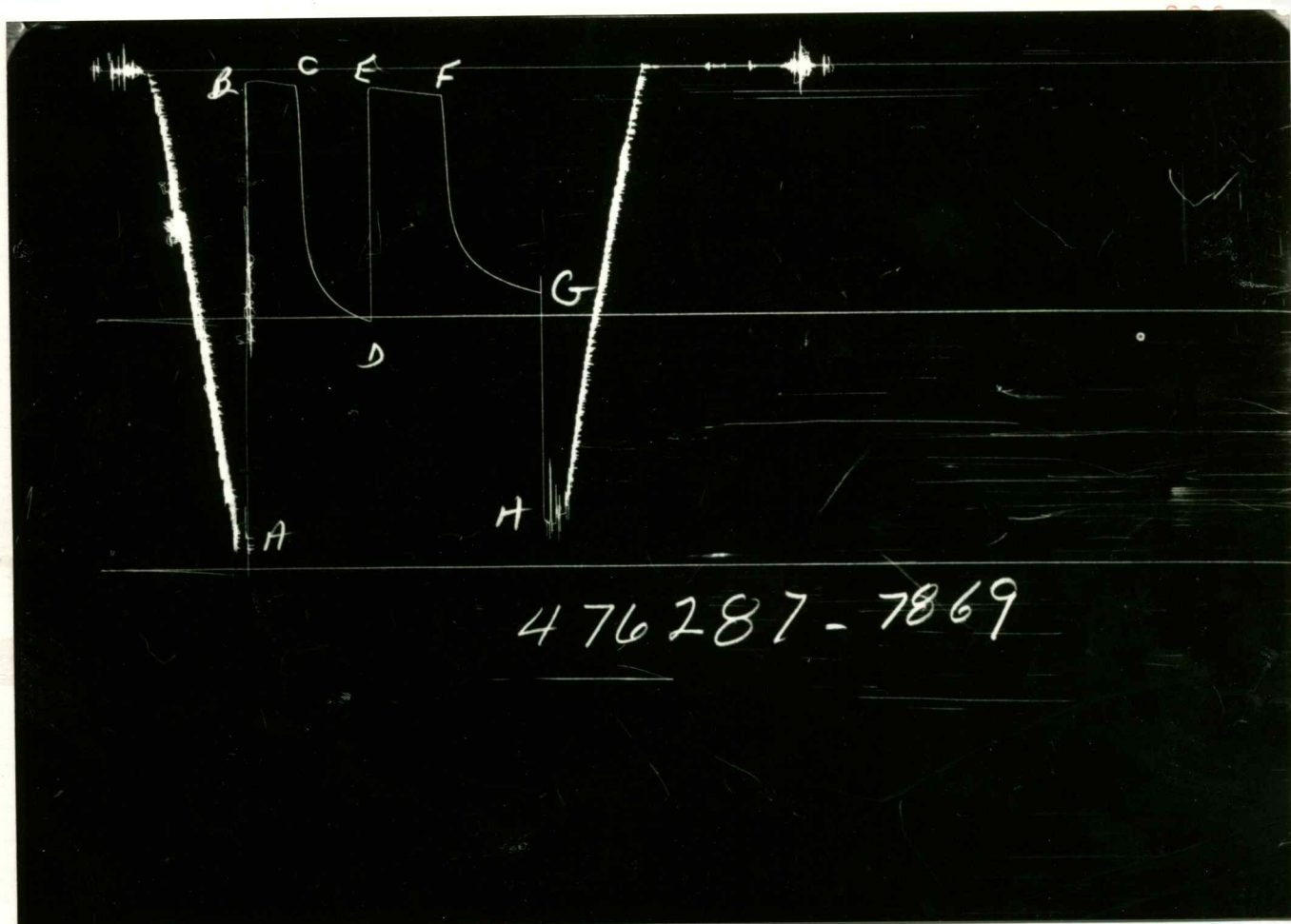
NESS CITY

FORMATION TESTING SERVICE REPORT



GAUGE NO: 7870 DEPTH: 3703.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1808	1798.7			
B	INITIAL FIRST FLOW	40	39.6	30.0	30.7	F
C	FINAL FIRST FLOW	60	54.1			
C	INITIAL FIRST CLOSED-IN	60	54.1	45.0	44.7	C
D	FINAL FIRST CLOSED-IN	995	1004.7			
E	INITIAL SECOND FLOW	60	69.6	45.0	44.8	F
F	FINAL SECOND FLOW	90	98.5			
F	INITIAL SECOND CLOSED-IN	90	98.5	60.0	59.8	C
G	FINAL SECOND CLOSED-IN	896	898.9			
H	FINAL HYDROSTATIC	1808	1813.0			



GAUGE NO : 7869 DEPTH : 3737.0 BLANKED OFF : YES HOUR OF CLOCK : 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		1807.2			
B	INITIAL FIRST FLOW		54.2			
C	FINAL FIRST FLOW		66.3	30.0	30.7	F
C	INITIAL FIRST CLOSED-IN		66.3			
D	FINAL FIRST CLOSED-IN		1013.0	45.0	44.7	C
E	INITIAL SECOND FLOW		86.2			
F	FINAL SECOND FLOW		108.7	45.0	44.8	F
F	INITIAL SECOND CLOSED-IN		108.7			
G	FINAL SECOND CLOSED-IN		905.2	60.0	59.8	C
H	FINAL HYDROSTATIC		1821.6			

EQUIPMENT & HOLE DATA

FORMATION TESTED: KC 70' ZONE
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 22.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 2496.0 KELLY BUSHING
 TOTAL DEPTH (ft): 3740.0
 PACKER DEPTH(S) (ft): 3718
 FINAL SURFACE CHOKE (in): _____
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.30
 MUD VISCOSITY (sec): 50
 ESTIMATED HOLE TEMP. (°F): 120
 ACTUAL HOLE TEMP. (°F): 127 @ 3735.0 ft

TICKET NUMBER: 47628700DATE: 12-8-87 TEST NO: 2TYPE DST: OPEN HOLEHALLIBURTON CAMP:
NESS CITYTESTER: S. NUTTINGWITNESS: R. ROBBADRILLING CONTRACTOR:
SLAWSON RIG #1FLUID PROPERTIES FOR
RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
SYSTEM	_____ @ _____ °F	<u>7000</u> ppm
RECOVERY	_____ @ _____ °F	<u>7000</u> 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): 36.2 @ 60 °F
 GAS/OIL RATIO (cu.ft. per bbl): _____
 GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED:

23' TOTAL LIQUID: (434' GAS IN PIPE)
 107' CLEAN GASSY OIL'; 109' SLIGHTLY WATER AND MUD
 CUT OIL. (10% WATER, 20% MUD, 70% OIL)
 15' OF WATER

MEASURED FROM
TESTER VALVE

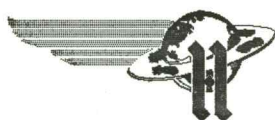
REMARKS:

511

[illegible]

TICKET NO: 47628700

CLOCK NO: 28184 HOUR: 12



GAUGE NO: 7870

DEPTH: 3703.0

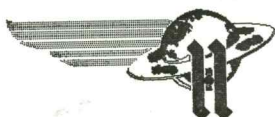
REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	39.6			
2	5.0	31.4	-8.1		
3	10.0	32.1	0.7		
4	15.0	38.1	5.9		
5	20.0	42.6	4.5		
6	25.0	48.6	6.0		
C 7	30.7	54.1	5.5		
FIRST CLOSED-IN					
C 1	0.0	54.1			
2	1.0	145.0	90.9	1.0	1.485
3	2.0	299.8	245.6	1.9	1.216
4	3.0	540.0	485.8	2.7	1.055
5	4.0	647.4	593.2	3.5	0.942
6	5.0	697.9	643.7	4.3	0.856
7	6.0	730.8	676.7	5.0	0.787
8	7.0	759.4	705.3	5.7	0.731
9	8.0	782.0	727.9	6.4	0.683
10	9.0	800.5	746.3	6.9	0.646
11	10.0	817.0	762.9	7.5	0.611
12	12.0	843.0	788.8	8.6	0.551
13	14.0	865.0	810.8	9.6	0.505
14	16.0	883.8	829.7	10.5	0.465
15	18.0	901.1	846.9	11.4	0.432
16	20.0	914.8	860.7	12.1	0.404
17	22.0	927.1	873.0	12.8	0.380
18	24.0	937.9	883.7	13.5	0.358
19	26.0	948.3	894.2	14.1	0.338
20	28.0	957.2	903.1	14.6	0.321
21	30.0	965.0	910.9	15.2	0.306
22	35.0	981.4	927.2	16.4	0.273
23	40.0	996.1	941.9	17.4	0.247
D 24	44.7	1004.7	950.6	18.2	0.227
SECOND FLOW					
E 1	0.0	69.6			
2	8.0	69.1	-0.5		
3	16.0	75.5	6.4		
4	24.0	82.4	6.9		
5	32.0	89.1	6.6		
6	40.0	94.8	5.7		
F 7	44.8	98.5	3.7		
SECOND CLOSED-IN					
F 1	0.0	98.5			
2	1.0	199.3	100.9	1.0	1.882

