

HARROUN		1	1	2780.0 - 2801.0	HALLWOOD ENERGY CORPORATION	
LEASE NAME		WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME	
LEGAL LOCATION SEC. - TWP. - RNG.	7-24S-29E				COUNTY	EDDY
						STATE NEW MEXICO 9M

HALLWOOD ENERGY CORPORATION

LEASE : HARROUN

WELL NO. : 1

TEST NO. : 1

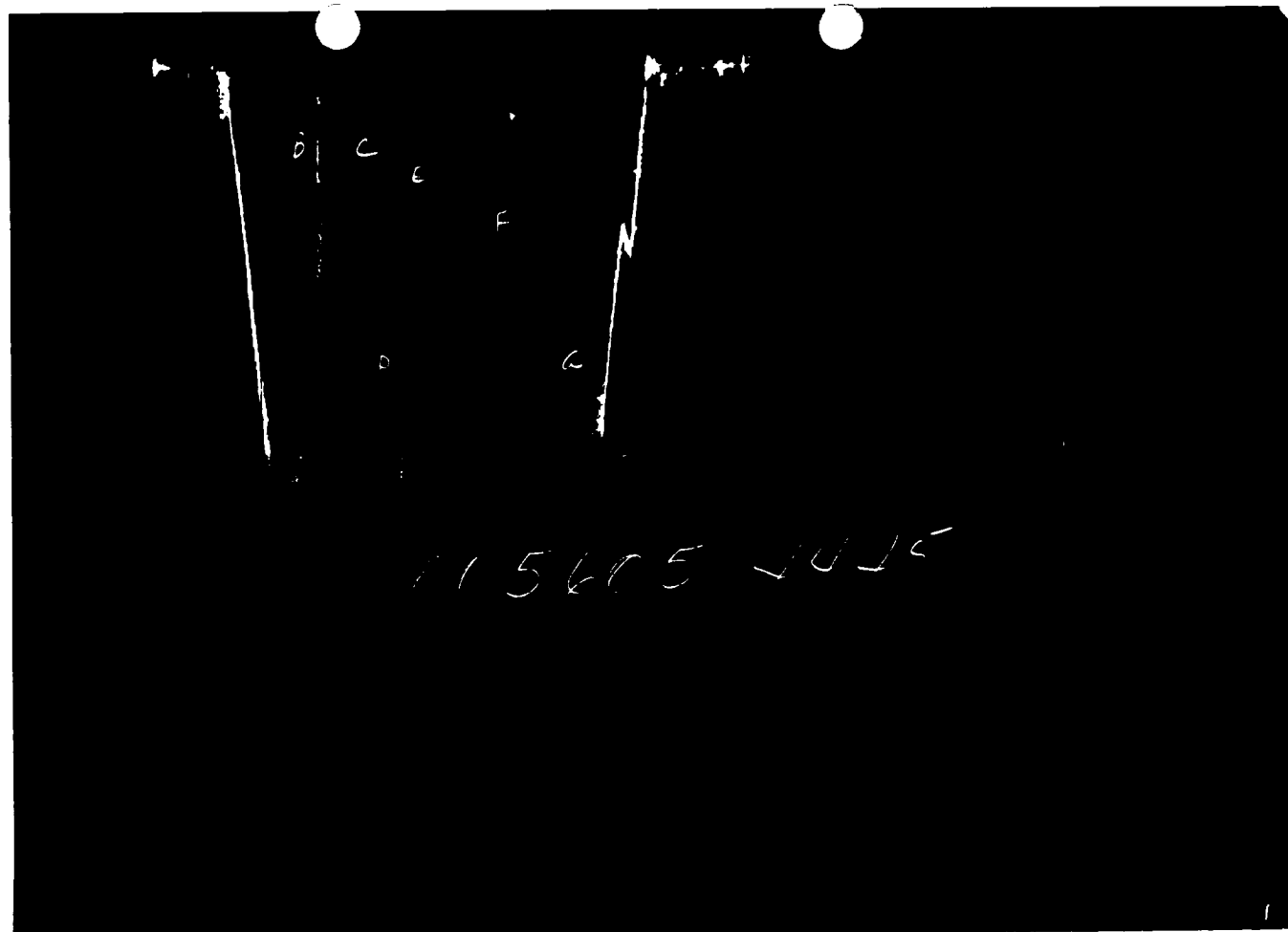
TICKET NO. 00560500

08-MAY-91

HOBBS

GAUGE NO: 4450 DEPTH: 2761.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1463	1446.1			
B	INITIAL FIRST FLOW	276	275.6	31.0	29.4	F
C	FINAL FIRST FLOW	315	322.9			
C	INITIAL FIRST CLOSED-IN	315	322.9	69.0	56.9	C
D	FINAL FIRST CLOSED-IN	1027	1047.2			
E	INITIAL SECOND FLOW	413	420.8	90.0	89.4	F
F	FINAL SECOND FLOW	532	550.3			
F	INITIAL SECOND CLOSED-IN	532	550.3	120.0	120.0	C
G	FINAL SECOND CLOSED-IN	1048	1044.9			
H	FINAL HYDROSTATIC	1463	1379.7			



GAUGE NO: 4445 DEPTH: 2795.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1438	1442.9			
B	INITIAL FIRST FLOW	283	291.7	31.0	29.4	F
C	FINAL FIRST FLOW	340	339.6			
C	INITIAL FIRST CLOSED-IN	340	339.6	69.0	56.9	C
D	FINAL FIRST CLOSED-IN	1040	1037.9			
E	INITIAL SECOND FLOW	340	436.0	90.0	89.4	F
F	FINAL SECOND FLOW	547	562.9			
F	INITIAL SECOND CLOSED-IN	547	562.9	120.0	120.0	C
G	FINAL SECOND CLOSED-IN	1040	1039.6			
H	FINAL HYDROSTATIC	1400	1394.0			

115615-3407

GAUGE NO: 3407 DEPTH: 3200.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1690	1692.2			
B	INITIAL FIRST FLOW			31.0		F
C	FINAL FIRST FLOW					
C	INITIAL FIRST CLOSED-IN			69.0		C
D	FINAL FIRST CLOSED-IN					
