

REPORT NO:

48020E

WELL PERFORMANCE
TESTING™ REPORT

FLOPETROL JOHNSTON

Schlumberger

TEST DATE:

Oct. 4, 1984

A Production System Analysis (NODAL™)
Based on Model Verified™ Interpretation

PAGE NO: 1

Company: Tipperary Oil & Gas Corporation

Well: Jons State 4-#1

TEST IDENTIFICATION

Test Type MFE OH
 Test No. One
 Formation Clear Fork
 Test Interval (ft) 7221 to 7317
 Reference Depth Kelly Bushing

WELL LOCATION

Field Wildcat (Non-Des)
 County Lea
 State New Mexico
 Sec/Twn/Rng 4/27W/37E
 Elevation (ft) 3780

HOLE CONDITIONS

Total Depth (MD/TVD) (ft) - / 7317
 Hole Size (in) 7 7/8
 Csg/Liner I.D. (in) ---
 Perf'd Interval/Net Pay (ft) ---
 Shot Density/Diameter (in) ---

MUD PROPERTIES

Mud Type Fresh Water
 Mud Weight (lb/gal) 8.34
 Mud Resistivity (OHM-M) 1.5 @ 70
 Filtrate Resistivity (OHM-M) .. ---
 Filtrate Chlorides (PPM) 1500

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi) 3197
 Gas Cushion Type None
 Surface Pressure (psi) ---
 Liquid Cushion Type None
 Cushion Length (ft) ---

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in) 6791 / 3.83
 Collar Length (ft)/I.D. (in) 394 / 2.25
 Packer Depth(s) (ft) 7215 / 7221
 BH Choke Size (in) 15/16
 Gauge Depth (ft)/Type 7310 / J-200

NET PIPE RECOVERY

Volume	Fluid Type	Properties
330 Feet	Water with	1,500 PPM
	trace of Oil	Res. 1.5 @ 70°

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
.05 Ft3	Gas	
20 cc	Oil	
1860 cc	Water	1,500 PPM
Pressure: 82	GOR: 398	GLR: 4

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
 Interporosity Flow Coeff
 Distance To An Anomaly (ft) ...
 Radius of Investigation (ft) ...
 Potentiometric Surface (ft) ...

ROCK/FLUID/WELLBORE PROPERTIES

Oil API
 Basic Solids
 Gas Gravity
 Water Cut (%)
 Viscosity (cp)
 Total Compressibility (1/psi) ..
 Porosity (%) 6
 Reservoir Temperature (F) 130

PRODUCTION RATE DURING TEST:

COMMENTS:

Initial flow: No blow.
 Final flow : Very weak blow, 1/4" in water.

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 * WELL TEST DATA PRINTOUT *

