REPORT NO. 1189161

PAGE NO. 1

TEST DATE: 10-MAR-1998

S T A R

Schlumberger Testing Data Report

Pressure Data Report

Schlumberger

COMPANY: COBRA OIL & GAS COMPANY

WELL: STATE 30

TEST IDENTIFICATION

Test Type	BHP
Test No.	TWO
Formation	
Test Interval (ft)	14788 to 14795

WELL LOCATION

Field	WILDCAT
County	LEA
State	NEW MEXICO

COMPLETION CONFIGURATION

Total Depth (MD/TVD) (ft)	15273
Casing/Liner I.D. (in)	2.875
Hole Size (in)	6.50
Perforated Interval (ft)	14788 to 14795
Shot Density (shots/ft)	
Perforation Diameter (in)	
Net Pay (ft)	7

TEST STRING CONFIGURATION

Tubing Length (ft)/I.D. (in)	
Tubing Length (ft)/I.D. (in)	
Packer Depth (ft)	
Gauge Depth (ft)/Type	14756/WTQR-1751
Downhole Valve (Y/N)/Type	

TEST CONDITIONS

Tbg/Wellhead Pressure (psi)	
Separator Pressure (psi)	

INTERPRETATION RESULTS

Model of Behavior	
Fluid Type Used for Analysis	
Reservoir Pressure (psi)	
Transmissibility (md.ft/cp)	
Effective Permeability (md)	
Skin Factor	
Storativity Ratio, Omega	
Interporos.Flow Coef.,Lambda	
Distance to an Anomaly (ft)	
Radius of Investigation (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 (%)	10
Reservoir Temperature (F)	210
Form.Vol.Factor (bbl/STB)	

PRODUCTION RATE DURING TEST: Data Report

COMMENTS:

THIS BOTTOM HOLE PRESSURE SURVEY WAS MECHANICALLY SUCCESSFUL. ANY QUESTIONS PLEASE CALL THE HOBBS DISTRICT. THANK YOU FOR USING SCHLUMBERGER TESTING.

3/20/98

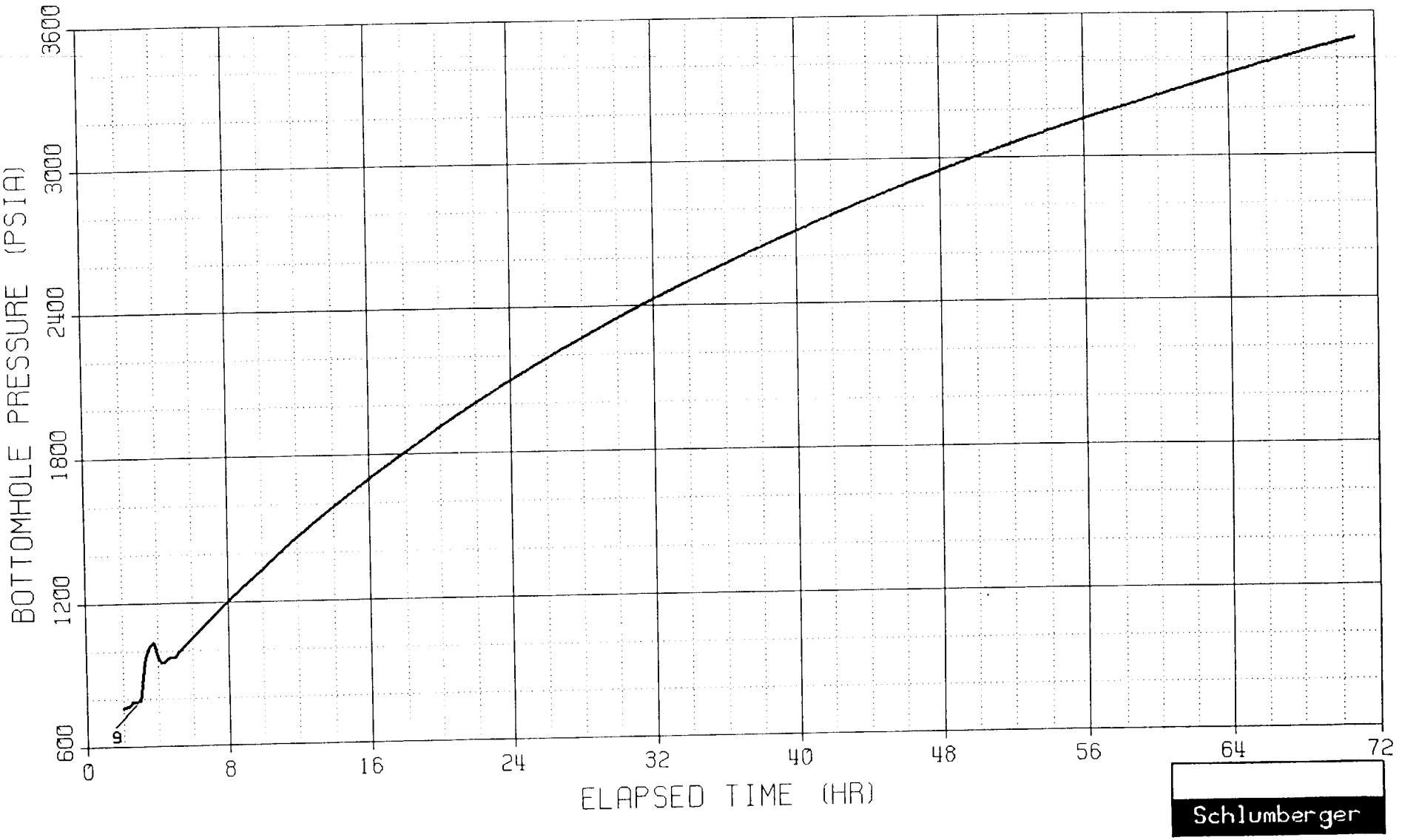
DATE	TIME (HR:MIN)	DESCRIPTION	ET (MINS)	BHP (PSIA)	WHP (PSIG)
10-MAR	09:11	Gradient Stop 0 Ft.	-154	397	
10-MAR	09:34	Gradient Stop 5000 Ft.	-131	571	
10-MAR	09:59	Gradient Stop 10000 Ft.	-106	680	
10-MAR	10:15	Gradient Stop 12000 Ft.	-90	708	
10-MAR	10:29	Gradient Stop 13000 Ft.	-76	719	
10-MAR	10:43	Gradient Stop 14000 Ft.	-62	730	
10-MAR	10:47	Gradient Stop 14756 Ft.	-58	759	
10-MAR	10:47	START FLOW	-58	759	
10-MAR	11:45	END FLOW & START SHUT-IN	0	791	
13-MAR	07:52	END SHUT-IN	4087	3493	
13-MAR	07:52	Gradient Stop 14756 Ft.	4087	3493	
13-MAR	08:06	Gradient Stop 14000 Ft.	4101	3441	
13-MAR	08:20	Gradient Stop 13000 Ft.	4115	3384	
13-MAR	08:32	Gradient Stop 12000 Ft.	4127	3325	
13-MAR	08:48	Gradient Stop 10000 Ft.	4143	3201	
13-MAR	09:09	Gradient Stop 5000 Ft.	4164	2873	
13-MAR	09:33	Gradient Stop 0 Ft.	4188	2543	

