

REPORT NO.
1078827

PAGE NO. 1

TEST DATE:
18-FEB-1998

STAR

Schlumberger Testing Data Report Pressure Data Report

Schlumberger

COMPANY: COBRA OIL & GAS

WELL: HENARD UNIT #1

TEST IDENTIFICATION

Test Type OPEN HOLE DST
Test No. THREE
Formation DEVONIAN
Test Interval (ft) 12562 to 12624
Depth Reference KB

WELL LOCATION

Field WILDCAT
County LEA
State NEW MEXICO
Sec/Twn/Rng 26/11s/37e
Elevation (ft) 3941

HOLE CONDITIONS

Total Depth (MD/TVD) (ft) 12624
Hole Size (in) 7.875
Casing/Liner I.D. (in) 8.625 ϕ 4480
Perf'd Interval/Net Pay (ft) .. / 14
Shot Density/Diameter (in) ...

MUD PROPERTIES

Mud Type CUT B/W GEL
Mud Weight (lb/gal) 9.6
Mud Resistivity (ohm.m)
Filtrate Resistivity (ohm.m) .. 0.156 ϕ 60F
Filtrate Chlorides (ppm) 52000

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi) 6275.91
Gas Cushion Type
Surface Pressure (psi)
Liquid Cushion Type FRESH WATER
Cushion Length (ft) 2000

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in) ... 11777 / 3.82
Collar Length (ft)/I.D. (in) .. 0 / 2.25
Packer Depths (ft)
Bottomhole Chcke Size (in)94
Gauge Depth (ft)/Type 12573/SLSR-885

NET PIPE RECOVERY

Volume	Fluid Type	Properties
1510 ft	F/W CUSHION	Rw3.216 ϕ 60F 2000ppm
70 ft	WATER	Rw1.134 ϕ 60F 6000ppm
	SLIGHTLY	
	WATER CUT	
1360 ft	MUD	Rw0.167 ϕ 60F 48000ppm

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
0 cuft	Gas	
0 cc	Oil	
0 cc	Water	
2500 cc	Mud	Rw 0.162 ϕ 60F 50000p
Pressure: 150	GOR: 0	GLR: 0

INTERPRETATION RESULTS

Model of Behavior
Fluid Type Used for Analysis..
Reservoir Pressure (psi)
Transmissibility (md.ft/cp) ..
Effective Permeability (md) ..
Skin Factor/Damage Ratio
Storativity Ratio, Omega
Interporos.Flow Coef., Lambda..
Distance to an Anomaly (ft) ..
Radius of Investigation (ft)..
Potentiometric Surface (ft) ..

ROCK/FLUID/WELLBORE PROPERTIES

Oil Density (deg. API)
Basic Solids (%)
Gas Gravity
GOR (scf/STB)
Water Cut (%)
Viscosity (cp)
Total Compressibility (1/psi).
Porosity (%)
Reservoir Temperature (F) 186
Form.Vol.Factor (bbl/STB)

PRODUCTION RATE DURING TEST: Data Report

COMMENTS:

The packer seat was not holding during the initial flow period. During the final flow we set an additional 20,000# on the packers and they held. The total recovery was 34.84 bbls. The fresh water cushion accounted for 21.48 bbls. There was a barrel of water below it that had a slight sulphur odor to it. At the bottom there was 12.36 bbls. of slightly water cut mud. There were very small traces of oil on top of the tool and in the sample chamber.

