

REPORT NO.
6722953

PAGE NO. 1

TEST DATE:
17-JUN-2001

S T A R

Schlumberger Testing Data Report

Pressure Data Report

Schlumberger

COMPANY: BTA OIL PRODUCERS

WELL: STATE 23 #1, DST #1

TEST IDENTIFICATION

Test Type CH-DST-SLSR-10K
Test No. ONE
Formation STRAWN+OTHERS
Test Interval (ft) 11356 to 12950
Depth Reference GL

WELL LOCATION

Field W/C
County LEA
State TEXAS
Sec/Twp/Rng S23T21SR34E
Elevation (ft) 3663

HOLE CONDITIONS

Total Depth (MD/TVD) (ft) 12950 MD
Hole Size (in) 6.125
Casing/Liner I.D. (in) 7.0 29#
Perf'd Interval/Net Pay (ft) .. / 10
Shot Density/Diameter (in) ...

MUD PROPERTIES

Mud Type OIL BASE MUD
Mud Weight (lb/gal) 11.2
Mud Resistivity (ohm.m)
Filtrate Resistivity (ohm.m)..
Filtrate Chlorides (ppm)

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi) 6778.00
Gas Cushion Type
Surface Pressure (psi)
Liquid Cushion Type
Cushion Length (ft) 5071

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in) ... 21755 / 6.184
Collar Length (ft)/I.D. (in) .. 841 / 2.25
Packer Depths (ft) 11271.
Bottomhole Choke Size (in)60
Gauge Depth (ft)/Type 11301/SLSR-1202

NET PIPE RECOVERY

Volume	Fluid Type	Properties
5071 ft	H2O CUSHION	Rw3.21696CF 2000ppm
10.0 bbl	GAS CUT OIL	
	BASE MUD	

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
9.32 cuft	Gas	
200 cc	Oil	
800 cc	Mud	
Pressure: 2350		GOR: 7402 GLR: 1480

INTERPRETATION RESULTS

Model of Behavior
Fluid Type Used for Analysis..
Reservoir Pressure (psi)
Transmissibility (md.ft/cp) ..
Effective Permeability (md) ..
Skin Factor/Damage Ratio
Storage 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) 165
Form.Vol.Factor (bbl/STB)

PRODUCTION RATE DURING TEST: Data Report

COMMENTS:

THIS CASED HOLE DST OF THE STRAWN,ATOKA,MORROW (11356-12950) WAS MECHANICALLY SUCCESSFULL.TOTAL RECOVERY EST.REVERSED CUT 10 BBL HEAVY GAS CUT MUD.ALSO RECOVERED 5071 FT WATER CUSHION.SAMPLE CHAMBER HAD OIL BASE MUD & CONDENSATE MIXED TOGETHER COULD NOT DETERMINE HOW MUCH WAS MUD & HOW MUCH CONDENSATE.THANK YOU FOR USING SCHLUMBERGER TESTING.

WELL TEST INTERPRET. ON REPORT #:6722953		PAGE: 2,
CLIENT : BTA OIL PRODUCERS		18-JUN-01
REGION :CSD	SEQUENCE OF EVENTS	FIELD:W/C
DISTRICT:MIDLAND		ZONE :STRAWN+OTHERS
BASE :MIDLAND		WELL :STATE 23 #1
ENGINEER:J.DAUGHERTY		LOCATION:S23T21SR34E

DATE	TIME (HR:MIN)	DESCRIPTION	ET (MINS)	BHP (PSIA)	WHP (PSIG)
17-JUN	07:15	HYDROSTATIC MUD	-11	6778	
	07:26	START FLOW ON 1/8" HOSE	0	2308	
	07:27	BOTTOM OF BUCKET	1		
	07:28	9.0 oz	2		
	07:29	9.25oz	3		
	07:30	9.50oz	4		
	07:31	10.0oz	5		
	07:36	11.0oz	10		
	07:36	END FLOW & START SHUT-IN	10	2408	
	08:36	END SHUT-IN	70	6732	
	08:39	START FLOW ON 1/8" HOSE	73	2593	
	08:39	BOB @ 20 SECONDS	73		
	08:40	10.5oz	74		
	08:41	11.0oz	75		
	08:43	11.5oz	77		
	08:44	12.0oz	78		
	08:54	12.5oz	88		
	09:14	15.0oz	108		
	09:19	16.0oz	113		
	09:29	25.0oz	123		
	09:34		128		2.4
	09:39		133		3.0
	09:44		138		3.6
	09:44	END FLOW & START SHUT-IN	138	3028	
	09:48	END SHUT-IN	142	3572	
	09:50	START FLOW ON 1/8" HOSE	144	3091	
	09:51		145		6.0
	09:53		147		7.6
	09:55		149		9.5
	10:00		154		10.0
	10:05		159		8.50

Continued next page

WELL TEST INTERPRET .ON REPORT #:6722953		PAGE: 3,
CLIENT : BTA OIL PRODUCERS		18-JUN-01
REGION :CSD	SEQUENCE OF EVENTS Continued	FIELD:W/C
DISTRICT:MIDLAND		ZONE :STRAWN+OTHERS
BASE :MIDLAND		WELL :STATE 23 #1
ENGINEER:J.DAUGHERTY		LOCATION:S23T21SR34E

DATE	TIME (HR:MIN)	DESCRIPTION	ET (MINS)	BHP (PSIA)	WHP (PSIG)
	10:10		164		7.0
	10:15		169		4.0
	10:20		174		2.5
	10:20	END FLOW & START SHUT-IN	174	3248	
	13:20	END SHUT-IN	354	6723	
	13:30	HYDROSTATIC MUD	364	6730	

BTA OIL PRODUCERS
STATE 23 #1, DST #1
TOOL STRING SCHEMATIC

	TOOL DESCRIPTION	OD	ID	LENGTH	DEPTH
	DRILL PIPE	3 1/2	2.602	10399	10399
	DRILL COLLARS	4.75	2.0	541.4	10940.4
	PUMPOUT DISK REVERSING VALVE	5.0	2.375	.99	10941.39
	DRILL COLLARS	4.75	2.0	90.0	11031.39
	BREAKOFF PIN REVERSING VALVE	4.75	2.375	1.02	11032.41
	DRILL COLLARS	4.75	2.25	210.0	11242.41
	X.O. SUB	4.75	2.125	.82	11243.23
	X.O. SUB	4.50	1.625	.76	11243.99
	MFE (MFEV-B)	4.25	0.60	10.0	11253.99
	MFE OH BYPASS (MBYP-B)	4.25	1.18	3.56	11257.55
	D & C HYDRAULIC JAR	4.75	1.88	6.62	11264.17
	SAFETY JOINT (SAJ-BA)	4.75	1.5	2.53	11266.7
	X.O. SUB	4.625	2.0	.85	11267.55
	6 5-7 5 POSITRIEVER PACKER	5.56	2.0	7.40	11274.95
	X.O. SUB	2.375	2.0	.34	11275.29
	SLOTTED TAIL PIPE	2.38	1.995	8.96	11284.25
	SLOTTED TAIL PIPE REC HANGER	2.38	1.995	8.43	11292.68
	SLOTTED TAIL PIPE REC HANGER	2.38	1.995	5.95	11298.63
	SLOTTED TAIL PIPE REC HANGER	2.38	1.995	7.30	11305.93
	CASING	7.0	6.184	11356	22661.93
	6 1/8 OPEN HOLE TD				22661.93

Report Number: 6722953
Test Number: ONE
Test Date: 17-JUN-2001

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BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 6722953

