REPORT NO. 6722651

PAGE NO. 1

TEST DATE: 14-JAN-2001

S T A R

Schlumberger Testing Data Report

Pressure Data Report

Schlumberger

COMPANY: PHILLIPS PETROLEUM

WELL: W. MALJAMAR-7 #1, DST #1

TEST IDENTIFICATION

Test Type	OPEN HOLE DST
Test No.	ONE
Formation	LEA-MEX WLFCMP
Test Interval (ft)	10758 to 10950
Depth Reference	KB

WELL LOCATION

Field	WILDCAT
County	LEA
State	NEW MEXICO
Sec/Twn/Rng	7/17s/33e
Elevation (ft)	4234

HOLE CONDITIONS

Total Depth (MD/TVD) (ft)	10950
Hole Size (in)	8.75
Casing/Liner I.D. (in)	9.62 @ 4628'
Perf'd Interval/Net Pay (ft)	/ 13
Shot Density/Diameter (in)	

MUD PROPERTIES

Mud Type	KCL-FLZN-PAC
Mud Weight (lb/gal)	9.1
Mud Resistivity (ohm.m)	
Filtrate Resistivity (ohm.m)	0.132 @ 60F
Filtrate Chlorides (ppm)	36000

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi)	5171.98
Gas Cushion Type	
Surface Pressure (psi)	
Liquid Cushion Type	
Cushion Length (ft)	

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in)	10108 / 3.64
Collar Length (ft)/I.D. (in)	0 / 2.25
Packer Depths (ft)	10752,10758,
Bottomhole Choke Size (in)	0.94
Gauge Depth (ft)/Type	10769/SLSR-884

NET PIPE RECOVERY

Volume	Fluid Type	Properties
1 ft	OIL	
408 ft	WATER	Rw0.185@60F 26000ppm
	SLIGHTLY GAS	
	CUT MUD W/	
302 ft	TRACE OF OIL	Rw0.154@60F 32000ppm

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
0.43 cuft	Gas	
200 cc	Oil	
0 cc	Water	
1800 cc	Mud	Rw 0.139@60F 36000p
Pressure:325	GOR:341	GLR:34

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)	138
Form.Vol.Factor (bbl/STB)	

PRODUCTION RATE DURING TEST: Data Report

COMMENTS:

We had a successful test. There was a very faint gas cdor 400 feet above the fluid recovery. The top of the fluid recovery was a skim of oil. We couldn't catch enough to run a proper API gravity check. The middle was 2.85 bbls. of kcl water that fell down the pipe during the pressure test at surface. The bottom was 2.48 bbls. of slightly gas cut mud with a traces of oil. The sample chamber recovery was slightly emulsified. Thank you for using Schlumberger.

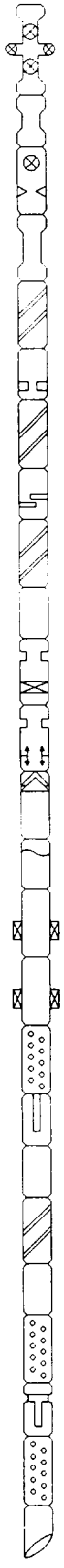
WELL TEST INTERPRETATION REPORT #:6722651 CLIENT : PHILLIPS PETROLEUM		PAGE: 2, 15-JAN-01
REGION :CSD DISTRICT:HOBBS BASE :MIDLAND TX. ENGINEER:BILL GRAYSHAW	SEQUENCE OF EVENTS	FIELD:WILDCAT ZONE :LEA-MEX WLFCMP WELL :W. MAL.-7 #1 LOCATION:7/17s/33e

DATE	TIME (HR:MIN)	DESCRIPTION	ET (MINS)	BHP (PSIA)	WHP (PSIG)
14-JAN	12:00	PRESSURE TEST SURFACE EQUIPMENT TO 3,000 POUNDS	-32		
	12:25	HYDROSTATIC MUD	-7	5172	
	12:28	OPEN TO 1/8" BUBBLE HOSE	-4		
	12:30	SET PACKERS	-2		
	12:32	START FLOW-ON BUBBLE HOSE	0	316	DEAD
	12:37	5 MIN	5		DEAD
	12:42	END FLOW & START SHUT-IN	10	321	DEAD
	13:14	END SHUT-IN	42	999	
	13:17	START FLOW-ON BUBBLE HOSE	45	340	DEAD
	13:22	5 MIN	50		DEAD
	13:27	10 MIN	55		DEAD
	13:33	15 MIN	61		DEAD
	13:35	18 MIN	63		TSTM
	13:37	20 MIN	65		.12"
	13:47	30 MIN	75		1.2"
	13:57	40 MIN	85		2.5"
	14:07	50 MIN	95		4.5"
	14:17	60 MIN	105		6.0"
	14:27	70 MIN	115		7.5"
	14:37	80 MIN	125		9.5"
	14:39	82 MIN-BOTTOM OF BUCKET	127		10 "
	14:47	90 MIN-MEASURED IN OUNCES	135		6.5oz
	14:57	100 MIN	145		7.5oz
	15:07	110 MIN	155		8.5oz
	15:17	120 MIN	165		9 oz.
	15:27	130 MIN	175		10oz.
	15:30	END FLOW & START SHUT-IN	178	347	11oz.
	19:31	END SHUT-IN	419	3824	
	19:36	PULLED PACKERS LOOSE	424		
	19:38	HYDROSTATIC MUD	426	5171	

Continued next page

DATE	TIME (HR:MIN)	DESCRIPTION	ET (MINS)	BHP (PSIA)	WHP (PSIG)
		PULLED TO FLUID			

PHILLIPS PETROLEUM
W. MALJAMAR-7 #1, DST #1
TOOL STRING SCHEMATIC



TOOL DESCRIPTION	OD	ID	LENGTH	DEPTH
SURFACE FLOWHEAD				0
PUP JOINT	4.50	2.00	5.000	5
SINGLE BALL SAFETY VALVE	6.50	2.25	3.000	8
DRILL PIPE 20#	4.50	3.64	10108	10116
DRILL COLLARS-13	6.25	2.25	392.7	10508.7
PUMPOUT DISC REVERSING VALVE	6.00	3.00	1.400	10510.1
DRILL COLLARS-3	6.25	2.25	90.00	10600.1
BREAKOFF PIN REVERSING VALVE	6.25	3.00	1.470	10601.57
DRILL COLLARS-4	6.25	2.25	120.0	10721.57
CROSS OVER SUB	6.12	2.37	1.310	10722.88
MFE (MFEV-B)	5.00	0.94	10.02	10732.9
MFE OH BYPASS (MBYP-B)	5.00	1.18	2.980	10735.88
TR HYDRAULIC JARS	4.75	1.88	7.340	10743.22
SAFETY JOINT	4.75	1.50	2.440	10745.66
BOB TAIL PACKER	8.00	1.50	6.120	10751.78
BOB TAIL PACKER	8.00	1.50	6.220	10758
PERFORATED ANCHOR	4.75	2.25	9.430	10767.43
DUAL ELECTRONIC GAUGE HANGER	5.00	2.25	2.380	10769.81
CROSS OVER SUB	5.92	2.25	1.060	10770.87
DRILL COLLARS-5	6.25	2.25	152.3	10923.17
CROSS OVER SUB	5.81	2.43	1.200	10924.37
PERFORATED ANCHOR	4.75	2.25	15.00	10939.37
OUTSIDE RECORDER CARRIER	4.88	2.37	5.980	10945.35
PERFORATED ANCHOR	4.75	2.25	4.000	10949.35
MULE SHOE	4.75	0.00	0.650	10950