E	INITIAL SECOND FLOW			90.0		F
F	FINAL SECOND FLOW					
F	INITIAL SECOND CLOSED-IN			120.0		C
G	FINAL SECOND CLOSED-IN					
H	FINAL HYDROSTATIC	1690	1658.1			

EQUIPMENT & HOLE DATA

FORMATION TESTED: DELAWARE
 NET PAY (ft): 12.0
 GROSS TESTED FOOTAGE: 21.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.900
 ELEVATION (ft): 2946.0
 TOTAL DEPTH (ft): 3203.0
 PACKER DEPTH(S) (ft): 2775, 2780, 2801, 2806
 FINAL SURFACE CHOKE (in): _____
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 10.30
 MUD VISCOSITY (sec): 32
 ESTIMATED HOLE TEMP. (°F): _____
 ACTUAL HOLE TEMP. (°F): 90 @ 3199.0 ft

TICKET NUMBER: 00560500DATE: 5-2-91 TEST NO: 1TYPE DST: ON BTM STRADDLEFIELD CAMP:
HOBBSTESTER: HERB SMITHWITNESS: STAN MCKEEDRILLING CONTRACTOR:
TINSLEY #5**FLUID PROPERTIES FOR
RECOVERED MUD & WATER**

SOURCE	RESISTIVITY	CHLORIDES
PIT	<u>0.050 @ 70 °F</u>	<u>195000 ppm</u>
TOP RECOVERY	<u>0.050 @ 70 °F</u>	<u>195000 ppm</u>
TOOL TOP	<u>0.050 @ 70 °F</u>	<u>195000 ppm</u>
SAMPLER	<u>0.050 @ 70 °F</u>	<u>195000 ppm</u>
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm

SAMPLER DATA

Psig AT SURFACE: 40.0
 cu.ft. OF GAS: 0.130
 cc OF OIL: _____
 cc OF WATER: _____
 cc OF MUD: 1500.0
 TOTAL LIQUID cc: 1500.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F
 GAS/OIL RATIO (cu.ft. per bbl): _____
 GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED :

1274 FEET TOTAL RECOVERY (DRILLING FLUID)

MEASURED FROM
TESTER VALVE**REMARKS :**

TESTER REPORTED BACKSIDE TAKING FLUID DURING TEST.