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
3	2.0	308.8	210.3	2.0	1.583
4	3.0	463.2	364.7	2.9	1.420
5	4.0	538.3	439.8	3.8	1.298
6	5.0	586.6	488.1	4.7	1.205
7	6.0	616.4	517.9	5.6	1.133
8	7.0	638.0	539.5	6.4	1.073
9	8.0	660.3	561.8	7.2	1.018
10	9.0	676.5	578.0	8.0	0.973
11	10.0	687.3	588.8	8.8	0.933
12	12.0	712.2	613.7	10.3	0.863
13	14.0	734.1	635.6	11.8	0.806
14	16.0	750.4	651.9	13.2	0.757
15	18.0	765.0	666.5	14.5	0.716
16	20.0	779.8	681.3	15.8	0.679
17	22.0	791.1	692.7	17.1	0.646
18	24.0	800.8	702.3	18.2	0.618
19	26.0	810.7	712.2	19.3	0.592
20	28.0	819.9	721.4	20.4	0.568
21	30.0	828.8	730.3	21.5	0.546
22	35.0	843.6	745.1	23.9	0.500
23	40.0	859.2	760.7	26.2	0.461
24	45.0	872.1	773.6	28.2	0.428
25	50.0	883.2	784.7	30.1	0.400
26	55.0	891.8	793.3	31.8	0.375
G 27	59.8	898.9	800.4	33.4	0.355

REMARKS:

TICKET NO: 47628700

CLOCK NO: 26733 HOUR: 12



GAUGE NO: 7869

DEPTH: 3737.0

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	54.2			
2	5.0	47.4	-6.8		
3	10.0	46.7	-0.7		
4	15.0	51.7	5.0		
5	20.0	57.1	5.4		
6	25.0	62.3	5.3		
C 7	30.7	66.3	4.0		
FIRST CLOSED-IN					
C 1	0.0	66.3			
2	1.0	113.4	47.1	1.0	1.502
3	2.0	218.3	152.0	1.9	1.212
4	3.0	448.6	382.2	2.8	1.048
5	4.0	595.1	528.8	3.5	0.939
6	5.0	667.5	601.2	4.3	0.857
7	6.0	717.5	651.2	5.0	0.787
8	7.0	758.0	691.7	5.7	0.731
9	8.0	779.2	712.9	6.3	0.685
10	9.0	800.2	733.9	7.0	0.645
11	10.0	817.7	751.4	7.5	0.611
12	12.0	847.7	781.4	8.6	0.550
13	14.0	869.3	803.0	9.6	0.504
14	16.0	889.3	822.9	10.5	0.465
15	18.0	906.5	840.1	11.4	0.432
16	20.0	920.9	854.5	12.1	0.404
17	22.0	933.3	867.0	12.8	0.379
18	24.0	944.6	878.3	13.5	0.358
19	26.0	954.9	888.6	14.1	0.339
20	28.0	963.6	897.3	14.6	0.322
21	30.0	971.5	905.1	15.2	0.306
22	35.0	989.5	923.1	16.4	0.274
23	40.0	1002.7	936.3	17.4	0.248
D 24	44.7	1013.0	946.7	18.2	0.227
SECOND FLOW					
E 1	0.0	86.2			
2	8.0	80.8	-5.3		
3	16.0	87.7	6.8		
4	24.0	94.3	6.6		
5	32.0	100.8	6.5		
6	40.0	106.2	5.4		
F 7	44.8	108.7	2.4		
SECOND CLOSED-IN					
F 1	0.0	108.7			
2	1.0	179.0	70.3	1.0	1.885

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
3	2.0	294.3	185.6	1.9	1.590
4	3.0	452.6	343.9	2.9	1.417
5	4.0	524.8	416.1	3.8	1.298
6	5.0	580.2	471.6	4.7	1.207
7	6.0	614.0	505.3	5.5	1.136
8	7.0	639.3	530.7	6.4	1.070
9	8.0	662.5	553.8	7.3	1.018
10	9.0	679.7	571.0	8.1	0.972
11	10.0	694.2	585.5	8.8	0.933
12	12.0	718.9	610.3	10.3	0.864
13	14.0	739.9	631.3	11.8	0.806
14	16.0	757.7	649.0	13.2	0.757
15	18.0	773.2	664.6	14.5	0.715
16	20.0	785.8	677.1	15.8	0.680
17	22.0	797.7	689.0	17.0	0.647
18	24.0	808.6	699.9	18.2	0.617
19	26.0	817.8	709.1	19.4	0.591
20	28.0	826.3	717.6	20.4	0.568
21	30.0	833.9	725.2	21.4	0.547
22	35.0	850.8	742.1	23.9	0.499
23	40.0	865.9	757.2	26.1	0.461
24	45.0	877.9	769.3	28.2	0.428
25	50.0	888.6	780.0	30.1	0.400
26	55.0	898.2	789.5	31.8	0.375
G 27	59.8	905.2	796.5	33.4	0.355

REMARKS:

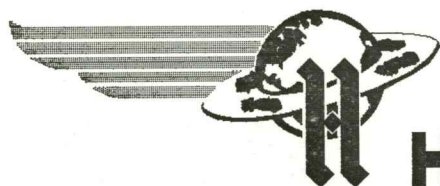
		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	3565.0	
50		IMPACT REVERSING SUB.....	5.000	2.250	1.0	3565.0
1		DRILL PIPE.....	4.500	3.826	124.0	
5		CROSSOVER.....	5.750	2.750	1.0	
12		DUAL CIP VALVE.....	5.000	0.870	6.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	3701.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	3703.0
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	3718.0
20		FLUSH JOINT ANCHOR.....	5.000	2.370	15.0	
83		HT-500 TEMPERATURE CASE.....	5.000		1.0	3735.0
81		BLANKED-OFF RUNNING CASE.....	5.000		4.0	3737.0

