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See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

CISF

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator OXY USA				Lease or Unit Name SPARK PLUG STATE			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 21-JAN-98			
Completion Date 11-3-98				Well No. 1			
Total Depth 11,550				Plug Back TD 11,502			
Csg. Size 2 3/8				Elevation 3319			
Wt. d				Unit Ltr. - Sec. - TWP - Rge. N 9 195 29E			
Set At				County EDDY			
From: 11,368				To: 11,482			
Perforations:				Pool Turkey Tract MOR			
Tbg. Size 2 3/8				From: 11,368			
Wt. d 4.7				To: 11,045			
Set At 11,045				Packer Set At 11,045			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Formation CONOCO			
Producing thru TBG				Connection CONOCO			
Reservoir Temp. °F 183				Mean Annual Temp. °F 60			
Baro. Press. - P _a 13.2				Prover Meter Run 4.0			
L 11,425				H 11,425			
Gg 0.658				% CO ₂ 0.66			
% N ₂ 0.38				% H ₂ S			
Taps FLANGE							

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI											
1.	4.03	X	2.375	204	1.1	68	2400 *	*	3440	183	209
2.	4.03	X	2.375	217	15.7	78	2149 *		3365	183	1
3.	4.03	X	2.375	240	44.3	62	1739 *		3050	183	1
4.	4.03	X	2.375	264	73.9	61	1439 *		2712	183	1
5.									2418	183	1

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor Ft	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.		15.46	217.2	0.9923	1.2328	1.0208	543
2.		60.16	230.5	0.9829	1.2328	1.0207	2227
3.		105.97	253.5	0.9986	1.2328	1.0256	3882
4.		143.0	276.7	0.9990	1.2328	1.0281	5354

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.32	528	1.41	0.960	0	
2.	0.34	538	1.44	0.960	0	
3.	0.38	522	1.39	0.951	0.658	XXXXXXX
4.	0.41	521	1.39	0.946	XXXXX	0.658
5.					672	672
	P _c 2548	P _c 2 6492			374	374

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.9708$	2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.9081$
1.	11,410	2490	6199	294		
2.	9,380	2251	5068	1425		
3.	7,425	2001	4005	2488		
4.	5,910	1788	3198	3294		
5.						

Absolute Open Flow 10,217 Mcfd @ 15.025 Angle of Slope 46.4 Slope, n 0.952

Remarks: BASED ON BOTTOM HOLE PRESSURE.
*SURFACE INFORMATION, NOT USED FOR CALCULATION.

Approved By Division Conducted By: C. Taylor Calculated By: Dianne Sykes Checked By:

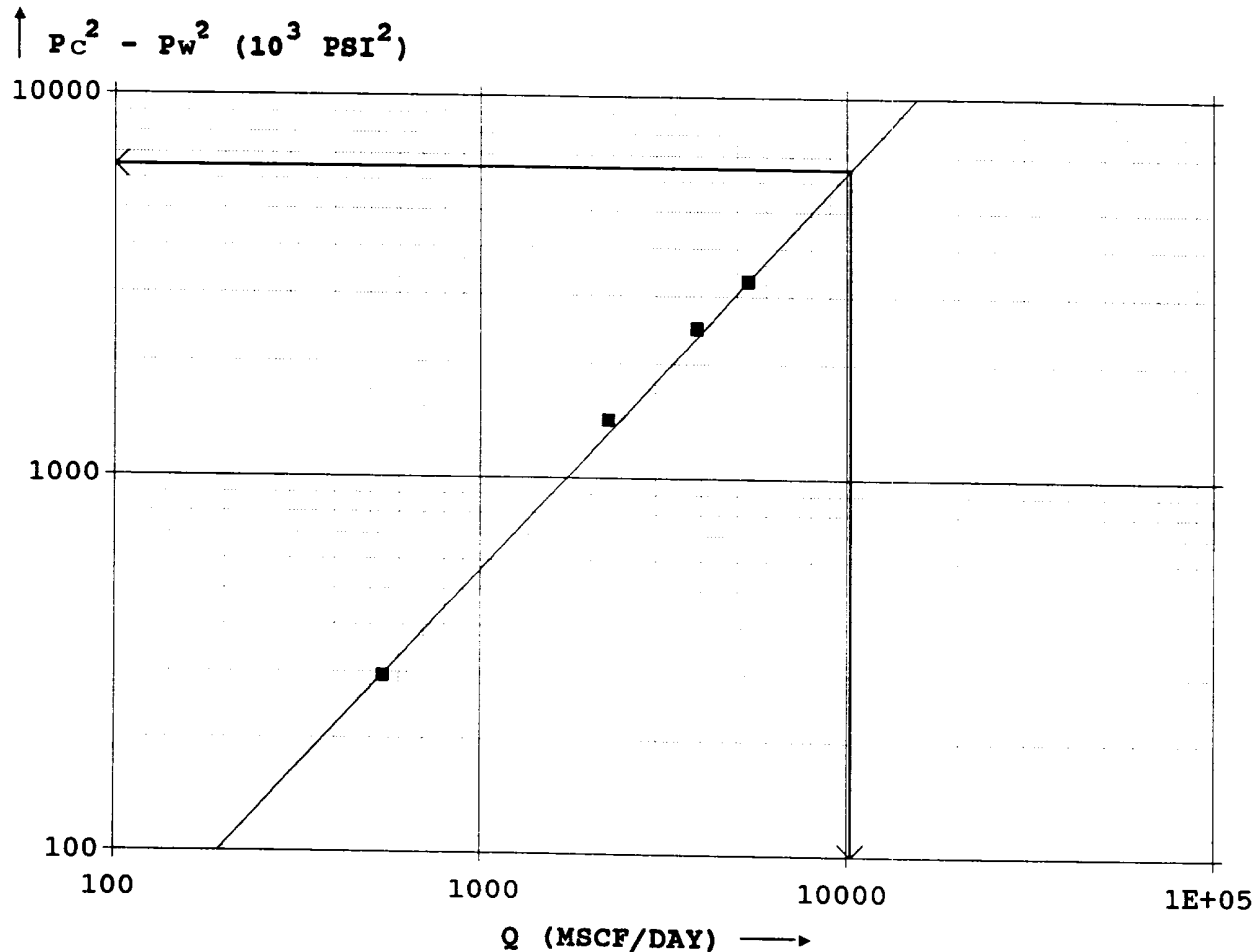
BACK PRESSURE CURVE

CLIENT: OXY USA INC.

WELL: SPARK PLUG STATE #1

Test Date: 21-JAN-1998

County: EDDY, NM



Well Tester:

C. Taylor

SCHLUMBERGER Testing

$\theta = 46.409$ degrees

$n = 0.9520$

AOF = 10217 MSCF/DAY

REPORT NO.
1078545

PAGE NO. 1

TEST DATE:
12-JAN-1998

STAR

Schlumberger Testing Data Report Pressure Data Report

Schlumberger

COMPANY: OXY USA INC

WELL: SPARK PLUG STATE #1

TEST IDENTIFICATION

Test Type BHP
Test No. 1
Formation
Test Interval (ft) 11368 to 11482

WELL LOCATION

Field BURTON FLATS
County EDDY
State NM
Sec/Twn/Rng s9t19Sr29E

COMPLETION CONFIGURATION

Total Depth (MD/TVD) (ft)
Casing/Liner I.D. (in)
Hole Size (in)
Perforated Interval (ft)
Shot Density (shots/ft)
Perforation Diameter (in)
Net Pay (ft)

TEST STRING CONFIGURATION

Tubing Length (ft)/I.D. (in)..
Tubing Length (ft)/I.D. (in)..
Packer Depth (ft) 11045.
Gauge Depth (ft)/Type 11037/SLSR #833
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 (%)
Reservoir Temperature (F) 175
Form.Vol.Factor (bbl/STB)

PRODUCTION RATE DURING TEST: Data Report

COMMENTS:

THIS JOB WAS MECHANICALLY SUCCESSFUL.THANKS FOR USING SCHLUMBERGER.