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 1189161
INSTRUMENT NO. WTQR-1751
DEPTH : 14756 FT
CAPACITY : 16000 PSI
PORT OPENING : INSIDE

COMPANY : COBRA OIL & GAS COMPANY
WELL : STATE 30

Electronic Pressure Data

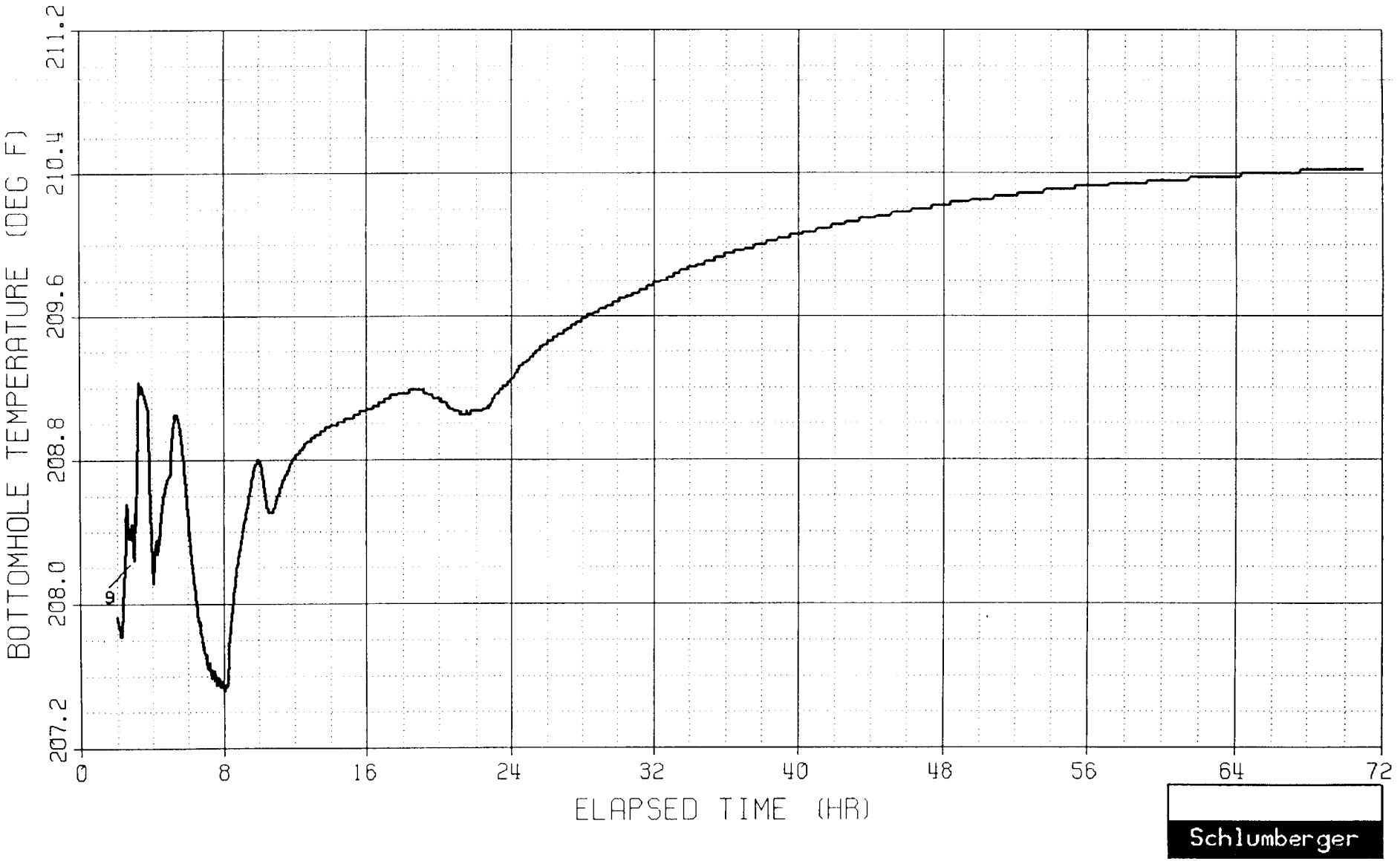


BOTTOMHOLE TEMPERATURE LOG

FIELD REPORT NO. 1189161
INSTRUMENT NO. WTQR-1751
DEPTH : 14756 FT

COMPANY : COBRA OIL & GAS COMPANY
WELL : STATE 30

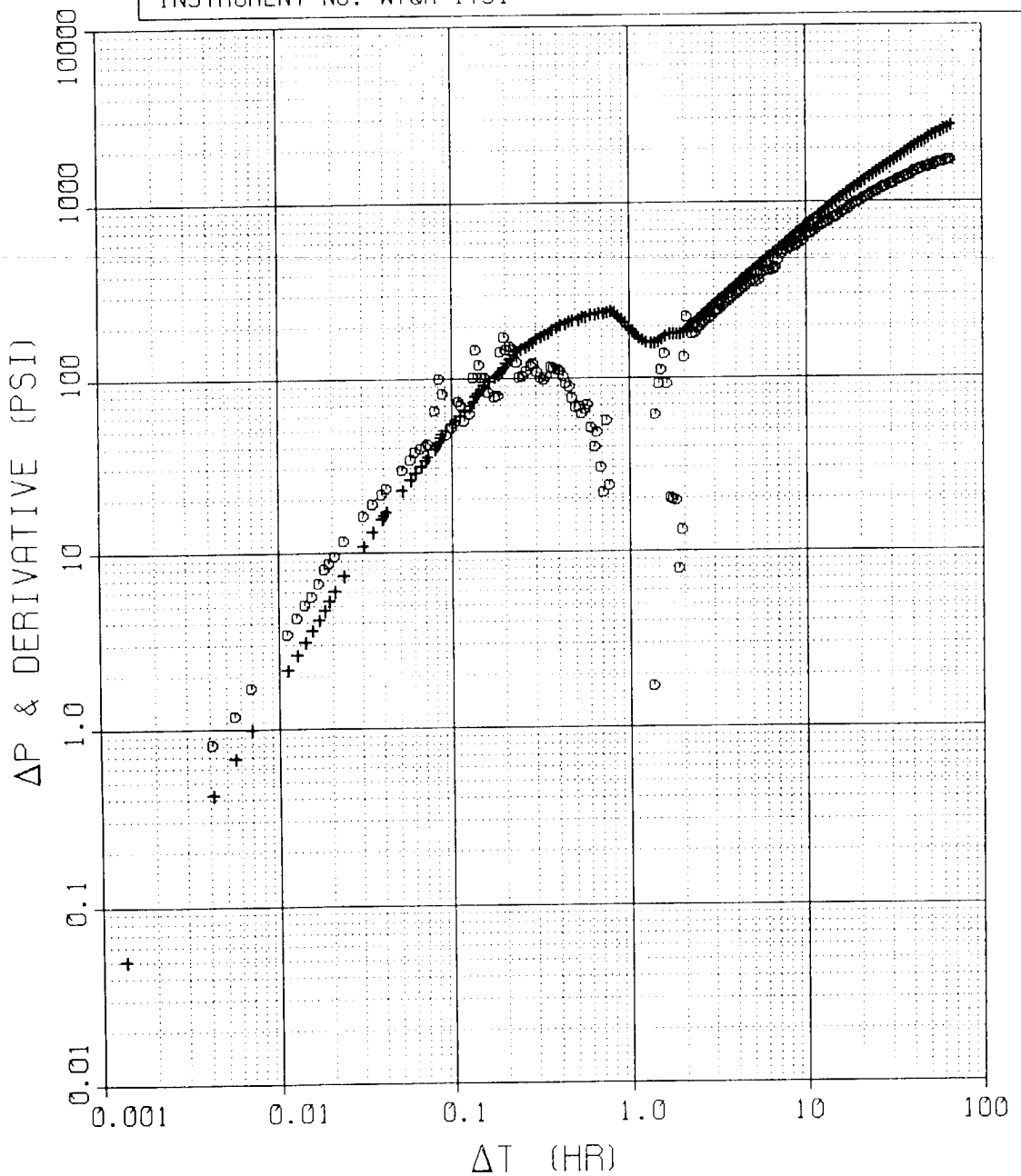
Electronic Temperature Data



