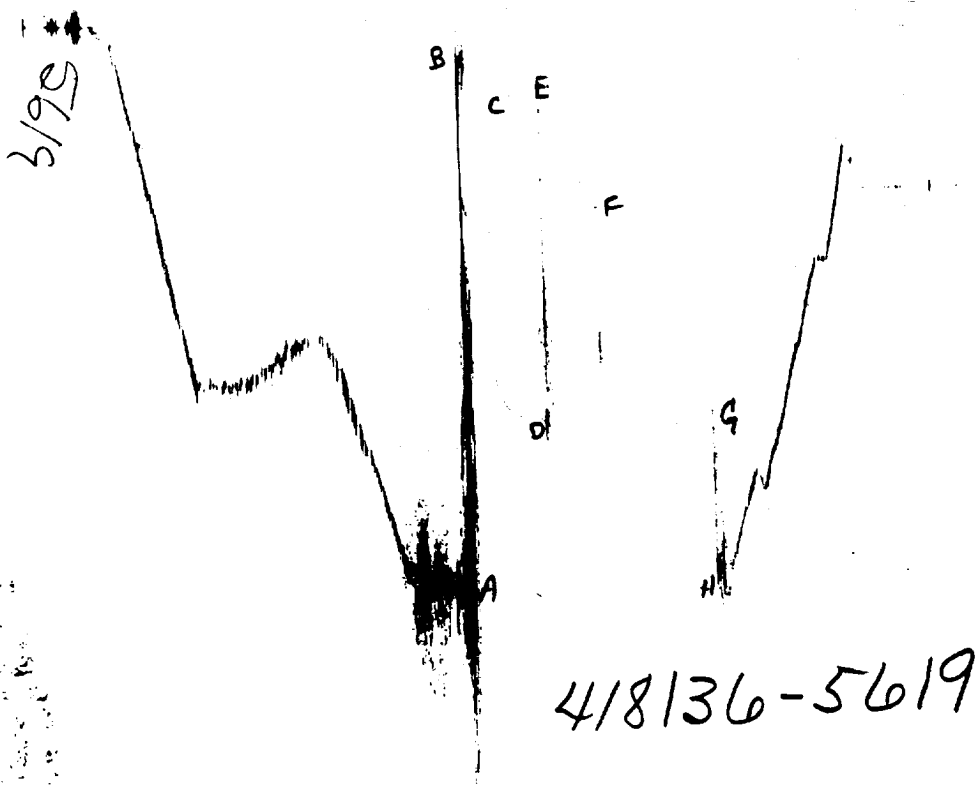


STATE	WES	1	2	9845.1 - 9878.1	POGO PRODUCING COMPANY
LEASE NAME		WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
LEGAL LOCATION					
SEC. - TWP. - RNG.	14-20S-33E	FIELD AREA	SRUNDERS POOL	COUNTY	LEA
					STATE NEW MEXICO
					BC



TICKET NO. 41813600
 27-JUL-83
 HOBBS

FORMATION TESTING SERVICE REPORT



GAUGE NO: 5619 DEPTH: 9827.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	4536	4533.3			
B	INITIAL FIRST FLOW	393	384.9	31.0	30.0	F
C	FINAL FIRST FLOW	698	710.7			
C	INITIAL FIRST CLOSED-IN	698	710.7	59.0	59.1	C
D	FINAL FIRST CLOSED-IN	3247	3263.7			
E	INITIAL SECOND FLOW	764	792.8	62.0	61.3	F
F	FINAL SECOND FLOW	1522	1534.3			
F	INITIAL SECOND CLOSED-IN	1522	1534.3	124.0	125.6	C
G	FINAL SECOND CLOSED-IN	3225	3233.5			
H	FINAL HYDROSTATIC	4536	4515.9			