WELL TEST INTERPRETATION REPORT #:1078545		PAGE: 2.
CLIENT : OXY USA INC		28-JAN-98
REGION :CSD	SEQUENCE OF EVENTS	FIELD: BURTON FLATS
DISTRICT: HOBBS		ZONE :
BASE : MIDLAND		WELL : SPARK PLUG #1
ENGINEER: C. TAYLOR		LOCATION: s9t19Sr29E

DATE	TIME (HR:MIN)	DESCRIPTION	ET (MINS)	BHP (PSIA)	WHP (PSIG)
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12-JAN	13:42	START FLOW	-243	1630	
	14:00	Gradient Stop 0 Ft.	-225		
	14:17	Gradient Stop 2500 Ft.	-208		
	14:29	Gradient Stop 5000 Ft.	-196		
	14:41	Gradient Stop 7500 Ft.	-184		
	14:50	Gradient Stop 10000 Ft.	-175		
	14:58	Gradient Stop 11037 Ft.	-167		
	17:45	END FLOW & START SHUT-IN	0		
16-JAN	12:13	Gradient Stop 11030 Ft.	5428		
	12:24	Gradient Stop 10000 Ft.	5439		
	12:31	Gradient Stop 7500 Ft.	5446		
	12:40	Gradient Stop 5000 Ft.	5455		
	12:49	Gradient Stop 2500 Ft.	5464		
16-JAN	12:53	Gradient Stop 0 Ft.	5468		
21-JAN	11:37	END SHUT-IN & START FLOW	12592		
21-JAN	11:53	CHANGED CHOKE	12608		
21-JAN	12:46	CHANGED CHOKE	12661		
21-JAN	13:46	CHANGED CHOKE	12721		
21-JAN	14:46	CHANGED CHOKE	12781		
22-JAN	10:46	END FLOW	13981		
		Instruments were pulled and re-run after flowing gradient, and after static gradient.			