TEMPERATURE RECORDER CHART



10° each circle

671



HALLIBURTON SERVICES

TICKET NO. 47628800

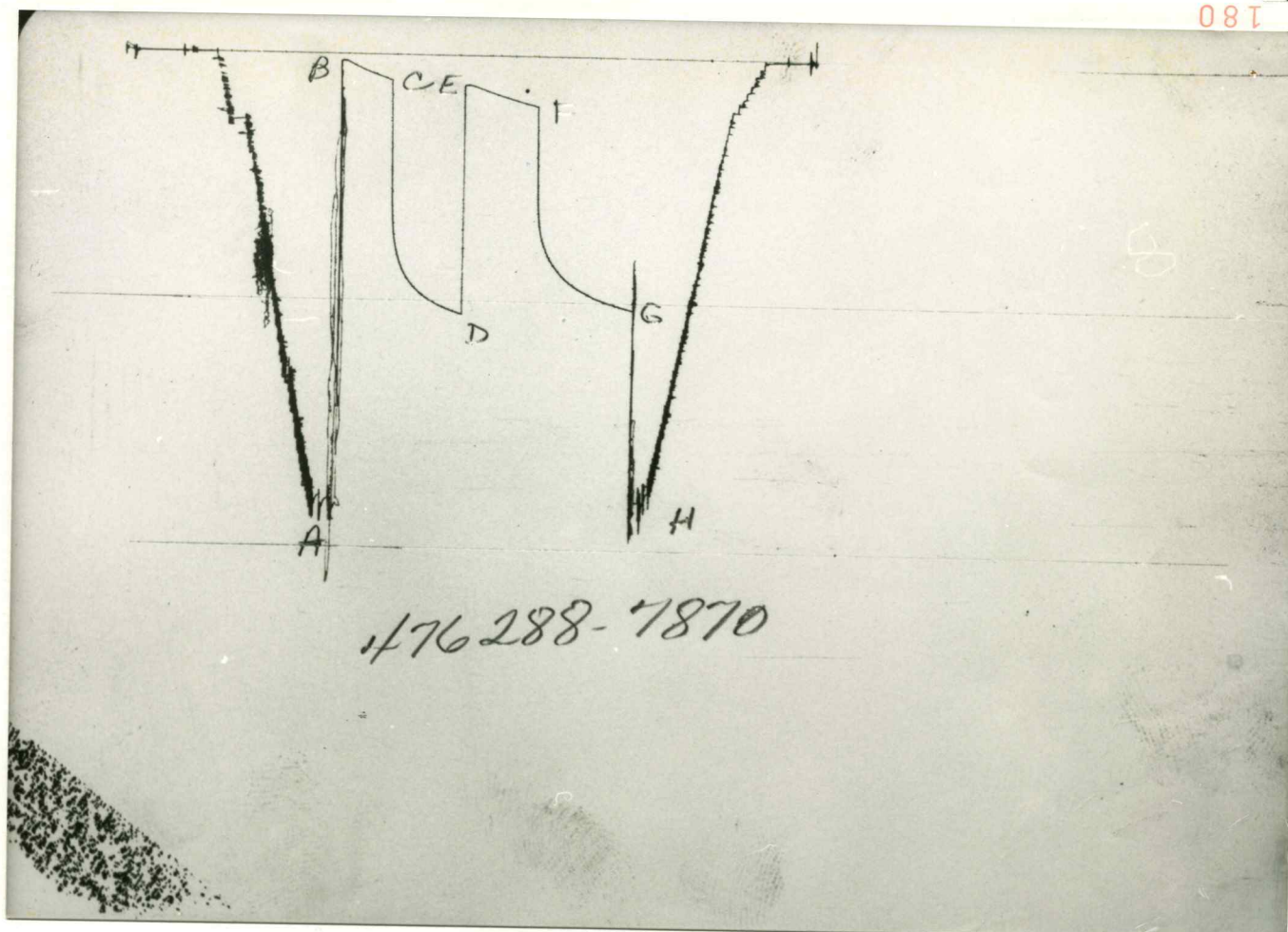
14-DEC-87

NESS CITY

FORMATION TESTING SERVICE REPORT

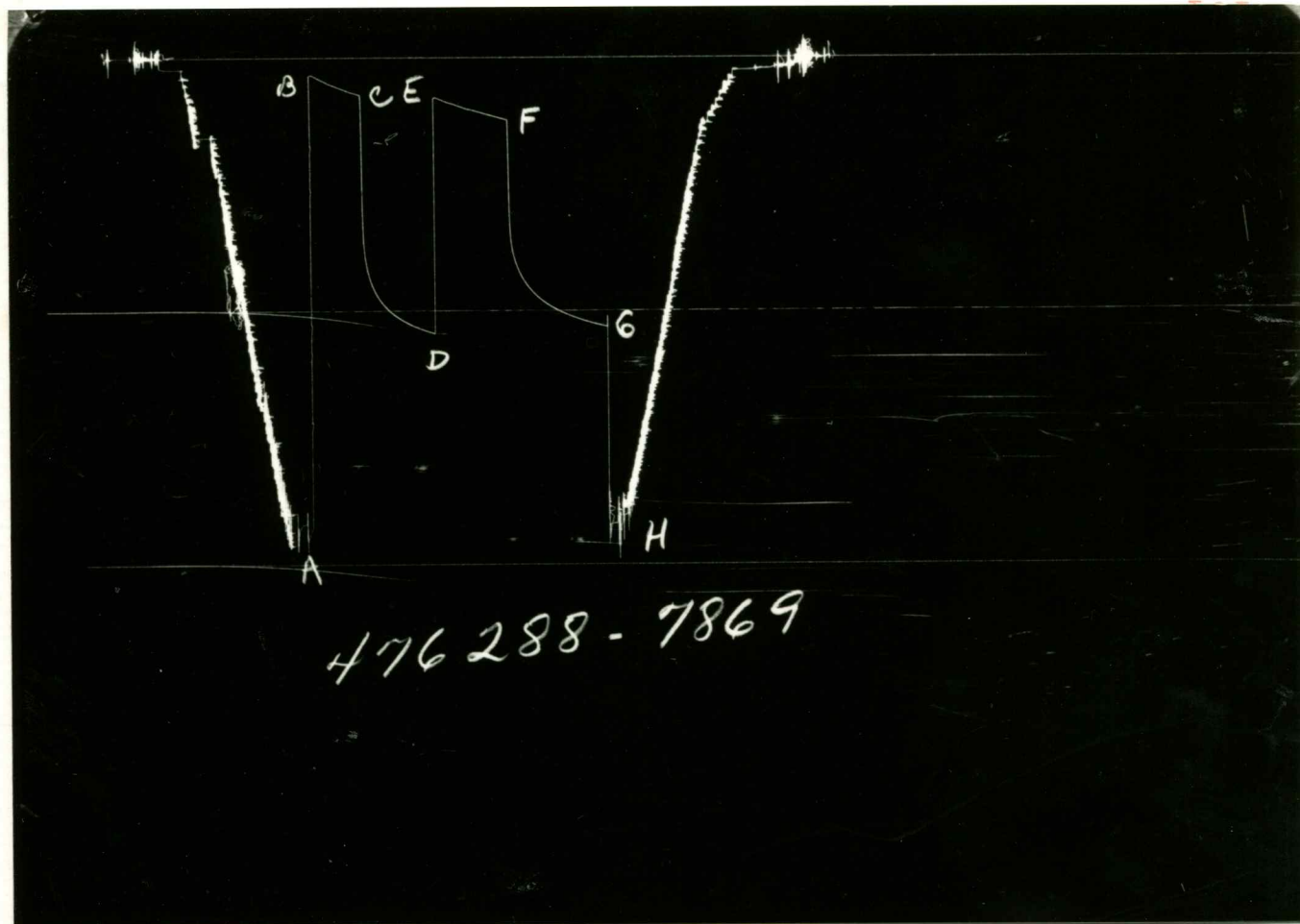
LEASE NAME	DAVIS U. U.	WELL NO.	1	TEST NO.	3	TESTED INTERVAL	3797.0 - 3887.0	LEASE OWNER/COMPANY NAME	DONALD C. SLIMSON
LEGAL LOCATION	SEC. - TWP. - RNG.	29-15S-28W	FIELD AREA	COUNTY	GOVE	STATE	KANSAS	IC	

e NW-NW



GAUGE NO: 7870 DEPTH: 3782.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1798	1807.7			
B	INITIAL FIRST FLOW	20	30.8	30.0	30.9	F
C	FINAL FIRST FLOW	100	104.3			
C	INITIAL FIRST CLOSED-IN	100	104.3	45.0	44.4	C
D	FINAL FIRST CLOSED-IN	1053	1055.8			
E	INITIAL SECOND FLOW	120	123.3	45.0	44.8	F
F	FINAL SECOND FLOW	200	205.1			
F	INITIAL SECOND CLOSED-IN	200	205.1	60.0	59.9	C
G	FINAL SECOND CLOSED-IN	1024	1031.5			
H	FINAL HYDROSTATIC	1798	1805.3			



GAUGE NO: 7869 DEPTH: 3884.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		1845.1			
B	INITIAL FIRST FLOW		71.3			
C	FINAL FIRST FLOW		148.5	30.0	30.9	F
C	INITIAL FIRST CLOSED-IN		148.5			
D	FINAL FIRST CLOSED-IN		1094.6	45.0	44.4	C
E	INITIAL SECOND FLOW		162.4			
F	FINAL SECOND FLOW		247.2	45.0	44.8	F
F	INITIAL SECOND CLOSED-IN		247.2			
G	FINAL SECOND CLOSED-IN		1067.9	60.0	59.9	C
H	FINAL HYDROSTATIC		1843.0			

EQUIPMENT & HOLE DATA

FORMATION TESTED: K.C. 140', 160', 180' Z.
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 90.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 2496.0 KELLY BUSHING
 TOTAL DEPTH (ft): 3887.0
 PACKER DEPTH(S) (ft): 3797
 FINAL SURFACE CHOKE (in): _____
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.20
 MUD VISCOSITY (sec): 58
 ESTIMATED HOLE TEMP. (°F): 120
 ACTUAL HOLE TEMP. (°F): 118 @ 3882.0 ft

TICKET NUMBER: 47628800DATE: 12-9-87 TEST NO: 3TYPE DST: OPEN HOLEHALLIBURTON CAMP:
NESS CITYTESTER: S. NUTTINGWITNESS: R. ROBBADRILLING CONTRACTOR:
SLAWSON RIG #1FLUID 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 :

164 FEET OF DRILLING MUD
 186 FEET OF SALTWATER

MEASURED FROM
TESTER VALVE

REMARKS :

TICKET NO: 47628800

CLOCK NO: 28184 HOUR: 12



GAUGE NO: 7870

DEPTH: 3782.0

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	30.8			
2	5.0	33.7	2.8		
3	10.0	50.9	17.3		
4	15.0	66.1	15.2		
5	20.0	78.9	12.9		
6	25.0	90.5	11.5		
7	30.0	102.3	11.8		
C 8	30.9	104.3	1.9		
FIRST CLOSED-IN					
C 1	0.0	104.3			
2	3.0	788.5	684.3	2.7	1.052
3	6.0	858.9	754.6	5.0	0.788
4	9.0	900.8	796.5	7.0	0.648
5	12.0	929.7	825.4	8.7	0.553
6	15.0	952.5	848.2	10.1	0.487
7	18.0	970.8	866.6	11.4	0.435
8	21.0	987.4	883.1	12.5	0.393
9	24.0	1000.2	896.0	13.5	0.360
10	27.0	1012.0	907.7	14.4	0.331
11	30.0	1022.7	918.5	15.2	0.308
12	33.0	1030.0	925.7	16.0	0.287
13	36.0	1038.1	933.8	16.6	0.269
14	39.0	1045.7	941.5	17.2	0.254
15	42.0	1052.2	947.9	17.8	0.240
D 16	44.4	1055.8	951.6	18.2	0.230
SECOND FLOW					
E 1	0.0	123.3			
2	5.0	121.3	-2.1		
3	10.0	133.4	12.2		
4	15.0	145.5	12.1		
5	20.0	157.1	11.7		
6	25.0	167.8	10.7		
7	30.0	177.3	9.5		
8	35.0	186.5	9.1		
9	40.0	195.8	9.3		
F 10	44.8	205.1	9.2		
SECOND CLOSED-IN					
F 1	0.0	205.1			
2	4.0	770.2	565.2	3.8	1.296
3	8.0	830.5	625.5	7.2	1.020
4	12.0	868.0	663.0	10.4	0.864
5	16.0	898.8	693.8	13.2	0.758
6	20.0	923.3	718.2	15.8	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					
7	24.0	942.3	737.2	18.2	0.619
8	28.0	957.4	752.3	20.5	0.568
9	32.0	970.9	765.8	22.5	0.528
10	36.0	984.6	779.5	24.4	0.492
11	40.0	994.6	789.5	26.2	0.461
12	44.0	1003.8	798.8	27.8	0.435
13	48.0	1011.2	806.1	29.4	0.411
14	52.0	1018.9	813.8	30.8	0.390
15	56.0	1025.9	820.9	32.2	0.372
G 16	59.9	1031.5	826.5	33.4	0.355