WELL TEST INTERPRETATION REPORT #: 1078827		PAGE: 2,
CLIENT : COBRA OIL & GAS		20-FEB-98
REGION : CSD DISTRICT: HOBBS NM. BASE : MIDLAND TX. ENGINEER: BILL GRAYSHAW	SEQUENCE OF EVENTS	FIELD: WILDCAT ZONE : DEVONIAN WELL : HENARD UNIT #1 LOCATION: 26/11s/37e

DATE	TIME (HR:MIN)	DESCRIPTION	ET (MINS)	BHP (PSIA)	WHP (PSIG)
=====					
18-FEB		OPEN TO 1/8" BUBBLE HOSE			
	20:06	HYDROSTATIC MUD	-5	6276	
	20:09	SET PACKERS W/ 65,000#	-2		
	20:11	START FLOW ANNULUS SLOWLY DROPPING	0	968	1/8"
	20:12		1		2"
	20:13	4.0" = 2.3 OUNCES	2		4"
	20:16	5.5" = 3 OUNCES	5		5.5"
	20:20	8.0, 8.7/10" = 5.75 OUNCES	9		10"
	20:21		10		7 oz.
	20:26	END FLOW & START SHUT-IN ANNULUS HOLDS WHEN TOOL IS SHUT	15	1603	11oz.
	20:27	OPEN TO 1" CHOKE ONLY	16		
	21:09	OPEN TO BUBBLE HOSE ONLY	58		
	21:12	END SHUT-IN SET 85,000# ON PACKERS	61	4657	DEAD
	21:13	START FLOW ANNULUS HOLDS	62	1534	TSTM
	21:14		63		TSTM
	21:15		64		TSTM
	21:16		65		DEAD
	21:18		67		DEAD
	21:43		92		DEAD
	22:13		122		DEAD
	23:13		182		DEAD
	23:42	END FLOW & START SHUT-IN	211	1530	DEAD
19-FEB	06:59	END SHUT-IN PULLED PACKERS LOOSE	648	4655	
	07:08	HYDROSTATIC MUD PULL TO FLUID	657	6293	

Continued next page

WELL TEST INTERPRETATION REPORT #:1078827		PAGE: 3, 20-FEB-98
CLIENT : COBRA OIL & GAS		
REGION :CSD DISTRICT:HOBBS NM. BASE :MIDLAND TX. ENGINEER:BILL GRAYSHAW	SEQUENCE OF EVENTS Continued	FIELD:WILDCAT ZONE :DEVONIAN WELL :HENARD UNIT #1 LOCATION:26/11s/37e

DATE	TIME (HR:MIN)	DESCRIPTION	ET (MINS)	BHP (PSIA)	WHP (PSIG)
=====					

COBRA OIL & GAS
HENARD UNIT #1
TOOL STRING SCHEMATIC

	TOOL DESCRIPTION	OD	ID	LENGTH	DEPTH
	SURFACE FLOWHEAD				0
	DRILL PIPE 16#	4.50	3.82	31.08	31.08
	SINGLE BALL SAFETY VALVE	6.50	2.25	2.860	33.94
	DRILL PIPE 16#	4.50	3.82	11746	11779.94
	DRILL COLLARS	6.25	2.25	556.8	12336.74
	PUMPOUT DISK REVERSING VALVE	6.00	3.00	0.970	12337.71
	DRILL COLLARS	6.25	2.25	93.00	12430.71
	BREAKOFF PIN REVERSING VALVE	6.00	3.00	1.012	12431.72
	DRILL COLLARS	6.25	2.25	93.00	12524.72
	CROSS OVER SUB	6.00	2.50	1.210	12525.93
	MFE (MFEV-B)	5.00	0.94	10.02	12535.95
	MFE OH BYPASS (MBYP-B)	5.00	1.18	2.980	12538.93
	DC HYDRAULIC JAR	4.75	1.88	6.885	12545.82
	SAFETY JOINT (SAJ-BA)	4.75	2.50	1.880	12547.7
	BOB TAIL PACKER	7.00	1.50	7.130	12554.83
	BOB TAIL PACKER	7.00	1.50	7.120	12562
	PERFORATED ANCHOR	4.75	2.25	4.190	12566.19
	INSIDE RECORDER CARRIER	4.88	1.25	6.870	12573.06
	OUTSIDE RECORDER CARRIER	4.75	2.75	7.300	12580.36
	CROSS OVER SUB	6.00	2.56	0.700	12581.06
	DRILL COLLAR	6.25	2.25	30.09	12611.15
	CROSS OVER SUB	6.75	2.12	1.200	12612.35
	PERFORATED ANCHOR	4.75	2.25	11.00	12623.35
	BULLNOSE	4.75	0.00	0.650	12624