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 1078545

COMPANY : OXY USA INC

INSTRUMENT NO. SLSR-833

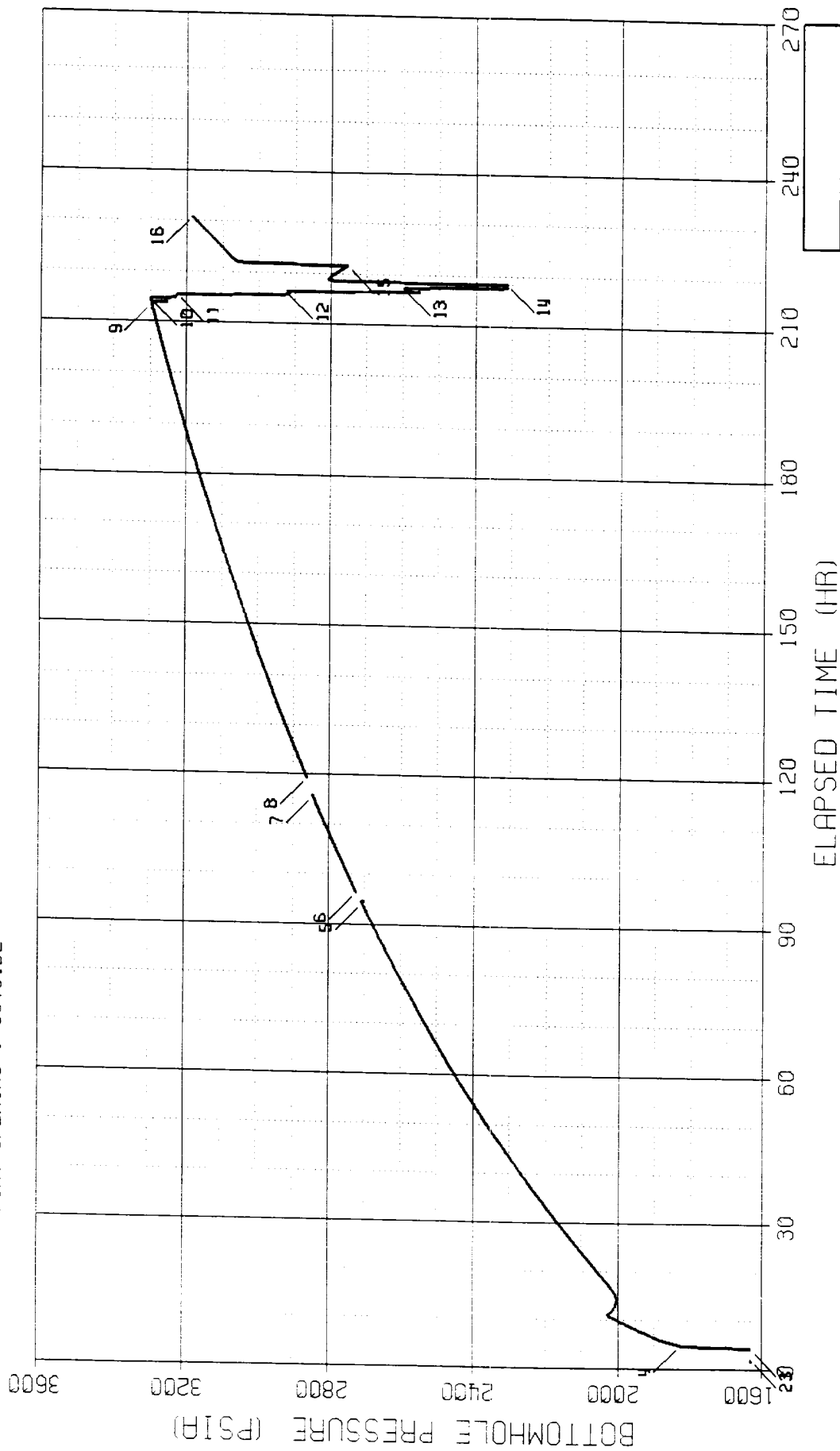
WELL : SPARK PLUG STATE #1

DEPTH : 11037 FT

CAPACITY : 10000 PSI

Electronic Pressure Data

PORT OPENING : OUTSIDE



Schlumberger

BOTTOMHOLE TEMPERATURE LOG

FIELD REPORT NO. 1078545

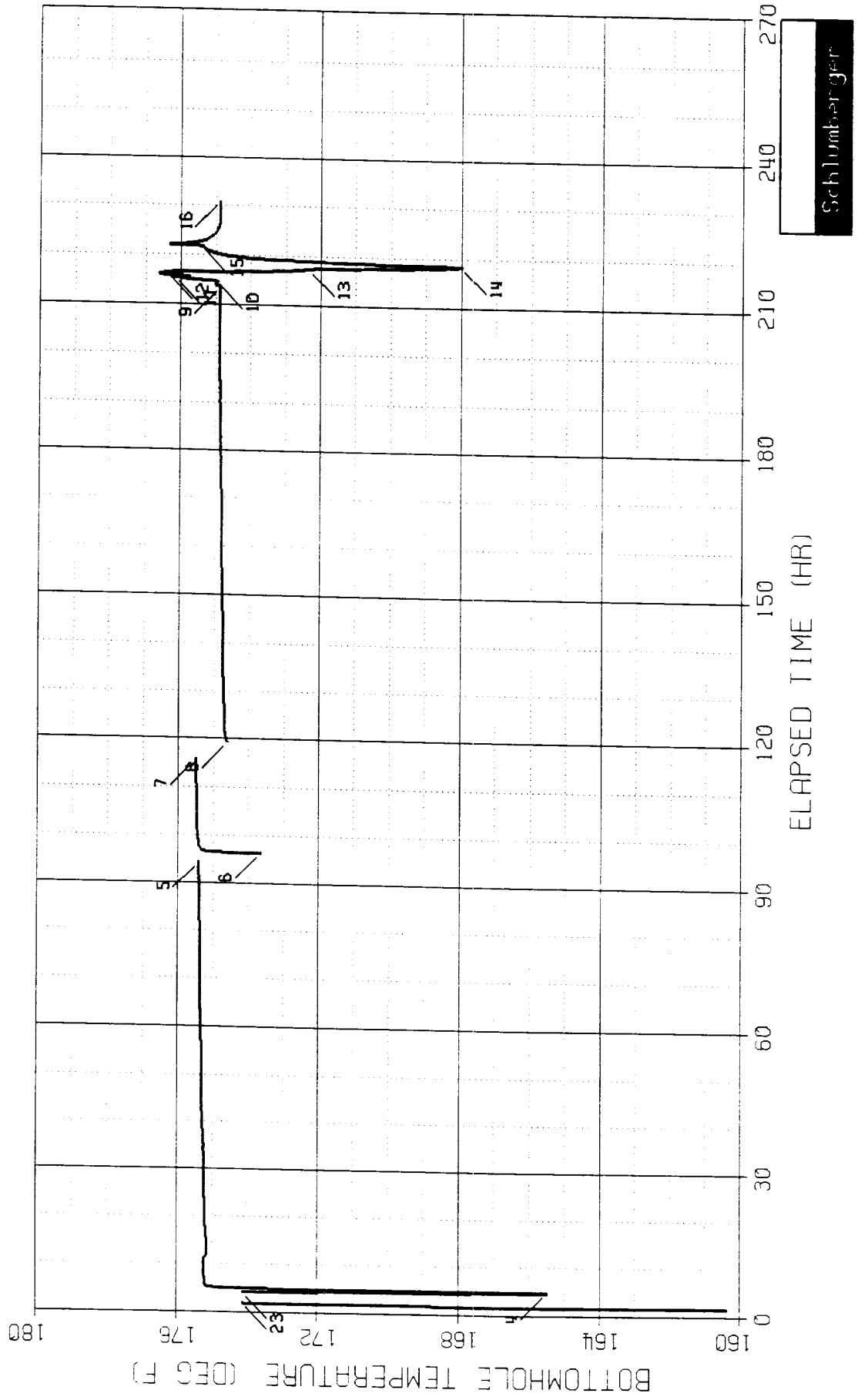
COMPANY : OXY USA INC

INSTRUMENT NO. SLSR-833

WELL : SPARK PLUG STATE #1

DEPTH : 11037 FT

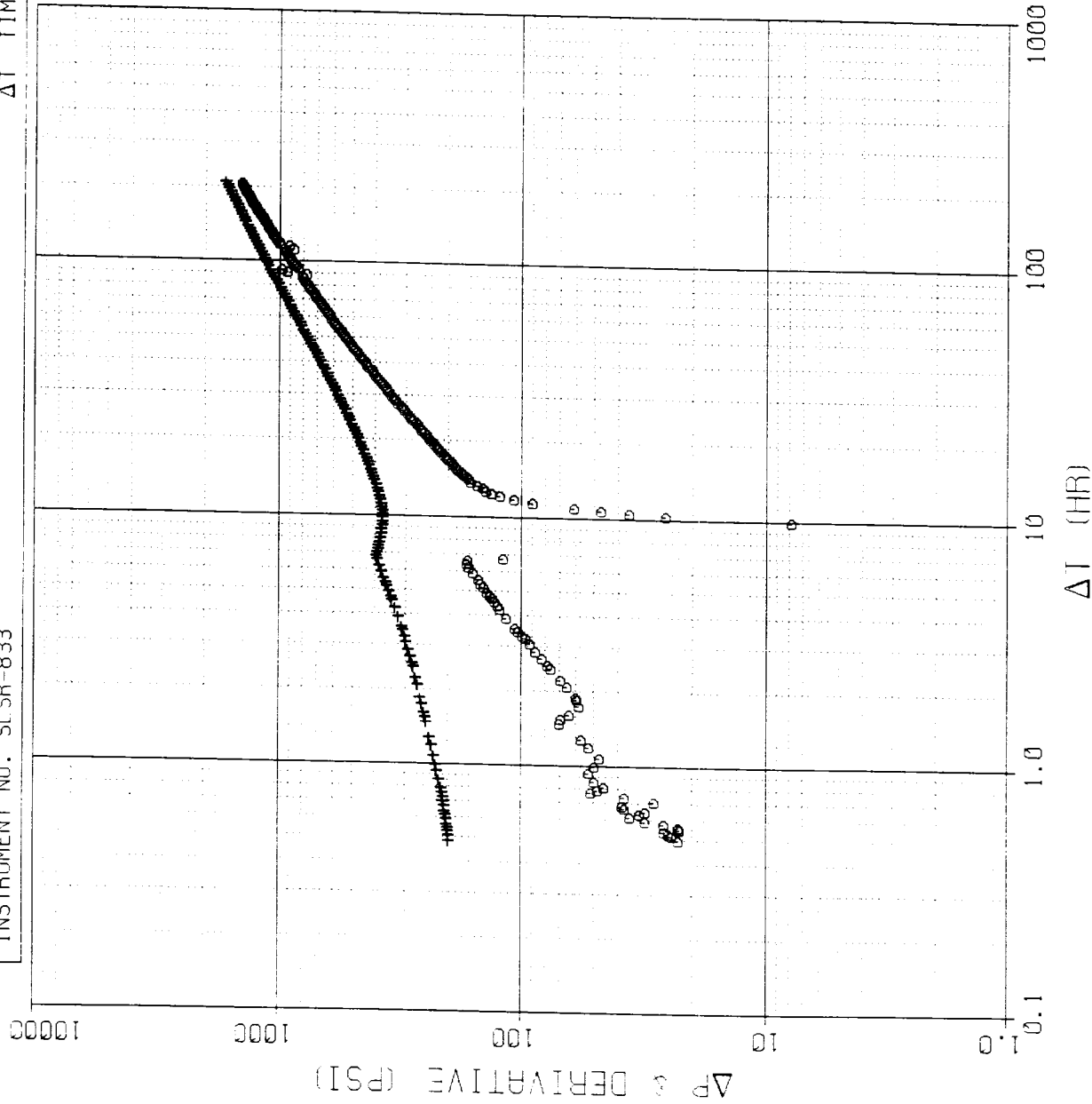
Electronic Temperature Data



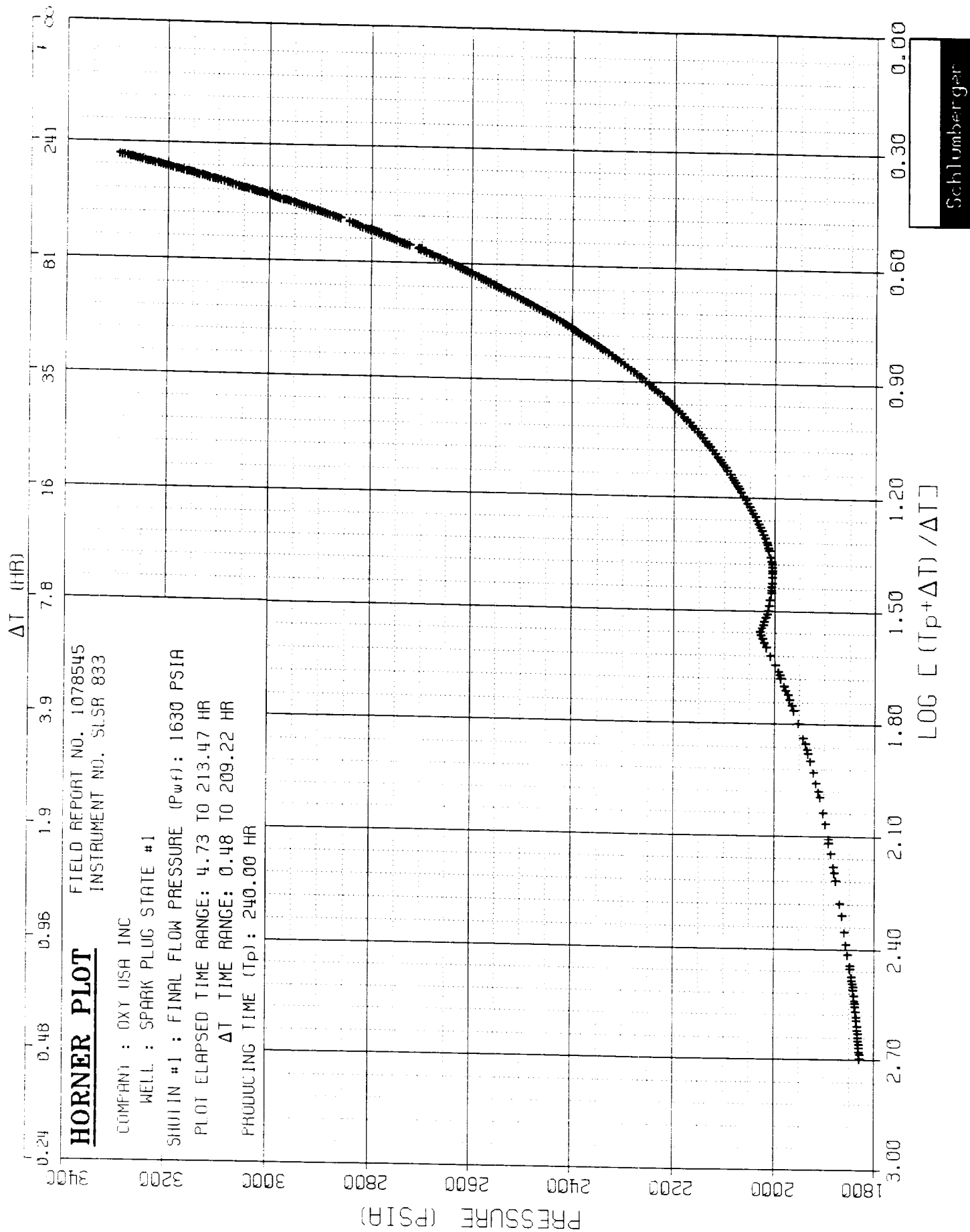
LOG LOG PLOT

COMPANY : OXY USA INC
WELL : SPARK PLUG STATE #1
FIELD REPORT NO. 1078545
INSTRUMENT NO. SL5R-833

SHUTIN #1 : PRODUCING TIME (t_p): 240.00 HR
FINAL FLOW PRESSURE (P_{wf}): 1630 PSIA
PLOT ELAPSED TIME RANGE: 4.73 TO 213.47 HR
 ΔT TIME RANGE: 0.48 TO 209.22 HR