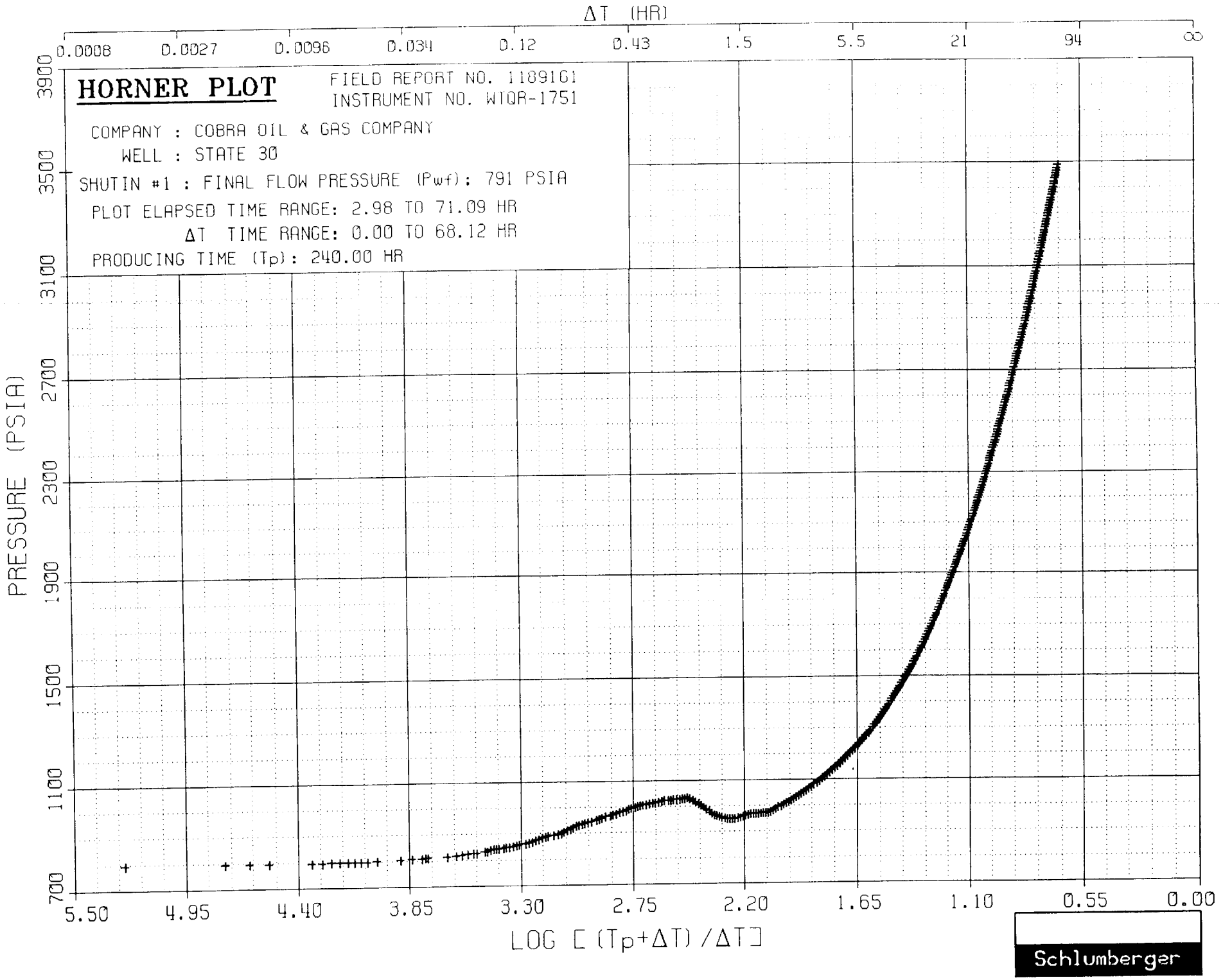
LOG LOG PLOT

COMPANY : COBRA OIL & GAS COMPANY
WELL : STATE 30
FIELD REPORT NO. 1189161
INSTRUMENT NO. WTQR-1751

SHUTIN #1 : PRODUCING TIME (Tp): 240.00 HR
FINAL FLOW PRESSURE (Pwf): 791 PSIA
PLOT ELAPSED TIME RANGE: 2.98 TO 71.09 HR
ΔT TIME RANGE: 0.00 TO 68.12 HR



Schlumberger


ΔT (HR)
0.0008
0.0027
0.0096
0.034
0.12
0.43
1.5
5.5
21
94
∞
HORNER PLOT
FIELD REPORT NO. 1189161
INSTRUMENT NO. WIQR-1751
COMPANY : COBRA OIL & GAS COMPANY
WELL : STATE 30
SHUTIN #1 : FINAL FLOW PRESSURE (Pwf): 791 PSIA
PLOT ELAPSED TIME RANGE: 2.98 TO 71.09 HR
ΔT TIME RANGE: 0.00 TO 68.12 HR
PRODUCING TIME (Tp): 240.00 HR
PRESSURE (PSIA)
3900
3500
3100
2700
2300
1900
1500
1100
700
5.50
4.95
4.40
3.85
3.30
2.75
2.20
1.65
1.10
0.55
0.00
LOG [(Tp+ΔT)/ΔT]
Schlumberger

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** WELL TEST DATA PRINTOUT **
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COMPANY: COBRA OIL & GAS COMPANY
WELL: STATE 30