Report Number: 6722651
Test Number: ONE
Test Date: 14-JAN-2001

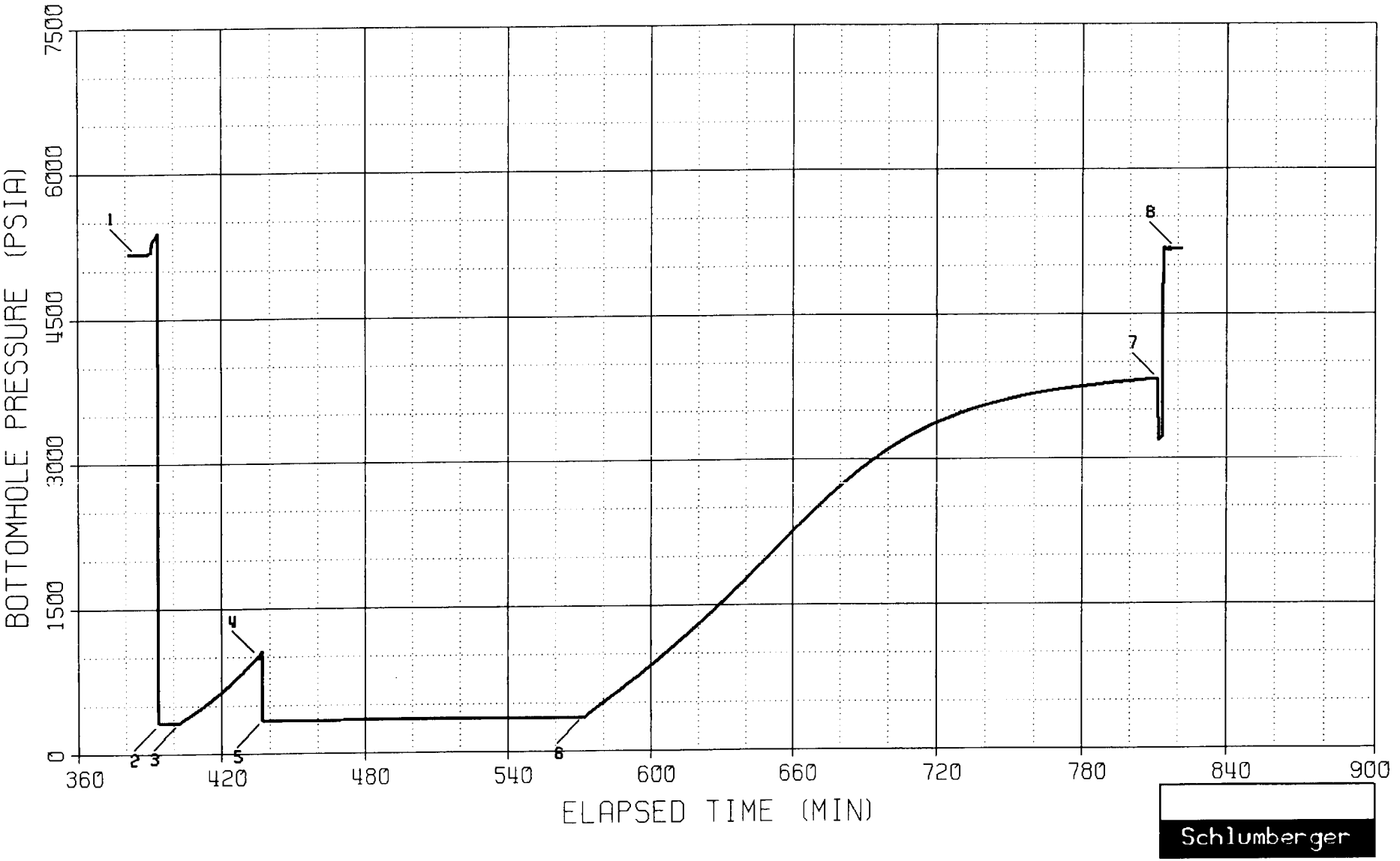
Schlumberger

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 6722651
INSTRUMENT NO. SLSR-884
DEPTH : 10769 FT
CAPACITY : 10000 PSI
PORT OPENING : INSIDE