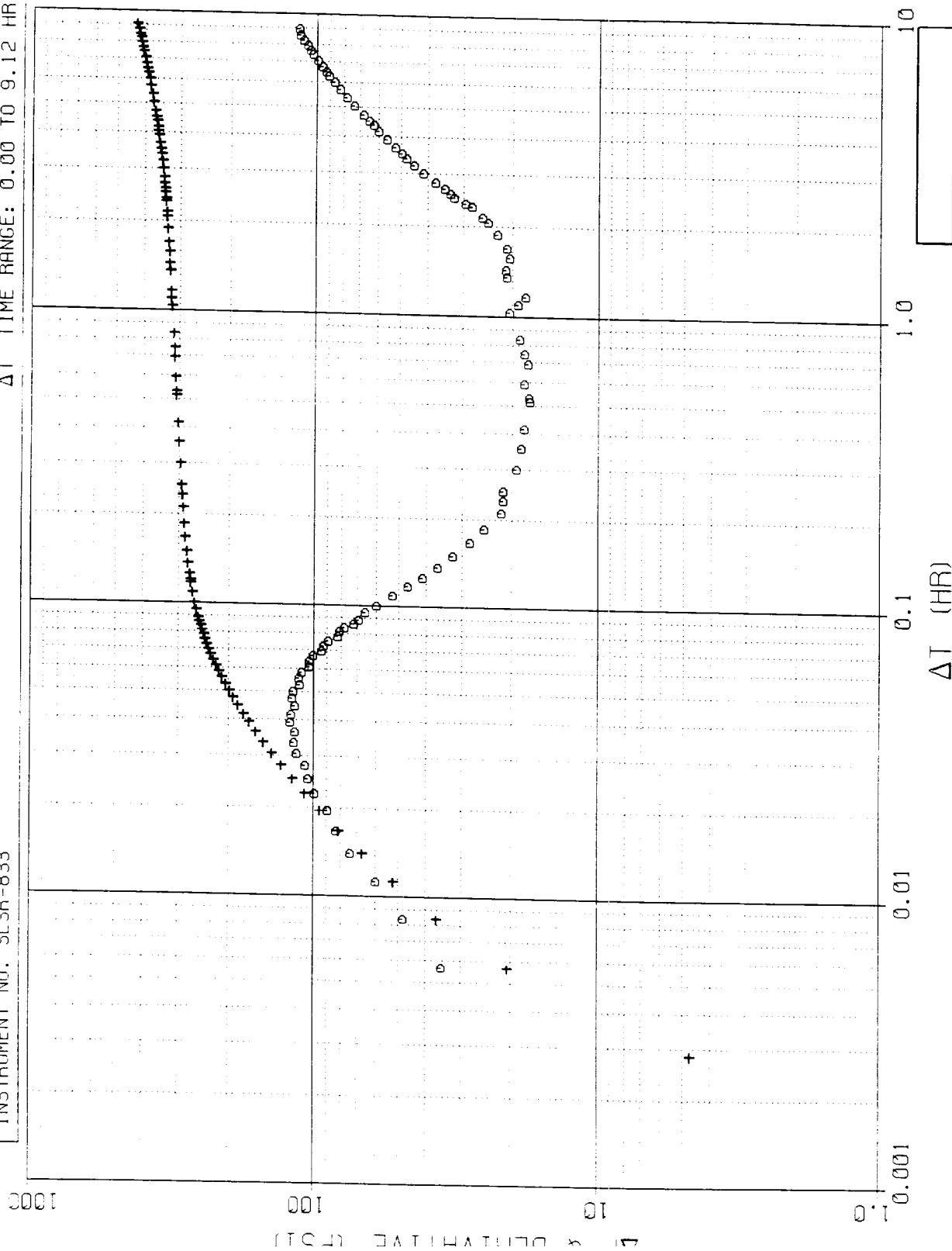
Schlumberger



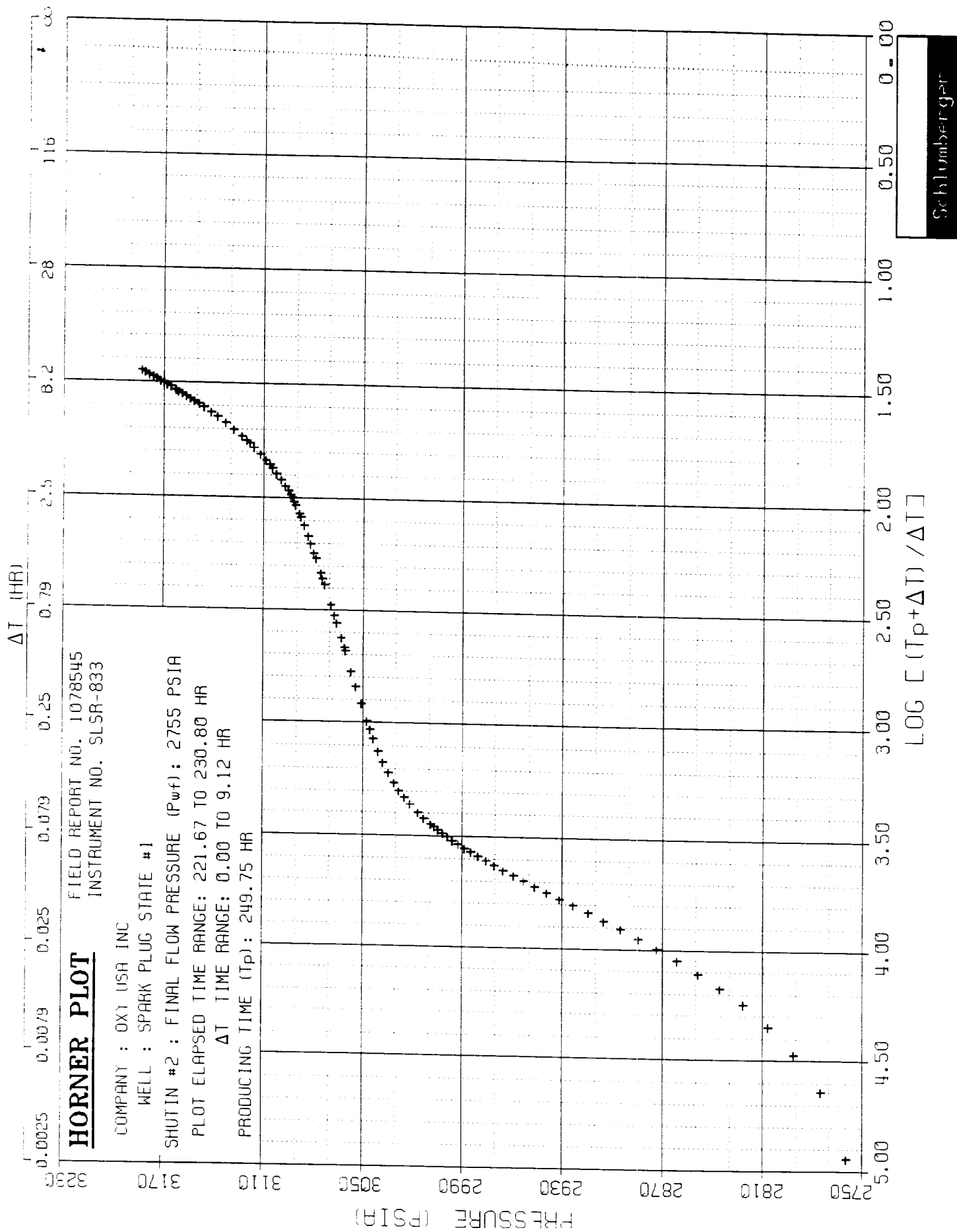
LOG LOG PLOT

COMPANY : OXY USA INC
 WELL : SPARK PLUG STATE #1
 FIELD REPORT NO. 10/8545
 INSTRUMENT NO. SLSR-833

SHUTIN #2 : PRODUCING TIME (tp): 249.75 HR
 FINAL FLOW PRESSURE (Pwf): 2755 PSIA
 PLOT ELAPSED TIME RANGE: 221.67 TO 230.80 HR
 ΔT TIME RANGE: 0.00 TO 9.12 HR