FIELD REPORT NO. 1189161
INSTRUMENT NO. WTQR-1751

RECORDER CAPACITY: 16000 PSI PORT OPENING: INSIDE DEPTH: 14756 FT

LABEL POINT INFORMATION
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#	TIME OF DAY HH:MM:SS	DATE DD-MMM	EXPLANATION	ELAPSED TIME, HR	BOT HOLE PRESSURE PSIA	BOT HOLE TEMP. DEG F	DEPTH FT
1	9:11:44	10-MAR	GRADIENT STOP	0.407	396.57	61.83	0.0
2	9:34:59	10-MAR	GRADIENT STOP	0.794	570.94	99.03	5000.0
3	9:59:49	10-MAR	GRADIENT STOP	1.208	680.32	150.53	10000.0
4	10:15:34	10-MAR	GRADIENT STOP	1.471	707.62	174.63	12000.0
5	10:29:39	10-MAR	GRADIENT STOP	1.705	719.23	188.13	13000.0
6	10:43:14	10-MAR	GRADIENT STOP	1.932	729.82	202.93	14000.0
7	10:47:19	10-MAR	GRADIENT STOP	2.000	759.12	207.88	14756.0
8	10:47:19	10-MAR	START FLOW	2.000	759.12	207.88	
9	11:45:54	10-MAR	END FLOW & START SHUT-IN	2.976	790.62	208.24	
10	7:52:54	13-MAR	END SHUT-IN	71.093	3493.21	210.42	
11	7:52:54	13-MAR	GRADIENT STOP	71.093	3493.21	210.42	14756.0
12	8:06:24	13-MAR	GRADIENT STOP	71.318	3440.92	201.09	14000.0
13	8:20:24	13-MAR	GRADIENT STOP	71.551	3383.77	185.47	13000.0
14	8:32:49	13-MAR	GRADIENT STOP	71.758	3324.65	173.05	12000.0
15	8:48:49	13-MAR	GRADIENT STOP	72.025	3201.15	149.36	10000.0
16	9:09:49	13-MAR	GRADIENT STOP	72.375	2872.88	97.81	5000.0
17	9:33:04	13-MAR	GRADIENT STOP	72.762	2543.36	57.06	0.0

SUMMARY OF FLOW PERIODS
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PERIOD	START ELAPSED TIME, HR	END ELAPSED TIME, HR	DURATION HR	START PRESSURE PSIA	END PRESSURE PSIA	INITIAL PRESSURE PSIA
1	2.000	2.976	0.977	759.12	790.62	759.12

SUMMARY OF SHUTIN PERIODS
****

PERIOD	START ELAPSED TIME, HR	END ELAPSED TIME, HR	DURATION HR	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, HR
1	2.976	71.093	68.117	790.62	3493.21	790.62	240.00

TEST PHASE: FLOW PERIOD # 1

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
10:47:19	10-MAR	2.000	0.000	207.88	759.12
10:52:19	10-MAR	2.083	0.083	207.90	762.46
10:57:19	10-MAR	2.166	0.167	207.84	763.47
11:02:24	10-MAR	2.251	0.252	207.82	765.80
11:07:24	10-MAR	2.335	0.335	207.95	769.18
11:12:24	10-MAR	2.418	0.418	208.13	774.67
11:17:24	10-MAR	2.501	0.502	208.35	783.87
11:22:34	10-MAR	2.587	0.587	208.54	786.92
11:27:34	10-MAR	2.671	0.671	208.36	784.97
11:32:39	10-MAR	2.755	0.756	208.36	788.06
11:37:39	10-MAR	2.839	0.839	208.44	786.09
11:42:39	10-MAR	2.922	0.922	208.38	791.30
11:45:54	10-MAR	2.976	0.977	208.24	790.62