REMARKS:

TICKET NO: 47628800

CLOCK NO: 26733 HOUR: 12



GAUGE NO: 7869

DEPTH: 3884.0

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	71.3			
2	5.0	80.3	9.0		
3	10.0	97.3	17.0		
4	15.0	112.1	14.8		
5	20.0	124.2	12.1		
6	25.0	137.4	13.2		
7	30.0	146.4	9.0		
C 8	30.9	148.5	2.1		
FIRST CLOSED-IN					
C 1	0.0	148.5			
2	3.0	823.8	675.3	2.8	1.051
3	6.0	897.8	749.2	5.0	0.791
4	9.0	938.7	790.2	6.9	0.649
5	12.0	970.7	822.1	8.6	0.554
6	15.0	993.2	844.7	10.1	0.485
7	18.0	1012.0	863.5	11.4	0.434
8	21.0	1026.7	878.2	12.5	0.393
9	24.0	1040.5	892.0	13.5	0.360
10	27.0	1051.1	902.6	14.4	0.332
11	30.0	1061.0	912.5	15.2	0.308
12	33.0	1069.3	920.8	16.0	0.287
13	36.0	1077.3	928.8	16.6	0.270
14	39.0	1084.1	935.6	17.2	0.254
15	42.0	1090.2	941.7	17.8	0.240
D 16	44.4	1094.6	946.0	18.2	0.230
SECOND FLOW					
E 1	0.0	162.4			
2	5.0	168.0	5.6		
3	10.0	180.2	12.2		
4	15.0	192.4	12.2		
5	20.0	203.7	11.2		
6	25.0	211.8	8.1		
7	30.0	220.8	9.0		
8	35.0	230.2	9.5		
9	40.0	239.1	8.9		
F 10	44.8	247.2	8.1		
SECOND CLOSED-IN					
F 1	0.0	247.2			
2	4.0	804.2	556.9	3.8	1.300
3	8.0	869.7	622.5	7.2	1.019
4	12.0	908.7	661.4	10.3	0.865
5	16.0	936.8	689.6	13.2	0.759
6	20.0	961.0	713.8	15.8	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					
7	24.0	980.7	733.5	18.2	0.619
8	28.0	997.0	749.7	20.5	0.568
9	32.0	1009.8	762.5	22.5	0.528
10	36.0	1021.5	774.2	24.4	0.491
11	40.0	1032.7	785.5	26.2	0.461
12	44.0	1041.3	794.1	27.8	0.434
13	48.0	1049.1	801.8	29.4	0.411
14	52.0	1056.0	808.8	30.8	0.390
15	56.0	1063.2	816.0	32.2	0.372
G 16	59.9	1067.9	820.7	33.4	0.355

REMARKS:

981

TICKET NO. 47628800

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	3644.0	
50		IMPACT REVERSING SUB.....	5.000	2.250	1.0	3644.0
1		DRILL PIPE.....	4.500	3.826	124.0	
5		CROSSOVER.....	5.750	2.750	1.0	
12		DUAL CIP VALVE.....	5.000	0.870	6.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	3780.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	3782.0
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	3797.0
5		CROSSOVER.....	5.750	2.750	1.0	
5		CROSSOVER.....	5.750	2.750	1.0	
1		DRILL PIPE.....	4.500	3.826	63.0	
5		CROSSOVER.....	5.750	2.750	1.0	
5		CROSSOVER.....	5.750	2.750	1.0	
20		FLUSH JOINT ANCHOR.....	5.000	2.370	16.0	
83						
81						

TEMPERATURE

RECORDER

CHART

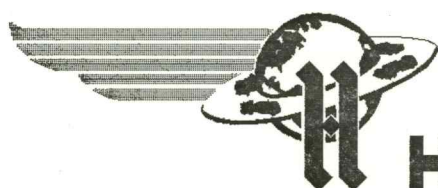


10° each circle

763

LEASE NAME	DRYIS UU	WELL NO.	1	TEST NO.	4	TESTED INTERVAL	3898.0 - 3927.0	LEASE OWNER/COMPANY NAME	DONALD C. SLAWSON
LEGAL LOCATION	29-15-28	FIELD AREA		COUNTY		GOVE		STATE	KANSAS
SEC. - TWP. - RNG.									SM