Report Number: 1078827

Test Number: THREE

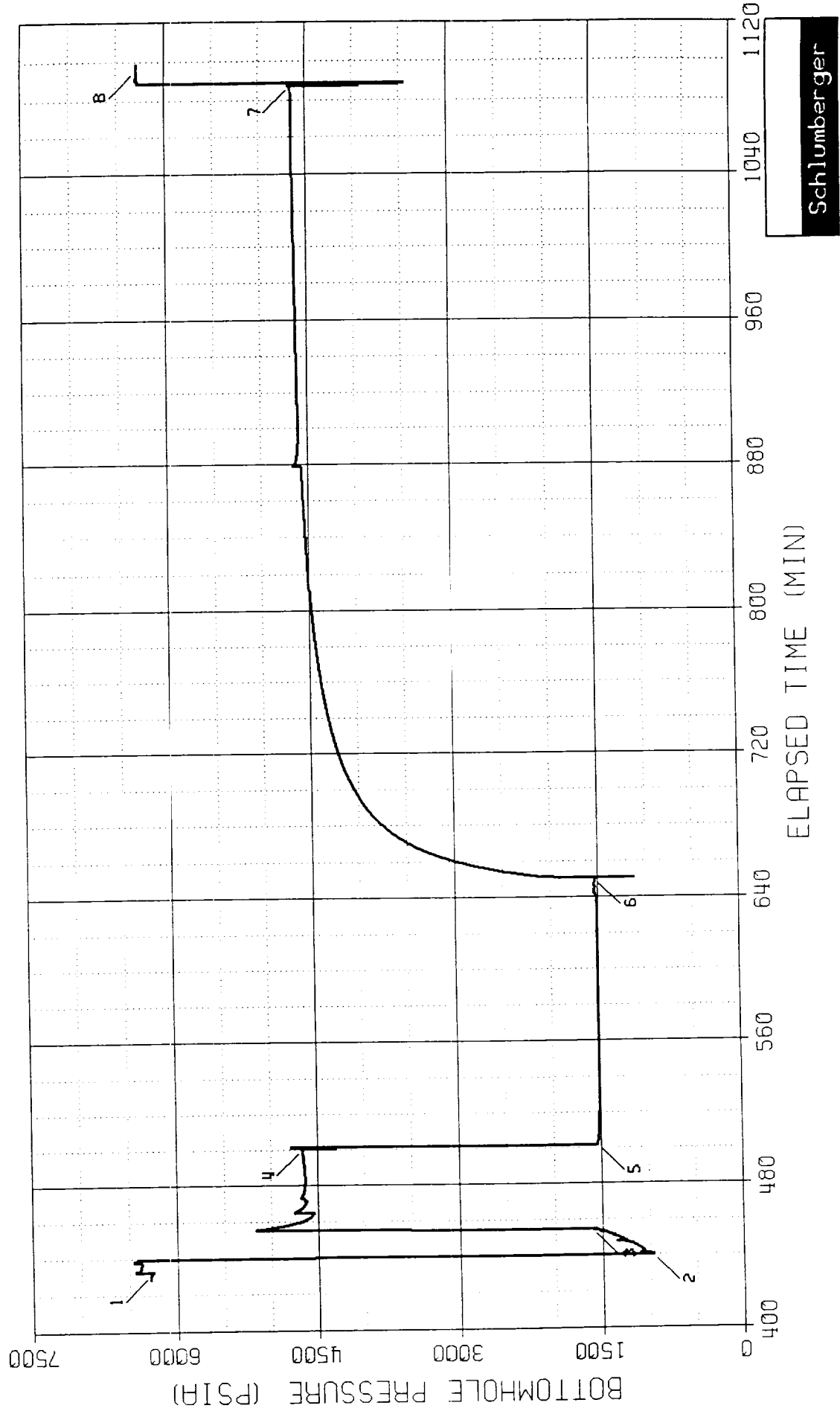
Test Date: 18-FEB-1998

Schlumberger

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 1078827 COMPANY : COBRA OIL & GAS
INSTRUMENT NO. SLSR885 WELL : HENARD UNIT #1
DEPTH : 12573 FT
CAPACITY : 10000 PSI
PORT OPENING : INSIDE