COMPANY : BTA OIL PRODUCERS

INSTRUMENT NO. SLSR-1202

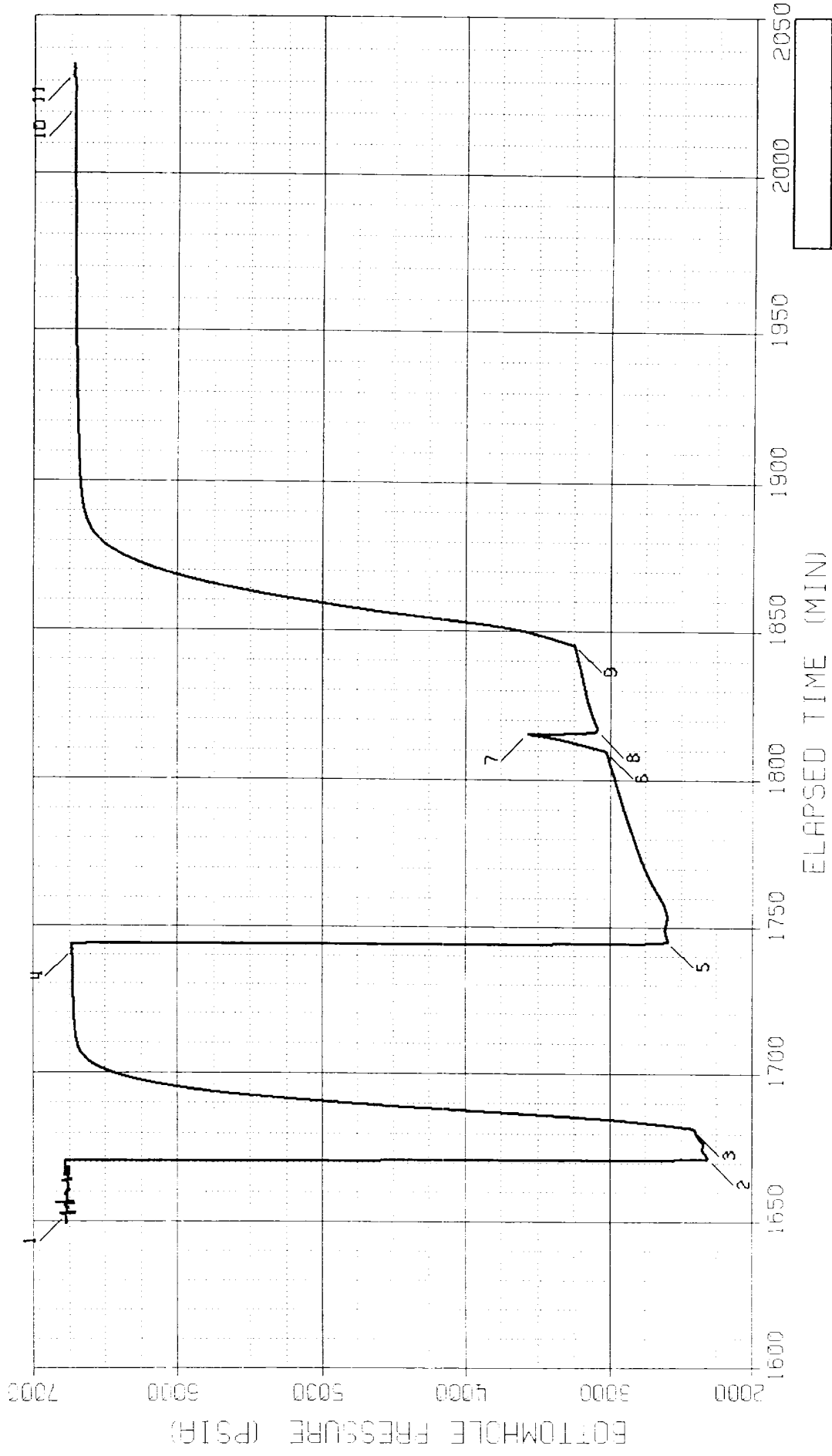
WELL : STATE 23 #1. DST #1

DEPTH : 11301 FT

CHIEF : 10000 PSI

PORT OPENING : OUTSIDE

Electronic Pressure Data



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BOTTOMHOLE TEMPERATURE LOG

FIELD REPORT NO. 6722953

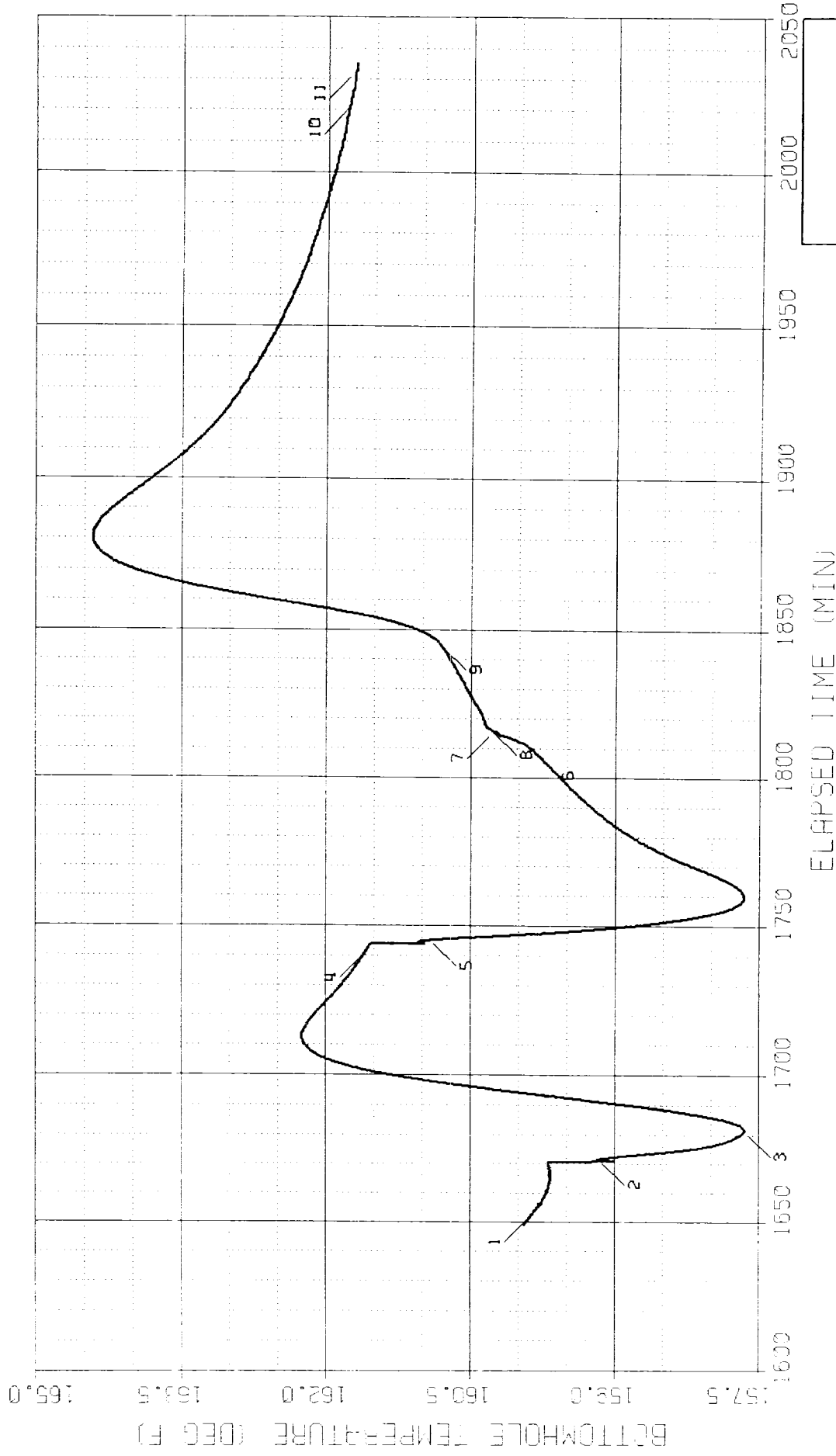
COMPANY : GTA OIL PRODUCERS

INSTRUMENT NO. SLSR-1202

WELL : STATE 23 #1, DST #1

DEPTH : 11301 FT

Electronic Temperature Data

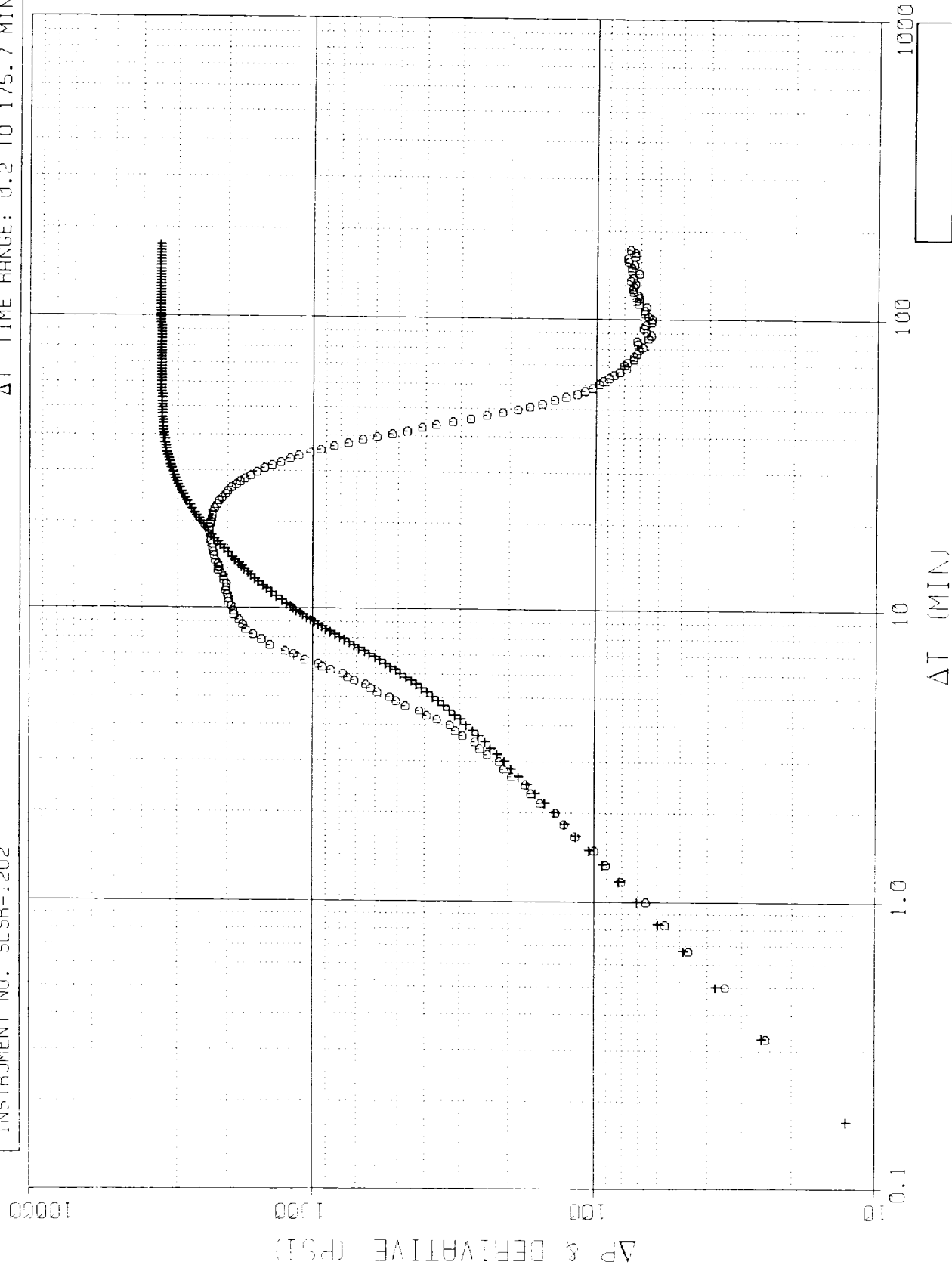


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LOG LOG PLOT

COMPANY : BTA OIL PRODUCERS
WELL : STATE 23 #1, DST #1
FIELD REPORT NO. 6722953
INSTRUMENT NO. SLSR-1202

SHUTIN #3 : PRODUCING TIME (Tp): 103.2 MIN
FINAL FLOW PRESSURE (Pwf): 3248 PSIA
PLOT ELAPSED TIME RANGE: 1845.4 TO 2020.9 MIN
AT TIME RANGE: 0.2 TO 175.7 MIN