a NW - NW



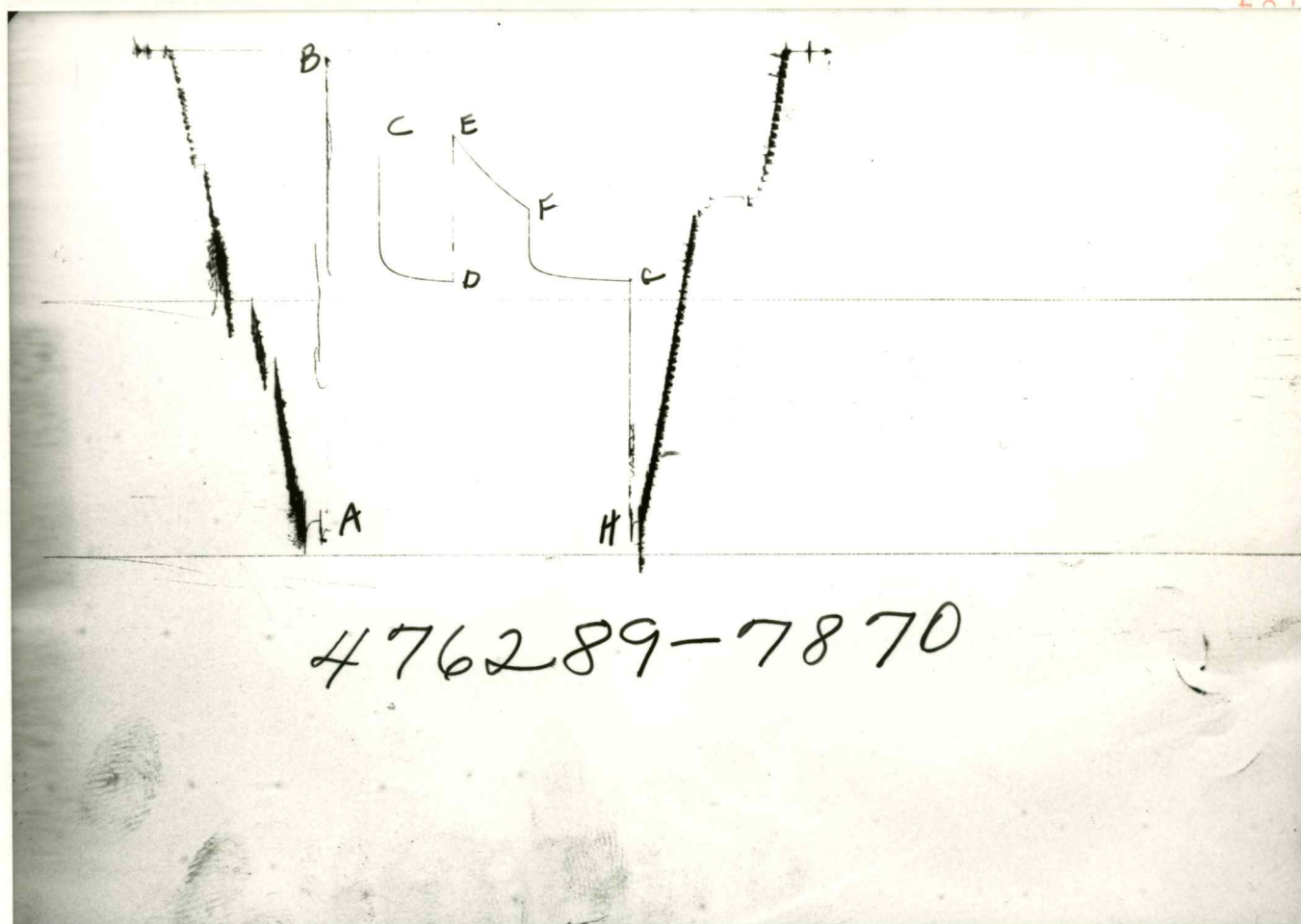
HALLIBURTON SERVICES

TICKET NO. 47628900

16-DEC-87

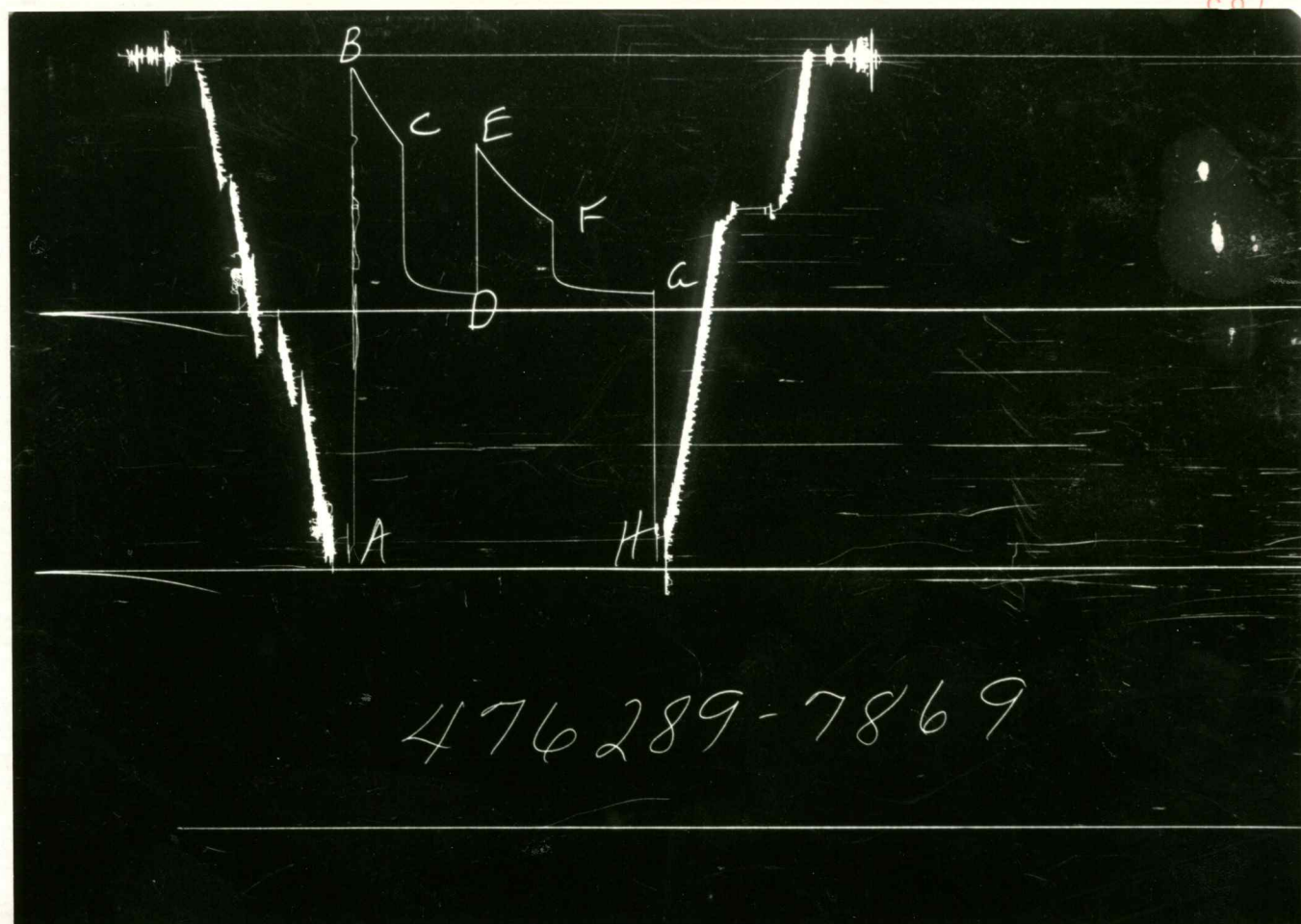
NESS CITY

FORMATION TESTING SERVICE REPORT



GAUGE NO: 7870 DEPTH: 3883.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1896	1860.9			
B	INITIAL FIRST FLOW	30	31.4			
C	FINAL FIRST FLOW	321	329.3	30.0	30.4	F
C	INITIAL FIRST CLOSED-IN	321	329.3			
D	FINAL FIRST CLOSED-IN	916	919.3	45.0	44.2	C
E	INITIAL SECOND FLOW	341	343.6			
F	FINAL SECOND FLOW	620	629.5	45.0	45.0	F
F	INITIAL SECOND CLOSED-IN	620	629.5			
G	FINAL SECOND CLOSED-IN	906	916.3	60.0	60.4	C
H	FINAL HYDROSTATIC	1847	1860.9			



GAUGE NO : 7869 DEPTH : 3924.0 BLANKED OFF : YES HOUR OF CLOCK : 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		1872.3			
B	INITIAL FIRST FLOW		48.5			
C	FINAL FIRST FLOW		346.6	30.0	30.4	F
C	INITIAL FIRST CLOSED-IN		346.6			
D	FINAL FIRST CLOSED-IN		928.8	45.0	44.2	C
E	INITIAL SECOND FLOW		356.6			
F	FINAL SECOND FLOW		645.5	45.0	45.0	F
F	INITIAL SECOND CLOSED-IN		645.5			
G	FINAL SECOND CLOSED-IN		927.6	60.0	60.4	C
H	FINAL HYDROSTATIC		1870.5			

EQUIPMENT & HOLE DATAFORMATION TESTED: KC 200' ZONE

NET PAY (ft): _____

GROSS TESTED FOOTAGE: 29.0ALL DEPTHS MEASURED FROM: KELLY BUSHING

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 7.875ELEVATION (ft): 2496.0 KELLY BUSHINGTOTAL DEPTH (ft): 3927.0PACKER DEPTH(S) (ft): 3898

FINAL SURFACE CHOKE (in): _____

BOTTOM HOLE CHOKE (in): 0.750MUD WEIGHT (lb/gal): 9.10MUD VISCOSITY (sec): 49ESTIMATED HOLE TEMP. (°F): 120ACTUAL HOLE TEMP. (°F): 133 @ 3922.0 ftTICKET NUMBER: 47628900DATE: 12-10-87 TEST NO: 4TYPE DST: OPEN HOLEHALLIBURTON CAMP:
NESS CITYTESTER: S. NUTTINGWITNESS: R. ROBBADRILLING CONTRACTOR:
SLAWSON RIG #1**FLUID PROPERTIES FOR
RECOVERED MUD & WATER**

SOURCE

RESISTIVITY

CHLORIDES

_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

SAMPLER DATAP_{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 :

1456 FEET TOTAL FLUID CONSISTING OF :

30 FEET OF GAS IN PIPE

5 FEET OF FREE OIL

119 FEET OF SLIGHTLY OIL & GAS CUT MUDDY SALT WATER

1332 FEET OF SALT WATER

MEASURED FROM
TESTER VALVE**REMARKS :**

TICKET NO: 47628900

CLOCK NO: 28184 HOUR: 12



GAUGE NO: 7870

DEPTH: 3883.0

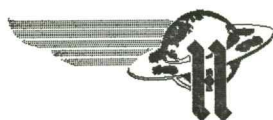
REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	31.4			
2	2.0	39.1	7.6		
3	4.0	51.0	22.0		
4	6.0	86.2	25.1		
5	8.0	108.8	22.7		
6	10.0	133.7	24.8		
7	12.0	154.1	20.5		
8	14.0	176.2	22.1		
9	16.0	196.4	20.2		
10	18.0	216.4	20.0		
11	20.0	234.9	18.5		
12	22.0	254.5	19.6		
13	24.0	271.9	17.5		
14	26.0	289.1	17.2		
15	28.0	307.7	18.6		
C 16	30.4	329.3	21.6		
FIRST CLOSED-IN					
C 1	0.0	329.3			
2	1.0	812.6	483.3	1.0	1.493
3	2.0	832.4	503.1	1.9	1.209
4	3.0	844.7	515.5	2.7	1.049
5	4.0	853.8	524.5	3.5	0.939
6	5.0	861.9	532.6	4.3	0.850
7	6.0	867.5	538.3	5.0	0.784
8	7.0	873.3	544.0	5.7	0.727
9	8.0	877.9	548.6	6.3	0.680
10	9.0	880.8	551.6	6.9	0.641
11	10.0	884.6	555.3	7.5	0.607
12	12.0	890.6	561.3	8.6	0.548
13	14.0	895.0	565.7	9.6	0.502
14	16.0	898.6	569.3	10.5	0.462
15	18.0	901.0	571.7	11.3	0.430
16	20.0	903.9	574.7	12.1	0.402
17	22.0	906.4	577.1	12.8	0.377
18	24.0	908.7	579.4	13.4	0.355
19	26.0	910.1	580.9	14.0	0.336
20	28.0	912.2	582.9	14.6	0.319
21	30.0	913.1	583.8	15.1	0.304
22	35.0	916.0	586.7	16.3	0.271
23	40.0	918.7	589.4	17.3	0.245
D 24	44.2	919.3	590.0	18.0	0.227
SECOND FLOW					
E 1	0.0	343.6			
2	3.0	360.6	17.0		
3	6.0	387.5	26.9		
4	9.0	412.4	25.0		