CHARTS INDICATE POSSIBLE LEAKAGE OF THE TUBULAR GOODS ABOVE THE TOOLS.
 CHART FROM BOTTOM RECORDER # 3407 INDICATES BOTTOM PACKER SEAT WAS
 SUCCESSFUL; I.E. SUCCESSFUL STRADDLE. THE TOOLS WERE MOMENTARILY BYPASSED
 AT THE END OF THE FIRST CLOSED IN, BUT WAS NOT DETRIMENTAL TO THE TEST.

TICKET NO: 00560500

CLOCK NO: 5937 HOUR: 24

GAUGE NO: 4450

DEPTH: 2761.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta P}{t + \Delta P}$	$\log \frac{t + \Delta P}{\Delta P}$
FIRST FLOW					
B 1	0.0	275.6			
2	3.0	277.2	1.6		
3	6.0	282.6	5.4		
4	9.0	287.3	4.6		
5	12.0	292.1	4.8		
6	15.0	297.5	5.4		
7	18.0	303.5	5.9		
8	21.0	308.2	4.7		
9	24.0	313.8	5.6		
10	27.0	319.0	5.1		
C 11	29.4	322.9	3.9		
FIRST CLOSED-IN					
C 1	0.0	322.9			
2	1.0	858.9	536.0	1.0	1.476
3	2.0	812.6	489.7	1.9	1.196
4	3.1	836.2	513.3	2.8	1.016
5	4.0	861.8	538.9	3.5	0.924
6	5.0	880.6	557.7	4.2	0.841
7	6.0	897.1	574.2	4.9	0.774
8	7.0	912.6	589.7	5.6	0.718
9	8.0	925.5	602.6	6.3	0.671
10	9.0	935.2	612.3	6.9	0.631
11	10.0	945.0	622.1	7.5	0.595
12	12.0	959.9	637.0	8.5	0.537
13	14.0	972.0	649.1	9.5	0.491
14	16.0	980.1	657.2	10.4	0.453
15	18.0	988.2	665.3	11.2	0.421
16	20.0	995.6	672.7	11.9	0.392
17	22.0	1001.2	678.3	12.6	0.369
18	24.0	1006.6	683.7	13.2	0.348
19	26.0	1010.8	687.9	13.8	0.328
20	28.0	1014.5	691.6	14.3	0.312
21	30.0	1018.7	695.8	14.9	0.296
22	35.0	1026.5	703.5	16.0	0.265
23	40.0	1033.2	710.2	16.9	0.240
24	45.0	1037.7	714.8	17.8	0.218
25	50.0	1042.2	719.3	18.5	0.201
26	55.0	1045.8	722.8	19.2	0.186
D 27	56.9	1047.2	724.3	19.4	0.181
SECOND FLOW					
E 1	0.0	420.8			
2	5.0	424.1	3.4		
3	10.0	431.3	7.1		
4	15.0	437.8	6.5		
5	20.0	444.9	7.1		
6	25.0	452.2	7.3		