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ΔT (MIN)

HORNER PLOT

FIELD REPORT NO. 6722953
INSTRUMENT NO. SLSR-1202

COMPANY : BIR OIL PRODUCERS

WELL : STATE 23 #1, DST #1

SHUTIN #3 : FINAL FLOW PRESSURE (P_{wf}): 3248 PSIA

PLOT ELAPSED TIME RANGE: 1845.4 TO 2020.9 MIN

ΔT TIME RANGE: 0.2 TO 175.7 MIN

PRODUCING TIME (T_p): 103.2 MIN

PRESSURE (PSIA)

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

Schlumberger

ΔT (MIN)

HORNER PLOT

FIELD REPORT NO. 6722953
INSTRUMENT NO. SLSR-1202

COMPANY : BTA OIL PRODUCERS

WELL : STATE 23 #1, DST #1

SHUTIN #2 : FINAL FLOW PRESSURE (Pwf): 3028 PSIA

PLOT ELAPSED TIME RANGE: 1809.9 TO 1815.4 MIN

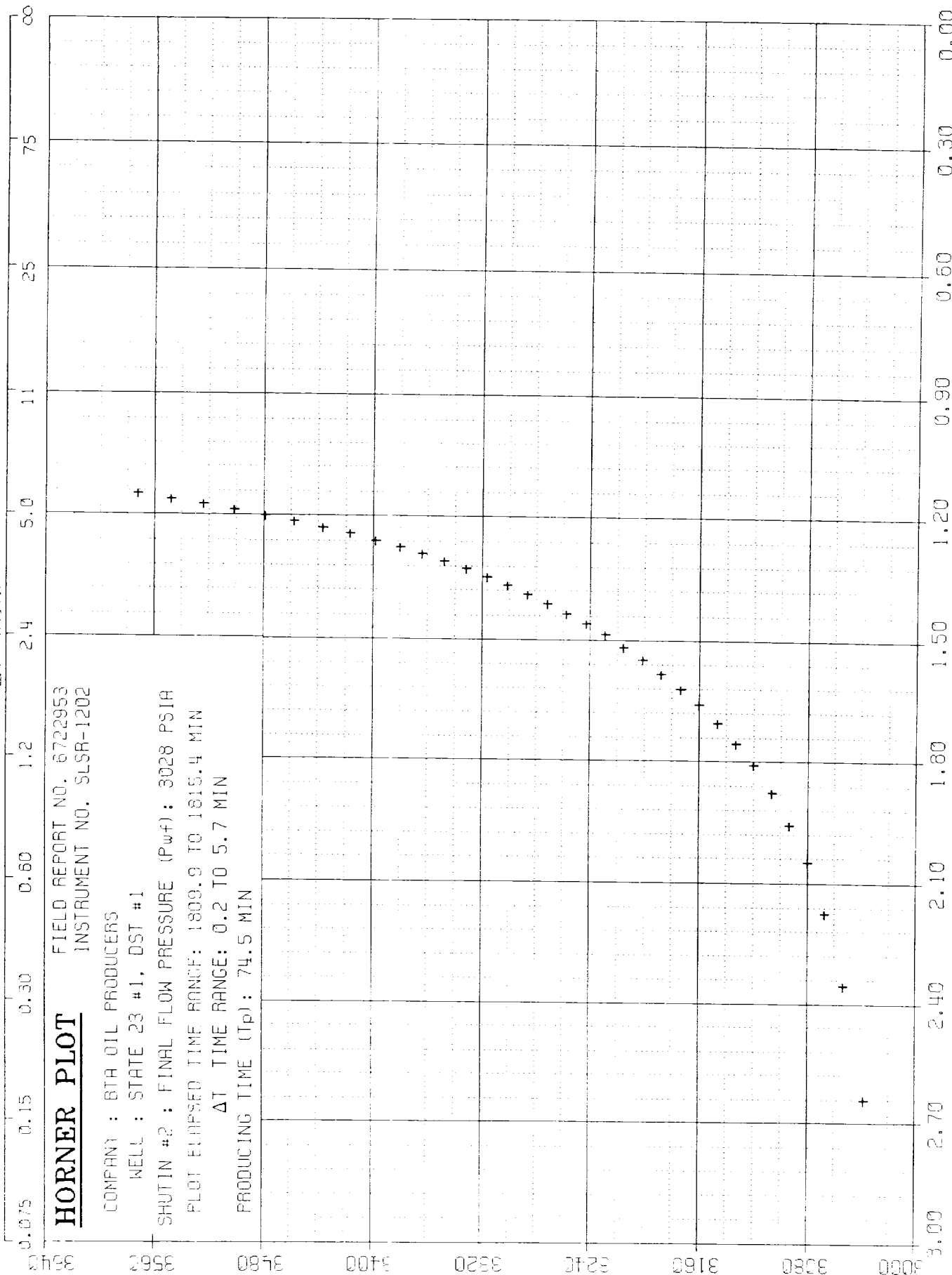
ΔT TIME RANGE: 0.2 TO 5.7 MIN

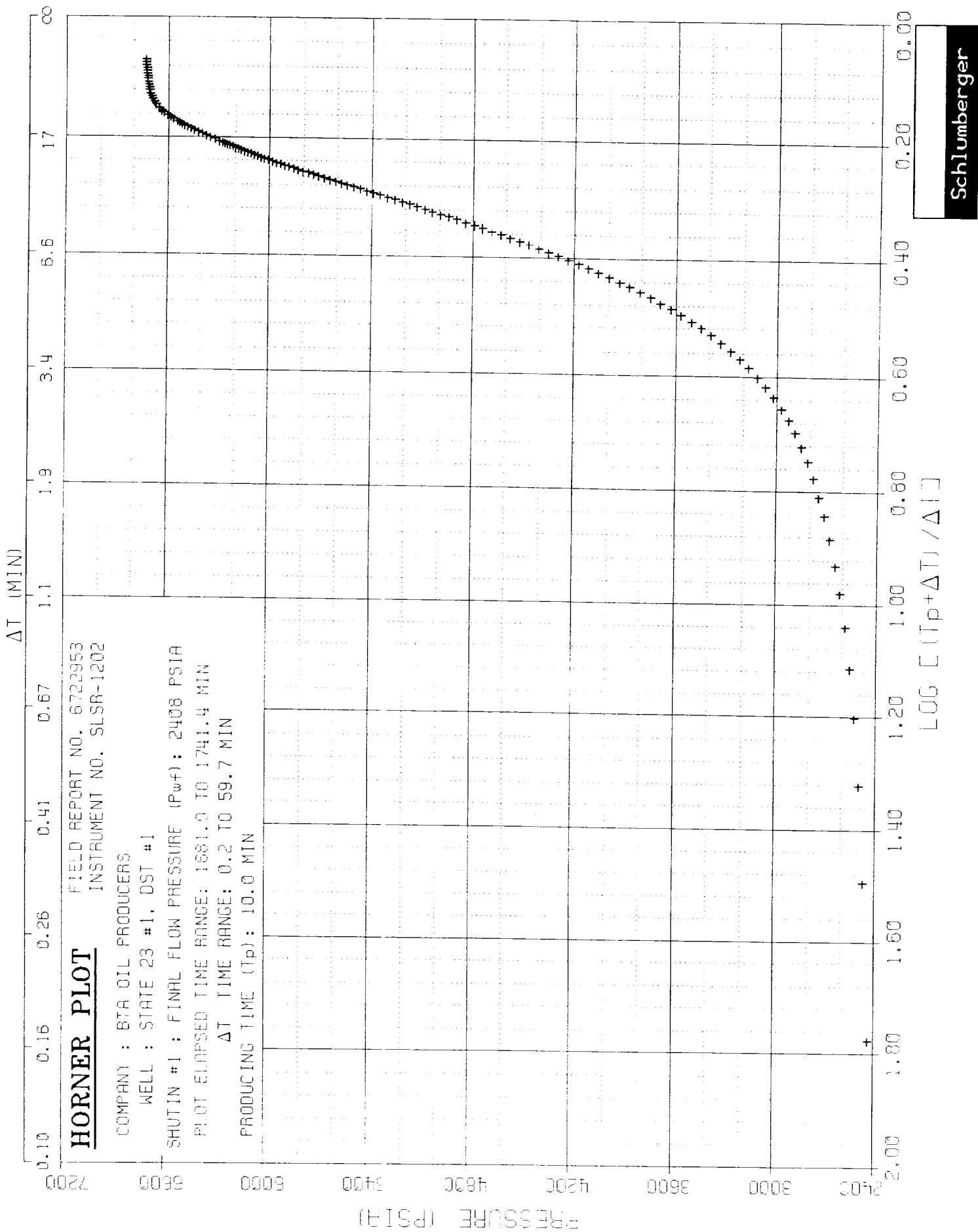
PRODUCING TIME (Tp): 74.5 MIN

PRESSURE (PSIA)

LOG [(Tp+ΔT) / ΔT]

Schlumberger





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 ** WELL TEST DATA PRINTOUT **