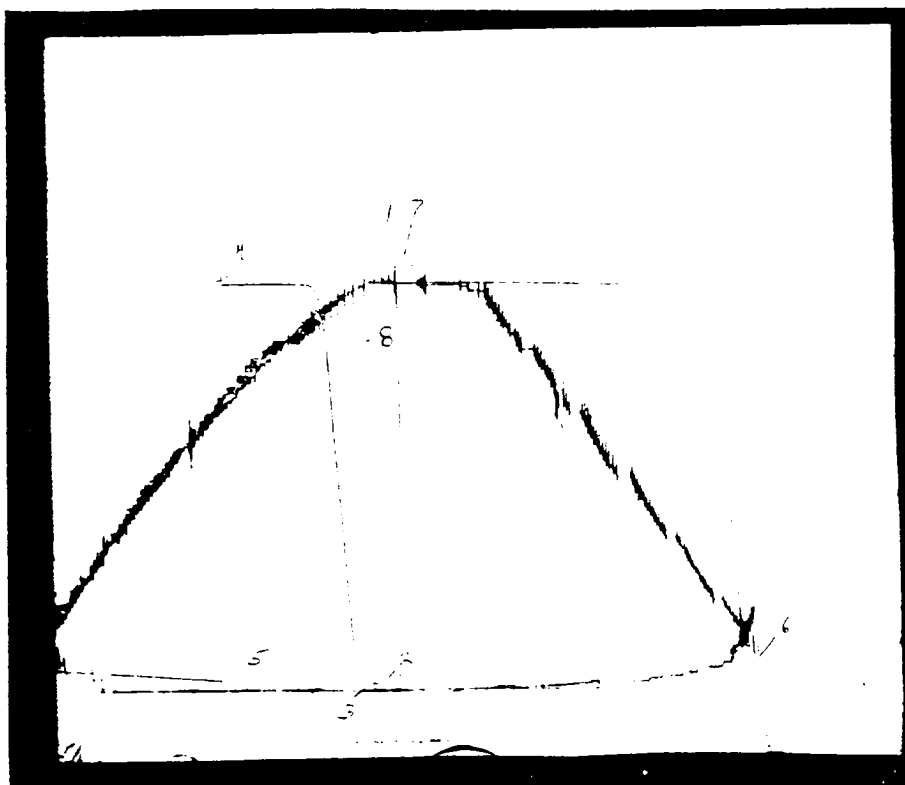
FIELD REPORT # : 48020E

COMPANY : TIPPERARY OIL & GAS CORPORATION
 WELL : JONS STATE 4-#1

INSTRUMENT # : J-1118
 CAPACITY [PSI] : 4700.
 DEPTH [FT] : 7305.0
 PORT OPENING : OUTSIDE
 TEMPERATURE [DEG F] : 130.0

 MNEMONICS : ET = ELAPSED TIME [MIN]
 PW = BOTTOMHOLE PRESSURE [PSIA]

#	CODE	EXPLANATION	ET	PW
1	1	HYDROSTATIC MUD	-2.20	3197.44
2	2	START FLOW	0.00	73.27
3	6	END FLOW & START SHUT-IN	5.01	81.24
4	5	END SHUT-IN	64.65	3191.34
5	2	START FLOW	65.54	95.79
6	6	END FLOW & START SHUT-IN	137.08	193.16
7	5	END SHUT-IN	283.00	3193.45
8	1	HYDROSTATIC MUD	286.85	3199.55



BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 48020E

COMPANY : TIPPERARY OIL & GAS CORPORATION

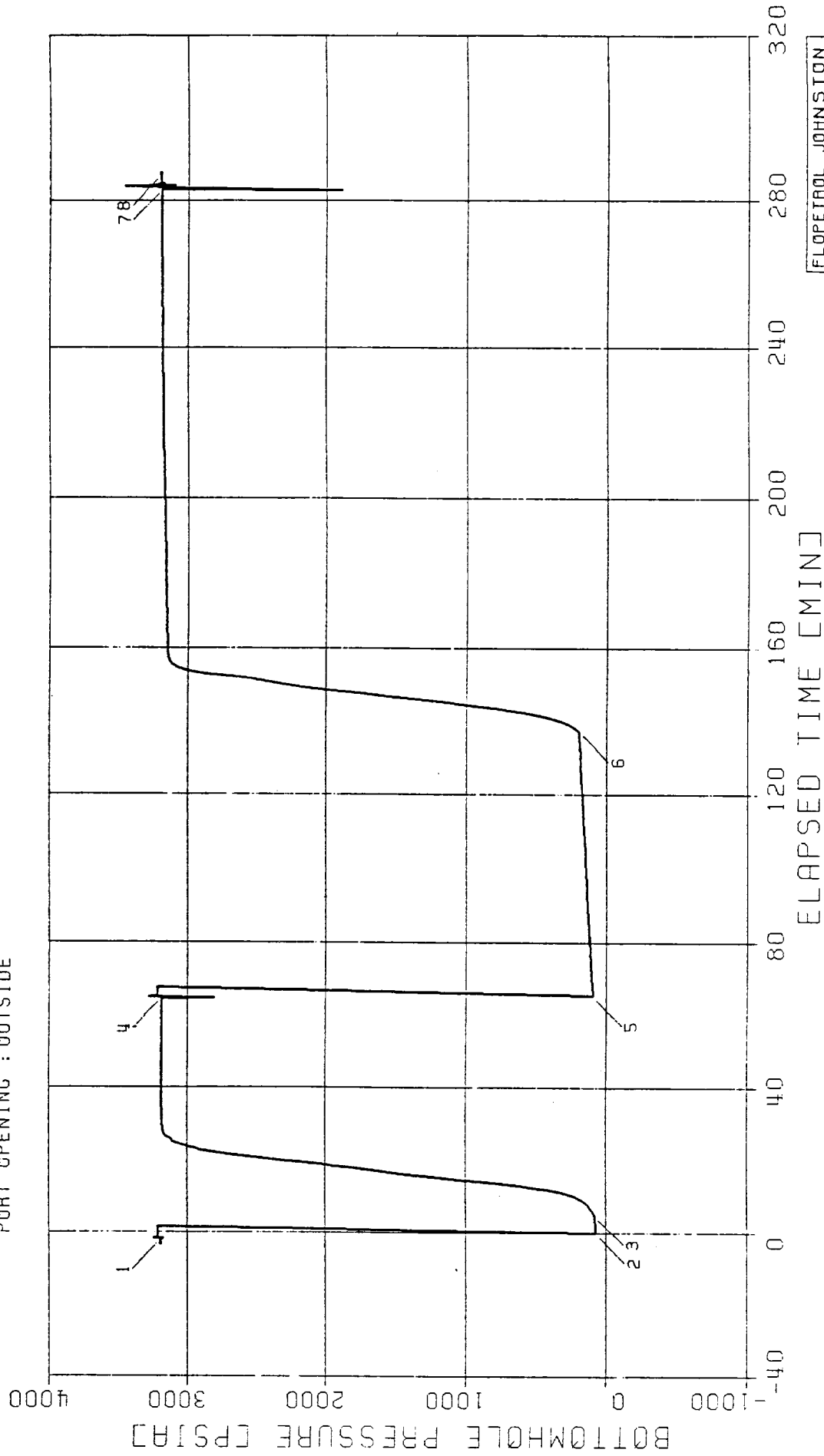
INSTRUMENT NO. J-1118

WELL : JONS STATE 4-#1