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta P}{t + \Delta P}$	$\log \frac{t + \Delta P}{\Delta P}$
SECOND FLOW - CONTINUED					
7	30.0	459.7	7.5		
8	35.0	467.8	8.1		
9	40.0	476.3	8.5		
10	45.0	484.4	8.1		
11	50.0	491.0	6.5		
12	55.0	498.4	7.4		
13	60.0	505.8	7.4		
14	65.0	513.7	7.9		
15	70.0	520.3	6.6		
16	75.0	528.0	7.6		
17	80.0	535.9	7.9		
18	85.0	542.9	7.0		
F 19	89.4	550.3	7.4		
SECOND CLOSED-IN					
F 1	0.0	550.3			
2	1.0	880.7	330.4	1.0	2.071
3	2.0	850.9	300.6	2.0	1.774
4	3.0	851.3	301.0	2.9	1.610
5	4.0	860.0	309.7	3.9	1.483
6	5.0	872.3	321.9	4.8	1.392
7	6.0	885.2	334.8	5.7	1.321
8	7.0	896.2	345.9	6.6	1.253
9	8.0	903.4	353.1	7.5	1.199
10	9.0	910.8	360.5	8.4	1.151
11	10.0	917.9	367.6	9.2	1.109
12	12.0	928.8	378.5	10.9	1.038
13	14.0	938.6	388.3	12.6	0.976
14	16.0	947.5	397.2	14.1	0.925
15	18.0	955.0	404.7	15.7	0.880
16	20.0	961.0	410.7	17.1	0.842
17	22.0	966.1	415.8	18.6	0.806
18	24.0	971.4	421.1	20.0	0.775
19	26.0	976.7	426.4	21.4	0.745
20	28.0	979.9	429.6	22.7	0.719
21	30.0	983.7	433.4	24.0	0.695
22	35.0	992.2	441.9	27.0	0.643
23	40.0	999.4	449.1	29.9	0.599
24	45.0	1005.4	455.1	32.6	0.561
25	50.0	1010.6	460.3	35.2	0.529
26	55.0	1015.1	464.8	37.6	0.500
27	60.0	1019.4	469.0	39.9	0.474
28	70.0	1024.9	474.6	44.1	0.431
29	80.0	1031.4	481.1	47.8	0.395
30	90.0	1035.2	484.9	51.2	0.365
31	100.0	1039.5	489.2	54.3	0.340
32	110.0	1043.3	493.0	57.1	0.318
G 33	120.0	1044.9	494.5	59.7	0.299

REMARKS:

TICKET NO: 00560500

CLOCK NO: 16511 HOUR: 24

GAUGE NO: 4445

DEPTH: 2795.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta P}{t + \Delta P}$	$\log \frac{t + \Delta P}{\Delta P}$	REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta P}{t + \Delta P}$	$\log \frac{t + \Delta P}{\Delta P}$	
FIRST FLOW						SECOND FLOW - CONTINUED						
B	1	0.0	291.7			7	30.1	473.0	6.6			
	2	3.0	294.6	2.8		8	35.0	481.5	8.5			
	3	6.0	300.4	5.9		9	40.0	489.6	8.0			
	4	9.0	305.4	5.0		10	45.0	496.7	7.1			
	5	12.0	310.2	4.7		11	50.0	504.1	7.4			
	6	15.0	315.3	5.1		12	55.0	511.2	7.1			
	7	18.0	321.0	5.8		13	60.0	518.2	7.1			
	8	21.0	326.6	5.6		14	65.0	525.6	7.4			
	9	24.0	331.4	4.8		15	70.0	532.3	6.7			
	10	27.0	336.1	4.6		16	75.0	539.3	6.9			
C	11	29.4	339.6	3.5		17	80.0	547.5	8.2			
						18	85.0	555.4	7.9			
						F	19	89.4	562.9	7.5		
FIRST CLOSED-IN						SECOND CLOSED-IN						
C	1	0.0	339.6			F	1	0.0	562.9			
	2	1.0	822.8	483.2	1.0	1.465	2	1.1	878.7	315.8	1.1	2.048
	3	2.0	822.8	483.2	1.9	1.190	3	2.0	860.2	297.3	2.0	1.781
	4	3.0	846.1	506.5	2.7	1.039	4	3.0	859.9	297.0	2.9	1.611
	5	4.0	868.9	529.3	3.5	0.919	5	4.0	863.2	300.3	3.8	1.490
	6	5.0	888.3	548.8	4.3	0.837	6	5.0	872.4	309.5	4.8	1.395
	7	6.0	901.3	561.7	5.0	0.773	7	6.0	884.0	321.1	5.7	1.318
	8	7.0	912.8	573.2	5.6	0.717	8	7.0	893.4	330.5	6.6	1.254
	9	7.9	923.2	583.6	6.3	0.673	9	8.0	900.2	337.3	7.5	1.200
	10	9.0	931.8	592.2	6.9	0.631	10	9.0	908.1	345.2	8.4	1.152
	11	10.0	939.4	599.8	7.5	0.596	11	10.0	913.7	350.7	9.2	1.109
	12	12.0	953.0	613.5	8.5	0.539	12	12.0	925.0	362.1	10.9	1.037
	13	14.0	963.1	623.5	9.5	0.492	13	14.0	933.6	370.7	12.5	0.976
	14	16.0	972.8	633.3	10.4	0.453	14	16.0	941.9	379.0	14.1	0.926
	15	18.0	981.0	641.4	11.2	0.420	15	18.0	948.1	385.1	15.6	0.881
	16	20.0	986.9	647.4	11.9	0.393	16	20.0	955.0	392.1	17.1	0.841
	17	22.0	992.2	652.7	12.6	0.369	17	22.0	960.0	397.1	18.6	0.806
	18	24.0	997.5	658.0	13.2	0.347	18	24.0	965.7	402.8	20.0	0.775
	19	26.0	1002.2	662.6	13.8	0.329	19	26.0	969.6	406.7	21.3	0.746
	20	28.0	1006.4	666.8	14.3	0.312	20	28.0	974.6	411.7	22.7	0.719
	21	30.0	1009.5	669.9	14.9	0.297	21	30.0	978.4	415.5	23.9	0.696
	22	35.0	1017.2	677.6	16.0	0.265	22	35.0	986.7	423.8	27.0	0.643
	23	40.0	1022.7	683.2	17.0	0.239	23	40.0	993.1	430.2	29.9	0.599
	24	45.0	1027.5	687.9	17.8	0.218	24	45.0	999.0	436.1	32.7	0.561
	25	50.0	1032.2	692.7	18.5	0.201	25	50.0	1003.6	440.7	35.2	0.528
	26	55.0	1036.1	696.6	19.2	0.186	26	55.0	1008.2	445.3	37.6	0.499
D	27	56.9	1037.9	698.4	19.4	0.181	27	60.0	1012.9	450.0	39.9	0.474
SECOND FLOW						28	70.0	1019.8	456.9	44.1	0.431	
E	1	0.0	436.0			29	80.0	1025.3	462.4	47.8	0.395	
	2	5.0	438.5	2.5		30	90.0	1029.6	466.7	51.2	0.366	
	3	10.0	446.4	7.9		31	100.0	1033.3	470.4	54.3	0.340	
	4	15.0	453.3	6.8		32	110.0	1037.2	474.2	57.1	0.318	
	5	20.0	459.9	6.6		G	33	120.0	1039.6	476.7	59.7	0.299
	6	25.0	466.4	6.5								

REMARKS:

TICKET NO. 00560500

		O.D.	I.D.	LENGTH	DEPTH
1		4.500	3.825	2498.0	
3		6.250	2.250	151.0	
50		6.000	2.875	1.0	2650.0
3		6.250	2.250	90.0	
5		5.875	2.250	1.0	
62		5.000	0.750	9.0	2749.0
14		5.000	0.870	5.0	
14		5.000	0.870	5.0	
80		5.000	2.250	4.0	2761.0
15		5.000	1.750	5.0	
16		5.000	1.000	3.0	
5		5.000	3.000	1.0	
70		7.000	1.530	5.0	2775.0
70		7.000	1.530	5.0	2780.0
20				10.0	
5		5.000	3.500	1.0	
80		5.000	2.250	4.0	2795.0
70		7.000	1.530	5.0	2801.0
70		7.000	1.530	5.0	2806.0
5		5.750	2.500	1.0	
19		5.750	2.250	4.0	
5		6.000	2.750	1.0	
3		6.250	2.250	364.0	
5		5.875	3.000	1.0	
20		5.750	3.500	20.0	
81		5.750		4.0	3200.0
TOTAL DEPTH					3203.0
EQUIPMENT DATA					