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
5	12.0	435.2	22.7		
6	15.0	458.4	23.2		
7	18.0	480.0	21.5		
8	21.0	499.8	19.8		
9	24.0	520.7	21.0		
10	27.0	537.7	17.0		
11	30.0	554.3	16.6		
12	33.0	570.6	16.3		
13	36.0	587.4	16.7		
14	39.0	601.8	14.4		
15	42.0	616.5	14.7		
F 16	45.0	629.5	13.0		
SECOND CLOSED-IN					
F 1	0.0	629.5			
2	1.0	842.2	212.7	1.0	1.868
3	2.0	853.2	223.7	2.0	1.579
4	3.0	859.9	230.4	2.9	1.417
5	4.0	866.5	237.1	3.8	1.300
6	5.0	871.3	241.8	4.7	1.204
7	6.0	874.7	245.3	5.6	1.132
8	7.0	877.3	247.8	6.4	1.073
9	8.0	880.2	250.7	7.2	1.018
10	9.0	882.6	253.2	8.0	0.972
11	10.0	885.5	256.0	8.9	0.930
12	12.0	889.4	259.9	10.4	0.862
13	14.0	891.8	262.4	11.8	0.805
14	16.0	894.7	265.2	13.2	0.756
15	18.0	897.0	267.5	14.5	0.715
16	20.0	899.1	269.6	15.8	0.679
17	22.0	901.1	271.7	17.1	0.645
18	24.0	902.3	272.8	18.2	0.617
19	26.0	903.4	273.9	19.4	0.590
20	28.0	904.4	274.9	20.4	0.568
21	30.0	905.9	276.4	21.5	0.546
22	35.0	907.8	278.4	23.9	0.499
23	40.0	910.7	281.3	26.1	0.460
24	45.0	912.0	282.5	28.2	0.427
25	50.0	913.9	284.4	30.1	0.399
26	55.0	915.0	285.5	31.8	0.375
G 27	60.4	916.3	286.8	33.5	0.352

REMARKS:

TICKET NO: 47628900

CLOCK NO: 26733 HOUR: 12



GAUGE NO: 7869

DEPTH: 3924.0

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	48.5			
2	2.0	50.1	11.6		
3	4.0	85.2	26.1		
4	6.0	110.1	23.9		
5	8.0	132.7	22.6		
6	10.0	155.1	22.4		
7	12.0	176.9	21.8		
8	14.0	197.6	20.7		
9	16.0	217.5	19.9		
10	18.0	236.9	19.4		
11	20.0	255.8	18.9		
12	22.0	274.1	18.3		
13	24.0	292.6	18.6		
14	26.0	309.9	17.3		
15	28.0	327.0	17.1		
C 16	30.4	346.6	19.6		
FIRST CLOSED-IN					
C 1	0.0	346.6			
2	1.0	818.0	471.4	0.9	1.507
3	2.0	845.7	499.1	1.9	1.201
4	3.0	858.9	512.2	2.7	1.044
5	4.0	868.2	521.6	3.6	0.932
6	5.0	875.2	528.6	4.3	0.849
7	6.0	880.8	534.2	5.0	0.782
8	7.0	885.2	538.6	5.7	0.728
9	8.0	889.2	542.6	6.4	0.680
10	9.0	892.6	546.0	6.9	0.641
11	10.0	896.3	549.7	7.6	0.605
12	12.0	901.3	554.6	8.6	0.547
13	14.0	905.2	558.5	9.6	0.502
14	16.0	908.5	561.8	10.5	0.463
15	18.0	911.5	564.9	11.3	0.429
16	20.0	913.5	566.9	12.1	0.401
17	22.0	915.6	568.9	12.8	0.377
18	24.0	917.3	570.7	13.4	0.355
19	26.0	919.2	572.5	14.0	0.336
20	28.0	920.8	574.2	14.6	0.319
21	30.0	922.0	575.4	15.1	0.304
22	35.0	925.6	579.0	16.3	0.272
23	40.0	927.7	581.0	17.3	0.246
D 24	44.2	928.8	582.2	18.0	0.227
SECOND FLOW					
E 1	0.0	356.6			
2	3.0	378.9	22.3		
3	6.0	405.3	26.4		
4	9.0	429.4	24.1		

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
5	12.0	452.7	23.3		
6	15.0	474.1	21.4		
7	18.0	494.7	20.6		
8	21.0	515.6	20.9		
9	24.0	534.4	18.8		
10	27.0	552.7	18.2		
11	30.0	569.5	16.9		
12	33.0	585.9	16.4		
13	36.0	601.9	16.0		
14	39.0	617.3	15.4		
15	42.0	630.8	13.5		
F 16	45.0	645.5	14.6		
SECOND CLOSED-IN					
F 1	0.0	645.5			
2	1.0	852.0	206.6	0.9	1.900
3	2.0	866.9	221.5	2.0	1.585
4	3.0	875.0	229.6	2.9	1.417
5	4.0	880.7	235.2	3.8	1.300
6	5.0	885.1	239.7	4.7	1.205
7	6.0	888.9	243.4	5.5	1.134
8	7.0	892.0	246.5	6.4	1.069
9	8.0	894.5	249.1	7.2	1.019
10	9.0	896.7	251.3	8.0	0.972
11	10.0	898.3	252.9	8.8	0.932
12	12.0	901.6	256.2	10.3	0.863
13	14.0	904.1	258.6	11.8	0.806
14	16.0	906.5	261.0	13.2	0.757
15	18.0	909.0	263.6	14.5	0.715
16	20.0	910.4	264.9	15.8	0.678
17	22.0	911.7	266.2	17.0	0.646
18	24.0	913.3	267.9	18.2	0.617
19	26.0	914.8	269.3	19.3	0.592
20	28.0	916.2	270.8	20.4	0.567
21	30.0	917.2	271.8	21.5	0.546
22	35.0	919.5	274.0	23.9	0.499
23	40.0	921.5	276.1	26.1	0.460
24	45.0	923.5	278.0	28.2	0.428
25	50.0	925.2	279.8	30.1	0.399
26	55.0	926.5	281.0	31.8	0.375
G 27	60.4	927.6	282.1	33.5	0.352

REMARKS:

022

TICKET NO. 47628900

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	3745.0	
50		IMPACT REVERSING SUB.....	5.000	2.250	1.0	3746.0
1		DRILL PIPE.....	4.500	3.826	124.0	
5		CROSSOVER.....	5.750	2.750	1.0	
12		DUAL CIP VALVE.....	5.000	0.870	6.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	3881.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	3883.0
15		JAR.....	5.000	1.750	6.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	3898.0
20		FLUSH JOINT ANCHOR.....	5.000	2.370	22.0	
83		HT-500 TEMPERATURE CASE.....	5.000		1.0	3922.0
81		BLANKED-OFF RUNNING CASE.....	5.000		4.0	3924.0

TEMPERATURE

RECORDER

CHART



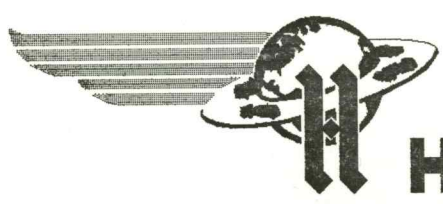
10° each circle

031

LEASE NAME	DRAVIS "JU"	WELL NO.	1	TEST NO.	5	TESTED INTERVAL	3937.0 - 3974.0	LEASE OWNER/COMPANY NAME	DONALD C. SLIMSON
LEGAL LOCATION		FIELD AREA		COUNTY	GOVE	STATE	KANSAS	IC	
SEC. - TWP. - RNG.									