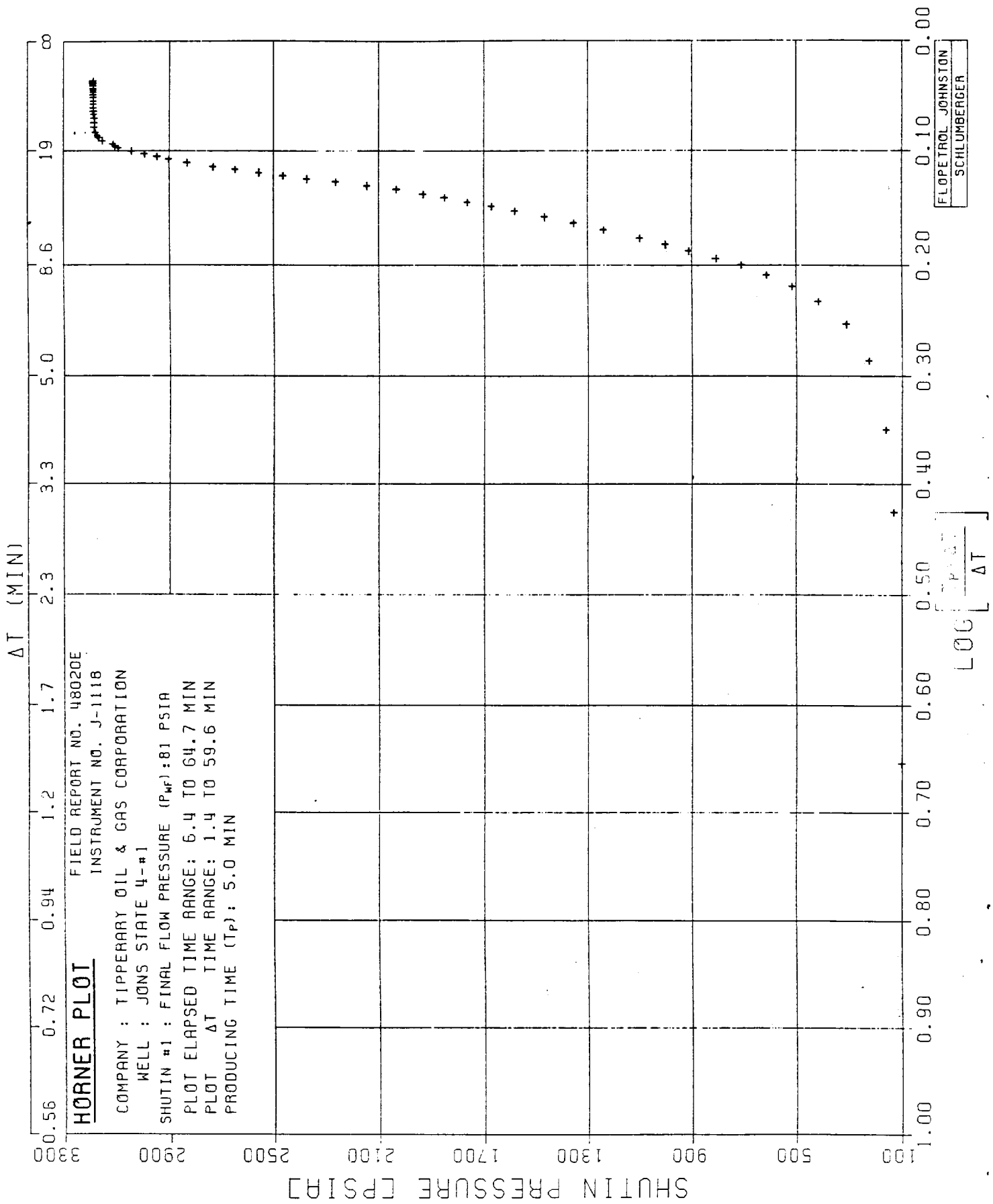
DEPTH : 7305 FT

CAPACITY : 4700 PSI

PORT OPENING : OUTSIDE



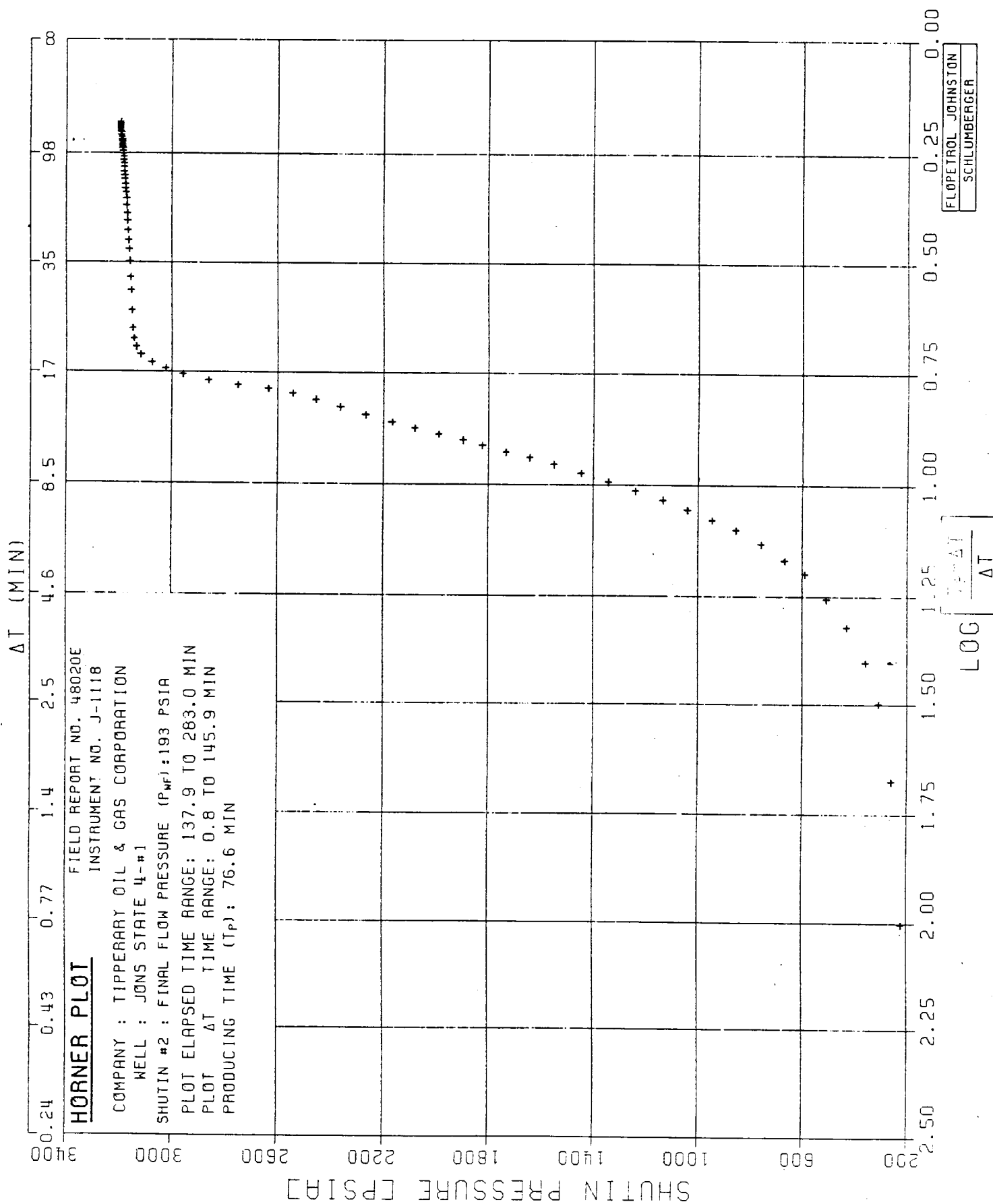
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 * WELL TEST DATA PRINTOUT *