Electronic Pressure Data



BOTTOMHOLE TEMPERATURE LOG

FIELD REPORT NO. 1078827

COMPANY : COBRA OIL & GAS

INSTRUMENT NO. SLSR885

WELL : HENARD UNIT #1

DEPTH : 12573 FT

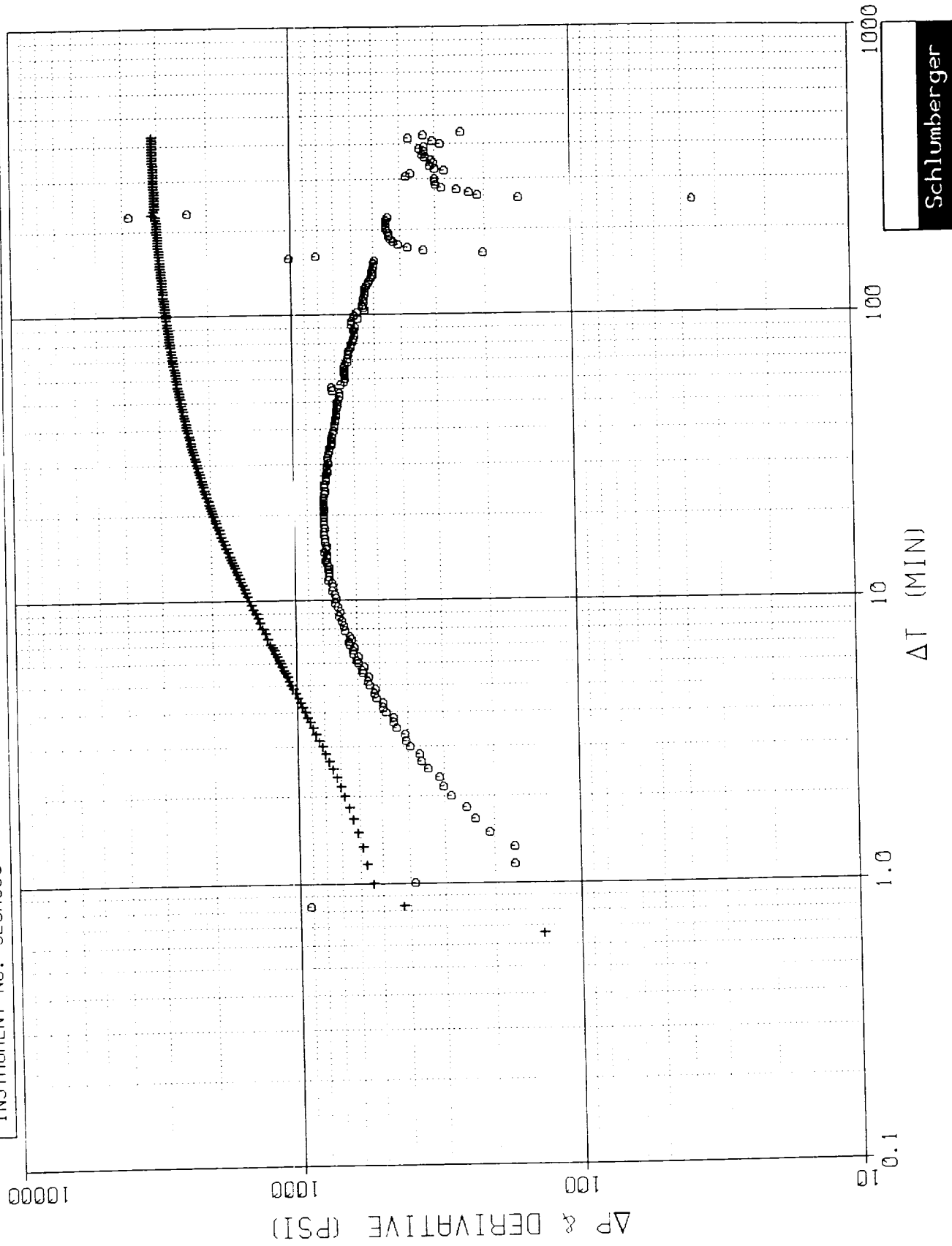
Electronic Temperature Data



LOG LOG PLOT

COMPANY : COBRA OIL & GAS
WELL : HENARD UNIT #1
FIELD REPORT NO. 1078827
INSTRUMENT NO. SL SR885

SHUTIN #2 : PRODUCING TIME (Tp): 163.2 MIN
FINAL FLOW PRESSURE (Pwf): 1530 PSIA
PLOT ELAPSED TIME RANGE: 650.8 TO 1087.8 MIN
 ΔT TIME RANGE: 0.7 TO 437.7 MIN



ΔT (MIN)

HORNER PLOT

FIELD REPORT NO. 1078827
INSTRUMENT NO. SLSR885

COMPANY : COBRA OIL & GAS

WELL : HENARD UNIT #1

SHUTIN #2 : FINAL FLOW PRESSURE (P_{wf}): 1530 PSIA

PLOT ELAPSED TIME RANGE: 650.3 TO 1087.8 MIN

ΔT TIME RANGE: 0.2 TO 437.7 MIN

PRODUCING TIME (T_p): 163.2 MIN

PRESSURE (PSIA)

$\log [(T_p + \Delta T) / \Delta T]$

Schlumberger

ΔT (MIN)

HORNER PLOT

FIELD REPORT NO. 1078827
INSTRUMENT NO. SLSR885

COMPANY : COBRA OIL & GAS
WELL : HENARD UNIT #1