COMPANY: BTA OIL PRODUCERS
 WELL: STATE 23 #1, DST #1

FIELD REPORT NO. 6722953
 INSTRUMENT NO. SLSR-1202

RECORDER CAPACITY: 10000 PSI PORT OPENING: OUTSIDE DEPTH: 11301 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	7:08:55	17-JUN	HYDROSTATIC MUD	1651.92	6778.00	159.87
2	7:28:45	17-JUN	START FLOW	1671.75	2308.29	159.17
3	7:38:45	17-JUN	END FLOW & START SHUT-IN	1681.75	2407.75	157.64
4	8:38:25	17-JUN	END SHUT-IN	1741.42	6731.92	161.58
5	8:42:15	17-JUN	START FLOW	1745.25	2593.47	160.92
6	9:46:45	17-JUN	END FLOW & START SHUT-IN	1809.75	3027.95	159.87
7	9:52:25	17-JUN	END SHUT-IN	1815.42	3572.09	160.27
8	9:53:35	17-JUN	START FLOW	1816.58	3091.00	160.30
9	10:22:15	17-JUN	END FLOW & START SHUT-IN	1845.25	3247.55	160.83
10	13:17:55	17-JUN	END SHUT-IN	2020.92	6722.70	161.78
11	13:29:25	17-JUN	HYDROSTATIC MUD	2032.42	6730.46	161.73

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	1671.75	1681.75	10.00	2308.29	2407.75	2308.29
2	1745.25	1809.75	64.50	2593.47	3027.95	2593.47
3	1816.58	1845.25	28.67	3091.00	3247.55	3091.00

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	1681.75	1741.42	59.67	2407.75	6731.92	2407.75	10.00
2	1809.75	1815.42	5.67	3027.95	3572.09	3027.95	74.50
3	1845.25	2020.92	175.67	3247.55	6722.70	3247.55	103.17

TEST PHASE: FLOW PERIOD # 1

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MMM				
7:28:45	17-JUN	1671.75	0.00	159.17	2308.29
7:38:45	17-JUN	1681.75	10.00	157.64	2407.75

TEST PHASE: SHUTIN PERIOD # 1

FINAL FLOW PRESSURE = 2407.75 PSIA

PRODUCING TIME = 10.00 MIN

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS	DD-MMM						
7:38:45	17-JUN	1681.75	0.00	157.64	2407.75	0.00	
7:39:45	17-JUN	1682.75	1.00	157.68	2583.44	175.69	1.0414
7:40:45	17-JUN	1683.75	2.00	157.71	2778.66	370.91	0.7782
7:41:45	17-JUN	1684.75	3.00	157.82	3018.97	611.22	0.6368
7:42:45	17-JUN	1685.75	4.00	157.95	3334.30	926.55	0.5441
7:43:45	17-JUN	1686.75	5.00	158.11	3690.20	1282.45	0.4771
7:44:45	17-JUN	1687.75	6.00	158.31	4055.19	1647.44	0.4260
7:45:45	17-JUN	1688.75	7.00	158.52	4409.12	2001.37	0.3854
7:46:45	17-JUN	1689.75	8.00	158.77	4739.93	2332.18	0.3522
7:47:45	17-JUN	1690.75	9.00	159.03	5040.03	2632.28	0.3245
7:48:45	17-JUN	1691.75	10.00	159.30	5307.07	2899.32	0.3010
7:50:45	17-JUN	1693.75	12.00	159.85	5741.50	3333.75	0.2632
7:52:45	17-JUN	1695.75	14.00	160.39	6048.88	3641.13	0.2341
7:54:45	17-JUN	1697.75	16.00	160.88	6262.88	3855.13	0.2109
7:56:45	17-JUN	1699.75	18.00	161.28	6421.37	4013.62	0.1919
7:58:45	17-JUN	1701.75	20.00	161.60	6533.31	4125.56	0.1761
8:00:45	17-JUN	1703.75	22.00	161.85	6607.70	4199.95	0.1627
8:02:45	17-JUN	1705.75	24.00	162.03	6654.04	4246.29	0.1513
8:04:45	17-JUN	1707.75	26.00	162.16	6681.33	4273.58	0.1413
8:06:45	17-JUN	1709.75	28.00	162.21	6696.92	4289.17	0.1326
8:08:45	17-JUN	1711.75	30.00	162.25	6706.00	4298.25	0.1249
8:13:45	17-JUN	1716.75	35.00	162.19	6716.88	4309.13	0.1091
8:18:45	17-JUN	1721.75	40.00	162.07	6722.19	4314.44	0.0969
8:23:45	17-JUN	1726.75	45.00	161.94	6725.73	4317.98	0.0872
8:28:45	17-JUN	1731.75	50.00	161.80	6728.35	4320.60	0.0792
8:33:55	17-JUN	1736.92	55.17	161.69	6730.38	4322.63	0.0723
8:38:25	17-JUN	1741.42	59.67	161.58	6731.92	4324.17	0.0673

TEST PHASE: FLOW PERIOD # 2

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MMM				
8:42:15	17-JUN	1745.25	0.00	160.92	2593.47
8:57:15	17-JUN	1760.25	15.00	157.66	2648.93
9:12:15	17-JUN	1775.25	30.00	158.56	2800.24
9:27:15	17-JUN	1790.25	45.00	159.26	2905.06
9:42:15	17-JUN	1805.25	60.00	159.73	2999.73
9:46:45	17-JUN	1809.75	64.50	159.87	3027.95

TEST PHASE: SHUTIN PERIOD # 2

FINAL FLOW PRESSURE = 3027.95 PSIA

PRODUCING TIME = 74.50 MIN

TIME OF DAY	DATE	ELAPSED	DELTA	BOT HOLE TEMP.	BOT HOLE PRESSURE	DELTA P	LOG HORNER
HH:MM:SS	DD-MMM	TIME,MIN	TIME,MIN	DEG F	PSIA	PSI	TIME
9:46:45	17-JUN	1809.75	0.00	159.87	3027.95	0.00	
9:47:45	17-JUN	1810.75	1.00	159.91	3106.73	78.78	1.8779
9:48:45	17-JUN	1811.75	2.00	159.96	3187.30	159.35	1.5826
9:49:45	17-JUN	1812.75	3.00	160.03	3271.89	243.94	1.4122
9:50:45	17-JUN	1813.75	4.00	160.11	3363.53	335.58	1.2928
9:51:45	17-JUN	1814.75	5.00	160.21	3478.94	450.99	1.2014
9:52:25	17-JUN	1815.42	5.67	160.27	3572.09	544.14	1.1504

TEST PHASE: FLOW PERIOD # 3

TIME OF DAY	DATE	ELAPSED	DELTA	BOT HOLE TEMP.	BOT HOLE PRESSURE
HH:MM:SS	DD-MMM	TIME,MIN	TIME,MIN	DEG F	PSIA
9:53:35	17-JUN	1816.58	0.00	160.30	3091.00
10:08:35	17-JUN	1831.58	15.00	160.57	3180.04
10:22:15	17-JUN	1845.25	28.67	160.83	3247.55

TEST PHASE: SHUTIN PERIOD # 3

FINAL FLOW PRESSURE = 3247.55 PSIA

PRODUCING TIME = 103.17 MIN

TIME OF DAY	DATE	ELAPSED	DELTA	BOT HOLE TEMP.	BOT HOLE PRESSURE	DELTA P	LOG HORNER
HH:MM:SS	DD-MMM	TIME,MIN	TIME,MIN	DEG F	PSIA	PSI	TIME
10:22:15	17-JUN	1845.25	0.00	160.83	3247.55	0.00	
10:23:15	17-JUN	1846.25	1.00	160.84	3318.31	70.76	2.0177
10:24:15	17-JUN	1847.25	2.00	160.88	3385.30	137.75	1.7209
10:25:15	17-JUN	1848.25	3.00	160.93	3455.10	207.55	1.5489
10:26:15	17-JUN	1849.25	4.00	160.99	3529.98	282.43	1.4280
10:27:15	17-JUN	1850.25	5.00	161.06	3621.07	373.52	1.3351
10:28:15	17-JUN	1851.25	6.00	161.15	3735.17	487.62	1.2600
10:29:15	17-JUN	1852.25	7.00	161.26	3876.92	629.37	1.1970
10:30:15	17-JUN	1853.25	8.00	161.38	4050.14	802.59	1.1429
10:31:15	17-JUN	1854.25	9.00	161.51	4234.87	987.32	1.0956
10:32:15	17-JUN	1855.25	10.00	161.67	4415.00	1167.45	1.0537
10:34:15	17-JUN	1857.25	12.00	162.03	4742.19	1494.64	0.9822
10:36:15	17-JUN	1859.25	14.00	162.41	5027.22	1779.67	0.9227
10:38:15	17-JUN	1861.25	16.00	162.79	5285.58	2038.03	0.8720
10:40:15	17-JUN	1863.25	18.00	163.13	5516.55	2269.00	0.8281
10:42:15	17-JUN	1865.25	20.00	163.44	5721.39	2473.84	0.7895
10:44:15	17-JUN	1867.25	22.00	163.71	5900.67	2653.12	0.7551
10:46:15	17-JUN	1869.25	24.00	163.92	6055.30	2807.75	0.7242
10:48:15	17-JUN	1871.25	26.00	164.10	6186.68	2939.13	0.6962
10:50:15	17-JUN	1873.25	28.00	164.23	6296.27	3048.72	0.6707
10:52:15	17-JUN	1875.25	30.00	164.32	6386.07	3138.52	0.6473
10:57:15	17-JUN	1880.25	35.00	164.41	6537.25	3289.70	0.5963
11:02:15	17-JUN	1885.25	40.00	164.35	6613.90	3366.35	0.5538
11:07:15	17-JUN	1890.25	45.00	164.19	6649.92	3402.37	0.5175
11:12:15	17-JUN	1895.25	50.00	164.01	6667.18	3419.63	0.4862