Schlumberger



WELL TEST DATA PRINTOUT

COMPANY: OXY USA INC
WELL: SPARK PLUG STATE #1

FIELD REPORT NO. 1078545
INSTRUMENT NO. SLSR-833

RECORDER CAPACITY: 10000 PSI PORT OPENING: OUTSIDE DEPTH: 11037 FT

LABEL POINT INFORMATION

#	TIME OF DAY HH:MM:SS	DATE DD-MMM	EXPLANATION	ELAPSED TIME, HR	BOT HOLE PRESSURE PSIA	BOT HOLE TEMP. DEG F
1	14:56:27	12-JAN	START DATA ACQUISITION	1.607	1629.82	160.03
2	15:14:27	12-JAN	PULL INSTRUMENTS	1.907	1630.29	174.13
3	17:35:00	12-JAN	END FLOW & START SHUT-IN	4.250	1630.29	174.13
4	18:03:57	12-JAN	INSTRUMENTS BACK AT 11037'	4.733	1828.33	165.49
5	11:36:47	16-JAN	RUN STATIC GRADIENT	94.280	2707.35	175.41
6	13:41:47	16-JAN	INSTRUMENTS BACK AT 11037'	96.363	2723.06	173.64
7	9:00:47	17-JAN	START OF DATA GAP	115.680	2843.69	175.50
8	12:35:57	17-JAN	END OF DATA GAP	119.266	2860.51	174.60
9	10:48:27	21-JAN	END SHUT-IN	213.474	3296.36	174.88
10	11:53:47	21-JAN	START FLOW	214.563	3299.66	174.96
11	12:46:07	21-JAN	CHANGED CHOKE	215.435	3226.87	176.18
12	13:46:37	21-JAN	CHANGED CHOKE	216.444	2923.32	176.40
13	14:46:27	21-JAN	CHANGED CHOKE	217.441	2598.14	172.35
14	15:43:47	21-JAN	CHANGED CHOKE	218.396	2315.12	168.03
15	19:00:17	21-JAN	END FLOW & START SHUT-IN	221.671	2754.54	175.41
16	4:07:47	22-JAN	END SHUT-IN	230.796	3183.70	174.88

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME, HR	END ELAPSED TIME, HR	DURATION HR	START PRESSURE PSIA	END PRESSURE PSIA	INITIAL PRESSURE PSIA
1	1.607	4.250	2.643	1629.82	1630.29	1629.82
2	214.563	221.671	7.108	3299.66	2754.54	3299.66

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	4.250	213.474	209.224	1630.29	3296.36	1630.29	240.00
2	221.671	230.796	9.125	2754.54	3183.70	2754.54	249.75

TEST PHASE: FLOW PERIOD # 1

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MMM				
14:56:27	12-JAN	1.607	0.000	160.03	1629.82
15:12:07	12-JAN	1.869	0.261	173.73	1630.49
17:35:00	12-JAN	4.250	2.643	174.13	1630.29

TEST PHASE: SHUTIN PERIOD # 1

FINAL FLOW PRESSURE = 1630.29 PSIA
PRODUCING TIME = 240.00 HR

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS	DD-MMM						
17:35:00	12-JAN	4.250	0.000	174.13	1630.29	0.00	
18:03:57	12-JAN	4.733	0.483	165.49	1828.33	198.04	2.6976
18:05:17	12-JAN	4.755	0.505	167.43	1829.28	198.99	2.6781
18:11:47	12-JAN	4.863	0.613	172.56	1834.60	204.31	2.5939
18:17:47	12-JAN	4.963	0.713	174.20	1839.64	209.35	2.5284
18:25:57	12-JAN	5.099	0.849	174.94	1847.33	217.04	2.4528
18:34:17	12-JAN	5.238	0.988	175.10	1855.20	224.91	2.3872
18:45:47	12-JAN	5.430	1.180	175.17	1863.72	233.43	2.3106
19:02:37	12-JAN	5.710	1.460	175.19	1876.22	245.93	2.2184
19:10:07	12-JAN	5.835	1.585	175.19	1881.92	251.63	2.1830
19:18:27	12-JAN	5.974	1.724	175.21	1886.62	256.33	2.1467
19:25:07	12-JAN	6.085	1.835	175.21	1890.26	259.97	2.1198
19:39:27	12-JAN	6.324	2.074	175.21	1897.77	267.48	2.0671
19:48:07	12-JAN	6.469	2.219	175.21	1902.20	271.91	2.0381
20:01:57	12-JAN	6.699	2.449	175.21	1909.27	278.98	1.9956
20:15:27	12-JAN	6.924	2.674	175.21	1916.15	285.86	1.9578
20:26:17	12-JAN	7.105	2.855	175.21	1921.63	291.34	1.9298
20:39:27	12-JAN	7.324	3.074	175.23	1928.20	297.91	1.8980
21:48:17	12-JAN	8.471	4.221	175.23	1961.74	331.45	1.7623
22:48:57	12-JAN	9.483	5.233	175.24	1989.77	359.48	1.6709
23:49:27	12-JAN	10.491	6.241	175.24	2016.33	386.04	1.5961
0:53:37	13-JAN	11.560	7.310	175.17	2020.87	390.58	1.5293
1:58:17	13-JAN	12.638	8.388	175.15	2009.44	379.15	1.4715
2:58:47	13-JAN	13.646	9.396	175.15	2005.08	374.79	1.4239
4:02:47	13-JAN	14.713	10.463	175.15	2005.91	375.62	1.3791
5:11:07	13-JAN	15.852	11.602	175.17	2012.62	382.33	1.3362
6:13:27	13-JAN	16.891	12.641	175.17	2022.75	392.46	1.3007
7:16:37	13-JAN	17.944	13.694	175.19	2034.10	403.81	1.2678
8:19:57	13-JAN	18.999	14.749	175.19	2045.83	415.54	1.2373
9:20:27	13-JAN	20.007	15.757	175.21	2057.06	426.77	1.2103
10:20:57	13-JAN	21.016	16.766	175.21	2068.31	438.02	1.1851
11:24:17	13-JAN	22.071	17.821	175.21	2080.05	449.76	1.1604
12:26:57	13-JAN	23.116	18.866	175.21	2091.56	461.27	1.1374
13:27:27	13-JAN	24.124	19.874	175.23	2102.72	472.43	1.1165
14:27:57	13-JAN	25.132	20.882	175.23	2113.73	483.44	1.0967
15:28:17	13-JAN	26.138	21.888	175.23	2124.64	494.35	1.0779
16:28:57	13-JAN	27.149	22.899	175.23	2135.58	505.29	1.0600
17:30:27	13-JAN	28.174	23.924	175.24	2146.50	516.21	1.0426
18:30:57	13-JAN	29.182	24.932	175.24	2157.25	526.96	1.0264
19:31:27	13-JAN	30.191	25.941	175.24	2167.91	537.62	1.0108

TEST PHASE: SHUTIN PERIOD # 1

FINAL FLOW PRESSURE = 1630.29 PSIA

PRODUCING TIME = 240.00 HR

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
20:31:57	13-JAN	31.199	26.949	175.24	2178.49	548.20	0.9959
21:32:27	13-JAN	32.208	27.957	175.24	2189.02	558.73	0.9816
22:32:57	13-JAN	33.216	28.966	175.24	2199.46	569.17	0.9678
23:33:57	13-JAN	34.232	29.983	175.26	2209.91	579.62	0.9545
0:38:37	14-JAN	35.310	31.060	175.26	2220.90	590.61	0.9409
1:44:57	14-JAN	36.416	32.166	175.26	2232.05	601.76	0.9274
2:47:57	14-JAN	37.466	33.216	175.26	2242.60	612.31	0.9152
3:48:27	14-JAN	38.474	34.224	175.28	2252.65	622.36	0.9038
4:48:57	14-JAN	39.482	35.232	175.28	2262.62	632.33	0.8928
5:49:27	14-JAN	40.491	36.241	175.28	2272.51	642.22	0.8821
6:49:57	14-JAN	41.499	37.249	175.28	2282.34	652.05	0.8718
8:05:17	14-JAN	42.755	38.505	175.30	2294.43	664.14	0.8593
9:05:47	14-JAN	43.763	39.513	175.30	2304.09	673.80	0.8497
10:06:17	14-JAN	44.771	40.521	175.30	2313.68	683.39	0.8403
11:06:47	14-JAN	45.780	41.530	175.30	2323.21	692.92	0.8312
12:07:17	14-JAN	46.788	42.538	175.30	2332.65	702.36	0.8223
13:07:47	14-JAN	47.796	43.546	175.30	2341.99	711.70	0.8137
14:08:17	14-JAN	48.805	44.555	175.30	2351.29	721.00	0.8053
15:08:47	14-JAN	49.813	45.563	175.32	2360.53	730.24	0.7971
16:09:17	14-JAN	50.821	46.571	175.32	2369.69	739.40	0.7891
17:11:07	14-JAN	51.852	47.602	175.32	2379.00	748.71	0.7812
18:11:37	14-JAN	52.860	48.610	175.32	2388.02	757.73	0.7736
19:12:07	14-JAN	53.869	49.619	175.32	2397.01	766.72	0.7662
20:12:37	14-JAN	54.877	50.627	175.32	2405.89	775.60	0.7590
21:13:07	14-JAN	55.885	51.635	175.32	2414.71	784.42	0.7519
22:13:37	14-JAN	56.894	52.644	175.32	2423.47	793.18	0.7450
23:17:37	14-JAN	57.960	53.710	175.33	2432.67	802.38	0.7379
0:20:37	15-JAN	59.010	54.760	175.33	2441.67	811.38	0.7310
1:24:37	15-JAN	60.077	55.827	175.33	2450.73	820.44	0.7242
2:30:37	15-JAN	61.177	56.927	175.33	2459.96	829.67	0.7173
3:31:07	15-JAN	62.185	57.935	175.33	2468.41	838.12	0.7112
4:31:37	15-JAN	63.194	58.944	175.33	2476.77	846.48	0.7052
5:36:47	15-JAN	64.280	60.030	175.35	2485.72	855.43	0.6988
6:39:57	15-JAN	65.332	61.083	175.35	2494.34	864.05	0.6928
7:42:07	15-JAN	66.369	62.119	175.35	2502.70	872.41	0.6870
8:42:37	15-JAN	67.377	63.127	175.35	2510.82	880.53	0.6814
9:43:07	15-JAN	68.385	64.135	175.35	2518.87	888.58	0.6760
10:43:37	15-JAN	69.394	65.144	175.35	2526.87	896.58	0.6706
11:45:07	15-JAN	70.419	66.169	175.35	2534.92	904.63	0.6653
12:45:07	15-JAN	71.419	67.169	175.35	2542.73	912.44	0.6602
13:46:27	15-JAN	72.441	68.191	175.37	2550.63	920.34	0.6551
14:46:57	15-JAN	73.449	69.199	175.37	2558.39	928.10	0.6501
15:47:27	15-JAN	74.458	70.208	175.37	2566.06	935.77	0.6453
16:47:57	15-JAN	75.466	71.216	175.37	2573.72	943.43	0.6405
17:48:27	15-JAN	76.474	72.224	175.37	2581.30	951.01	0.6358
18:48:57	15-JAN	77.483	73.233	175.37	2588.85	958.56	0.6312
20:00:37	15-JAN	78.677	74.427	175.37	2597.69	967.40	0.6258
21:01:07	15-JAN	79.685	75.435	175.37	2605.14	974.85	0.6213
22:01:37	15-JAN	80.694	76.444	175.37	2612.49	982.20	0.6170
23:02:07	15-JAN	81.702	77.452	175.37	2619.82	989.53	0.6126