FIELD REPORT # : 48020E

COMPANY : TIPPERARY OIL & GAS CORPORATION

WELL : JONS STATE 4-#1

INSTRUMENT # : J-1118

CAPACITY [PSI] : 4700.

DEPTH [FT] : 7305.0

PORT OPENING : OUTSIDE

TEMPERATURE [DEG F] : 130.0

LABEL POINT INFORMATION

#	TIME OF DAY HH:MM:SS	DATE DD-MM	EXPLANATION	ELAPSED TIME, MIN	BOT HOLE PRESSURE PSIA
1	20:58:48	4-0C	HYDROSTATIC MUD	-2.20	3197
2	21: 1: 0	4-0C	START FLOW	0.00	73
3	21: 6: 1	4-0C	END FLOW & START SHUT-IN	5.01	81
4	22: 5:39	4-0C	END SHUT-IN	64.65	3191
5	22: 6:32	4-0C	START FLOW	65.54	96
6	23:18: 5	4-0C	END FLOW & START SHUT-IN	137.08	193
7	1:44: 0	5-0C	END SHUT-IN	283.00	3193
8	1:47:51	5-0C	HYDROSTATIC MUD	286.85	3200

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
1	0.00	5.01	5.01	73	81
2	65.54	137.08	71.54	96	193

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	5.01	64.65	59.64	81	3191	81	5.01
2	137.08	283.00	145.92	193	3193	193	76.55

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TEST PHASE : FLOW PERIOD # 1

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA
21: 1: 0	4-0C	0.00	0.00	73
21: 6: 0	4-0C	5.00	5.00	81
21: 6: 1	4-0C	5.01	5.01	81

TEST PHASE : SHUTIN PERIOD # 1

FINAL FLOW PRESSURE [PSIA] = 81
PRODUCING TIME [MIN] = 5.01

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
21: 6: 1	4-0C	5.01	0.00	81	0	
21: 7: 1	4-0C	6.01	1.00	96	15	0.779
21: 8: 1	4-0C	7.01	2.00	112	31	0.545
21: 9: 1	4-0C	8.01	3.00	130	49	0.427
21:10: 1	4-0C	9.01	4.00	160	79	0.353
21:11: 1	4-0C	10.01	5.00	209	128	0.301
21:12: 1	4-0C	11.01	6.00	283	201	0.264
21:13: 1	4-0C	12.01	7.00	404	323	0.234
21:14: 1	4-0C	13.01	8.00	587	506	0.211
21:15: 1	4-0C	14.01	9.00	829	747	0.192
21:16: 1	4-0C	15.01	10.00	1090	1009	0.176
21:18: 1	4-0C	17.01	12.00	1594	1513	0.152
21:20: 1	4-0C	19.01	14.00	2048	1967	0.133
21:22: 1	4-0C	21.01	16.00	2576	2494	0.118
21:24: 1	4-0C	23.01	18.00	2917	2836	0.107
21:26: 1	4-0C	25.01	20.00	3094	3013	0.097
21:28: 1	4-0C	27.01	22.00	3163	3081	0.089
21:30: 1	4-0C	29.01	24.00	3183	3101	0.082
21:32: 1	4-0C	31.01	26.00	3187	3105	0.077
21:34: 1	4-0C	33.01	28.00	3187	3105	0.071
21:36: 1	4-0C	35.01	30.00	3188	3107	0.067
21:41: 1	4-0C	40.01	35.00	3191	3110	0.058
21:46: 1	4-0C	45.01	40.00	3191	3110	0.051
21:51: 1	4-0C	50.01	45.00	3191	3110	0.046
21:56: 1	4-0C	55.01	50.00	3191	3110	0.041
22: 1: 1	4-0C	60.01	55.00	3191	3110	0.038
22: 5:39	4-0C	64.65	59.64	3191	3110	0.035