TEST PHASE: SHUTIN PERIOD # 1 FINAL FLOW PRESSURE = 790.62 PSIA
PRODUCING TIME = 240.00 HR

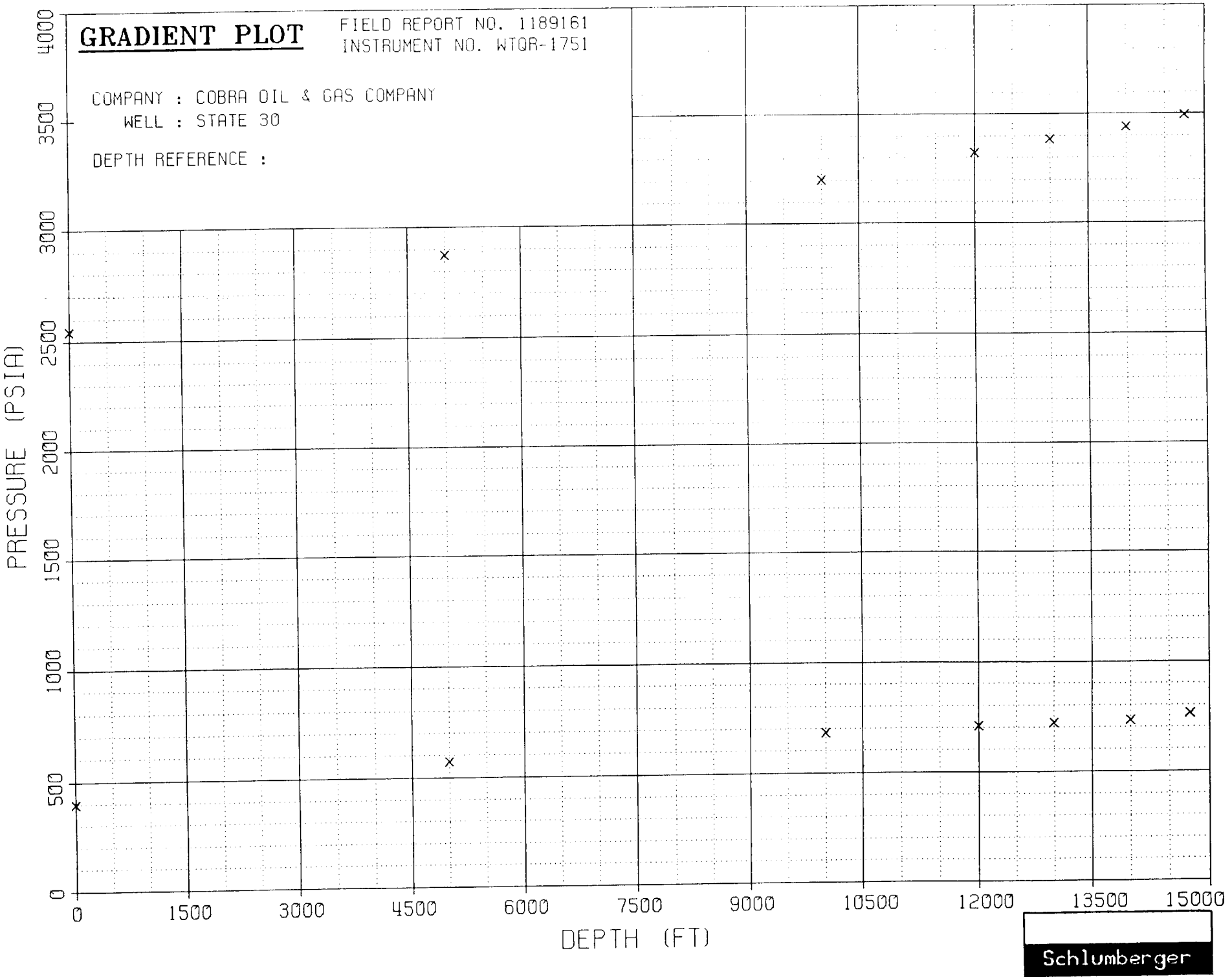
TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
11:45:54	10-MAR	2.976	0.000	208.24	790.62	0.00	
11:46:34	10-MAR	2.987	0.011	208.27	792.76	2.14	4.3388
11:47:19	10-MAR	3.000	0.023	208.33	797.92	7.30	4.0092
11:47:59	10-MAR	3.011	0.035	208.38	803.64	13.02	3.8404
11:48:59	10-MAR	3.027	0.051	208.44	812.84	22.22	3.6699
11:49:49	10-MAR	3.041	0.065	208.47	821.03	30.41	3.5663
11:50:39	10-MAR	3.055	0.079	208.51	828.99	38.37	3.4818
11:51:19	10-MAR	3.066	0.090	208.44	840.25	49.63	3.4253
11:51:59	10-MAR	3.077	0.101	208.45	845.90	55.28	3.3746
11:53:29	10-MAR	3.102	0.126	208.54	859.57	68.95	3.2789
11:54:44	10-MAR	3.123	0.147	208.62	876.79	86.17	3.2127
11:56:24	10-MAR	3.151	0.175	208.74	891.96	101.34	3.1375
11:57:39	10-MAR	3.172	0.196	208.83	904.22	113.60	3.0887
11:58:54	10-MAR	3.193	0.217	208.96	919.55	128.93	3.0448
12:00:09	10-MAR	3.214	0.237	209.12	932.49	141.87	3.0050
12:01:24	10-MAR	3.235	0.258	209.17	940.80	150.18	2.9685
12:02:44	10-MAR	3.257	0.280	209.21	950.03	159.41	2.9328
12:03:59	10-MAR	3.277	0.301	209.23	958.81	168.19	2.9017
12:05:29	10-MAR	3.303	0.326	209.19	966.88	176.26	2.8671
12:06:49	10-MAR	3.325	0.348	209.17	973.40	182.78	2.8386
12:08:04	10-MAR	3.345	0.369	209.19	980.00	189.38	2.8135
12:09:19	10-MAR	3.366	0.390	209.19	986.19	195.57	2.7897
12:10:34	10-MAR	3.387	0.411	209.21	992.13	201.51	2.7671
12:11:49	10-MAR	3.408	0.432	209.21	997.28	206.66	2.7457
12:13:04	10-MAR	3.429	0.453	209.21	1001.64	211.02	2.7253
12:14:19	10-MAR	3.450	0.473	209.19	1005.80	215.18	2.7057
12:15:44	10-MAR	3.473	0.497	209.19	1009.07	218.45	2.6846
12:16:59	10-MAR	3.494	0.518	209.17	1012.03	221.41	2.6668
12:22:59	10-MAR	3.594	0.618	209.14	1022.99	232.37	2.5903
12:28:59	10-MAR	3.694	0.718	209.10	1027.94	237.32	2.5254