FIELD REPORT # 1078545

INSTRUMENT # SLSR-833

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TEST PHASE: SHUTIN PERIOD # 1

FINAL FLOW PRESSURE = 1630.29 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
0:02:37	16-JAN	82.710	78.460	175.39	2627.12	996.83	0.6084
1:03:07	16-JAN	83.719	79.469	175.39	2634.36	1004.07	0.6042
2:03:37	16-JAN	84.727	80.477	175.39	2641.55	1011.26	0.6001
3:04:07	16-JAN	85.735	81.485	175.39	2648.67	1018.38	0.5961
4:04:37	16-JAN	86.744	82.494	175.39	2655.76	1025.47	0.5921
5:05:07	16-JAN	87.752	83.502	175.39	2662.82	1032.53	0.5882
6:05:37	16-JAN	88.760	84.510	175.39	2669.82	1039.53	0.5843
7:15:57	16-JAN	89.933	85.683	175.39	2677.90	1047.61	0.5799
8:23:17	16-JAN	91.055	86.805	175.41	2685.59	1055.30	0.5757
9:23:47	16-JAN	92.063	87.813	175.41	2692.43	1062.14	0.5721
10:24:17	16-JAN	93.071	88.821	175.41	2699.25	1068.96	0.5684
11:24:47	16-JAN	94.080	89.830	175.41	2705.98	1075.69	0.5649
13:41:47	16-JAN	96.363	92.113	173.64	2723.06	1092.77	0.5570
14:42:37	16-JAN	97.377	93.127	175.37	2730.88	1100.59	0.5535
15:49:47	16-JAN	98.496	94.246	175.42	2737.99	1107.70	0.5498
16:50:17	16-JAN	99.505	95.255	175.44	2744.44	1114.15	0.5465
17:51:37	16-JAN	100.527	96.277	175.44	2750.96	1120.67	0.5432
18:52:07	16-JAN	101.535	97.285	175.46	2757.32	1127.03	0.5400
19:52:37	16-JAN	102.544	98.294	175.46	2763.65	1133.36	0.5368
20:56:37	16-JAN	103.610	99.360	175.46	2770.41	1140.12	0.5334
22:04:37	16-JAN	104.744	100.494	175.48	2777.51	1147.22	0.5300
23:06:47	16-JAN	105.780	101.530	175.48	2783.98	1153.69	0.5268
0:07:17	17-JAN	106.788	102.538	175.48	2790.22	1159.93	0.5238
1:07:47	17-JAN	107.796	103.546	175.48	2796.42	1166.13	0.5209
2:08:17	17-JAN	108.805	104.555	175.48	2802.59	1172.30	0.5179
3:08:17	17-JAN	109.805	105.555	175.48	2808.70	1178.41	0.5150
4:08:37	17-JAN	110.810	106.560	175.50	2814.78	1184.49	0.5122
5:09:17	17-JAN	111.821	107.571	175.50	2820.87	1190.58	0.5093
6:09:47	17-JAN	112.830	108.580	175.50	2826.90	1196.61	0.5066
7:10:17	17-JAN	113.838	109.588	175.50	2832.93	1202.64	0.5038
8:10:47	17-JAN	114.846	110.596	175.50	2838.92	1208.63	0.5011
12:35:17	17-JAN	119.255	115.005	174.60	2860.41	1230.12	0.4895
13:38:47	17-JAN	120.313	116.063	174.65	2866.52	1236.23	0.4868
14:39:27	17-JAN	121.324	117.074	174.67	2872.33	1242.04	0.4843
15:48:07	17-JAN	122.469	118.219	174.69	2878.83	1248.54	0.4815
16:54:47	17-JAN	123.580	119.330	174.69	2885.11	1254.82	0.4787
17:55:27	17-JAN	124.591	120.341	174.70	2890.78	1260.49	0.4763
18:55:57	17-JAN	125.599	121.349	174.70	2896.41	1266.12	0.4739
19:57:57	17-JAN	126.632	122.382	174.70	2902.17	1271.88	0.4714
20:58:27	17-JAN	127.641	123.391	174.72	2907.79	1277.50	0.4691
21:58:57	17-JAN	128.649	124.399	174.72	2913.34	1283.05	0.4668
22:59:27	17-JAN	129.658	125.408	174.72	2918.89	1288.60	0.4645
23:59:57	17-JAN	130.666	126.416	174.72	2924.37	1294.08	0.4622
1:00:27	18-JAN	131.674	127.424	174.72	2929.85	1299.56	0.4599
2:00:57	18-JAN	132.683	128.433	174.72	2935.31	1305.02	0.4577
3:05:07	18-JAN	133.752	129.502	174.74	2941.05	1310.76	0.4553
4:10:27	18-JAN	134.841	130.591	174.74	2946.85	1316.56	0.4530
5:17:27	18-JAN	135.958	131.708	174.74	2952.81	1322.52	0.4506
6:17:57	18-JAN	136.966	132.716	174.74	2958.12	1327.83	0.4485
7:18:27	18-JAN	137.974	133.724	174.74	2963.44	1333.15	0.4463