SHUTIN #1 : FINAL FLOW PRESSURE (P_{wf}): 1603 PSIA

PLOT ELAPSED TIME RANGE: 454.6 TO 500.1 MIN

ΔT TIME RANGE: 0.2 TO 45.7 MIN

PRODUCING TIME (T_p): 14.5 MIN

PRESSURE (PSIA)

LOG $[(T_p + \Delta T) / \Delta T]$

Schlumberger

** *****
 ** WELL TEST DATA PRINTOUT **

COMPANY: COBRA OIL & GAS
 WELL: HENARD UNIT #1

FIELD REPORT NO. 1078827
 INSTRUMENT NO. SLSR885

RECORDER CAPACITY: 10000 PSI PORT OPENING: INSIDE DEPTH: 12573 FT

LABEL POINT INFORMATION

#	TIME OF DAY HH:MM:SS	DATE DD-MMM	EXPLANATION	ELAPSED TIME, MIN	BOT HOLE PRESSURE PSIA	BOT HOLE TEMP. DEG F
1	20:03:27	18-FEB	HYDROSTATIC MUD	431.45	6275.91	174.87
2	20:11:57	18-FEB	START FLOW	439.95	968.09	174.61
3	20:26:27	18-FEB	END FLOW & START SHUT-IN	454.45	1602.88	181.09
4	21:12:07	18-FEB	END SHUT-IN	500.12	4656.71	184.51
5	21:13:27	18-FEB	START FLOW	501.45	1534.24	183.99
6	23:42:07	18-FEB	END FLOW & START SHUT-IN	650.12	1530.19	183.16
7	6:59:47	19-FEB	END SHUT-IN	1087.78	4655.38	185.79
8	7:08:27	19-FEB	HYDROSTATIC MUD	1096.45	6293.33	186.21