TEST PHASE: SHUTIN PERIOD # 1 FINAL FLOW PRESSURE = 790.62 PSIA
PRODUCING TIME = 240.00 HR

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
12:35:14	10-MAR	3.798	0.822	208.92	1026.35	235.73	2.4667
12:41:14	10-MAR	3.898	0.922	208.53	1002.38	211.76	2.4171
12:47:19	10-MAR	4.000	1.023	208.24	977.03	186.41	2.3720
12:53:24	10-MAR	4.101	1.125	208.22	960.03	169.41	2.3311
12:59:24	10-MAR	4.201	1.225	208.33	951.32	160.70	2.2943
13:05:24	10-MAR	4.301	1.325	208.29	948.85	158.23	2.2604
13:11:24	10-MAR	4.401	1.425	208.38	953.22	162.60	2.2290
13:17:24	10-MAR	4.501	1.525	208.51	960.57	169.95	2.1997
13:23:39	10-MAR	4.605	1.629	208.60	968.59	177.97	2.1712
13:29:39	10-MAR	4.705	1.729	208.63	969.45	178.83	2.1455
13:35:44	10-MAR	4.807	1.830	208.69	970.62	180.00	2.1209
13:41:44	10-MAR	4.907	1.930	208.71	970.99	180.37	2.0980
13:47:44	10-MAR	5.007	2.030	208.78	974.88	184.26	2.0763
13:53:59	10-MAR	5.111	2.135	208.94	985.85	195.23	2.0547
13:59:59	10-MAR	5.211	2.235	209.03	994.41	203.79	2.0350
14:05:59	10-MAR	5.311	2.335	209.05	1001.96	211.34	2.0162
14:11:59	10-MAR	5.411	2.435	209.03	1009.92	219.30	1.9982
14:18:24	10-MAR	5.518	2.542	208.98	1018.24	227.62	1.9797
14:24:24	10-MAR	5.618	2.642	208.90	1026.08	235.46	1.9631
14:30:24	10-MAR	5.718	2.742	208.81	1033.87	243.25	1.9471
14:36:24	10-MAR	5.818	2.842	208.69	1041.54	250.92	1.9318
14:42:29	10-MAR	5.919	2.943	208.56	1049.31	258.69	1.9167
14:48:34	10-MAR	6.021	3.044	208.45	1057.12	266.50	1.9022
15:48:34	10-MAR	7.021	4.044	207.72	1131.66	341.04	1.7806
16:48:34	10-MAR	8.021	5.044	207.55	1203.51	412.89	1.6864
17:48:39	10-MAR	9.022	6.046	208.38	1270.75	480.13	1.6096
18:48:44	10-MAR	10.023	7.047	208.78	1333.84	543.22	1.5448
19:49:09	10-MAR	11.030	8.054	208.60	1401.85	611.23	1.4885
20:49:59	10-MAR	12.044	9.068	208.81	1465.90	675.28	1.4388
21:49:59	10-MAR	13.044	10.068	208.92	1526.57	735.95	1.3951
22:51:39	10-MAR	14.072	11.096	208.99	1587.92	797.30	1.3547
23:52:14	10-MAR	15.082	12.106	209.03	1646.46	855.84	1.3186
0:52:29	11-MAR	16.086	13.110	209.08	1703.21	912.59	1.2857
1:53:54	11-MAR	17.109	14.133	209.14	1758.94	968.32	1.2548
2:54:04	11-MAR	18.112	15.136	209.17	1811.61	1020.99	1.2268
3:54:49	11-MAR	19.125	16.149	209.19	1862.73	1072.11	1.2004
4:56:39	11-MAR	20.155	17.179	209.12	1914.31	1123.69	1.1752
5:58:24	11-MAR	21.184	18.208	209.05	1964.32	1173.70	1.1517
6:58:29	11-MAR	22.186	19.210	209.07	2012.36	1221.74	1.1301
8:00:24	11-MAR	23.218	20.242	209.17	2060.56	1269.94	1.1091
9:03:04	11-MAR	24.262	21.286	209.28	2108.02	1317.40	1.0890
10:05:04	11-MAR	25.295	22.319	209.39	2153.91	1363.29	1.0701
11:06:09	11-MAR	26.314	23.337	209.46	2197.95	1407.33	1.0525
12:06:09	11-MAR	27.314	24.337	209.53	2240.19	1449.57	1.0359
13:06:09	11-MAR	28.314	25.337	209.61	2281.45	1490.83	1.0200
14:06:09	11-MAR	29.314	26.337	209.64	2321.91	1531.29	1.0049
15:06:09	11-MAR	30.314	27.337	209.70	2361.55	1570.93	0.9903
16:06:24	11-MAR	31.318	28.342	209.75	2400.41	1609.79	0.9763
17:06:24	11-MAR	32.318	29.342	209.80	2438.30	1647.68	0.9628
18:07:49	11-MAR	33.341	30.365	209.84	2476.02	1685.40	0.9496