TEST PHASE: SHUTIN PERIOD # 1

FINAL FLOW PRESSURE = 1630.29 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
8:18:57	18-JAN	138.982	134.732	174.74	2968.71	1338.42	0.4442
9:19:27	18-JAN	139.991	135.741	174.74	2973.97	1343.68	0.4422
10:24:47	18-JAN	141.080	136.830	174.76	2979.61	1349.32	0.4400
11:26:57	18-JAN	142.116	137.866	174.76	2984.95	1354.66	0.4379
12:28:27	18-JAN	143.141	138.891	174.76	2990.22	1359.93	0.4358
13:39:37	18-JAN	144.327	140.077	174.76	2996.24	1365.95	0.4335
14:40:07	18-JAN	145.335	141.085	174.76	3001.32	1371.03	0.4315
15:40:37	18-JAN	146.344	142.094	174.76	3006.44	1376.15	0.4296
16:41:07	18-JAN	147.352	143.102	174.78	3011.52	1381.23	0.4277
17:41:37	18-JAN	148.360	144.110	174.78	3016.54	1386.25	0.4258
18:42:07	18-JAN	149.369	145.119	174.78	3021.54	1391.25	0.4239
19:43:57	18-JAN	150.399	146.149	174.78	3026.65	1396.36	0.4220
20:44:27	18-JAN	151.408	147.158	174.78	3031.60	1401.31	0.4201
21:44:57	18-JAN	152.416	148.166	174.78	3036.51	1406.22	0.4183
22:45:27	18-JAN	153.424	149.174	174.78	3041.45	1411.16	0.4165
23:45:57	18-JAN	154.433	150.183	174.78	3046.33	1416.04	0.4146
0:46:27	19-JAN	155.441	151.191	174.78	3051.21	1420.92	0.4129
1:46:57	19-JAN	156.449	152.199	174.79	3056.02	1425.73	0.4111
2:47:27	19-JAN	157.458	153.208	174.79	3060.86	1430.57	0.4093
3:47:57	19-JAN	158.466	154.216	174.79	3065.65	1435.36	0.4076
4:48:27	19-JAN	159.474	155.224	174.79	3070.41	1440.12	0.4059
5:48:57	19-JAN	160.482	156.232	174.79	3075.17	1444.88	0.4042
6:50:37	19-JAN	161.510	157.260	174.81	3079.95	1449.66	0.4025
7:51:07	19-JAN	162.519	158.269	174.81	3084.69	1454.40	0.4008
8:51:37	19-JAN	163.527	159.277	174.81	3089.39	1459.10	0.3991
9:52:07	19-JAN	164.535	160.285	174.81	3094.01	1463.72	0.3975
10:52:37	19-JAN	165.544	161.294	174.81	3098.65	1468.36	0.3958
11:53:07	19-JAN	166.552	162.302	174.81	3103.25	1472.96	0.3942
12:53:37	19-JAN	167.560	163.310	174.81	3107.85	1477.56	0.3926
13:54:07	19-JAN	168.569	164.319	174.81	3112.43	1482.14	0.3910
14:54:37	19-JAN	169.577	165.327	174.81	3116.96	1486.67	0.3895
15:55:07	19-JAN	170.585	166.335	174.81	3121.49	1491.20	0.3879
16:56:57	19-JAN	171.616	167.366	174.81	3126.11	1495.82	0.3863
17:57:27	19-JAN	172.624	168.374	174.83	3130.59	1500.30	0.3848
18:57:57	19-JAN	173.633	169.383	174.83	3135.05	1504.76	0.3833
19:58:27	19-JAN	174.641	170.391	174.83	3139.49	1509.20	0.3818
20:58:57	19-JAN	175.649	171.399	174.83	3143.93	1513.64	0.3803
21:59:27	19-JAN	176.658	172.408	174.83	3148.33	1518.04	0.3788
22:59:57	19-JAN	177.666	173.416	174.83	3152.72	1522.43	0.3773
0:00:27	20-JAN	178.674	174.424	174.83	3157.05	1526.76	0.3758
1:00:57	20-JAN	179.683	175.433	174.85	3161.40	1531.11	0.3744
2:02:47	20-JAN	180.713	176.463	174.83	3165.81	1535.52	0.3729
3:03:17	20-JAN	181.721	177.471	174.85	3170.14	1539.85	0.3715
4:03:47	20-JAN	182.730	178.480	174.83	3174.39	1544.10	0.3701
5:04:17	20-JAN	183.738	179.488	174.85	3178.65	1548.36	0.3687
6:04:47	20-JAN	184.746	180.496	174.85	3182.91	1552.62	0.3673
7:05:17	20-JAN	185.755	181.505	174.85	3187.14	1556.85	0.3659
8:05:47	20-JAN	186.763	182.513	174.85	3191.34	1561.05	0.3645
9:06:17	20-JAN	187.771	183.521	174.85	3195.55	1565.26	0.3632
10:11:47	20-JAN	188.863	184.613	174.85	3200.05	1569.76	0.3617

TEST PHASE: SHUTIN PERIOD # 1

FINAL FLOW PRESSURE = 1630.29 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
11:11:47	20-JAN	189.863	185.613	174.85	3204.15	1573.86	0.3604
12:17:47	20-JAN	190.963	186.713	174.85	3208.69	1578.40	0.3590
13:22:17	20-JAN	192.038	187.788	174.87	3213.07	1582.78	0.3576
14:22:37	20-JAN	193.044	188.794	174.87	3217.13	1586.84	0.3563
15:23:17	20-JAN	194.055	189.805	174.85	3221.21	1590.92	0.3550
16:23:47	20-JAN	195.063	190.813	174.87	3225.28	1594.99	0.3537
17:24:17	20-JAN	196.071	191.821	174.87	3229.30	1599.01	0.3524
18:28:07	20-JAN	197.135	192.885	174.87	3233.55	1603.26	0.3511
19:32:07	20-JAN	198.202	193.952	174.87	3237.80	1607.51	0.3497
20:33:27	20-JAN	199.224	194.974	174.87	3241.82	1611.53	0.3485
21:33:57	20-JAN	200.232	195.982	174.87	3245.79	1615.50	0.3473
22:34:27	20-JAN	201.241	196.991	174.87	3249.74	1619.45	0.3460
23:34:57	20-JAN	202.249	197.999	174.87	3253.68	1623.39	0.3448
0:35:27	21-JAN	203.258	199.008	174.87	3257.59	1627.30	0.3436
1:37:17	21-JAN	204.288	200.038	174.87	3261.60	1631.31	0.3424
2:37:47	21-JAN	205.296	201.046	174.87	3265.44	1635.15	0.3412
3:38:07	21-JAN	206.302	202.052	174.87	3269.32	1639.03	0.3400
4:38:47	21-JAN	207.313	203.063	174.87	3273.17	1642.88	0.3388
5:39:17	21-JAN	208.321	204.071	174.88	3276.99	1646.70	0.3377
6:39:47	21-JAN	209.330	205.080	174.88	3280.81	1650.52	0.3365
7:39:47	21-JAN	210.330	206.080	174.88	3284.57	1654.28	0.3354
8:40:47	21-JAN	211.346	207.096	174.88	3288.40	1658.11	0.3342
9:47:27	21-JAN	212.458	208.208	174.88	3292.56	1662.27	0.3330
10:48:27	21-JAN	213.474	209.224	174.88	3296.36	1666.07	0.3319

TEST PHASE: FLOW PERIOD # 2

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
11:53:47	21-JAN	214.563	0.000	174.96	3299.66
12:09:27	21-JAN	214.824	0.261	175.23	3234.00
12:29:07	21-JAN	215.152	0.589	175.84	3230.23
12:46:07	21-JAN	215.435	0.872	176.18	3226.87
13:01:17	21-JAN	215.688	1.125	175.86	2931.61
13:16:37	21-JAN	215.944	1.381	176.54	2915.33
13:35:17	21-JAN	216.255	1.692	176.52	2919.70
13:50:17	21-JAN	216.505	1.942	176.23	2697.15
14:05:37	21-JAN	216.760	2.197	174.29	2582.83
14:21:27	21-JAN	217.024	2.461	173.14	2590.45
14:39:07	21-JAN	217.319	2.756	172.47	2596.61
14:54:07	21-JAN	217.569	3.006	171.86	2400.36
15:09:57	21-JAN	217.833	3.269	169.92	2316.49
15:25:17	21-JAN	218.088	3.525	168.60	2316.66
15:42:57	21-JAN	218.383	3.819	168.04	2315.13
15:57:57	21-JAN	218.633	4.069	169.90	2774.58
16:14:07	21-JAN	218.902	4.339	171.68	2807.30
16:29:17	21-JAN	219.155	4.592	172.98	2804.76
16:48:17	21-JAN	219.471	4.908	173.97	2800.56

TEST PHASE: FLOW PERIOD # 2

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
17:04:47	21-JAN	219.746	5.183	174.45	2795.20
17:22:47	21-JAN	220.046	5.483	174.79	2789.94
17:37:47	21-JAN	220.296	5.733	174.99	2783.87
17:54:47	21-JAN	220.580	6.017	175.12	2778.20
18:09:57	21-JAN	220.833	6.269	175.21	2772.77
18:31:37	21-JAN	221.194	6.631	175.32	2765.20
18:46:57	21-JAN	221.449	6.886	175.35	2759.22
19:00:17	21-JAN	221.671	7.108	175.41	2754.54