TEST PHASE: SHUTIN PERIOD # 3

FINAL FLOW PRESSURE = 3247.55 PSIA

PRODUCING TIME = 103.17 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
11:17:15	17-JUN	1900.25	55.00	163.80	6676.58	3429.03	0.4588
11:22:15	17-JUN	1905.25	60.00	163.60	6682.78	3435.23	0.4345
11:27:15	17-JUN	1910.25	65.00	163.44	6687.35	3439.80	0.4128
11:32:15	17-JUN	1915.25	70.00	163.26	6691.02	3443.47	0.3934
11:37:15	17-JUN	1920.25	75.00	163.13	6694.16	3446.61	0.3758
11:42:15	17-JUN	1925.25	80.00	163.00	6696.77	3449.22	0.3598
11:47:15	17-JUN	1930.25	85.00	162.88	6699.10	3451.55	0.3451
11:52:15	17-JUN	1935.25	90.00	162.79	6701.17	3453.62	0.3317
11:57:15	17-JUN	1940.25	95.00	162.68	6703.07	3455.52	0.3193
12:02:15	17-JUN	1945.25	100.00	162.59	6704.78	3457.23	0.3079
12:07:15	17-JUN	1950.25	105.00	162.50	6706.41	3458.86	0.2972
12:12:15	17-JUN	1955.25	110.00	162.43	6707.98	3460.43	0.2873
12:17:15	17-JUN	1960.25	115.00	162.36	6709.44	3461.89	0.2781
12:22:15	17-JUN	1965.25	120.00	162.28	6710.86	3463.31	0.2695
12:27:15	17-JUN	1970.25	125.00	162.23	6712.21	3464.66	0.2613
12:32:15	17-JUN	1975.25	130.00	162.18	6713.54	3465.99	0.2537
12:37:15	17-JUN	1980.25	135.00	162.12	6714.74	3467.19	0.2466
12:42:15	17-JUN	1985.25	140.00	162.07	6715.95	3468.40	0.2398
12:47:15	17-JUN	1990.25	145.00	162.03	6717.01	3469.46	0.2334
12:52:15	17-JUN	1995.25	150.00	161.98	6718.06	3470.51	0.2273
12:57:15	17-JUN	2000.25	155.00	161.94	6719.05	3471.50	0.2216
13:02:15	17-JUN	2005.25	160.00	161.91	6719.98	3472.43	0.2161
13:07:15	17-JUN	2010.25	165.00	161.87	6720.93	3473.38	0.2109
13:12:15	17-JUN	2015.25	170.00	161.82	6721.74	3474.19	0.2060
13:17:15	17-JUN	2020.25	175.00	161.80	6722.58	3475.03	0.2013
13:17:55	17-JUN	2020.92	175.67	161.78	6722.70	3475.15	0.2007