TEST PHASE : FLOW PERIOD # 2

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA
22: 6:32	4-00	65.54	0.00	96
22:11:32	4-00	70.54	5.00	104
22:16:32	4-00	75.54	10.00	113
22:21:32	4-00	80.54	15.00	120
22:26:32	4-00	85.54	20.00	126
22:31:32	4-00	90.54	25.00	134
22:36:32	4-00	95.54	30.00	140
22:41:32	4-00	100.54	35.00	146
22:46:32	4-00	105.54	40.00	153
22:51:32	4-00	110.54	45.00	160
22:56:32	4-00	115.54	50.00	166
23: 1:32	4-00	120.54	55.00	173
23: 6:32	4-00	125.54	60.00	180
23:11:32	4-00	130.54	65.00	187
23:16:32	4-00	135.54	70.00	193
23:18: 5	4-00	137.08	71.54	193

TEST PHASE : SHUTIN PERIOD # 2

FINAL FLOW PRESSURE [PSIA] = 193

PRODUCING TIME [MIN] = 76.55

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
23:18: 5	4-00	137.08	0.00	193	0	
23:19: 5	4-00	138.08	1.00	232	39	1.890
23:20: 5	4-00	139.08	2.00	280	87	1.594
23:21: 5	4-00	140.08	3.00	347	154	1.424
23:22: 5	4-00	141.08	4.00	447	254	1.304
23:23: 5	4-00	142.08	5.00	570	377	1.212
23:24: 5	4-00	143.08	6.00	742	549	1.139
23:25: 5	4-00	144.08	7.00	950	756	1.077
23:26: 5	4-00	145.08	8.00	1180	987	1.024
23:27: 5	4-00	146.08	9.00	1424	1231	0.978
23:28: 5	4-00	147.08	10.00	1668	1475	0.937
23:30: 5	4-00	149.08	12.00	2133	1940	0.868
23:32: 5	4-00	151.08	14.00	2463	2270	0.811
23:34: 5	4-00	153.08	16.00	2905	2712	0.762
23:36: 5	4-00	155.08	18.00	3096	2903	0.720
23:38: 5	4-00	157.08	20.00	3140	2947	0.684
23:40: 5	4-00	159.08	22.00	3149	2956	0.651
23:42: 5	4-00	161.08	24.00	3151	2958	0.622
23:44: 5	4-00	163.08	26.00	3152	2959	0.596
23:46: 5	4-00	165.08	28.00	3153	2960	0.572
23:48: 5	4-00	167.08	30.00	3155	2962	0.550
23:53: 5	4-00	172.08	35.00	3159	2966	0.503

TEST PHASE : SHUTIN PERIOD # 2

FINAL FLOW PRESSURE [PSIA] = 193

PRODUCING TIME [MIN] = 76.55

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS	DD-MM	*****	*****	*****	*****	*****
*****	*****	*****	*****	*****	*****	*****
23:58: 5	4-00	177.08	40.00	3162	2969	0.464
0: 3: 5	5-00	182.08	45.00	3165	2972	0.432
0: 8: 5	5-00	187.08	50.00	3167	2974	0.403
0:13: 5	5-00	192.08	55.00	3169	2976	0.379
0:18: 5	5-00	197.08	60.00	3171	2978	0.357
0:23: 5	5-00	202.08	65.00	3173	2980	0.338
0:28: 5	5-00	207.08	70.00	3176	2983	0.321
0:33: 5	5-00	212.08	75.00	3178	2984	0.305
0:38: 5	5-00	217.08	80.00	3179	2986	0.292
0:43: 5	5-00	222.08	85.00	3180	2987	0.279
0:48: 5	5-00	227.08	90.00	3181	2988	0.267
0:53: 5	5-00	232.08	95.00	3183	2990	0.257
0:58: 5	5-00	237.08	100.00	3184	2991	0.247
1: 3: 5	5-00	242.08	105.00	3186	2992	0.238
1: 8: 5	5-00	247.08	110.00	3187	2993	0.229
1:13: 5	5-00	252.08	115.00	3188	2995	0.222
1:18: 5	5-00	257.08	120.00	3189	2996	0.214
1:23: 5	5-00	262.08	125.00	3191	2998	0.207
1:28: 5	5-00	267.08	130.00	3193	3000	0.201
1:33: 5	5-00	272.08	135.00	3193	3000	0.195
1:38: 5	5-00	277.08	140.00	3193	3000	0.189
1:43: 5	5-00	282.08	145.00	3193	3000	0.184
1:44: 0	5-00	283.00	145.92	3193	3000	0.183

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