CNW-NW

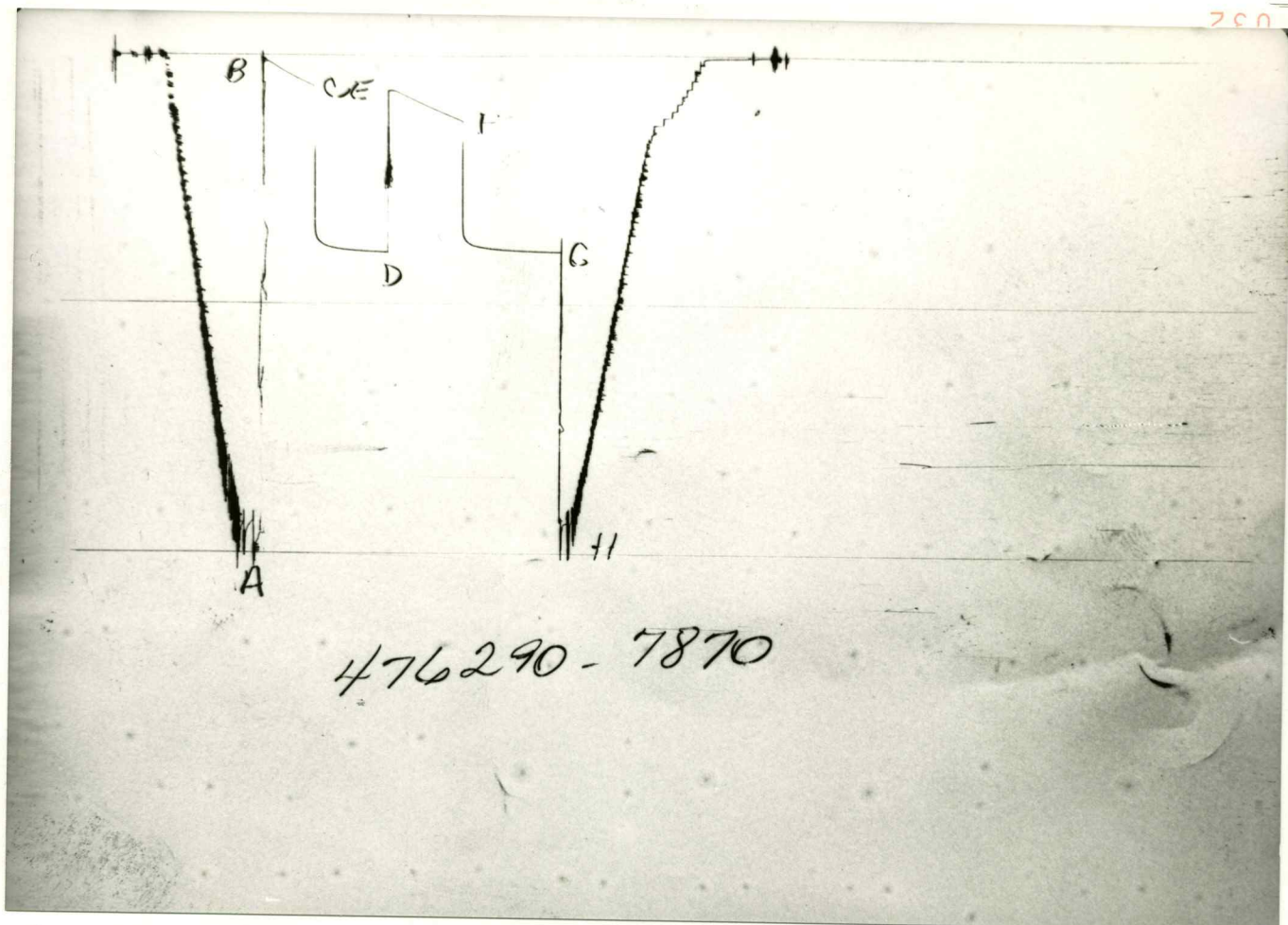
29-15-28



HALLIBURTON SERVICES

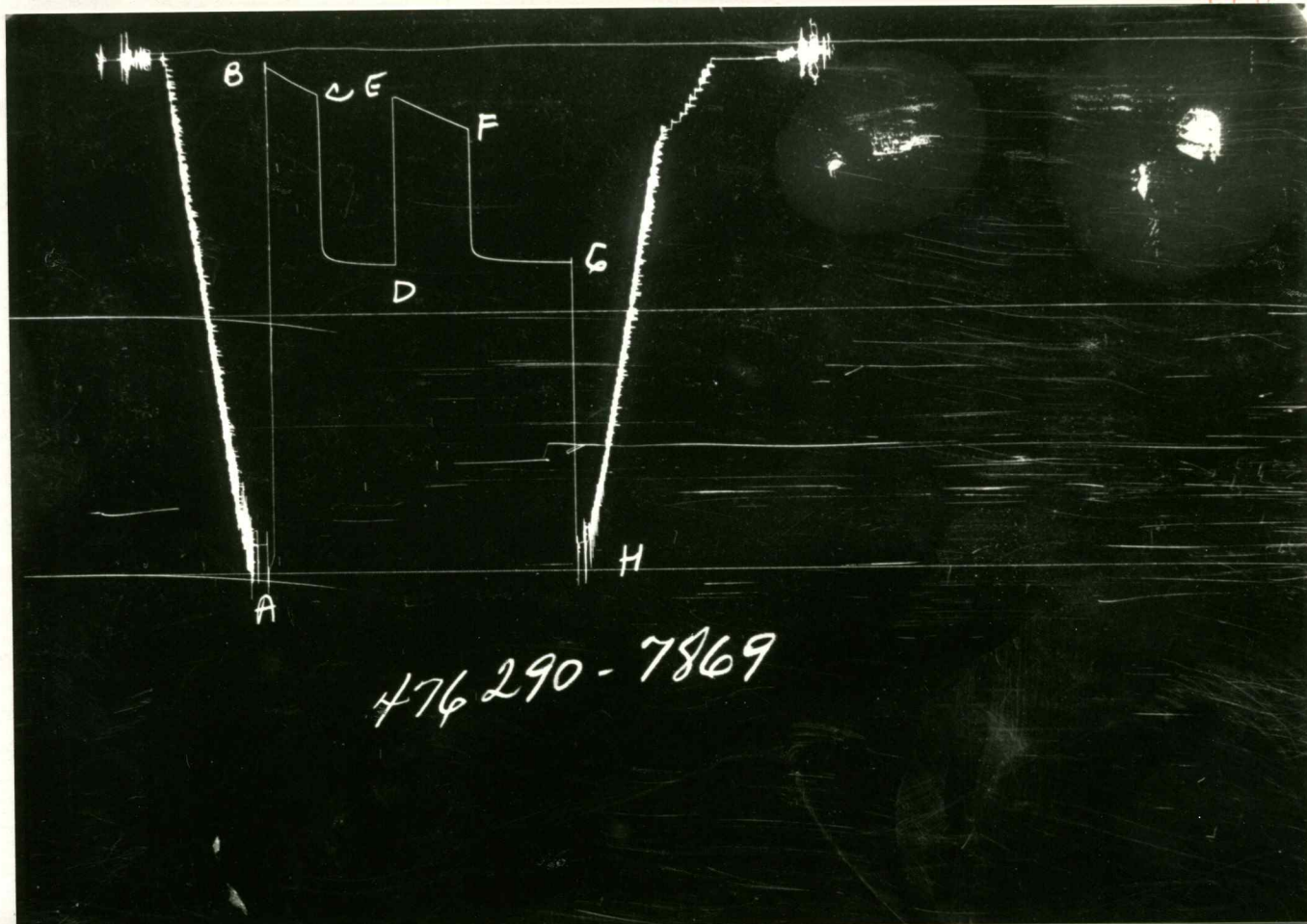
TICKET NO. 47629000
16-DEC-87
NESS CITY

FORMATION TESTING SERVICE REPORT



GAUGE NO: 7870 DEPTH: 3922.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1916	1873.8			
B	INITIAL FIRST FLOW	20	14.1			
C	FINAL FIRST FLOW	120	125.8	30.0	30.5	F
C	INITIAL FIRST CLOSED-IN	120	125.8			
D	FINAL FIRST CLOSED-IN	797	796.6	45.0	44.9	C
E	INITIAL SECOND FLOW	140	144.9			
F	FINAL SECOND FLOW	261	266.9	45.0	44.5	F
F	INITIAL SECOND CLOSED-IN	261	266.9			
G	FINAL SECOND CLOSED-IN	788	793.8	60.0	60.2	C
H	FINAL HYDROSTATIC	1877	1881.0			



GAUGE NO: 7869 DEPTH: 3971.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		1892.2			
B	INITIAL FIRST FLOW		40.1			
C	FINAL FIRST FLOW		146.4	30.0	30.5	F
C	INITIAL FIRST CLOSED-IN		146.4			
D	FINAL FIRST CLOSED-IN		811.1	45.0	44.9	C
E	INITIAL SECOND FLOW		161.6			
F	FINAL SECOND FLOW		285.1	45.0	44.5	F
F	INITIAL SECOND CLOSED-IN		285.1			
G	FINAL SECOND CLOSED-IN		808.2	60.0	60.2	C
H	FINAL HYDROSTATIC		1895.5			

EQUIPMENT & HOLE DATA

FORMATION TESTED: K.C. 220' ZONE

NET PAY (ft): _____

GROSS TESTED FOOTAGE: 37.0ALL DEPTHS MEASURED FROM: KELLY BUSHING

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 7.875ELEVATION (ft): 2496.0 KELLY BUSHINGTOTAL DEPTH (ft): 3974.0PACKER DEPTH(S) (ft): 3937

FINAL SURFACE CHOKE (in): _____

BOTTOM HOLE CHOKE (in): 0.750MUD WEIGHT (lb/gal): 9.10MUD VISCOSITY (sec): 49ESTIMATED HOLE TEMP. (°F): 120ACTUAL HOLE TEMP. (°F): 132 @ 3969.0 ftTICKET NUMBER: 47629000DATE: 12-10-87 TEST NO: 5TYPE DST: OPEN HOLEHALLIBURTON CAMP:
NESS CITYTESTER: S. NUTTINGWITNESS: R. ROBBADRILLING CONTRACTOR:
SLAWSON RIG #1FLUID PROPERTIES FOR
RECOVERED MUD & WATER

SOURCE

RESISTIVITY

CHLORIDES

SYSTEM	_____ @ _____ °F	<u>9000</u> ppm
RECOVERY	_____ @ _____ °F	<u>54000</u> ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

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): 36.4 @ 60 °F

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

GAS GRAVITY: _____

CUSHION DATA

TYPE AMOUNT WEIGHT

RECOVERED :

SEE REMARKS SECTION.

MEASURED FROM
TESTER VALVE

REMARKS :

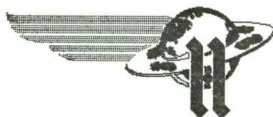
RECOVERY:

372 FEET OF GAS IN PIPE, 20 FEET OF GASSY FREE OIL, 50 FEET OF SLIGHTLY WATERY GASSY MUD CUT OIL (10% WATER, 56% OIL, 34% MUD), 186 FEET OF VERY SLIGHTLY OIL CUT MUD CUT GASSY SALTWATER (LESS THAN 1% OIL), 120 FEET OF GASSY OIL AND WATER CUT MUD (32% WATER, 10% OIL, 58% MUD), AND 248 FEET OF GASSY MUD CUT SALTWATER.