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 6722953

COMPANY : BTA OIL PRODUCERS

INSTRUMENT NO. SLSR-946

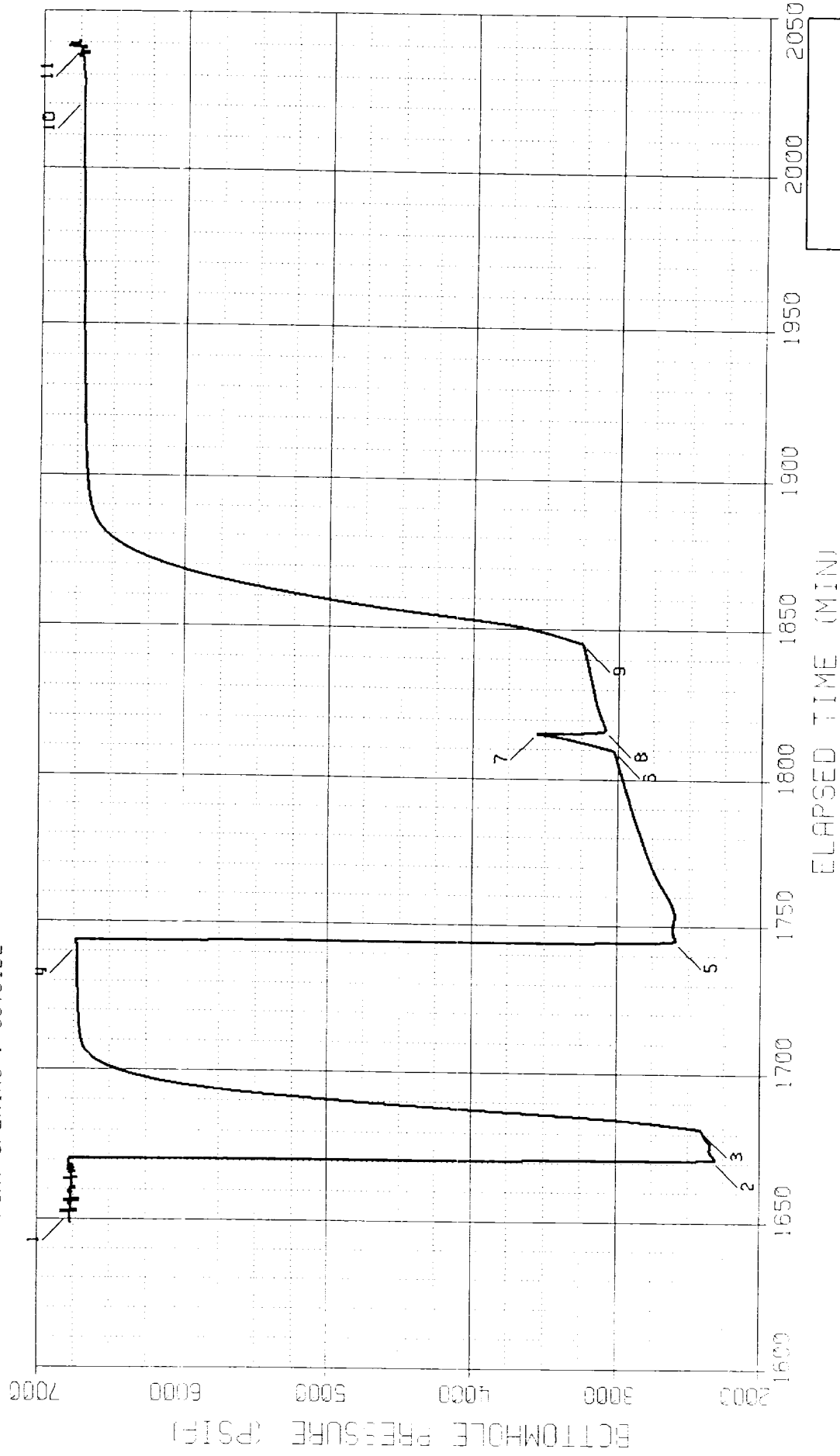
WELL : STATE 23 #1, DST #1

DEPTH : 11296 FT

CAPACITY : 10000 PSI

Electronic Pressure Data

PORT OPENING : OUTSIDE



Schlumberger

BOTTOMHOLE TEMPERATURE LOG

FIELD REPORT NO. 6722953

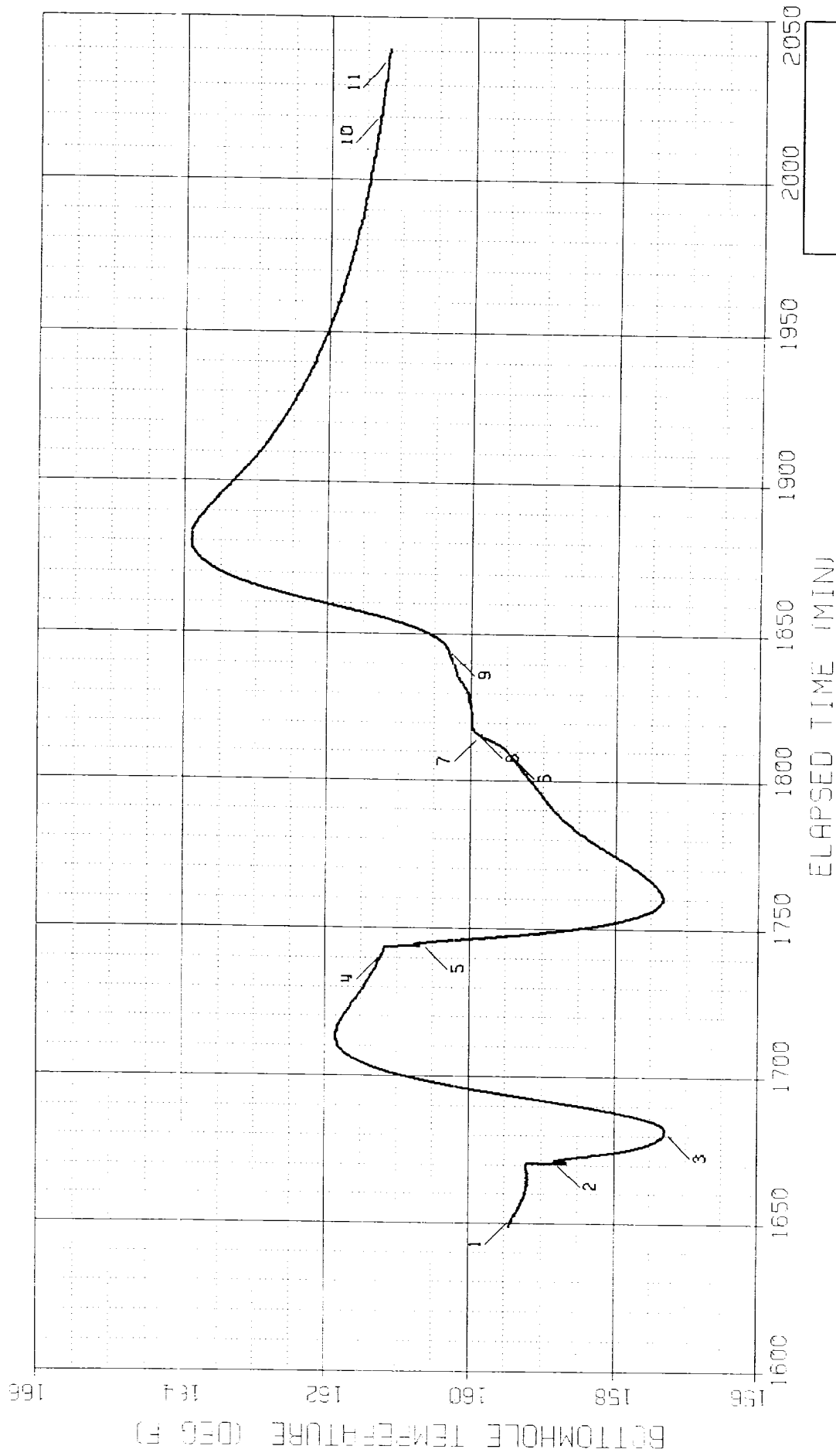
COMPANY : BTA OIL PRODUCERS

INSTRUMENT NO. SLSR-946

WELL : STATE 23 #1, DST #1

DEPTH : 11296 FT

Electronic Temperature Data

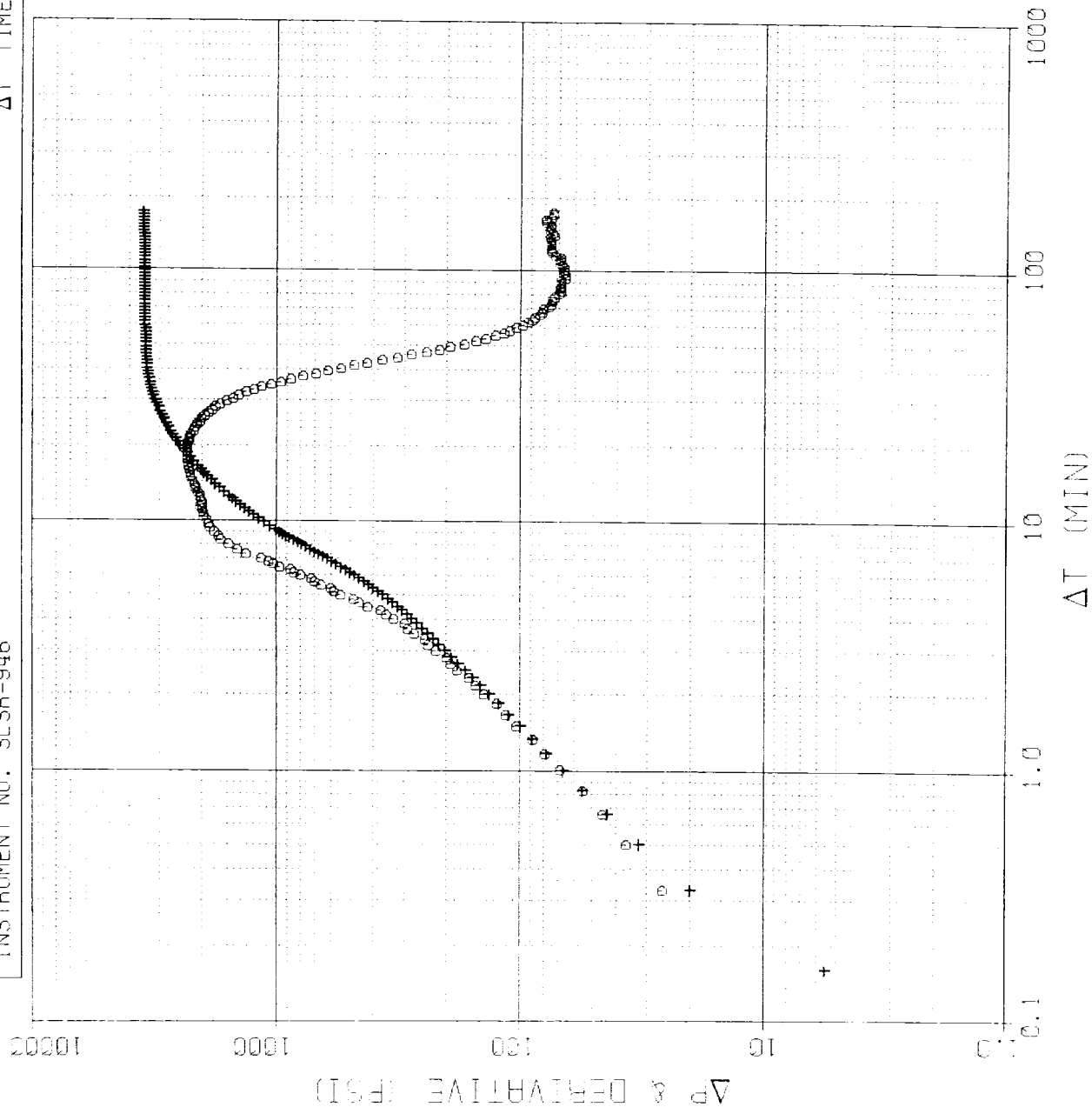


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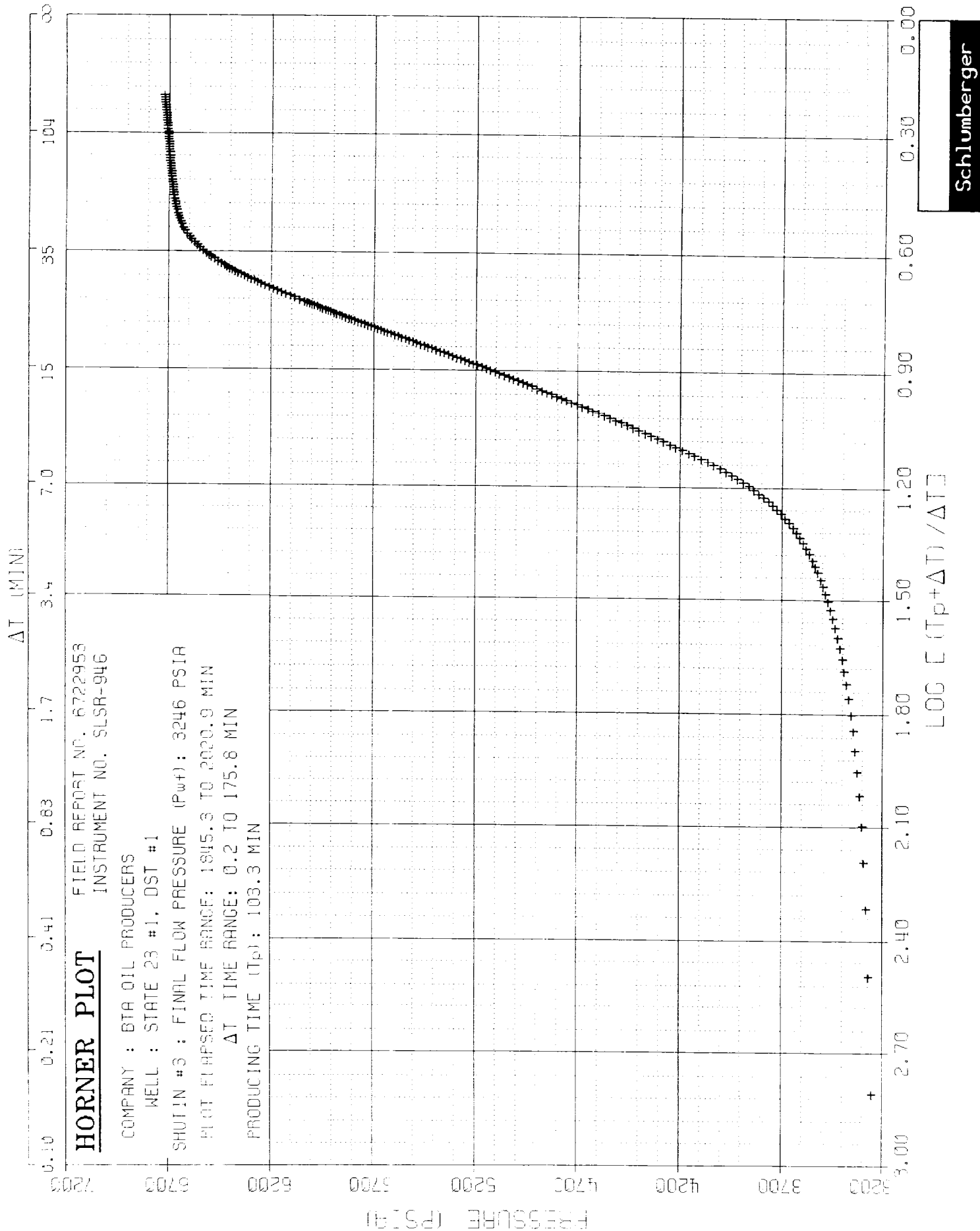
LOG LOG PLOT