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	INITIAL PRESSURE PSIA
1	439.95	454.45	14.50	968.09	1602.88	968.09
2	501.45	650.12	148.67	1534.24	1530.19	1534.24

SUMMARY OF SHUTIN PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	454.45	500.12	45.67	1602.88	4656.71	1602.88	14.50
2	650.12	1087.78	437.66	1530.19	4655.38	1530.19	163.17

TEST PHASE: FLOW PERIOD # 1

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
20:11:57	18-FEB	439.95	0.00	174.61	968.09
20:26:27	18-FEB	454.45	14.50	181.09	1602.88

TEST PHASE: SHUTIN PERIOD # 1 FINAL FLOW PRESSURE = 1602.88 PSIA
 PRODUCING TIME = 14.50 MIN

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
20:26:27	18-FEB	454.45	0.00	181.09	1602.88	0.00	
20:27:27	18-FEB	455.45	1.00	181.80	5155.85	3552.97	1.1903
20:28:27	18-FEB	456.45	2.00	182.21	4967.46	3364.58	0.9165
20:29:27	18-FEB	457.45	3.00	182.57	4871.43	3268.55	0.7659
20:30:27	18-FEB	458.45	4.00	182.88	4776.22	3173.34	0.6651
20:31:27	18-FEB	459.45	5.00	183.15	4701.63	3098.75	0.5911
20:32:27	18-FEB	460.45	6.00	183.38	4647.43	3044.55	0.5336
20:33:27	18-FEB	461.45	7.00	183.58	4607.67	3004.79	0.4873
20:34:27	18-FEB	462.45	8.00	183.76	4577.64	2974.76	0.4491
20:35:27	18-FEB	463.45	9.00	183.90	4556.43	2953.55	0.4168
20:36:27	18-FEB	464.45	10.00	184.05	4622.39	3019.51	0.3892
20:38:27	18-FEB	466.45	12.00	184.26	4692.98	3090.10	0.3441
20:40:27	18-FEB	468.45	14.00	184.41	4648.96	3046.08	0.3087
20:42:27	18-FEB	470.45	16.00	184.50	4624.57	3021.69	0.2802
20:44:27	18-FEB	472.45	18.00	184.57	4656.78	3053.90	0.2566
20:46:27	18-FEB	474.45	20.00	184.62	4661.60	3058.72	0.2368
20:48:27	18-FEB	476.45	22.00	184.64	4646.98	3044.10	0.2199
20:50:27	18-FEB	478.45	24.00	184.64	4639.11	3036.23	0.2052
20:52:27	18-FEB	480.45	26.00	184.64	4635.93	3033.05	0.1925
20:54:27	18-FEB	482.45	28.00	184.64	4634.12	3031.24	0.1812
20:56:27	18-FEB	484.45	30.00	184.64	4634.31	3031.43	0.1712
21:01:27	18-FEB	489.45	35.00	184.60	4639.91	3037.03	0.1505
21:06:27	18-FEB	494.45	40.00	184.55	4649.77	3046.89	0.1343
21:11:27	18-FEB	499.45	45.00	184.53	4659.77	3056.89	0.1213
21:12:07	18-FEB	500.12	45.67	184.51	4656.71	3053.83	0.1197

TEST PHASE: FLOW PERIOD # 2

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
21:13:27	18-FEB	501.45	0.00	183.99	1534.24
21:28:27	18-FEB	516.45	15.00	182.86	1514.27
21:43:27	18-FEB	531.45	30.00	182.62	1508.92
21:58:27	18-FEB	546.45	45.00	182.64	1508.17
22:13:27	18-FEB	561.45	60.00	182.66	1507.97
22:28:27	18-FEB	576.45	75.00	182.71	1507.95
22:43:27	18-FEB	591.45	90.00	182.77	1508.32
22:58:27	18-FEB	606.45	105.00	182.82	1509.08
23:13:27	18-FEB	621.45	120.00	182.89	1511.26