5618

GAUGE NO: 5618 DEPTH: 9875.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	4512	4557.7			
B	INITIAL FIRST FLOW	520	541.4	31.0	30.0	F
C	FINAL FIRST FLOW	737	762.3			
C	INITIAL FIRST CLOSED-IN	737	762.3	59.0	59.1	C
D	FINAL FIRST CLOSED-IN	3250	3276.0			
E	INITIAL SECOND FLOW	737	770.7	62.0	61.3	F
F	FINAL SECOND FLOW	1511	1546.9			
F	INITIAL SECOND CLOSED-IN	1511	1546.9	124.0	125.6	C
G	FINAL SECOND CLOSED-IN	3229	3243.9			
H	FINAL HYDROSTATIC	4512	4540.8			

EQUIPMENT & HOLE DATA

FORMATION TESTED: BOE "B"

NET PAY (ft): 10.0

GROSS TESTED FOOTAGE: 33.0

ALL DEPTHS MEASURED FROM: KB

CASING PERFS. (ft):

HOLE OR CASING SIZE (in): 7.875

ELEVATION (ft): 0

TOTAL DEPTH (ft): 9878.0

PACKER DEPTH(S) (ft): 9840. 9845

FINAL SURFACE CHOKE (in): 0.250

BOTTOM HOLE CHOKE (in): 0.750

MUD WEIGHT (lb/gal): 9.00

MUD VISCOSITY (sec): 40

ESTIMATED HOLE TEMP. (°F):

ACTUAL HOLE TEMP. (°F): 144 @ 9874.0 ft

TICKET NUMBER: 41813600

DATE: 7-23-83 TEST NO: 2

TYPE DST: OPEN HOLE

HALLIBURTON CAMP: HOBBS

TESTER: URSO

WITNESS: BARNES

DRILLING CONTRACTOR: STERLING DRILLING COMPANY #21

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
SAMPLER	0.071 @ 70 °F	67000 ppm
TOP OF RECOVERY	0.460 @ 70 °F	12000 ppm
CHANGE #1	0.091 @ 70 °F	54000 ppm
TOP OF TOOLS	0.094 @ 70 °F	53500 ppm
PIT	0.680 @ 70 °F	6000 ppm
	@ °F	ppm

SAMPLER DATA

Pstg AT SURFACE: 675

cu.ft. OF GAS: 0.18

cc OF OIL: 100

cc OF WATER: 2250

cc OF MUD: 0

TOTAL LIQUID cc: 2350

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): 40.3 @ 60°F

GAS/OIL RATIO (cu.ft. per bbl): 282

GAS GRAVITY:

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

3400' OF GAS CUT OIL, MUD AND FORMATION WATER

MEASURED FROM
TESTER VALVE

REMARKS:

THERE WAS A TRACE OF MUD IN THE SAMPLER.

[illegible]

TICKET NO: 41813600

CLOCK NO: 16511 HOUR: 24



GAUGE NO: 5619

DEPTH: 9827.0

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	384.9			
2	5.0	398.0	13.1		
3	10.0	414.2	16.2		
4	15.0	472.5	58.3		
5	20.0	550.0	77.5		
6	25.0	631.4	81.4		
C 7	30.0	710.7	79.3		
FIRST CLOSED-IN					
C 1	0.0	710.7			
2	1.0	1922.0	1211.3	1.0	1.475
3	2.0	2848.7	2138.0	1.8	1.212
4	3.0	2922.4	2211.7	2.7	1.045
5	4.0	2961.0	2250.3	3.5	0.929
6	5.0	2994.4	2283.7	4.3	0.842
7	6.0	3018.1	2307.4	5.0	0.776
8	7.0	3040.4	2329.7	5.7	0.723
9	8.0	3058.9	2348.2	6.3	0.676
10	9.0	3075.3	2364.6	6.9	0.637
11	10.0	3092.3	2381.6	7.5	0.601
12	12.0	3117.8	2407.2	8.6	0.543
13	14.0	3141.7	2431.0	9.5	0.497
14	16.0	3160.4	2449.7	10.4	0.459
15	18.0	3176.8	2466.1	11.2	0.426
16	20.0	3189.2	2478.5	12.0	0.397
17	22.0	3202.6	2491.9	12.7	0.374
18	24.0	3212.3	2501.6	13.3	0.352
19	26.0	3221.5	2510.8	13.9	0.333
20	28.0	3228.6	2517.9	14.5	0.316
21	30.0	3234.4	2523.7	15.0	0.301
22	35.0	3244.1	2533.4	16.2	0.269
23	40.0	3252.3	2541.6	17.1	0.243
24	45.0	3257.4	2546.7	18.0	0.222
25	50.0	3261.1	2550.4	18.7	0.204
26	55.0	3263.9	2553.2	19.4	0.189
D 27	59.1	3263.7	2553.0	19.9	0.178
SECOND FLOW					
E 1	0.0	792.8			
2	8.0	843.7	50.9		
3	16.0	959.0	115.3		
4	24.0	1079.0	120.1		
5	32.0	1186.2	107.1		
6	40.0	1286.0	99.8		
7	48.0	1385.1	99.1		
8	56.0	1475.8	90.7		
F 9	61.3	1534.3	58.5		