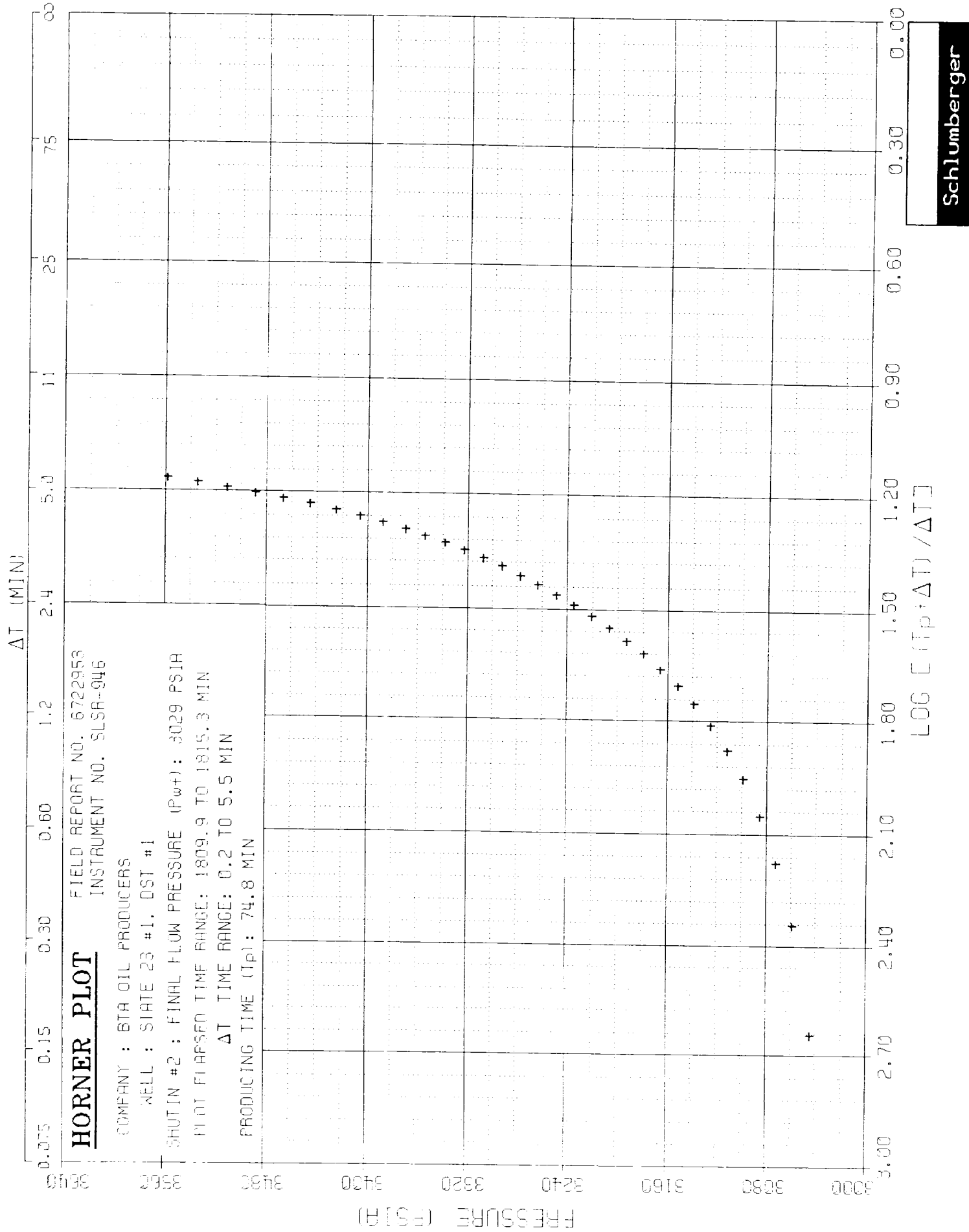
COMPANY : BTA OIL PRODUCERS
WELL : STATE 23 #1, DST #1
FIELD REPORT NO. 6722953
INSTRUMENT NO. SLSR-946

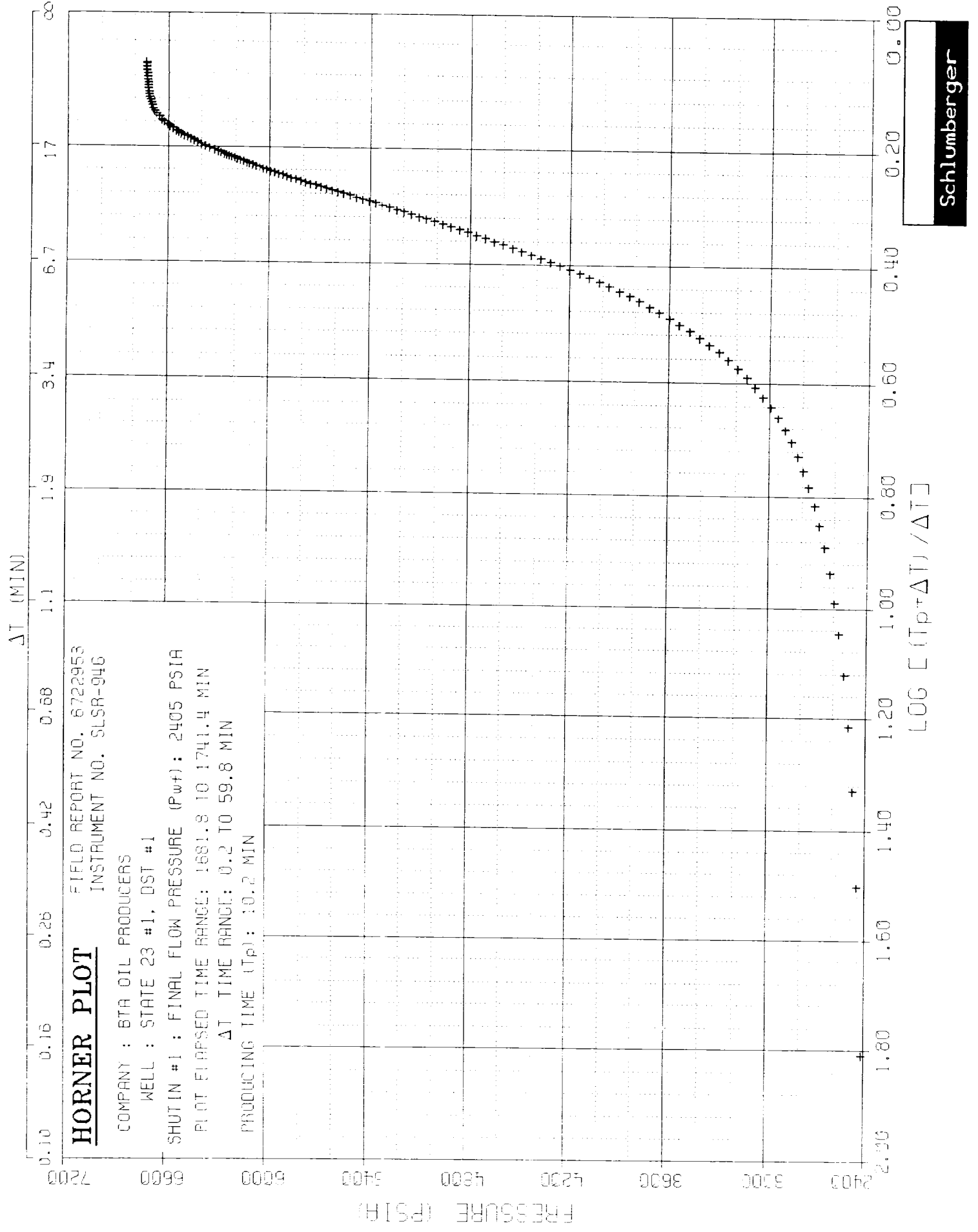
SHUTIN #3 : PRODUCING TIME (Tp): 103.3 MIN
FINAL FLOW PRESSURE (Pwf): 3246 PSIA
PLOT ELAPSED TIME RANGE: 1845.3 TO 2020.9 MIN
 ΔT TIME RANGE: 0.2 TO 175.6 MIN



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 ** WELL TEST DATA PRINTOUT **

COMPANY: BTA OIL PRODUCERS
 WELL: STATE 23 #1, DST #1

FIELD REPORT NO. 6722953
 INSTRUMENT NO. SLSR-946

RECORDER CAPACITY: 10000 PSI PORT OPENING: OUTSIDE DEPTH: 11296 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	7:06:37	17-JUN	HYDROSTATIC MUD	1651.62	6775.97	159.40
2	7:26:27	17-JUN	START FLOW	1671.45	2327.46	158.83
3	7:36:37	17-JUN	END FLOW & START SHUT-IN	1681.62	2405.44	157.30
4	8:36:27	17-JUN	END SHUT-IN	1741.45	6730.32	161.20
5	8:40:07	17-JUN	START FLOW	1745.12	2594.19	160.66
6	9:44:47	17-JUN	END FLOW & START SHUT-IN	1809.78	3029.12	159.49
7	9:50:17	17-JUN	END SHUT-IN	1815.28	3558.02	159.87
8	9:51:37	17-JUN	START FLOW	1816.62	3088.97	159.93
9	10:20:07	17-JUN	END FLOW & START SHUT-IN	1845.12	3245.57	160.32
10	13:15:57	17-JUN	END SHUT-IN	2020.95	6721.79	161.31
11	13:32:57	17-JUN	HYDROSTATIC MUD	2037.95	6740.88	161.22

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	1671.45	1681.62	10.17	2327.46	2405.44	2327.46
2	1745.12	1809.78	64.66	2594.19	3029.12	2594.19
3	1816.62	1845.12	28.50	3088.97	3245.57	3088.97

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	1681.62	1741.45	59.83	2405.44	6730.32	2405.44	10.17
2	1809.78	1815.28	5.50	3029.12	3558.02	3029.12	74.83
3	1845.12	2020.95	175.83	3245.57	6721.79	3245.57	103.33

TEST PHASE: FLOW PERIOD # 1

TIME OF DAY	DATE	ELAPSED	DELTA	BOT HOLE TEMP.	BOT HOLE PRESSURE
HH:MM:SS	DD-MMM	TIME,MIN	TIME,MIN	DEG F	PSIA
7:26:27	17-JUN	1671.45	0.00	158.83	2327.46
7:36:37	17-JUN	1681.62	10.17	157.30	2405.44