TEST PHASE: FLOW PERIOD # 2

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
23:28:27	18-FEB	636.45	135.00	182.97	1511.93
23:42:07	18-FEB	650.12	148.67	183.16	1530.19

TEST PHASE: SHUTIN PERIOD # 2

FINAL FLOW PRESSURE = 1530.19 PSIA
PRODUCING TIME = 163.17 MIN

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORN TIME
23:42:07	18-FEB	650.12	0.00	183.16	1530.19	0.00	
23:43:07	18-FEB	651.12	1.00	183.27	2070.95	540.76	2.2153
23:44:07	18-FEB	652.12	2.00	183.29	2210.64	680.45	1.9169
23:45:07	18-FEB	653.12	3.00	183.34	2343.43	813.24	1.7434
23:46:07	18-FEB	654.12	4.00	183.40	2464.57	934.38	1.6211
23:47:07	18-FEB	655.12	5.00	183.45	2574.66	1044.47	1.5268
23:48:07	18-FEB	656.12	6.00	183.51	2674.37	1144.18	1.4502
23:49:07	18-FEB	657.12	7.00	183.56	2765.36	1235.17	1.3858
23:50:07	18-FEB	658.12	8.00	183.63	2848.17	1317.98	1.3303
23:51:07	18-FEB	659.12	9.00	183.69	2924.41	1394.22	1.2817
23:52:07	18-FEB	660.12	10.00	183.74	2994.46	1464.27	1.2385
23:54:07	18-FEB	662.12	12.00	183.83	3119.49	1589.30	1.1643
23:56:07	18-FEB	664.12	14.00	183.92	3227.70	1697.51	1.1023
23:58:07	18-FEB	666.12	16.00	184.01	3322.00	1791.81	1.0491
0:00:07	19-FEB	668.12	18.00	184.08	3404.97	1874.78	1.0028
0:02:07	19-FEB	670.12	20.00	184.15	3478.53	1948.34	0.9618
0:04:07	19-FEB	672.12	22.00	184.21	3544.38	2014.19	0.9251
0:06:07	19-FEB	674.12	24.00	184.28	3603.70	2073.51	0.8920
0:08:07	19-FEB	676.12	26.00	184.32	3657.37	2127.18	0.8619
0:10:07	19-FEB	678.12	28.00	184.37	3705.88	2175.69	0.8343
0:12:07	19-FEB	680.12	30.00	184.41	3750.11	2219.92	0.8088
0:17:07	19-FEB	685.12	35.00	184.48	3846.05	2315.86	0.7530
0:22:07	19-FEB	690.12	40.00	184.55	3924.56	2394.37	0.7058
0:27:07	19-FEB	695.12	45.00	184.59	3990.26	2460.07	0.6652
0:32:07	19-FEB	700.12	50.00	184.62	4046.71	2516.52	0.6298
0:37:07	19-FEB	705.12	55.00	184.66	4097.08	2566.89	0.5984
0:42:07	19-FEB	710.12	60.00	184.68	4139.89	2609.70	0.5705
0:47:07	19-FEB	715.12	65.00	184.71	4177.33	2647.14	0.5453
0:52:07	19-FEB	720.12	70.00	184.73	4210.92	2680.73	0.5226
0:57:07	19-FEB	725.12	75.00	184.75	4240.85	2710.66	0.5018
1:02:07	19-FEB	730.12	80.00	184.77	4267.73	2737.54	0.4828
1:07:07	19-FEB	735.12	85.00	184.77	4291.94	2761.75	0.4653
1:12:07	19-FEB	740.12	90.00	184.78	4313.96	2783.77	0.4492
1:17:07	19-FEB	745.12	95.00	184.80	4334.88	2804.69	0.4342
1:22:07	19-FEB	750.12	100.00	184.82	4353.66	2823.47	0.4202
1:27:07	19-FEB	755.12	105.00	184.82	4370.54	2840.35	0.4072
1:32:07	19-FEB	760.12	110.00	184.84	4385.95	2855.76	0.3950
1:37:07	19-FEB	765.12	115.00	184.84	4400.26	2870.07	0.3836
1:42:07	19-FEB	770.12	120.00	184.86	4413.70	2883.51	0.3729
1:47:07	19-FEB	775.12	125.00	184.86	4426.32	2896.13	0.3627
1:52:07	19-FEB	780.12	130.00	184.87	4438.02	2907.83	0.3532