TEST PHASE: SHUTIN PERIOD # 1 FINAL FLOW PRESSURE = 790.62 PSIA
PRODUCING TIME = 240.00 HR

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
19:08:29	11-MAR	34.352	31.376	209.88	2512.44	1721.82	0.9370
20:10:49	11-MAR	35.391	32.415	209.93	2549.26	1758.64	0.9245
21:11:54	11-MAR	36.410	33.433	209.95	2584.78	1794.16	0.9127
22:14:04	11-MAR	37.445	34.469	209.98	2620.29	1829.67	0.9011
23:16:04	11-MAR	38.479	35.503	210.02	2655.03	1864.41	0.8899
0:16:39	12-MAR	39.489	36.513	210.04	2688.35	1897.73	0.8793
1:17:29	12-MAR	40.502	37.526	210.07	2721.31	1930.69	0.8690
2:18:54	12-MAR	41.526	38.550	210.09	2753.97	1963.35	0.8589
3:20:29	12-MAR	42.552	39.576	210.11	2786.02	1995.40	0.8491
4:21:54	12-MAR	43.576	40.600	210.15	2817.45	2026.83	0.8396
5:22:29	12-MAR	44.586	41.610	210.16	2847.89	2057.27	0.8305
6:30:04	12-MAR	45.712	42.736	210.18	2881.36	2090.74	0.8206
7:32:19	12-MAR	46.750	43.773	210.20	2911.61	2120.99	0.8118
8:32:34	12-MAR	47.754	44.778	210.22	2940.41	2149.79	0.8034
9:34:09	12-MAR	48.780	45.804	210.24	2969.35	2178.73	0.7952
10:38:54	12-MAR	49.860	46.883	210.25	2999.25	2208.63	0.7867
11:42:24	12-MAR	50.918	47.942	210.27	3028.18	2237.56	0.7786
12:42:44	12-MAR	51.923	48.947	210.27	3055.15	2264.53	0.7711
13:46:34	12-MAR	52.987	50.011	210.29	3083.18	2292.56	0.7633
14:51:54	12-MAR	54.076	51.100	210.31	3111.04	2320.42	0.7556
15:55:14	12-MAR	55.132	52.155	210.31	3137.68	2347.06	0.7483
16:56:44	12-MAR	56.157	53.181	210.33	3163.04	2372.42	0.7414
18:00:04	12-MAR	57.212	54.236	210.34	3188.57	2397.95	0.7344
19:00:19	12-MAR	58.216	55.240	210.34	3212.65	2422.03	0.7279
20:00:49	12-MAR	59.225	56.249	210.36	3236.59	2445.97	0.7215
21:03:44	12-MAR	60.273	57.297	210.36	3261.17	2470.55	0.7151
22:04:39	12-MAR	61.289	58.312	210.36	3284.66	2494.04	0.7089
23:06:24	12-MAR	62.318	59.342	210.38	3308.13	2517.51	0.7028
0:10:39	13-MAR	63.389	60.413	210.38	3332.01	2541.39	0.6966
1:11:49	13-MAR	64.408	61.432	210.40	3354.44	2563.82	0.6908
2:15:39	13-MAR	65.472	62.496	210.40	3377.41	2586.79	0.6849
3:20:14	13-MAR	66.548	63.572	210.40	3400.51	2609.89	0.6790
4:25:49	13-MAR	67.641	64.665	210.42	3423.42	2632.80	0.6732
5:26:44	13-MAR	68.657	65.680	210.42	3444.36	2653.74	0.6678
6:27:44	13-MAR	69.673	66.697	210.42	3464.89	2674.27	0.6626
7:28:59	13-MAR	70.694	67.718	210.42	3485.32	2694.70	0.6574
7:52:54	13-MAR	71.093	68.117	210.42	3493.21	2702.59	0.6555


GRADIENT PLOT
FIELD REPORT NO. 1189161
INSTRUMENT NO. WTQR-1751
COMPANY : COBRA OIL & GAS COMPANY
WELL : STATE 30
DEPTH REFERENCE :
PRESSURE (PSIA)
0
500
1000
1500
2000
2500
3000
3500
4000
0
1500
3000
4500
6000
7500
9000
10500
12000
13500
15000
DEPTH (FT)
Schlumberger

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

COMPANY: COBRA OIL & GAS COMPANY
WELL: STATE 30

FIELD REPORT NO. 1189161
INSTRUMENT NO. WTQR-1751

RECORDER CAPACITY: 16000 PSI
DEPTH REFERENCE:

GRADIENT INFORMATION
****

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, HR	DEPTH FROM REF. FT	PRESSURE AT DEPTH PSIA	PRES. GRADIENT PSI/FT	TEMPERATURE AT DEPTH DEG F	TEMP. GRADIENT DEG F/FT
9:11:44	10-MAR	0.407	0.0	396.57		61.83	
9:34:59	10-MAR	0.794	5000.0	570.94	0.0349	99.03	0.00744
9:59:49	10-MAR	1.208	10000.0	680.32	0.0219	150.53	0.0103
10:15:34	10-MAR	1.471	12000.0	707.62	0.0136	174.63	0.0121
10:29:39	10-MAR	1.705	13000.0	719.23	0.0116	188.13	0.0135
10:43:14	10-MAR	1.932	14000.0	729.82	0.0106	202.93	0.0148
10:47:19	10-MAR	2.000	14756.0	759.12	0.0388	207.88	0.00655
7:52:54	13-MAR	71.093	14756.0	3493.21		210.42	
8:06:24	13-MAR	71.318	14000.0	3440.92	0.0692	201.09	0.0123
8:20:24	13-MAR	71.551	13000.0	3383.77	0.0571	185.47	0.0156
8:32:49	13-MAR	71.758	12000.0	3324.65	0.0591	173.05	0.0124
8:48:49	13-MAR	72.025	10000.0	3201.15	0.0617	149.36	0.0118
9:09:49	13-MAR	72.375	5000.0	2872.88	0.0657	97.81	0.0103
9:33:04	13-MAR	72.762	0.0	2543.36	0.0659	57.06	0.00815

WELL TEST INTERPRE[illegible]ON REPORT #:1189161 CLIENT : COBRA OIL & GAS COMPANY		PAGE: 12, 13-MAR-98
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