TEST PHASE: SHUTIN PERIOD # 2

FINAL FLOW PRESSURE = 2754.54 PSIA
PRODUCING TIME = 249.75 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
19:00:17	21-JAN	221.671	0.000	175.41	2754.54	0.00	
19:00:57	21-JAN	221.683	0.011	175.41	2806.66	52.12	4.3497
19:01:37	21-JAN	221.694	0.022	175.42	2861.43	106.89	4.0486
19:02:17	21-JAN	221.705	0.033	175.48	2905.11	150.57	3.8747
19:02:57	21-JAN	221.716	0.044	175.55	2939.22	184.68	3.7492
19:03:37	21-JAN	221.727	0.056	175.64	2965.18	210.64	3.6520
19:04:17	21-JAN	221.738	0.067	175.75	2984.51	229.97	3.5737
19:04:57	21-JAN	221.749	0.078	175.84	2998.69	244.15	3.5065
19:05:37	21-JAN	221.760	0.089	175.93	3009.02	254.48	3.4483
19:06:17	21-JAN	221.771	0.100	176.00	3016.72	262.18	3.3977
19:07:47	21-JAN	221.796	0.125	176.16	3027.90	273.36	3.3008
19:09:17	21-JAN	221.821	0.150	176.25	3034.53	279.99	3.2217
19:11:27	21-JAN	221.857	0.186	176.32	3040.58	286.04	3.1279
19:12:57	21-JAN	221.883	0.211	176.32	3043.54	289.00	3.0732
19:14:17	21-JAN	221.905	0.233	176.32	3045.58	291.04	3.0299
19:18:17	21-JAN	221.971	0.300	176.22	3050.76	296.22	2.9209
19:21:37	21-JAN	222.027	0.356	176.13	3053.93	299.39	2.8471
19:25:17	21-JAN	222.088	0.417	176.04	3056.84	302.30	2.7784
19:31:07	21-JAN	222.185	0.514	175.86	3060.56	306.02	2.6874
19:41:37	21-JAN	222.360	0.689	175.66	3065.84	311.30	2.5605
19:50:17	21-JAN	222.505	0.833	175.53	3069.35	314.81	2.4781
20:01:47	21-JAN	222.696	1.025	175.41	3073.16	318.62	2.3886
20:09:57	21-JAN	222.833	1.161	175.35	3075.57	321.03	2.3346
20:21:17	21-JAN	223.021	1.350	175.28	3078.50	323.96	2.2695
20:34:07	21-JAN	223.235	1.564	175.23	3081.56	327.02	2.2060
20:41:27	21-JAN	223.357	1.686	175.19	3083.10	328.56	2.1735
20:53:27	21-JAN	223.558	1.886	175.15	3085.51	330.97	2.1252
21:03:57	21-JAN	223.732	2.061	175.12	3087.59	333.05	2.0870
21:19:57	21-JAN	223.999	2.328	175.06	3090.77	336.23	2.0346
21:30:27	21-JAN	224.174	2.503	175.05	3092.93	338.39	2.0034
21:41:07	21-JAN	224.352	2.681	175.01	3095.20	340.66	1.9739
21:49:07	21-JAN	224.485	2.814	175.01	3096.94	342.40	1.9530
22:01:07	21-JAN	224.685	3.014	174.99	3099.61	345.07	1.9236
23:01:27	21-JAN	225.691	4.019	174.92	3113.64	359.10	1.8003
0:01:57	22-JAN	226.699	5.028	174.88	3127.97	373.43	1.7048

FIELD REPORT # 1078545

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TEST PHASE: SHUTIN PERIOD # 2

FINAL FLOW PRESSURE = 2754.54 PSIA

PRODUCING TIME = 249.95 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
1:03:47	22-JAN	227.730	6.058	174.87	3142.59	388.05	1.6256
2:04:17	22-JAN	228.738	7.067	174.87	3156.61	402.07	1.5604
3:04:47	22-JAN	229.746	8.075	174.87	3170.15	415.61	1.5042
4:05:17	22-JAN	230.755	9.083	174.88	3183.17	428.63	1.4548
4:07:47	22-JAN	230.796	9.125	174.88	3183.70	429.16	1.4529

RADIANT PLOT

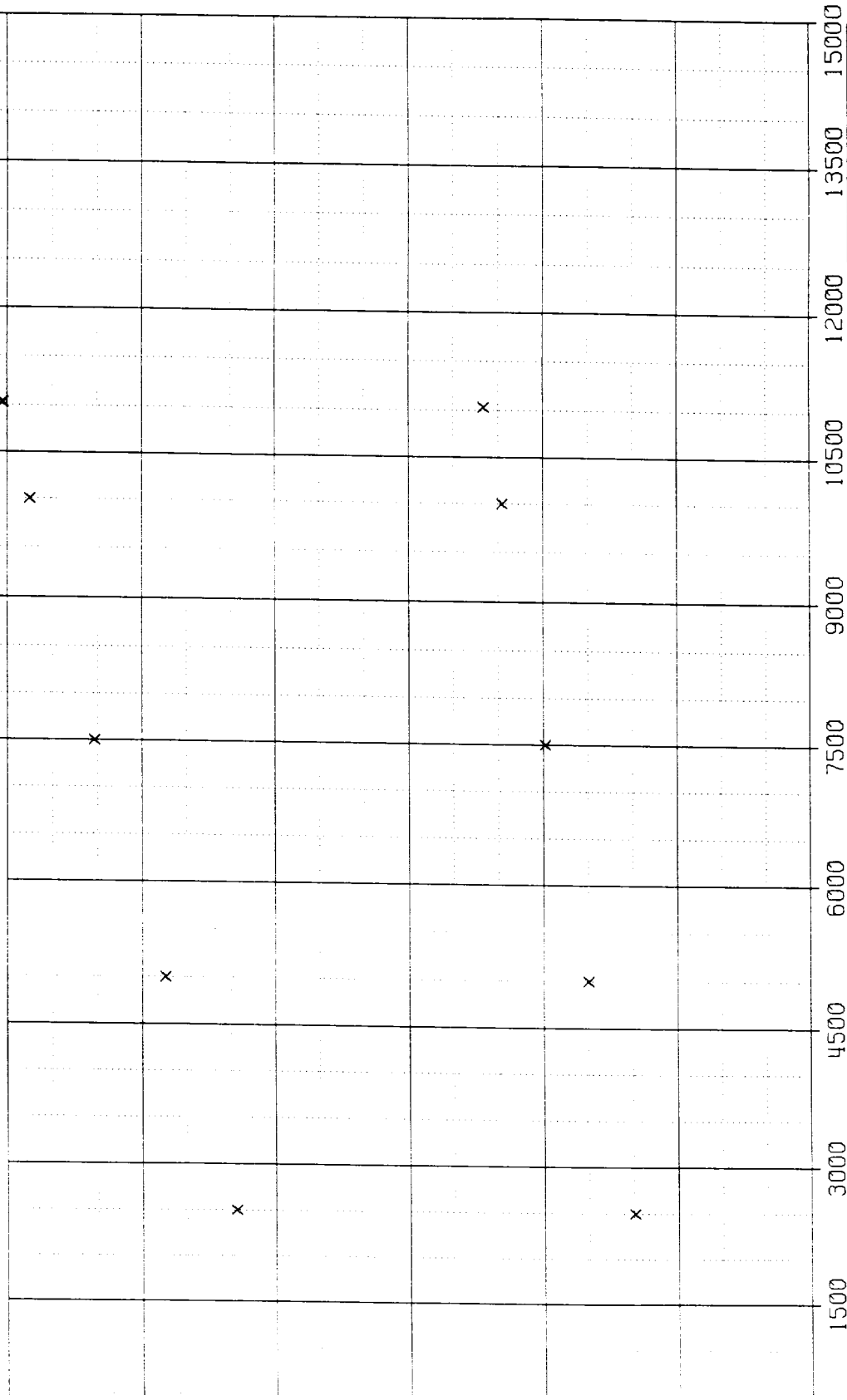
FIELD REPORT NO. 1078545
INSTRUMENT NO. SLR-833

UNIT : UXT U54 INI.

WELL : SPARK PLUG STATE #1

DEPTH REFERENCE : KB

Flowing and Static Traverses



Schlumberger

** WELL TEST DATA PRINTOUT **

COMPANY: OXY USA INC
WELL: SPARK PLUG STATE #1

FIELD REPORT NO. 1078545
INSTRUMENT NO. SLSR-833

RECORDER CAPACITY: 10000 PSI
DEPTH REFERENCE: KB

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
13:57:47	12-JAN	0.663	0.0	1198.1	
14:18:07	12-JAN	1.002	2500.0	1297.3	0.0397
14:30:17	12-JAN	1.205	5000.0	1398.9	0.0406
14:41:17	12-JAN	1.388	7500.0	1495.8	0.0388
14:51:57	12-JAN	1.566	10000.0	1591.2	0.0382
15:18:17	12-JAN	2.005	11037.0	1630.7	0.0381
11:51:37	16-JAN	94.560	11037.0	2710.2	
12:15:37	16-JAN	94.960	11030.0	2711.8	-0.221
12:23:47	16-JAN	95.096	10000.0	2651.6	0.0584
12:31:37	16-JAN	95.227	7500.0	2506.3	0.0581
12:40:07	16-JAN	95.369	5000.0	2347.1	0.0637
12:48:47	16-JAN	95.513	2500.0	2187.8	0.0637
12:57:07	16-JAN	95.652	0.0	2033.1	0.0619