[illegible]

TICKET NO: 47629000

CLOCK NO: 28184 HOUR: 12



GAUGE NO: 7870

DEPTH: 3922.0

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	14.1			
2	2.0	21.5	7.4		
3	4.0	29.1	7.6		
4	6.0	37.4	8.2		
5	8.0	45.7	8.3		
6	10.0	54.6	8.9		
7	12.0	62.2	7.5		
8	14.0	70.9	8.7		
9	16.0	77.3	6.4		
10	18.0	85.2	7.8		
11	20.0	92.2	7.0		
12	22.0	98.8	6.6		
13	24.0	104.7	5.9		
14	26.0	111.8	7.0		
15	28.0	118.3	6.5		
16	30.0	124.9	6.6		
C 17	30.5	125.8	0.9		
FIRST CLOSED-IN					
C 1	0.0	125.8			
2	1.0	701.1	575.2	1.0	1.485
3	2.0	739.6	613.8	1.9	1.216
4	3.0	751.0	625.1	2.7	1.053
5	4.0	757.8	631.9	3.6	0.932
6	5.0	762.7	636.9	4.3	0.853
7	6.0	767.3	641.5	5.0	0.785
8	7.0	770.7	644.9	5.7	0.730
9	8.0	773.1	647.2	6.3	0.681
10	9.0	776.0	650.2	7.0	0.641
11	10.0	777.4	651.6	7.5	0.607
12	12.0	780.0	654.1	8.6	0.549
13	14.0	783.0	657.2	9.6	0.501
14	16.0	785.4	659.6	10.5	0.462
15	18.0	786.5	660.7	11.3	0.430
16	20.0	788.3	662.4	12.1	0.402
17	22.0	789.5	663.7	12.8	0.377
18	24.0	790.5	664.7	13.4	0.356
19	26.0	791.7	665.9	14.0	0.337
20	28.0	792.4	666.6	14.6	0.320
21	30.0	792.8	667.0	15.1	0.304
22	35.0	795.2	669.3	16.3	0.272
23	40.0	795.7	669.9	17.3	0.246
D 24	44.9	796.6	670.8	18.1	0.225
SECOND FLOW					
E 1	0.0	144.9			
2	3.0	142.8	-2.1		
3	6.0	149.7	6.9		

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
4	9.0	159.2	9.4		
5	12.0	168.9	9.7		
6	15.0	178.0	9.0		
7	18.0	188.0	10.1		
8	21.0	197.8	9.7		
9	24.0	206.7	8.9		
10	27.0	215.9	9.1		
11	30.0	224.7	8.8		
12	33.0	233.4	8.6		
13	36.0	241.9	8.5		
14	39.0	250.8	8.9		
15	42.0	258.1	7.2		
F 16	44.5	266.9	8.8		
SECOND CLOSED-IN					
F 1	0.0	266.9			
2	1.0	734.0	467.1	1.0	1.873
3	2.0	747.9	480.9	2.0	1.581
4	3.0	755.4	488.4	2.9	1.411
5	4.0	761.4	494.5	3.8	1.294
6	5.0	764.6	497.6	4.7	1.204
7	6.0	768.9	502.0	5.5	1.133
8	7.0	770.8	503.8	6.4	1.068
9	8.0	772.3	505.3	7.3	1.014
10	9.0	774.0	507.1	8.0	0.971
11	10.0	774.8	507.9	8.8	0.930
12	12.0	777.1	510.2	10.4	0.859
13	14.0	779.4	512.4	11.8	0.803
14	16.0	780.4	513.5	13.2	0.755
15	18.0	782.4	515.5	14.5	0.713
16	20.0	783.8	516.9	15.8	0.677
17	22.0	785.0	518.1	17.0	0.644
18	24.0	786.2	519.2	18.2	0.614
19	26.0	787.4	520.4	19.3	0.590
20	28.0	787.9	521.0	20.4	0.565
21	30.0	788.4	521.5	21.4	0.544
22	35.0	790.0	523.1	23.9	0.497
23	40.0	791.6	524.7	26.1	0.458
24	45.0	792.9	526.0	28.1	0.426
25	50.0	793.2	526.3	30.0	0.398
26	55.0	794.0	527.0	31.7	0.373
G 27	60.2	793.8	526.8	33.4	0.351

REMARKS:

TICKET NO: 47629000

CLOCK NO: 26733 HOUR: 12



GAUGE NO: 7869

DEPTH: 3971.0

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	40.1			
2	2.0	43.7	3.6		
3	4.0	50.8	7.1		
4	6.0	59.1	8.3		
5	8.0	67.0	7.8		
6	10.0	75.5	8.5		
7	12.0	83.9	8.4		
8	14.0	91.5	7.6		
9	16.0	98.8	7.3		
10	18.0	105.8	7.0		
11	20.0	112.5	6.6		
12	22.0	120.3	7.8		
13	24.0	126.4	6.2		
14	26.0	132.9	6.4		
15	28.0	139.1	6.3		
16	30.0	144.6	5.5		
C 17	30.5	146.4	1.8		
FIRST CLOSED-IN					
C 1	0.0	146.4			
2	1.0	605.0	458.7	1.0	1.491
3	2.0	754.1	607.7	1.9	1.209
4	3.0	769.3	622.9	2.7	1.046
5	4.0	776.0	629.6	3.6	0.933
6	5.0	779.9	633.5	4.3	0.850
7	6.0	784.5	638.1	5.0	0.784
8	7.0	787.8	641.4	5.7	0.727
9	8.0	789.8	643.5	6.3	0.681
10	9.0	792.0	645.6	6.9	0.643
11	10.0	793.6	647.2	7.5	0.608
12	12.0	796.2	649.9	8.6	0.549
13	14.0	798.1	651.7	9.6	0.502
14	16.0	800.3	654.0	10.5	0.463
15	18.0	801.9	655.5	11.3	0.430
16	20.0	803.4	657.1	12.1	0.401
17	22.0	804.8	658.4	12.8	0.377
18	24.0	805.5	659.1	13.4	0.356
19	26.0	806.6	660.2	14.0	0.337
20	28.0	807.4	661.1	14.6	0.320
21	30.0	808.2	661.8	15.1	0.304
22	35.0	809.5	663.1	16.3	0.272
23	40.0	810.5	664.2	17.3	0.246
D 24	44.9	811.1	664.8	18.1	0.225
SECOND FLOW					
E 1	0.0	161.6			
2	3.0	161.5	-0.1		
3	6.0	171.0	9.5		

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
4	9.0	181.1	10.1		
5	12.0	191.0	9.9		
6	15.0	199.6	8.6		
7	18.0	209.1	9.6		
8	21.0	218.1	9.0		
9	24.0	227.1	9.0		
10	27.0	236.1	9.0		
11	30.0	245.3	9.2		
12	33.0	253.3	8.0		
13	36.0	261.5	8.2		
14	39.0	270.2	8.7		
15	42.0	278.5	8.3		
F 16	44.5	285.1	6.5		
SECOND CLOSED-IN					
F 1	0.0	285.1			
2	1.0	743.8	458.8	1.0	1.867
3	2.0	763.2	478.1	1.9	1.590
4	3.0	771.1	486.0	2.9	1.414
5	4.0	776.4	491.3	3.8	1.293
6	5.0	780.0	494.9	4.7	1.200
7	6.0	782.9	497.8	5.6	1.128
8	7.0	784.8	499.7	6.4	1.068
9	8.0	787.3	502.2	7.2	1.018
10	9.0	789.0	503.9	8.0	0.971
11	10.0	790.3	505.2	8.8	0.928
12	12.0	791.9	506.9	10.4	0.859
13	14.0	794.0	508.9	11.8	0.802
14	16.0	796.2	511.1	13.2	0.754
15	18.0	797.5	512.4	14.5	0.713
16	20.0	798.5	513.4	15.8	0.677
17	22.0	799.8	514.7	17.0	0.644
18	24.0	800.8	515.7	18.2	0.616
19	26.0	801.8	516.7	19.3	0.589
20	28.0	802.4	517.3	20.4	0.565
21	30.0	803.2	518.2	21.4	0.544
22	35.0	804.5	519.4	23.9	0.497
23	40.0	806.2	521.1	26.1	0.458
24	45.0	806.7	521.7	28.1	0.426
25	50.0	807.8	522.7	30.0	0.398
26	55.0	808.6	523.5	31.7	0.373
G 27	60.2	808.2	523.1	33.4	0.351

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	3783.0	
50		IMPACT REVERSING SUB.....	5.000	2.250	1.0	3784.0
1		DRILL PIPE.....	4.500	3.826	124.0	
5		CROSSOVER.....	5.750	2.750	1.0	
12		DUAL CIP VALVE.....	5.000	0.870	6.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	3920.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	3922.0
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	3937.0
20		FLUSH JOINT ANCHOR.....	5.000	2.370	30.0	
83		HT-500 TEMPERATURE CASE.....	5.000		1.0	3969.0
81		BLANKED-OFF RUNNING CASE.....	5.000		4.0	3971.0

TEMPERATURE

RECORDER

CHART

10° each circle