COMPANY : PHILLIPS PETROLEUM
WELL : W. MALJAMAR-7 #1, DST #1

Electronic Pressure Data

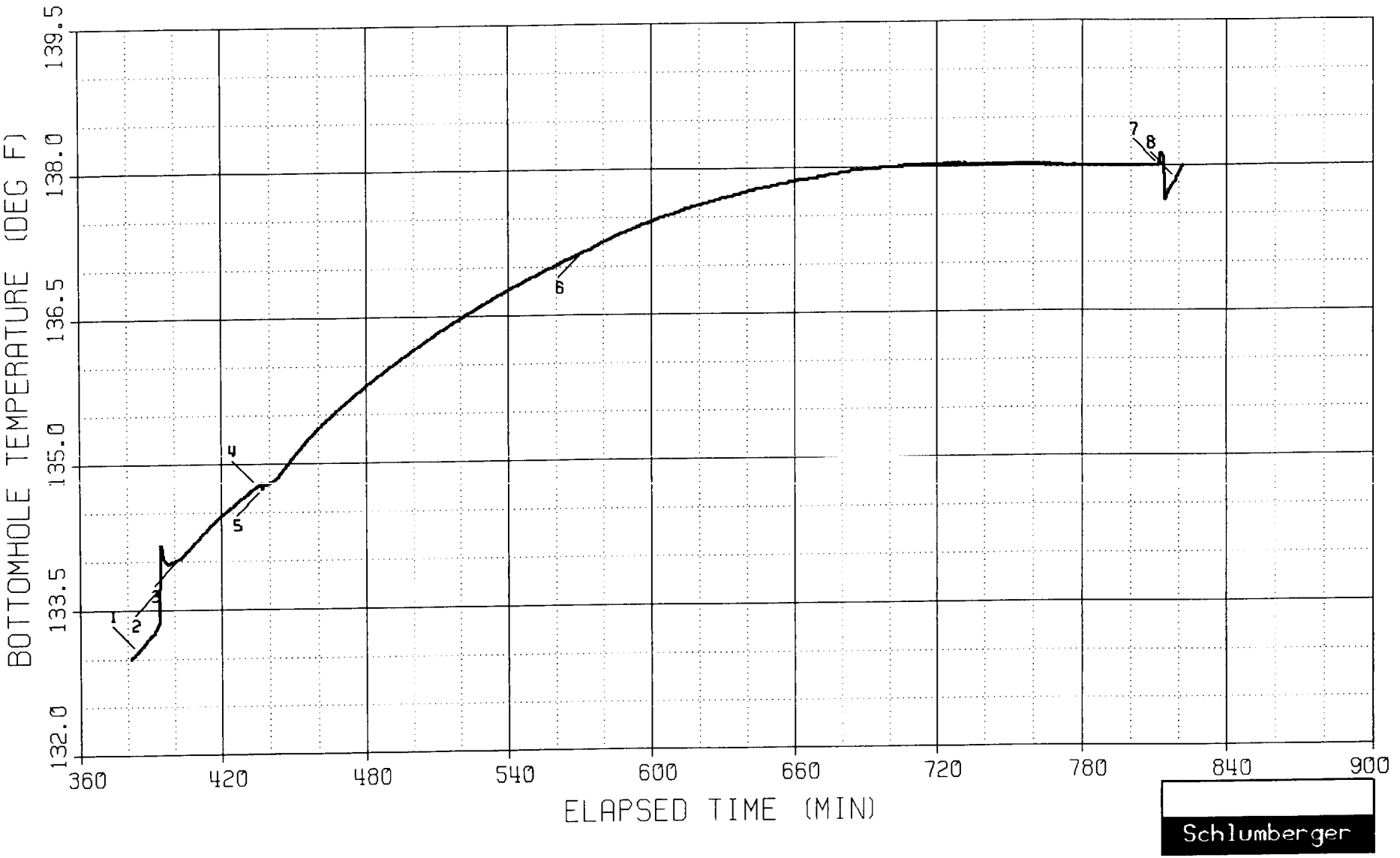


BOTTOMHOLE TEMPERATURE LOG

FIELD REPORT NO. 6722651
INSTRUMENT NO. SLSR-884
DEPTH : 10769 FT

COMPANY : PHILLIPS PETROLEUM
WELL : W. MALJAMAR-7 #1, DST #1

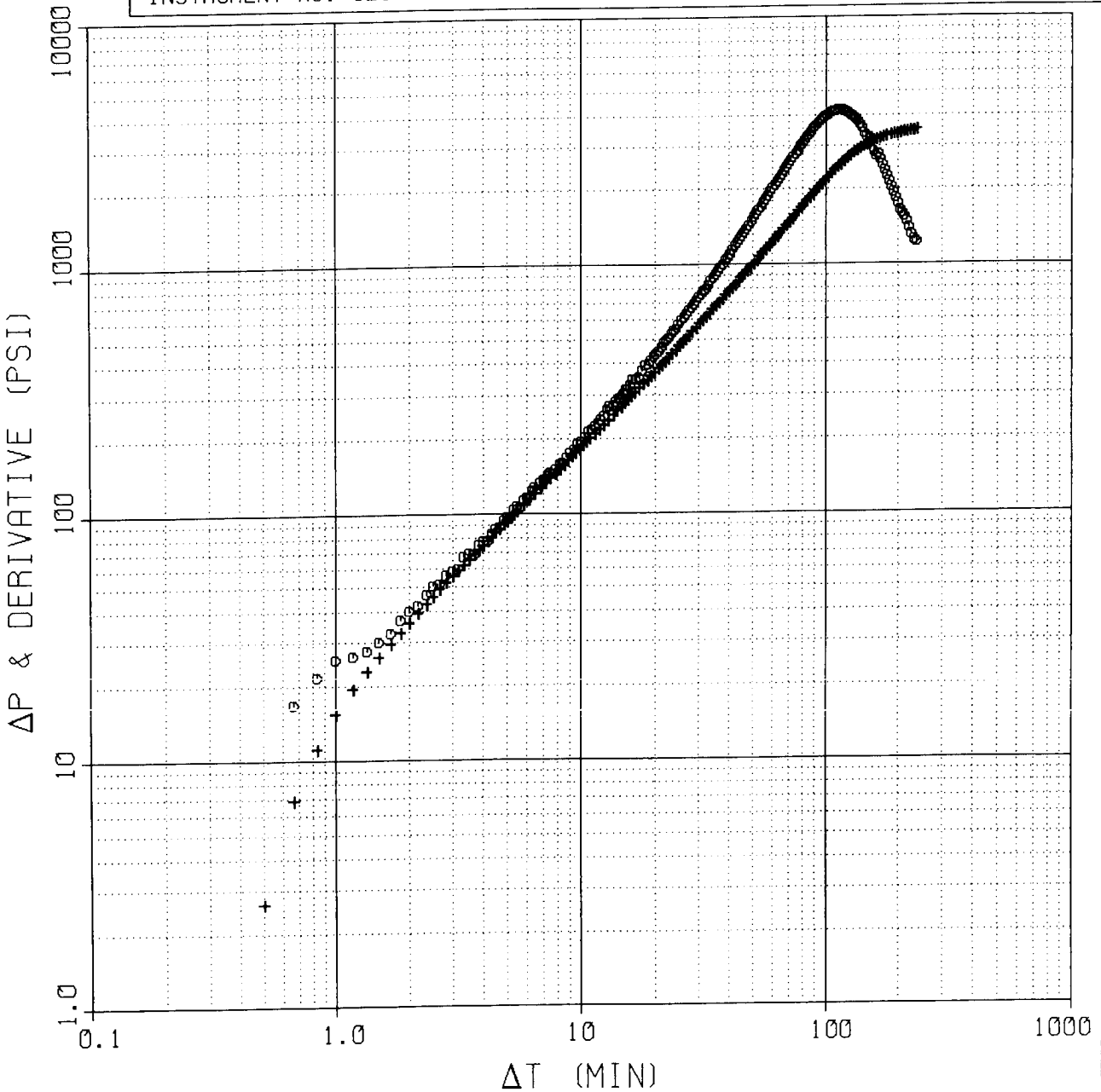
Electronic Temperature Data



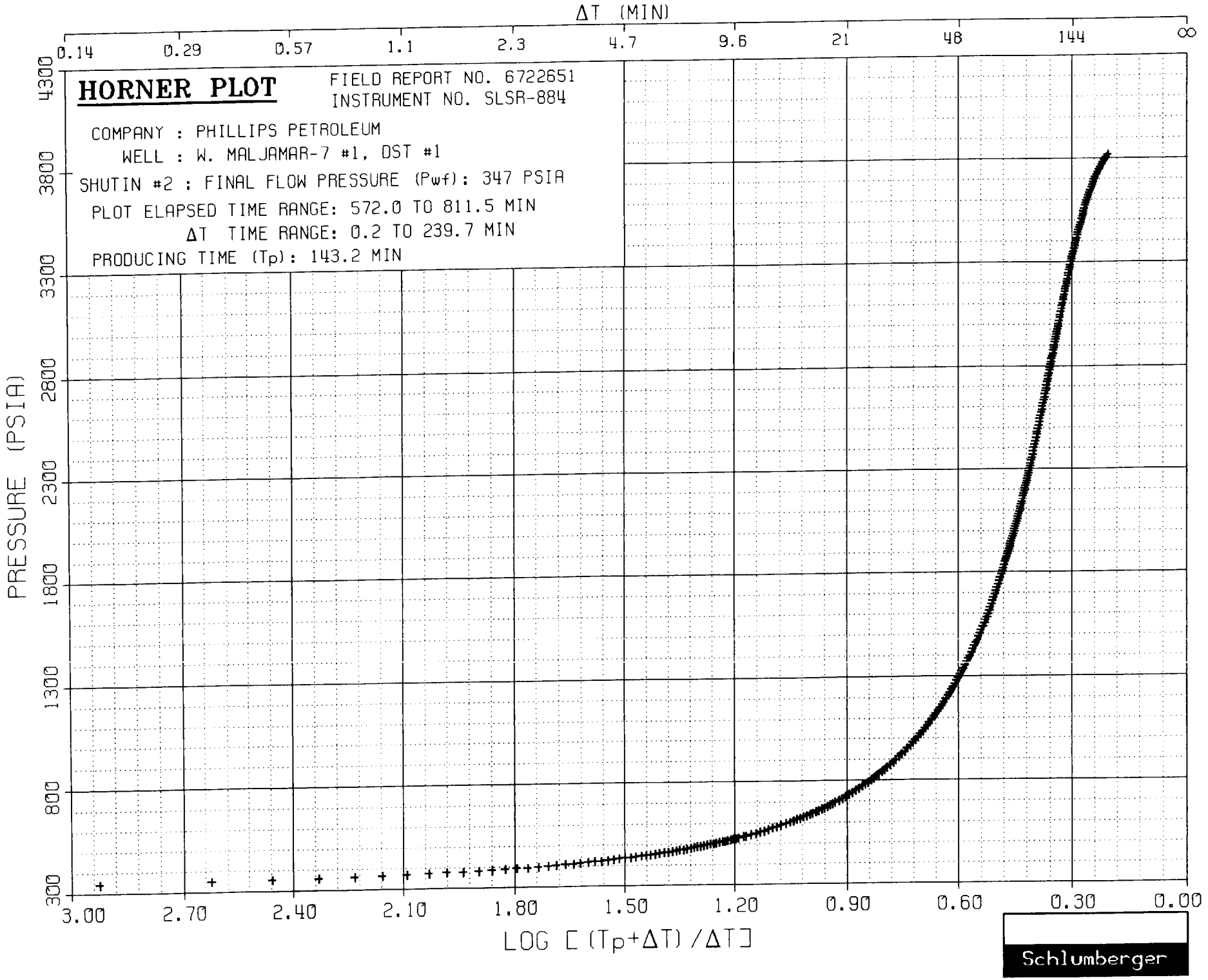
LOG LOG PLOT

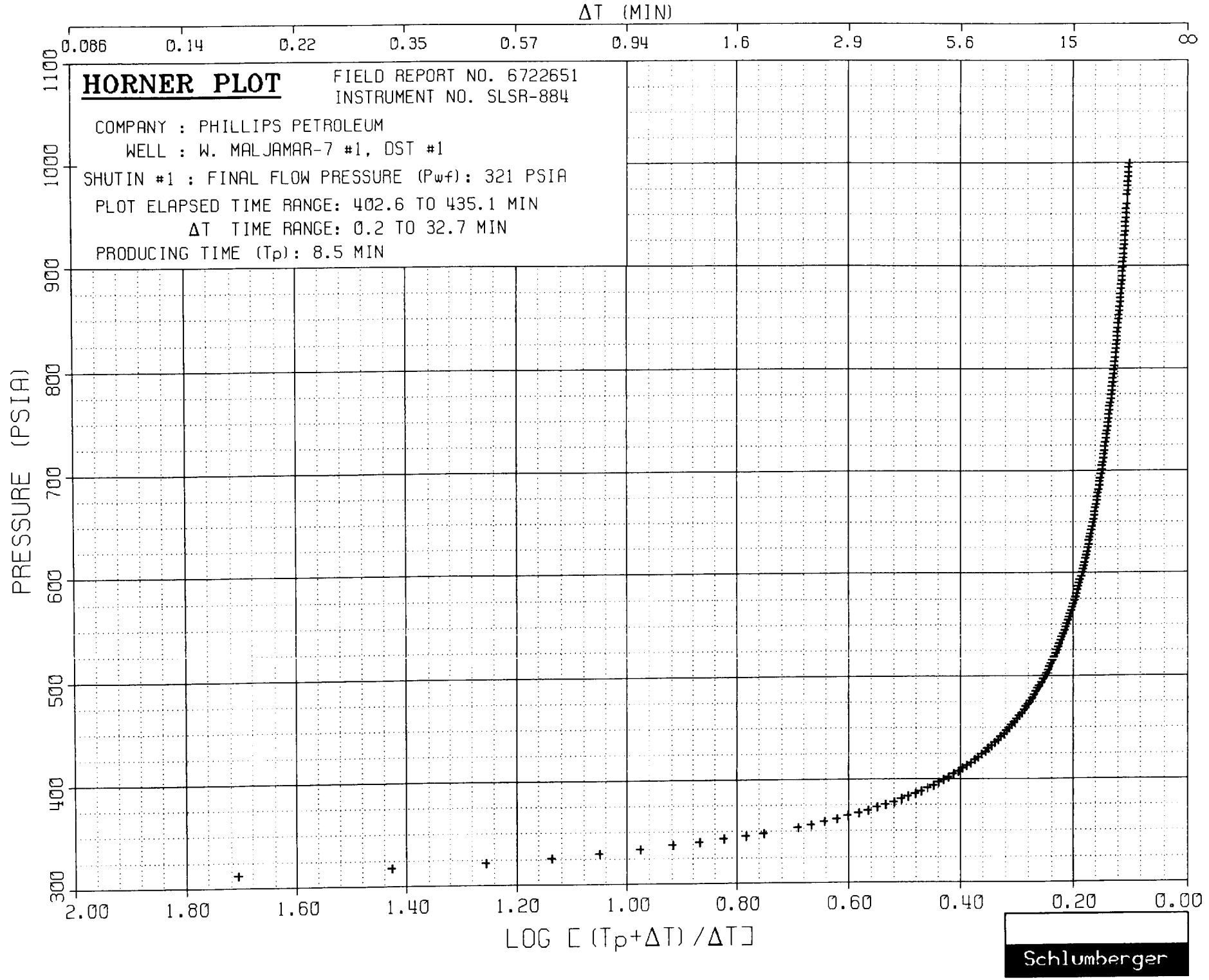
COMPANY : PHILLIPS PETROLEUM
WELL : W. MALJAMAR-7 #1, DST #1
FIELD REPORT NO. 6722651
INSTRUMENT NO. SLSR-884

SHUTIN #2 : PRODUCING TIME (Tp): 143.2 MIN
FINAL FLOW PRESSURE (Pwf): 347 PSIA
PLOT ELAPSED TIME RANGE: 572.3 TO 811.5 MIN
ΔT TIME RANGE: 0.5 TO 239.7 MIN



Schlumberger


ΔT (MIN)
0.14
0.29
0.57
1.1
2.3
4.7
9.6
21
48
144
∞
HORNER PLOT
FIELD REPORT NO. 6722651
INSTRUMENT NO. SLSR-884
COMPANY : PHILLIPS PETROLEUM
WELL : W. MALJAMAR-7 #1, DST #1
SHUTIN #2 : FINAL FLOW PRESSURE (Pwf): 347 PSIA
PLOT ELAPSED TIME RANGE: 572.0 TO 811.5 MIN
ΔT TIME RANGE: 0.2 TO 239.7 MIN
PRODUCING TIME (Tp): 143.2 MIN
PRESSURE (PSIA)
4300
3800
3300
2800
2300
1800
1300
800
300
3.00
2.70
2.40
2.10
1.80
1.50
1.20
0.90
0.60
0.30
0.00
LOG [(Tp+ΔT)/ΔT]
Schlumberger


ΔT (MIN)
0.086
0.14
0.22
0.35
0.57
0.94
1.6
2.9
5.6
15
∞
HORNER PLOT
FIELD REPORT NO. 6722651
INSTRUMENT NO. SLSR-884
COMPANY : PHILLIPS PETROLEUM
WELL : W. MALJAMAR-7 #1, DST #1
SHUTIN #1 : FINAL FLOW PRESSURE (Pwf): 321 PSIA
PLOT ELAPSED TIME RANGE: 402.6 TO 435.1 MIN
ΔT TIME RANGE: 0.2 TO 32.7 MIN
PRODUCING TIME (Tp): 8.5 MIN
PRESSURE (PSIA)
1100
1000
900
800
700
600
500
400
300
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
LOG [(Tp+ΔT)/ΔT]
Schlumberger