TEST PHASE: SHUTIN PERIOD # 1

FINAL FLOW PRESSURE = 2405.44 PSIA
PRODUCING TIME = 10.17 MIN

TIME OF DAY	DATE	ELAPSED	DELTA	BOT HOLE TEMP.	BOT HOLE PRESSURE	DELTA P	LOG HORNER
HH:MM:SS	DD-MMM	TIME,MIN	TIME,MIN	DEG F	PSIA	PSI	TIME
7:36:37	17-JUN	1681.62	0.00	157.30	2405.44	0.00	
7:37:37	17-JUN	1682.62	1.00	157.30	2565.19	159.75	1.0481
7:38:37	17-JUN	1683.62	2.00	157.35	2757.72	352.28	0.7843
7:39:37	17-JUN	1684.62	3.00	157.44	2992.16	586.72	0.6425
7:40:37	17-JUN	1685.62	4.00	157.57	3301.42	895.98	0.5493
7:41:37	17-JUN	1686.62	5.00	157.73	3655.03	1249.59	0.4820
7:42:37	17-JUN	1687.62	6.00	157.91	4020.15	1614.71	0.4306
7:43:37	17-JUN	1688.62	7.00	158.13	4375.74	1970.30	0.3897
7:44:37	17-JUN	1689.62	8.00	158.34	4709.06	2303.62	0.3563
7:45:37	17-JUN	1690.62	9.00	158.59	5012.22	2606.78	0.3284
7:46:37	17-JUN	1691.62	10.00	158.85	5282.41	2876.97	0.3047
7:48:37	17-JUN	1693.62	12.00	159.39	5722.85	3317.41	0.2666
7:50:37	17-JUN	1695.62	14.00	159.93	6035.91	3630.47	0.2371
7:52:37	17-JUN	1697.62	16.00	160.39	6252.86	3847.42	0.2137
7:54:37	17-JUN	1699.62	18.00	160.81	6413.72	4008.28	0.1945
7:56:37	17-JUN	1701.62	20.00	161.15	6527.61	4122.17	0.1785
7:58:37	17-JUN	1703.62	22.00	161.40	6603.47	4198.03	0.1650
8:00:37	17-JUN	1705.62	24.00	161.58	6650.82	4245.38	0.1534
8:02:37	17-JUN	1707.62	26.00	161.73	6678.75	4273.31	0.1434
8:04:37	17-JUN	1709.62	28.00	161.80	6694.74	4289.30	0.1346
8:06:37	17-JUN	1711.62	30.00	161.83	6704.00	4298.56	0.1268
8:11:37	17-JUN	1716.62	35.00	161.82	6715.12	4309.68	0.1108
8:16:37	17-JUN	1721.62	40.00	161.71	6720.47	4315.03	0.0984
8:21:37	17-JUN	1726.62	45.00	161.56	6724.04	4318.60	0.0885
8:26:37	17-JUN	1731.62	50.00	161.42	6726.66	4321.22	0.0804
8:31:37	17-JUN	1736.62	55.00	161.31	6728.67	4323.23	0.0737
8:36:27	17-JUN	1741.45	59.83	161.20	6730.32	4324.88	0.0682

TEST PHASE: FLOW PERIOD # 2

TIME OF DAY	DATE	ELAPSED	DELTA	BOT HOLE TEMP.	BOT HOLE PRESSURE
HH:MM:SS	DD-MMM	TIME,MIN	TIME,MIN	DEG F	PSIA
8:40:07	17-JUN	1745.12	0.00	160.66	2594.19
8:55:07	17-JUN	1760.12	15.00	157.33	2646.77
9:10:07	17-JUN	1775.12	30.00	158.04	2798.49
9:25:07	17-JUN	1790.12	45.00	158.86	2903.46
9:40:07	17-JUN	1805.12	60.00	159.33	2998.17
9:44:47	17-JUN	1809.78	64.66	159.49	3029.12

TEST PHASE: SHUTIN PERIOD # 2

FINAL FLOW PRESSURE = 3029.12 PSIA

PRODUCING TIME = 74.83 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
9:44:47	17-JUN	1809.78	0.00	159.49	3029.12	0.00	
9:45:47	17-JUN	1810.78	1.00	159.53	3111.86	82.74	1.8798
9:46:47	17-JUN	1811.78	2.00	159.57	3192.71	163.59	1.5845
9:47:47	17-JUN	1812.78	3.00	159.64	3277.64	248.52	1.4140
9:48:47	17-JUN	1813.78	4.00	159.71	3369.53	340.41	1.2946
9:49:47	17-JUN	1814.78	5.00	159.82	3488.31	459.19	1.2032
9:50:17	17-JUN	1815.28	5.50	159.87	3558.02	528.90	1.1645

TEST PHASE: FLOW PERIOD # 3

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
9:51:37	17-JUN	1816.62	0.00	159.93	3088.97
10:06:37	17-JUN	1831.62	15.00	160.07	3179.37
10:20:07	17-JUN	1845.12	28.50	160.32	3245.57

TEST PHASE: SHUTIN PERIOD # 3

FINAL FLOW PRESSURE = 3245.57 PSIA

PRODUCING TIME = 103.33 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
10:20:07	17-JUN	1845.12	0.00	160.32	3245.57	0.00	
10:21:07	17-JUN	1846.12	1.00	160.34	3311.52	65.95	2.0184
10:22:07	17-JUN	1847.12	2.00	160.38	3378.31	132.74	1.7215
10:23:07	17-JUN	1848.12	3.00	160.43	3447.73	202.16	1.5495
10:24:07	17-JUN	1849.12	4.00	160.50	3522.04	276.47	1.4287
10:25:07	17-JUN	1850.12	5.00	160.57	3611.05	365.48	1.3358
10:26:07	17-JUN	1851.12	6.00	160.66	3723.31	477.74	1.2606
10:27:07	17-JUN	1852.12	7.00	160.77	3862.24	616.67	1.1976
10:28:07	17-JUN	1853.12	8.00	160.90	4033.35	787.78	1.1435
10:29:07	17-JUN	1854.12	9.00	161.02	4217.96	972.39	1.0963
10:30:07	17-JUN	1855.12	10.00	161.19	4398.81	1153.24	1.0543
10:32:07	17-JUN	1857.12	12.00	161.53	4728.07	1482.50	0.9828
10:34:07	17-JUN	1859.12	14.00	161.89	5014.37	1768.80	0.9233
10:36:07	17-JUN	1861.12	16.00	162.27	5274.03	2028.46	0.8726
10:38:07	17-JUN	1863.12	18.00	162.61	5506.10	2260.53	0.8287
10:40:07	17-JUN	1865.12	20.00	162.91	5712.01	2466.44	0.7900
10:42:07	17-JUN	1867.12	22.00	163.18	5892.39	2646.82	0.7556
10:44:07	17-JUN	1869.12	24.00	163.40	6048.05	2802.48	0.7247
10:46:07	17-JUN	1871.12	26.00	163.56	6180.40	2934.83	0.6967
10:48:07	17-JUN	1873.12	28.00	163.71	6290.89	3045.32	0.6712
10:50:07	17-JUN	1875.12	30.00	163.81	6381.49	3135.92	0.6478
10:55:07	17-JUN	1880.12	35.00	163.90	6534.24	3288.67	0.5968
11:00:07	17-JUN	1885.12	40.00	163.87	6611.88	3366.31	0.5543
11:05:07	17-JUN	1890.12	45.00	163.71	6648.35	3402.78	0.5180
11:10:07	17-JUN	1895.12	50.00	163.53	6665.79	3420.22	0.4867

TEST PHASE: SHUTIN PERIOD # 3

FINAL FLOW PRESSURE = 3245.57 PSIA

PRODUCING TIME = 103.33 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
11:15:07	17-JUN	1900.12	55.00	163.33	6675.37	3429.80	0.4592
11:20:07	17-JUN	1905.12	60.00	163.13	6681.51	3435.94	0.4349
11:25:07	17-JUN	1910.12	65.00	162.97	6686.09	3440.52	0.4132
11:30:07	17-JUN	1915.12	70.00	162.81	6689.82	3444.25	0.3938
11:35:07	17-JUN	1920.12	75.00	162.66	6692.91	3447.34	0.3762
11:40:07	17-JUN	1925.12	80.00	162.54	6695.56	3449.99	0.3601
11:45:07	17-JUN	1930.12	85.00	162.41	6697.94	3452.37	0.3455
11:50:07	17-JUN	1935.12	90.00	162.30	6700.06	3454.49	0.3321
11:55:07	17-JUN	1940.12	95.00	162.19	6701.95	3456.38	0.3197
12:00:07	17-JUN	1945.12	100.00	162.10	6703.69	3458.12	0.3082
12:05:07	17-JUN	1950.12	105.00	162.03	6705.34	3459.77	0.2976
12:10:07	17-JUN	1955.12	110.00	161.94	6706.90	3461.33	0.2877
12:15:07	17-JUN	1960.12	115.00	161.87	6708.39	3462.82	0.2784
12:20:07	17-JUN	1965.12	120.00	161.82	6709.80	3464.23	0.2698
12:25:07	17-JUN	1970.12	125.00	161.74	6711.21	3465.64	0.2617
12:30:07	17-JUN	1975.12	130.00	161.69	6712.54	3466.97	0.2540
12:35:17	17-JUN	1980.28	135.16	161.64	6713.79	3468.22	0.2466
12:40:17	17-JUN	1985.28	140.16	161.58	6714.98	3469.41	0.2399
12:45:17	17-JUN	1990.28	145.16	161.55	6716.06	3470.49	0.2335
12:50:17	17-JUN	1995.28	150.16	161.51	6717.12	3471.55	0.2274
12:55:17	17-JUN	2000.28	155.16	161.46	6718.11	3472.54	0.2217
13:00:17	17-JUN	2005.28	160.16	161.42	6719.06	3473.49	0.2162
13:05:17	17-JUN	2010.28	165.16	161.38	6720.01	3474.44	0.2110
13:10:17	17-JUN	2015.28	170.16	161.35	6720.84	3475.27	0.2061
13:15:17	17-JUN	2020.28	175.16	161.33	6721.69	3476.12	0.2014
13:15:57	17-JUN	2020.95	175.83	161.31	6721.79	3476.22	0.2008

WELL TEST INTERPRET: ON REPORT #:6722953		PAGE: 12,
CLIENT : BTA OIL PRODUCERS		18-JUN-01
REGION :CSD	DISTRIBUTION OF REPORTS	FIELD:W/C
DISTRICT:MIDLAND		ZONE :STRAWN+OTHERS
BASE :MIDLAND		WELL :STATE 23 #1
ENGINEER:J.DAUGHERTY		LOCATION:S23T21SR34E

SCHLUMBERGER has sent copies of this report to the following:

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BTA OIL PRODUCERS
104 S. PECOS
MIDLAND, TX 79701
Attn: BUD JOHNSON
(3 copies)

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