TEST PHASE: SHUTIN PERIOD # 2

FINAL FLOW PRESSURE = 1530.19 PSIA
PRODUCING TIME = 163.17 MIN

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
1:57:07	19-FEB	785.12	135.00	184.87	4448.81	2918.62	0.3441
2:02:07	19-FEB	790.12	140.00	184.89	4458.85	2928.66	0.3356
2:07:07	19-FEB	795.12	145.00	184.91	4468.32	2938.13	0.3274
2:12:07	19-FEB	800.12	150.00	184.91	4477.23	2947.04	0.3197
2:17:07	19-FEB	805.12	155.00	184.93	4485.74	2955.55	0.3123
2:22:07	19-FEB	810.12	160.00	184.93	4493.76	2963.57	0.3053
2:27:07	19-FEB	815.12	165.00	184.95	4508.89	2978.70	0.2986
2:32:07	19-FEB	820.12	170.00	184.96	4513.15	2982.96	0.2922
2:37:07	19-FEB	825.12	175.00	184.96	4518.42	2988.23	0.2861
2:42:07	19-FEB	830.12	180.00	184.98	4523.92	2993.73	0.2802
2:57:07	19-FEB	845.12	195.00	185.02	4540.10	3009.91	0.2641
3:12:07	19-FEB	860.12	210.00	185.05	4554.89	3024.70	0.2497
3:27:07	19-FEB	875.12	225.00	185.09	4568.13	3037.94	0.2368
3:42:07	19-FEB	890.12	240.00	185.14	4606.21	3076.02	0.2253
3:57:07	19-FEB	905.12	255.00	185.18	4602.79	3072.60	0.2148
4:12:07	19-FEB	920.12	270.00	185.22	4607.07	3076.88	0.2053
4:27:07	19-FEB	935.12	285.00	185.27	4612.33	3082.14	0.1966
4:42:07	19-FEB	950.12	300.00	185.31	4617.73	3087.54	0.1886
4:57:07	19-FEB	965.12	315.00	185.36	4624.03	3093.84	0.1813
5:12:07	19-FEB	980.12	330.00	185.41	4628.39	3098.20	0.1745
5:27:07	19-FEB	995.12	345.00	185.45	4632.87	3102.68	0.1682
5:42:07	19-FEB	1010.12	360.00	185.50	4637.06	3106.87	0.1623
5:57:07	19-FEB	1025.12	375.00	185.56	4641.29	3111.10	0.1569
6:12:07	19-FEB	1040.12	390.00	185.61	4645.29	3115.10	0.1518
6:27:07	19-FEB	1055.12	405.00	185.67	4648.38	3118.19	0.1470
6:42:07	19-FEB	1070.12	420.00	185.72	4651.61	3121.42	0.1425
6:57:07	19-FEB	1085.12	435.00	185.77	4654.88	3124.69	0.1383
6:59:47	19-FEB	1087.78	437.66	185.79	4655.38	3125.19	0.1376

WELL TEST INTERPRETATION REPORT #:1078827		PAGE: 12, 20-FEB-98
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