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

COMPANY: PHILLIPS PETROLEUM
WELL: W. MALJAMAR-7 #1, DST #1

FIELD REPORT NO. 6722651
INSTRUMENT NO. SLSR-884

RECORDER CAPACITY: 10000 PSI PORT OPENING: INSIDE DEPTH: 10769 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	12:24:17	14-JAN	HYDROSTATIC MUD	384.28	5171.98	133.07
2	12:33:57	14-JAN	START FLOW	393.95	315.80	133.72
3	12:42:27	14-JAN	END FLOW & START SHUT-IN	402.45	320.79	134.02
4	13:15:07	14-JAN	END SHUT-IN	435.12	999.07	134.76
5	13:17:07	14-JAN	START FLOW	437.12	340.13	134.74
6	15:31:47	14-JAN	END FLOW & START SHUT-IN	571.78	346.62	137.16
7	19:31:27	14-JAN	END SHUT-IN	811.45	3823.54	138.00
8	19:38:47	14-JAN	HYDROSTATIC MUD	818.78	5170.76	137.86

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	393.95	402.45	8.50	315.80	320.79	315.80
2	437.12	571.78	134.66	340.13	346.62	340.13

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	402.45	435.12	32.67	320.79	999.07	320.79	8.50
2	571.78	811.45	239.67	346.62	3823.54	346.62	143.16

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
12:33:57	14-JAN	393.95	0.00	133.72	315.80
12:42:27	14-JAN	402.45	8.50	134.02	320.79

TEST PHASE: SHUTIN PERIOD # 1

FINAL FLOW PRESSURE = 320.79 PSIA
PRODUCING TIME = 8.50 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
12:42:27	14-JAN	402.45	0.00	134.02	320.79	0.00	
12:43:27	14-JAN	403.45	1.00	134.04	333.27	12.48	0.9777
12:44:37	14-JAN	404.62	2.17	134.08	353.59	32.80	0.6917
12:45:37	14-JAN	405.62	3.17	134.10	369.80	49.01	0.5660
12:46:37	14-JAN	406.62	4.17	134.13	385.83	65.04	0.4826
12:47:37	14-JAN	407.62	5.17	134.15	402.04	81.25	0.4223
12:48:37	14-JAN	408.62	6.17	134.19	418.48	97.69	0.3761
12:49:37	14-JAN	409.62	7.17	134.20	435.30	114.51	0.3396
12:50:37	14-JAN	410.62	8.17	134.22	452.34	131.55	0.3097
12:51:37	14-JAN	411.62	9.17	134.26	469.74	148.95	0.2849
12:52:37	14-JAN	412.62	10.17	134.28	487.48	166.69	0.2638
12:54:37	14-JAN	414.62	12.17	134.33	524.65	203.86	0.2301
12:56:37	14-JAN	416.62	14.17	134.38	563.28	242.49	0.2041
12:58:37	14-JAN	418.62	16.17	134.44	603.50	282.71	0.1835
13:00:37	14-JAN	420.62	18.17	134.47	645.60	324.81	0.1667
13:02:37	14-JAN	422.62	20.17	134.51	689.44	368.65	0.1527
13:04:37	14-JAN	424.62	22.17	134.56	735.04	414.25	0.1409
13:06:37	14-JAN	426.62	24.17	134.60	782.23	461.44	0.1309
13:08:37	14-JAN	428.62	26.17	134.64	831.13	510.34	0.1222
13:10:37	14-JAN	430.62	28.17	134.67	881.58	560.79	0.1145
13:12:37	14-JAN	432.62	30.17	134.73	933.26	612.47	0.1078
13:15:07	14-JAN	435.12	32.67	134.76	999.07	678.28	0.1004

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
13:17:07	14-JAN	437.12	0.00	134.74	340.13
13:32:07	14-JAN	452.12	15.00	135.14	339.02
13:47:07	14-JAN	467.12	30.00	135.52	340.79
14:02:07	14-JAN	482.12	45.00	135.82	342.70
14:17:07	14-JAN	497.12	60.00	136.11	343.73
14:32:07	14-JAN	512.12	75.00	136.36	345.18
14:47:07	14-JAN	527.12	90.00	136.58	345.78
15:02:07	14-JAN	542.12	105.00	136.80	346.20
15:17:07	14-JAN	557.12	120.00	136.98	346.50
15:31:47	14-JAN	571.78	134.66	137.16	346.62

TEST PHASE: SHUTIN PERIOD # 2 FINAL FLOW PRESSURE = 346.62 PSIA
PRODUCING TIME = 143.16 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
15:31:47	14-JAN	571.78	0.00	137.16	346.62	0.00	
15:32:47	14-JAN	572.78	1.00	137.16	361.89	15.27	2.1588
15:33:47	14-JAN	573.78	2.00	137.17	382.61	35.99	1.8608
15:34:47	14-JAN	574.78	3.00	137.19	402.02	55.40	1.6877
15:35:47	14-JAN	575.78	4.00	137.19	420.88	74.26	1.5657
15:36:47	14-JAN	576.78	5.00	137.21	439.36	92.74	1.4718
15:37:47	14-JAN	577.78	6.00	137.23	457.77	111.15	1.3955
15:38:47	14-JAN	578.78	7.00	137.25	476.15	129.53	1.3315
15:39:47	14-JAN	579.78	8.00	137.25	494.53	147.91	1.2763
15:40:47	14-JAN	580.78	9.00	137.26	512.77	166.15	1.2281
15:41:47	14-JAN	581.78	10.00	137.26	531.06	184.44	1.1851
15:43:47	14-JAN	583.78	12.00	137.30	567.70	221.08	1.1116
15:45:47	14-JAN	585.78	14.00	137.32	604.85	258.23	1.0502
15:47:47	14-JAN	587.78	16.00	137.34	641.79	295.17	0.9977
15:49:47	14-JAN	589.78	18.00	137.35	679.11	332.49	0.9520
15:51:47	14-JAN	591.78	20.00	137.37	717.17	370.55	0.9116
15:53:47	14-JAN	593.78	22.00	137.41	755.36	408.74	0.8755
15:55:47	14-JAN	595.78	24.00	137.43	793.93	447.31	0.8429
15:57:47	14-JAN	597.78	26.00	137.44	833.05	486.43	0.8133
15:59:47	14-JAN	599.78	28.00	137.46	872.56	525.94	0.7862
16:01:47	14-JAN	601.78	30.00	137.48	912.55	565.93	0.7613
16:06:47	14-JAN	606.78	35.00	137.52	1014.26	667.64	0.7067
16:11:47	14-JAN	611.78	40.00	137.55	1118.98	772.36	0.6608
16:16:47	14-JAN	616.78	45.00	137.61	1226.65	880.03	0.6213
16:21:47	14-JAN	621.78	50.00	137.64	1337.06	990.44	0.5869
16:26:47	14-JAN	626.78	55.00	137.68	1450.67	1104.05	0.5567
16:31:47	14-JAN	631.78	60.00	137.71	1566.56	1219.94	0.5297
16:36:47	14-JAN	636.78	65.00	137.73	1684.90	1338.28	0.5055
16:41:47	14-JAN	641.78	70.00	137.77	1804.54	1457.92	0.4836
16:46:47	14-JAN	646.78	75.00	137.79	1925.36	1578.74	0.4637
16:51:47	14-JAN	651.78	80.00	137.82	2047.31	1700.69	0.4455
16:56:47	14-JAN	656.78	85.00	137.84	2169.67	1823.05	0.4288
17:01:47	14-JAN	661.78	90.00	137.88	2291.38	1944.76	0.4134
17:06:47	14-JAN	666.78	95.00	137.89	2411.75	2065.13	0.3991
17:11:47	14-JAN	671.78	100.00	137.91	2529.61	2182.99	0.3859
17:16:47	14-JAN	676.78	105.00	137.93	2643.67	2297.05	0.3735
17:21:47	14-JAN	681.78	110.00	137.95	2753.11	2406.49	0.3620
17:26:47	14-JAN	686.78	115.00	137.97	2857.16	2510.54	0.3512
17:31:47	14-JAN	691.78	120.00	137.98	2954.84	2608.22	0.3410
17:36:47	14-JAN	696.78	125.00	138.00	3045.37	2698.75	0.3315
17:41:47	14-JAN	701.78	130.00	138.00	3128.92	2782.30	0.3225
17:46:47	14-JAN	706.78	135.00	138.02	3205.39	2858.77	0.3140
17:51:47	14-JAN	711.78	140.00	138.02	3275.06	2928.44	0.3059
17:56:47	14-JAN	716.78	145.00	138.02	3338.24	2991.62	0.2983
18:01:47	14-JAN	721.78	150.00	138.02	3393.32	3046.70	0.2910
18:06:47	14-JAN	726.78	155.00	138.02	3444.75	3098.13	0.2841
18:11:47	14-JAN	731.78	160.00	138.04	3487.27	3140.65	0.2776
18:16:47	14-JAN	736.78	165.00	138.02	3529.19	3182.57	0.2713
18:21:47	14-JAN	741.78	170.00	138.02	3566.31	3219.69	0.2653
18:26:47	14-JAN	746.78	175.00	138.02	3599.37	3252.75	0.2596