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN					
F 1	0.0	1534.3			
2	1.0	2565.1	1030.7	1.0	1.945
3	2.0	3002.2	1467.8	2.0	1.668
4	3.0	3006.9	1472.5	2.9	1.494
5	4.0	3008.4	1474.0	3.8	1.382
6	5.0	3010.1	1475.8	4.8	1.282
7	6.0	3011.0	1476.6	5.6	1.209
8	7.0	3021.9	1487.6	6.5	1.145
9	8.0	3036.6	1502.2	7.4	1.093
10	9.0	3049.5	1515.1	8.2	1.046
11	10.0	3058.9	1524.6	9.0	1.007
12	12.0	3080.2	1545.9	10.6	0.935
13	14.0	3097.6	1563.3	12.1	0.877
14	16.0	3113.1	1578.8	13.6	0.827
15	18.0	3126.5	1592.1	15.1	0.783
16	20.0	3136.1	1601.8	16.4	0.746
17	22.0	3146.7	1612.3	17.7	0.713
18	24.0	3155.7	1621.4	19.0	0.682
19	26.0	3163.4	1629.1	20.2	0.655
20	28.0	3169.9	1635.6	21.4	0.629
21	30.0	3176.3	1642.0	22.6	0.607
22	35.0	3185.6	1651.3	25.3	0.558
23	40.0	3195.9	1661.6	27.8	0.516
24	45.0	3202.8	1668.5	30.2	0.481
25	50.0	3206.9	1672.5	32.3	0.451
26	55.0	3209.9	1675.6	34.3	0.425
27	60.0	3213.3	1679.0	36.2	0.402
28	70.0	3219.1	1684.8	39.6	0.363
29	80.0	3222.6	1688.2	42.7	0.331
30	90.0	3225.6	1691.3	45.3	0.304
31	100.0	3227.7	1693.4	47.7	0.282
32	110.0	3229.5	1695.1	49.9	0.263
33	120.0	3231.8	1697.5	51.9	0.246
G 34	125.6	3233.5	1699.2	52.9	0.237

LEGEND:

1 STAIR-STEP

REMARKS:

TICKET NO: 41813600

CLOCK NO: 28339 HOUR: 24



GAUGE NO: 5618

DEPTH: 9875.0

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	541.4			
2	5.0	542.5	1.1		
3	10.0	521.5	-21.0		
4	15.0	551.8	30.4		
5	20.0	617.8	65.9		
6	25.0	688.7	70.9		
C 7	30.0	762.3	73.5		
FIRST CLOSED-IN					
C 1	0.0	762.3			
2	1.0	2389.7	1627.4	1.0	1.482
3	2.0	2865.8	2103.6	1.9	1.201
4	3.0	2927.5	2165.3	2.7	1.040
5	4.0	2968.6	2206.3	3.5	0.929
6	5.0	2999.1	2236.9	4.3	0.848
7	6.0	3025.7	2263.4	5.0	0.777
8	7.0	3047.5	2285.3	5.7	0.723
9	8.0	3065.3	2303.1	6.3	0.678
10	9.0	3084.2	2321.9	6.9	0.638
11	10.0	3098.5	2336.2	7.5	0.601
12	12.0	3125.9	2363.7	8.6	0.545
13	14.0	3148.6	2386.4	9.5	0.498
14	16.0	3167.9	2405.6	10.4	0.458
15	18.0	3184.6	2422.3	11.3	0.426
16	20.0	3198.5	2436.2	12.0	0.398
17	22.0	3210.3	2448.0	12.7	0.373
18	24.0	3220.6	2458.3	13.3	0.352
19	26.0	3229.1	2466.9	13.9	0.333
20	28.0	3237.9	2475.6	14.5	0.316
21	30.0	3243.5	2481.2	15.0	0.301
22	35.0	3255.2	2493.0	16.2	0.269
23	40.0	3263.0	2500.7	17.1	0.243
24	45.0	3268.7	2506.5	18.0	0.222
25	50.0	3272.6	2510.3	18.7	0.204
26	55.0	3274.7	2512.5	19.4	0.189
D 27	59.1	3276.0	2513.8	19.9	0.178
SECOND FLOW					
E 1	0.0	770.7			
2	8.0	850.1	79.4		
3	16.0	976.4	126.2		
4	24.0	1091.6	115.3		
5	32.0	1200.9	109.2		
6	40.0	1302.8	101.9		
7	48.0	1400.2	97.4		
8	56.0	1489.3	89.1		
F 9	61.3	1546.9	57.6		

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN					
F 1	0.0	1546.9			
2	1.0	2690.8	1143.9	1.0	1.969
3	2.0	2886.0	1339.1	2.0	1.666
4	3.0	2933.3	1386.4	2.9	1.501
5	4.0	2966.7	1419.8	3.8	1.380
6	5.0	2992.3	1445.4	4.8	1.283
7	6.0	3011.6	1464.7	5.6	1.209
8	7.0	3030.8	1483.9	6.5	1.147
9	8.0	3045.8	1498.9	7.3	1.095
10	9.0	3061.2	1514.3	8.2	1.046
11	10.0	3073.4	1526.6	9.0	1.006
12	12.0	3093.8	1546.9	10.6	0.935
13	14.0	3110.3	1563.4	12.1	0.877
14	16.0	3127.0	1580.1	13.6	0.827
15	18.0	3140.3	1593.4	15.0	0.783
16	20.0	3152.0	1605.1	16.4	0.745
17	22.0	3161.7	1614.8	17.8	0.711
18	24.0	3170.2	1623.3	19.0	0.682
19	26.0	3177.3	1630.4	20.3	0.654
20	28.0	3183.9	1637.0	21.4	0.629
21	30.0	3189.3	1642.4	22.6	0.607
22	35.0	3200.2	1653.3	25.3	0.557
23	40.0	3208.6	1661.7	27.8	0.516
24	45.0	3215.0	1668.1	30.1	0.481
25	50.0	3219.7	1672.8	32.3	0.451
26	55.0	3223.6	1676.7	34.3	0.425
27	60.0	3226.1	1679.2	36.2	0.402
28	70.0	3230.8	1683.9	39.6	0.363
29	80.0	3234.3	1687.4	42.6	0.331
30	90.0	3237.7	1690.8	45.3	0.304
31	100.0	3239.6	1692.7	47.7	0.282
32	110.0	3240.7	1693.8	49.9	0.263
33	120.0	3243.0	1696.1	51.9	0.246
G 34	125.6	3243.9	1697.0	52.9	0.237

REMARKS:

		0.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	9397.0	
3		DRILL COLLARS.....	6.250	2.250	315.0	
50		IMPACT REVERSING SUB.....	6.000	2.750	1.0	9712.0
3		DRILL COLLARS.....	6.250	2.250	93.0	
5		CROSSOVER.....	5.750	2.250	1.0	
62		MULTIPLE CIP SAMPLER.....	5.000	0.750	9.0	9811.0
14		EXTENSION JOINT.....	5.000	0.870	10.0	
80		AP RUNNING CASE.....	5.000	3.500	4.0	9827.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	7.000	1.530	5.0	9840.0
70		OPEN HOLE PACKER.....	7.000	1.530	5.0	9845.0
21		PERFORATED TAIL PIPE.....	5.750	3.500	26.0	
80		AP RUNNING CASE.....	5.750		4.0	9875.0
TOTAL DEPTH						9878.0

EQUIPMENT DATA