TEST PHASE: SHUTIN PERIOD # 2 FINAL FLOW PRESSURE = 346.62 PSIA
PRODUCING TIME = 143.16 MIN

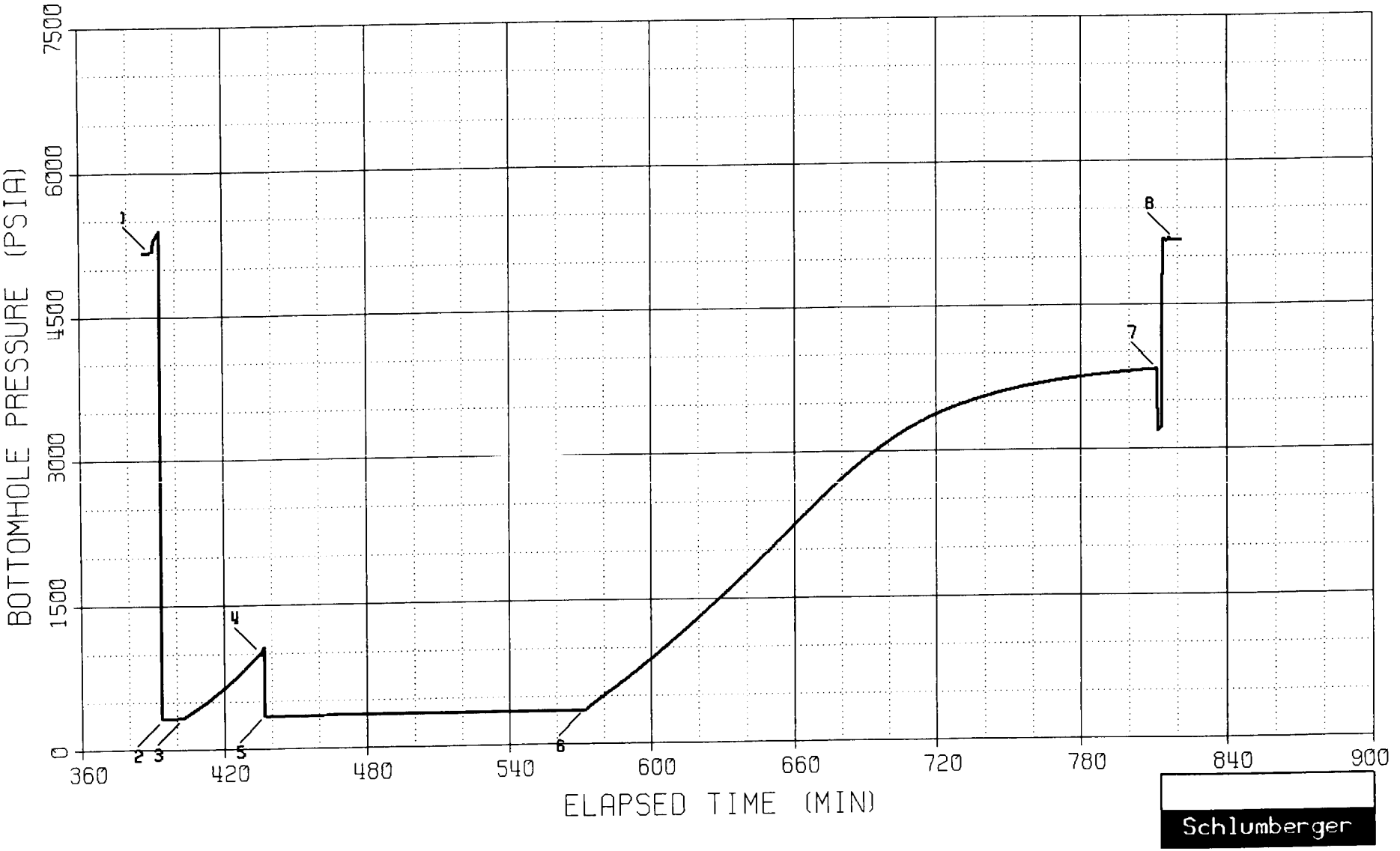
TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
18:31:47	14-JAN	751.78	180.00	138.02	3628.98	3282.36	0.2541
18:46:47	14-JAN	766.78	195.00	138.02	3700.75	3354.13	0.2391
19:01:47	14-JAN	781.78	210.00	138.00	3752.88	3406.26	0.2258
19:16:47	14-JAN	796.78	225.00	138.00	3793.64	3447.02	0.2139
19:31:27	14-JAN	811.45	239.67	138.00	3823.54	3476.92	0.2034

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 6722651
INSTRUMENT NO. SLSR-777
DEPTH : 10769 FT
CAPACITY : 10000 PSI
PORT OPENING : INSIDE

COMPANY : PHILLIPS PETROLEUM
WELL : W. MALJAMAR-7 #1, DST #1

Electronic Pressure Data

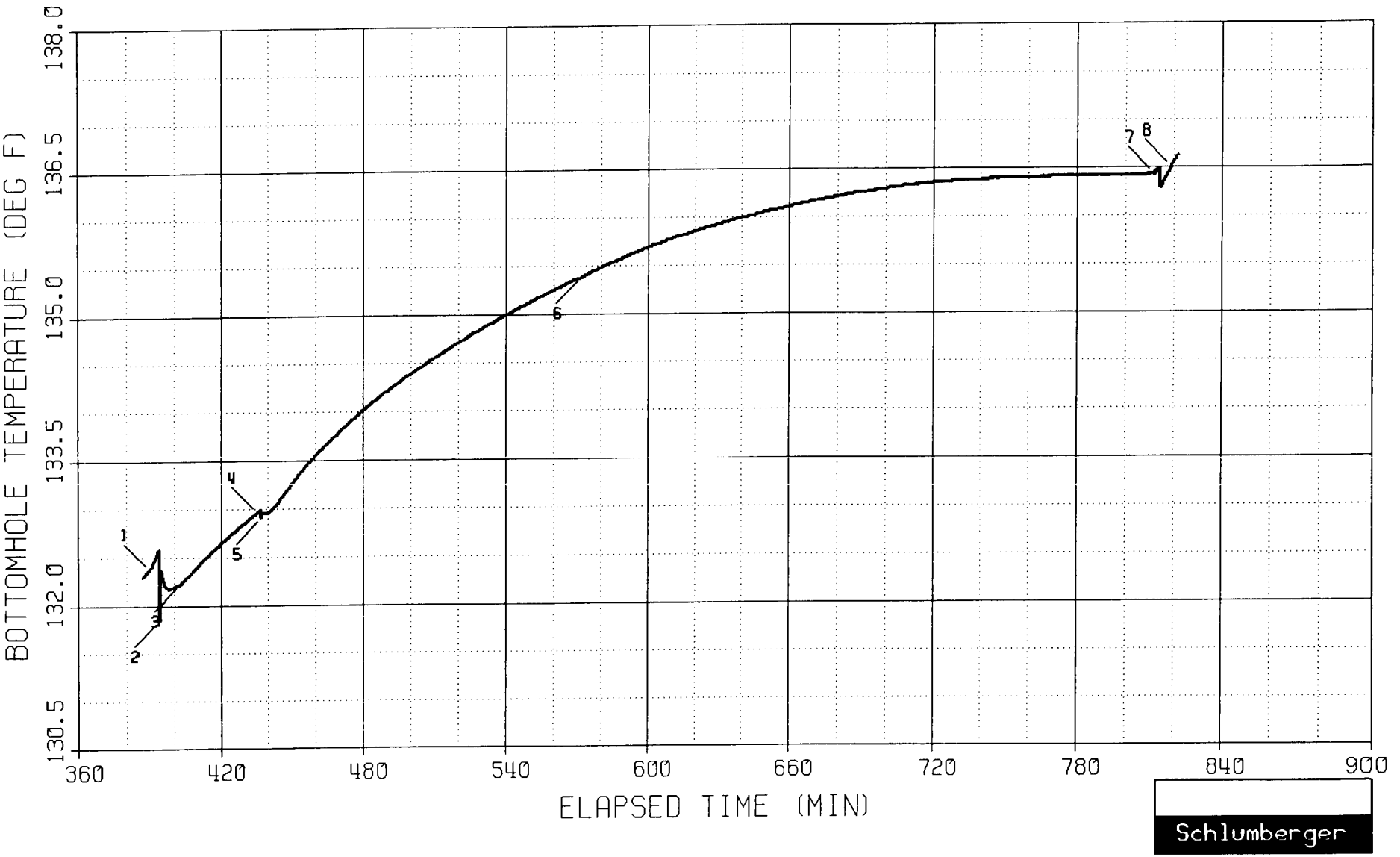


BOTTOMHOLE TEMPERATURE LOG

FIELD REPORT NO. 6722651
INSTRUMENT NO. SLSR-777
DEPTH : 10769 FT

COMPANY : PHILLIPS PETROLEUM
WELL : W. MALJAMAR-7 #1, DST #1

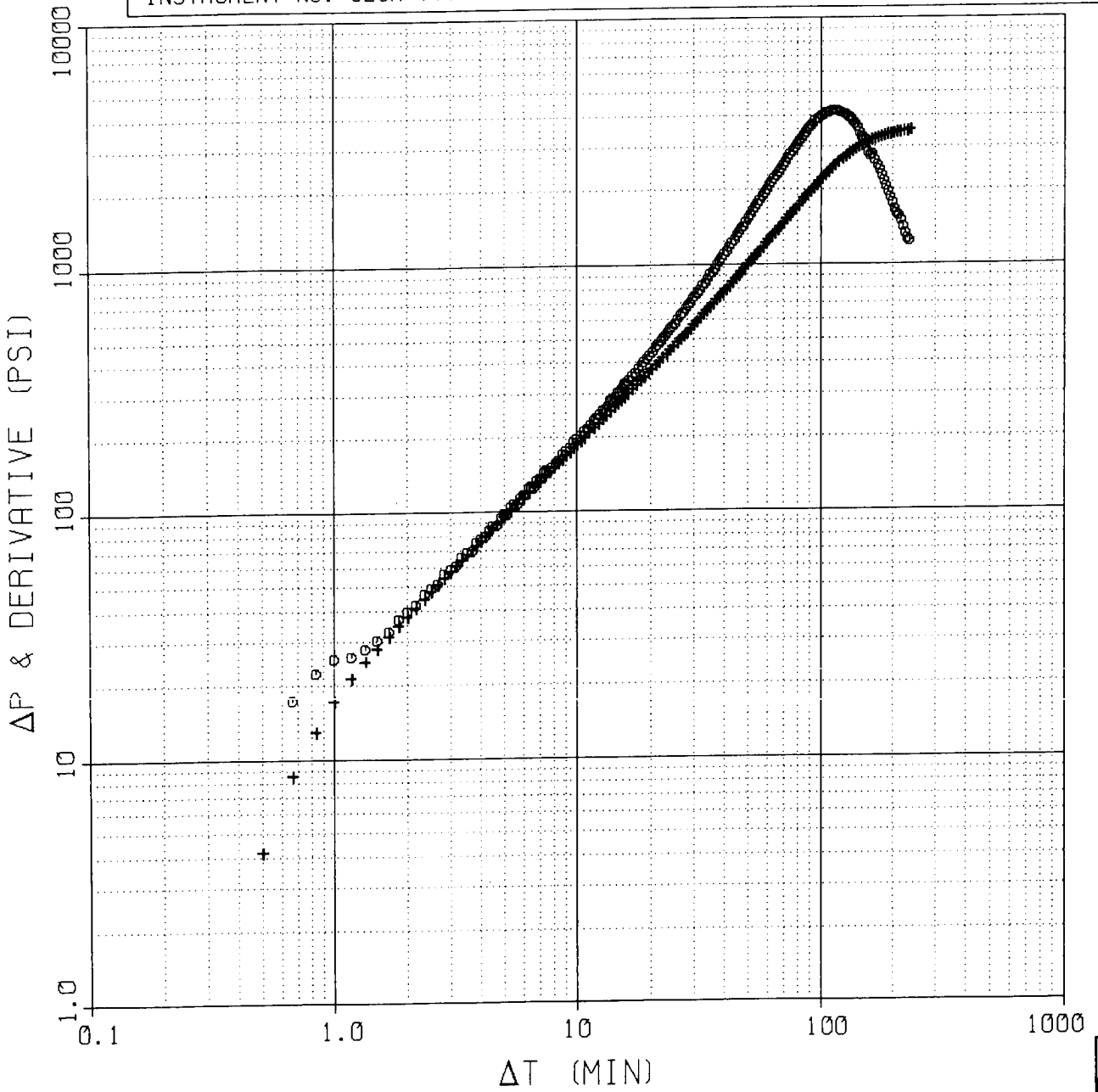
Electronic Temperature Data



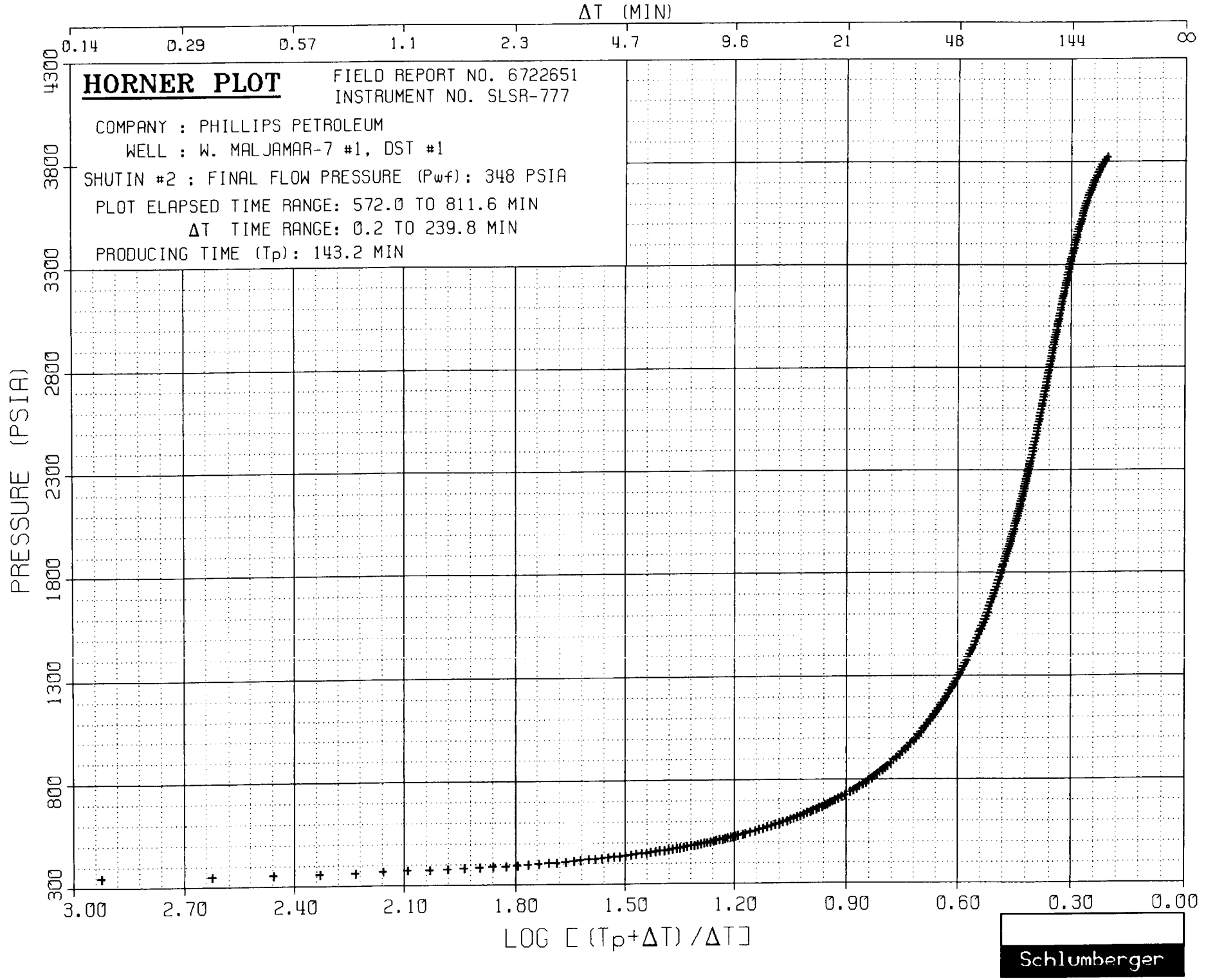
LOG LOG PLOT

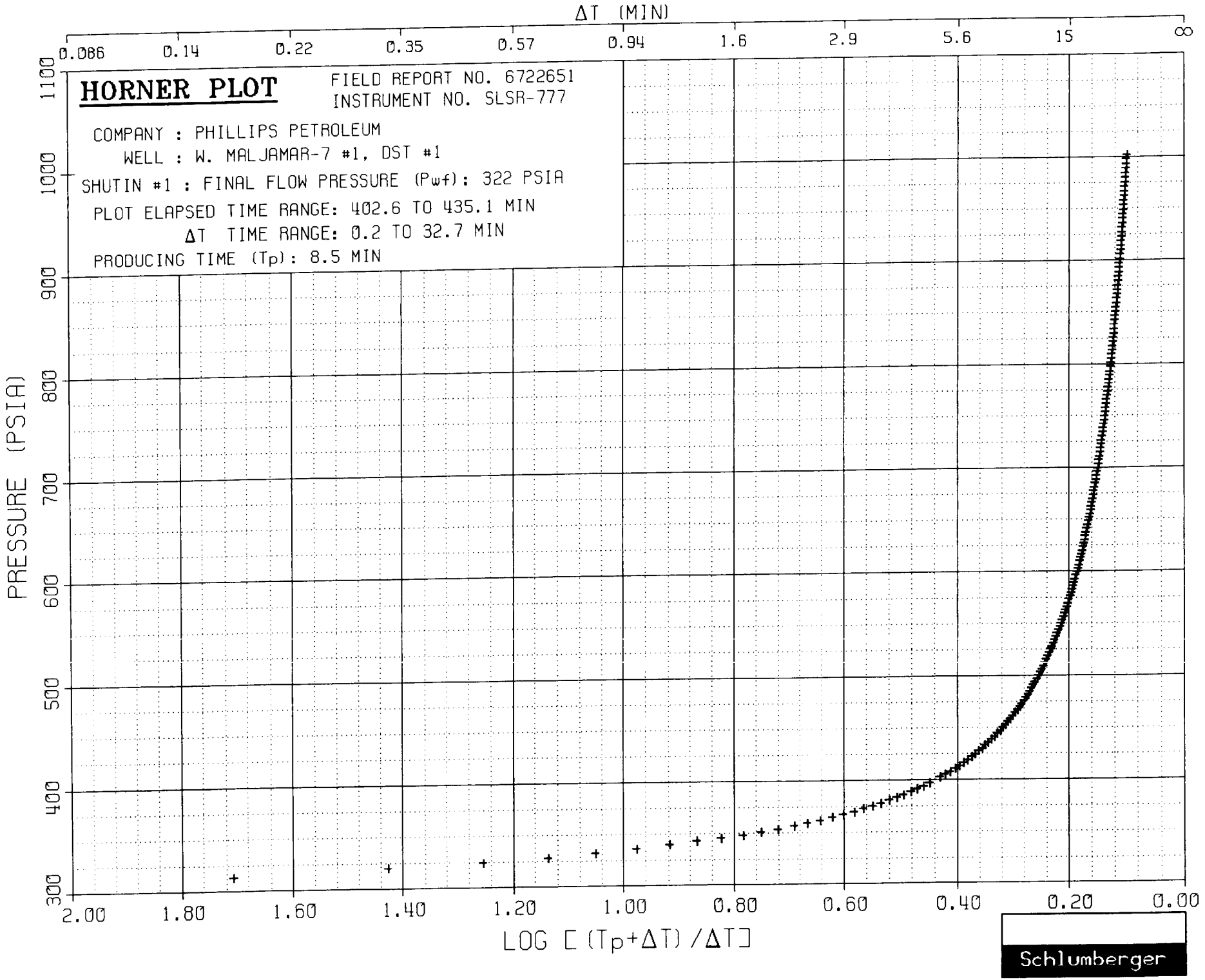
COMPANY : PHILLIPS PETROLEUM
WELL : W. MALJAMAR-7 #1, DST #1
FIELD REPORT NO. 6722651
INSTRUMENT NO. SLSR-777

SHUTIN #2 : PRODUCING TIME (Tp): 143.2 MIN
FINAL FLOW PRESSURE (Pwf): 348 PSIA
PLOT ELAPSED TIME RANGE: 572.3 TO 811.6 MIN
ΔT TIME RANGE: 0.5 TO 239.8 MIN



Schlumberger


ΔT (MIN)
0.14
0.29
0.57
1.1
2.3
4.7
9.6
21
48
144
∞
HORNER PLOT
FIELD REPORT NO. 6722651
INSTRUMENT NO. SLSR-777
COMPANY : PHILLIPS PETROLEUM
WELL : W. MALJAMAR-7 #1, DST #1
SHUTIN #2 : FINAL FLOW PRESSURE (Pwf): 348 PSIA
PLOT ELAPSED TIME RANGE: 572.0 TO 811.6 MIN
ΔT TIME RANGE: 0.2 TO 239.8 MIN
PRODUCING TIME (Tp): 143.2 MIN
PRESSURE (PSIA)
4300
3800
3300
2800
2300
1800
1300
800
300
3.00
2.70
2.40
2.10
1.80
1.50
1.20
0.90
0.60
0.30
0.00
LOG [(Tp+ΔT)/ΔT]
Schlumberger


ΔT (MIN)
0.086
0.14
0.22
0.35
0.57
0.94
1.6
2.9
5.6
15
∞
HORNER PLOT
FIELD REPORT NO. 6722651
INSTRUMENT NO. SLSR-777
COMPANY : PHILLIPS PETROLEUM
WELL : W. MALJAMAR-7 #1, DST #1
SHUTIN #1 : FINAL FLOW PRESSURE (Pwf): 322 PSIA
PLOT ELAPSED TIME RANGE: 402.6 TO 435.1 MIN
ΔT TIME RANGE: 0.2 TO 32.7 MIN
PRODUCING TIME (Tp): 8.5 MIN
PRESSURE (PSIA)
1100
1000
900
800
700
600
500
400
300
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
LOG [(Tp+ΔT)/ΔT]
Schlumberger

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

COMPANY: PHILLIPS PETROLEUM
WELL: W. MALJAMAR-7 #1, DST #1

FIELD REPORT NO. 6722651
INSTRUMENT NO. SLSR-777

RECORDER CAPACITY: 10000 PSI PORT OPENING: INSIDE DEPTH: 10769 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	12:29:27	14-JAN	HYDROSTATIC MUD	389.45	5172.57	132.37
2	12:33:57	14-JAN	START FLOW	393.95	313.30	131.85
3	12:42:27	14-JAN	END FLOW & START SHUT-IN	402.45	322.12	132.22
4	13:15:07	14-JAN	END SHUT-IN	435.12	1001.28	132.96
5	13:17:07	14-JAN	START FLOW	437.12	340.39	132.91
6	15:31:47	14-JAN	END FLOW & START SHUT-IN	571.78	347.68	135.39
7	19:31:37	14-JAN	END SHUT-IN	811.62	3824.61	136.44
8	19:38:57	14-JAN	HYDROSTATIC MUD	818.95	5171.94	136.51

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	393.95	402.45	8.50	313.30	322.12	313.30
2	437.12	571.78	134.66	340.39	347.68	340.39

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	402.45	435.12	32.67	322.12	1001.28	322.12	8.50
2	571.78	811.62	239.84	347.68	3824.61	347.68	143.16

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
12:33:57	14-JAN	393.95	0.00	131.85	313.30
12:42:27	14-JAN	402.45	8.50	132.22	322.12

TEST PHASE: SHUTIN PERIOD # 1

FINAL FLOW PRESSURE = 322.12 PSIA
PRODUCING TIME = 8.50 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
12:42:27	14-JAN	402.45	0.00	132.22	322.12	0.00	
12:43:27	14-JAN	403.45	1.00	132.26	336.11	13.99	0.9777
12:44:27	14-JAN	404.45	2.00	132.28	353.67	31.55	0.7202
12:45:27	14-JAN	405.45	3.00	132.30	369.95	47.83	0.5836
12:46:27	14-JAN	406.45	4.00	132.31	386.04	63.92	0.4949
12:47:27	14-JAN	407.45	5.00	132.35	402.27	80.15	0.4314
12:48:27	14-JAN	408.45	6.00	132.37	418.76	96.64	0.3832
12:49:27	14-JAN	409.45	7.00	132.39	435.58	113.46	0.3452
12:50:27	14-JAN	410.45	8.00	132.42	452.63	130.51	0.3144
12:51:27	14-JAN	411.45	9.00	132.44	470.00	147.88	0.2888
12:52:27	14-JAN	412.45	10.00	132.48	487.70	165.58	0.2672
12:54:27	14-JAN	414.45	12.00	132.51	524.42	202.30	0.2326
12:56:27	14-JAN	416.45	14.00	132.57	562.69	240.57	0.2061
12:58:27	14-JAN	418.45	16.00	132.60	602.74	280.62	0.1850
13:00:27	14-JAN	420.45	18.00	132.66	644.62	322.50	0.1680
13:02:27	14-JAN	422.45	20.00	132.69	688.27	366.15	0.1538
13:04:27	14-JAN	424.45	22.00	132.75	733.68	411.56	0.1419
13:06:27	14-JAN	426.45	24.00	132.78	780.81	458.69	0.1317
13:08:27	14-JAN	428.45	26.00	132.82	829.54	507.42	0.1228
13:10:27	14-JAN	430.45	28.00	132.85	879.84	557.72	0.1151
13:12:27	14-JAN	432.45	30.00	132.91	931.32	609.20	0.1083
13:15:07	14-JAN	435.12	32.67	132.96	1001.28	679.16	0.1004

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
13:17:07	14-JAN	437.12	0.00	132.91	340.39
13:32:07	14-JAN	452.12	15.00	133.32	340.27
13:47:07	14-JAN	467.12	30.00	133.74	342.11
14:02:07	14-JAN	482.12	45.00	134.06	343.92
14:17:07	14-JAN	497.12	60.00	134.35	344.98
14:32:07	14-JAN	512.12	75.00	134.58	346.41
14:47:07	14-JAN	527.12	90.00	134.82	346.95
15:02:07	14-JAN	542.12	105.00	135.03	347.33
15:17:07	14-JAN	557.12	120.00	135.21	347.56
15:31:47	14-JAN	571.78	134.66	135.39	347.68

TEST PHASE: SHUTIN PERIOD # 2 FINAL FLOW PRESSURE = 347.68 PSIA
PRODUCING TIME = 143.16 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
15:31:47	14-JAN	571.78	0.00	135.39	347.68	0.00	
15:32:47	14-JAN	572.78	1.00	135.39	364.81	17.13	2.1588
15:33:47	14-JAN	573.78	2.00	135.41	385.56	37.88	1.8608
15:34:47	14-JAN	574.78	3.00	135.41	404.84	57.16	1.6877
15:35:47	14-JAN	575.78	4.00	135.43	423.66	75.98	1.5657
15:36:47	14-JAN	576.78	5.00	135.45	442.23	94.55	1.4718
15:37:47	14-JAN	577.78	6.00	135.46	460.66	112.98	1.3955
15:38:47	14-JAN	578.78	7.00	135.46	479.06	131.38	1.3315
15:39:47	14-JAN	579.78	8.00	135.48	497.35	149.67	1.2763
15:40:47	14-JAN	580.78	9.00	135.50	515.65	167.97	1.2281
15:41:47	14-JAN	581.78	10.00	135.50	533.93	186.25	1.1851
15:43:47	14-JAN	583.78	12.00	135.54	570.56	222.88	1.1116
15:45:47	14-JAN	585.78	14.00	135.55	607.37	259.69	1.0502
15:47:47	14-JAN	587.78	16.00	135.57	644.37	296.69	0.9977
15:49:47	14-JAN	589.78	18.00	135.59	681.76	334.08	0.9520
15:51:47	14-JAN	591.78	20.00	135.61	719.52	371.84	0.9116
15:53:47	14-JAN	593.78	22.00	135.63	757.71	410.03	0.8755
15:55:47	14-JAN	595.78	24.00	135.64	796.35	448.67	0.8429
15:57:47	14-JAN	597.78	26.00	135.66	835.41	487.73	0.8133
15:59:47	14-JAN	599.78	28.00	135.68	874.95	527.27	0.7862
16:01:47	14-JAN	601.78	30.00	135.72	914.85	567.17	0.7613
16:06:47	14-JAN	606.78	35.00	135.75	1016.55	668.87	0.7067
16:11:47	14-JAN	611.78	40.00	135.79	1121.15	773.47	0.6608
16:16:47	14-JAN	616.78	45.00	135.82	1228.90	881.22	0.6213
16:21:47	14-JAN	621.78	50.00	135.88	1339.17	991.49	0.5869
16:26:47	14-JAN	626.78	55.00	135.91	1452.73	1105.05	0.5567
16:31:47	14-JAN	631.78	60.00	135.93	1568.71	1221.03	0.5297
16:36:47	14-JAN	636.78	65.00	135.97	1686.86	1339.18	0.5055
16:41:47	14-JAN	641.78	70.00	136.00	1806.56	1458.88	0.4836
16:46:47	14-JAN	646.78	75.00	136.04	1927.31	1579.63	0.4637
16:51:47	14-JAN	651.78	80.00	136.08	2049.28	1701.60	0.4455
16:56:47	14-JAN	656.78	85.00	136.09	2171.50	1823.82	0.4288
17:01:47	14-JAN	661.78	90.00	136.13	2293.20	1945.52	0.4134
17:06:47	14-JAN	666.78	95.00	136.15	2413.48	2065.80	0.3991
17:11:47	14-JAN	671.78	100.00	136.18	2531.35	2183.67	0.3859
17:16:47	14-JAN	676.78	105.00	136.20	2645.46	2297.78	0.3735
17:21:47	14-JAN	681.78	110.00	136.22	2754.76	2407.08	0.3620
17:26:47	14-JAN	686.78	115.00	136.26	2858.86	2511.18	0.3512
17:31:47	14-JAN	691.78	120.00	136.26	2956.55	2608.87	0.3410
17:36:47	14-JAN	696.78	125.00	136.29	3047.16	2699.48	0.3315
17:41:47	14-JAN	701.78	130.00	136.31	3130.68	2783.00	0.3225
17:46:47	14-JAN	706.78	135.00	136.33	3207.41	2859.73	0.3140
17:51:47	14-JAN	711.78	140.00	136.33	3277.21	2929.53	0.3059
17:56:47	14-JAN	716.78	145.00	136.35	3340.17	2992.49	0.2983
18:01:47	14-JAN	721.78	150.00	136.36	3395.13	3047.45	0.2910
18:06:57	14-JAN	726.95	155.17	136.36	3448.05	3100.37	0.2839
18:11:57	14-JAN	731.95	160.17	136.38	3490.36	3142.68	0.2773
18:16:57	14-JAN	736.95	165.17	136.38	3532.10	3184.42	0.2711
18:21:57	14-JAN	741.95	170.17	136.38	3568.99	3221.31	0.2651
18:26:57	14-JAN	746.95	175.17	136.40	3601.93	3254.25	0.2594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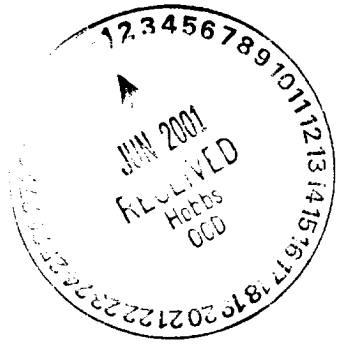
TEST PHASE: SHUTIN PERIOD # 2 FINAL FLOW PRESSURE = 347.68 PSIA
PRODUCING TIME = 143.16 MIN

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
18:31:57	14-JAN	751.95	180.17	136.40	3631.42	3283.74	0.2540
18:46:57	14-JAN	766.95	195.17	136.40	3702.84	3355.16	0.2389
19:01:57	14-JAN	781.95	210.17	136.42	3754.79	3407.11	0.2256
19:16:57	14-JAN	796.95	225.17	136.42	3795.48	3447.80	0.2137
19:31:37	14-JAN	811.62	239.84	136.44	3824.61	3476.93	0.2033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SCHLUMBERGER has sent copies of this report to the following:

PHILLIPS PETROLEUM CO.
4001 PENBROOK
ODESSA, TX 79762
Attn: TIM HARRINGTON
(4 copies)

MACK ENERGY CORPORATION
P.O. BOX 960
ARTESIA, NM 88211
Attn: TONY HALL
(2 copies)


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Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
811 South First, Artesia, NM 87210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-103
Revised March 25, 1999

WELL API NO. 30-025-35189
5. Indicate Type of Lease: STATE [X] FEE [ ]
6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well [ ] Gas Well [X] Other
2. Name of Operator: Phillips Petroleum Company
3. Address of Operator: 4001 Penbrook Street Odessa, TX 79762
4. Well Location: Unit Letter J : 1669 feet from the SOUTH line and 1422 feet from the EAST line. Section 7 Township 17-S Range 33-E NMPM LEA County NM

7. Lease Name or Unit Agreement Name: WEST MALJAMAR -7-
8. Well No. 1
9. Pool name or Wildcat: WILDCAT (ATOKA-~~MORROW~~)
10. Elevation (*Show whether DR, RKB, RT, GR, etc.*) 4217' GR, 4234' KB

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:			
PERFORM REMEDIAL WORK	[ ]	PLUG AND ABANDON	[ ]
TEMPORARILY ABANDON	[ ]	CHANGE PLANS	[ ]
PULL OR ALTER CASING	[ ]	MULTIPLE COMPLETION	[ ]
OTHER:			[ ]

SUBSEQUENT REPORT OF:			
REMEDIAL WORK	[ ]	ALTERING CASING	[ ]
COMMENCE DRILLING OPNS.	[ ]	PLUG AND ABANDONMENT	[ ]
CASING TEST AND CEMENT JOB	[ ]		
OTHER: CONT. COMP. WORK, & PERF			[X]

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation.

4-12-01 SWAB/FLOW
4-15-01 RUN BHT SURVEY, JSI, COOH W/RBP AND PKR.
4-16-01 COOH W/RBP AND PKR, GIH W/PROD TBG AND PKR W/GAS LIFT VALVES
4-17-01 PRESS UP ON CSG, 500 PSI, RIH W/ SLICK LINE, RETRIEVE PLUG, FLOWBACK WELL, GET WELL TO FLOW.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE [signature] TITLE SUPERVISOR REGL/PROR. DATE 4-19-01

Type or print name L. M. SANDERS Telephone No. (915)368-1488

(This space for State use)

APPROVED BY ____ TITLE ____ DATE MAY 2001

Conditions of approval, if any:


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Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
811 South First, Artesia, NM 87210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-103
Revised March 25, 1999

WELL API NO. 30-025-35189

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

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2. Name of Operator: Phillips Petroleum Company

8. Well No. 1

3. Address of Operator: 4001 Penbrook Street Odessa, TX 79762

9. Pool name or Wildcat: WILDCAT (ATOKA-MORROW)

4. Well Location

Unit Letter J : 1669 feet from the SOUTH line and 1422 feet from the EAST line

Section 7 Township 17-S Range 33-E NMPM LEA County NM

10. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 4217' GR, 4234' KB

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	[ ]	PLUG AND ABANDON	[ ]	REMEDIAL WORK	[ ]	ALTERING CASING	[ ]
TEMPORARILY ABANDON	[ ]	CHANGE PLANS	[ ]	COMMENCE DRILLING OPNS.	[ ]	PLUG AND ABANDONMENT	[ ]
PULL OR ALTER CASING	[ ]	MULTIPLE COMPLETION	[ ]	CASING TEST AND CEMENT JOB	[ ]		
OTHER:	[ ]			OTHER: CONT. COMP. WORK, PERF & ACIDIZED	[X]		

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation.

10491 Pet CD

3-27-01 (CORRECTION) TBG PRESS 350 PSI. CSG PRESS 0 PSI. SWAB/FLOW
3-28-01 COOH W/RBP-BALL CATCHER, GIH W/RBP-PKR. SET PLUG AND TEST, PULL UP DUMP SAND AND COOH W/PKR.
3-29-01 SHOOT SQUEEZE PERFS, GIH W/PKR, EST INJ RATE-PRESS, COOH W/PKR, GIH W/RETAINER
3-30-01 GIH SET RETAINER, RU CEMENT TRUCK, SQUEEZE 9990-9992.
4-1-01 PU BIT, COLLARS, GIH, TAG, TOC AT 9907', START DRILLING ON CEMENT SQUEEZE.
4-2-01 DRILL OUT CEMENT TEST CASING, WASH OFF RBP, COOH.
4-3-01 LAY DN COLLARS, PERF WOLFCAMP @ 10,003-10,027', GIH W/PKR, SWAB
4-4-01 ACIDIZE AND SWAB UPPER WOLFCAMP.
4-5-01 SWAB
4-6-01 MOVE TOOLS.
4-8-01 ACID FRAC WOLFCAMP, FLOW-SWAB.
4-9-01 SWABBING
4-10-01 SWAB/FLOW

I hereby certify that the information above is true and complete to the best of my knowledge and belief

SIGNATURE [signature] TITLE SUPERVISOR REGL/PROR. DATE 4-19-01

Type or print name L. M. SANDERS Telephone No. (915)368-1488

(This space for State use)

APPROVED BY _____ TITLE _____ DATE MAY 02 2001

Conditions of approval, if any:

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C

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
811 South First, Artesia, NM 87210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-103
Revised March 25, 1999

WELL API NO. 30-025-35189

5. Indicate Type of Lease STATE [x] FEE [ ]

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: WEST MALJAMAR -7-

1. Type of Well: Oil Well [ ] Gas Well [x] Other

2. Name of Operator: Phillips Petroleum Company

8. Well No. 1

3. Address of Operator: 4001 Penbrook Street Odessa, TX 79762

9. Pool name or Wildcat: WILDCAT (ATOKA-MORROW)

4. Well Location

Unit Letter J : 1669 feet from the SOUTH line and 1422 feet from the EAST line

Section 7 Township 17-S Range 33-E NMPM LEA County NM

10. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 4217' GR, 4234' KB

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	[ ]	PLUG AND ABANDON	[ ]	REMEDIAL WORK	[ ]	ALTERING CASING	[ ]
TEMPORARILY ABANDON	[ ]	CHANGE PLANS	[ ]	COMMENCE DRILLING OPNS.	[ ]	PLUG AND ABANDONMENT	[ ]
PULL OR ALTER CASING	[ ]	MULTIPLE COMPLETION	[ ]	CASING TEST AND CEMENT JOB	[ ]		
OTHER:	[ ]			OTHER: CONT. COMP. WORK, PERF & ACIDIZED			[X]

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation.

3-11-01 RU ARC DATA, GIH & CATCH PRESS GUAGES, COOH W/BTM GUAGES, WELL SHUT IN.
3-19-01 ROAD POOL DDU TO LOC AND RU.
3-20-01 SET TBG PLUG, BLEED OFF PRESS, LOAD TBG, ND WELL HEAD, NU BOP, GET OFF PKR COOH.
3-21-01 SWAB, COOH W/TBG, GIH AND SET RBP, COOH. 10900 Per CD
3-22-01 PERFORATE WOLFCAMP INTERVALS @ 10,595' - 10,603', 10,579' - 10584' @ 2 SPF, PU PKR AND TEST TBG IN. SWAB.
3-23-01 SWAB
3-25-01 ACIDIZED WOLFCAMP PERFS W/1500 GALS MOD ACID, SWAB.
3-26-01 SWAB/FLOW
3-27-01 SWAB/FLOW

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE [signature] for L.M.S. TITLE SUPERVISOR REGL/PROR. DATE 3-29-01

Type or print name L. M. SANDERS Telephone No. (915)368-1488

(This space for State use)

APPROVED BY _____ TITLE Orig. Signed by Paul Kautz Geologist DATE _____

Conditions of approval, if any:

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C