

1
COMPANY Tipperary Oil & Gas Corporation WELL (Abo) Jones State 4-#1 TEST NO. 2 COUNTY Lea STATE New Mexico
8646' to 8686'

75 104 A
X
FLOPETROL JOHNSTON

Schlumberger

**technical
report**

Field Report #54088E

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HOSTIS OFFICE

REPORT NO:

54088E

WELL PERFORMANCE
TESTING™ REPORT

FLOPETROL JOHNSTON

Schlumberger

TEST DATE:

Oct. 12, 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. Two Formation Abo Test Interval (ft) 8446 to 8686 Reference Depth Kelly Bushing		WELL LOCATION Field Wildcat County Lea State New Mexico Sec/Twn/Rng 4/17S/30E Elevation (ft) 3780 (Ground Level)																																											
HOLE CONDITIONS Total Depth (MD/TVD) (ft) 8686 Hole Size (in) 7 7/8 Csg/Liner I.D. (in) ---- Perf'd Interval/Net Pay (ft) -/4 Shot Density/Diameter (in) ----		MUD PROPERTIES Mud Type Fresh Water Mud Weight (lb/gal) 8.4 Mud Resistivity (OHM-M) 4.6 @ 58°F Filtrate Resistivity (OHM-M) .. ---- Filtrate Chlorides (PPM) 700																																											
INITIAL TEST CONDITIONS Initial Hydrostatic (psi) 3792 Gas Cushion Type None Surface Pressure (psi) ---- Liquid Cushion Type None Cushion Length (ft) ----		TEST STRING CONFIGURATION Pipe Length (ft)/I.D. (in) 8173 / 3.83 Collar Length (ft)/I.D. (in) 439 / 2.25 Packer Depth(s) (ft) 8640 / 8646 BH Choke Size (in) 15/16 Gauge Depth (ft)/Type 8673 / J-200																																											
NET PIPE RECOVERY <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Volume</th> <th style="width: 25%;">Fluid Type</th> <th style="width: 50%;">Properties</th> </tr> </thead> <tbody> <tr> <td>10 Feet</td> <td>Drlg fluid</td> <td>700 PPM</td> </tr> <tr> <td></td> <td>Slight Oil/cut</td> <td>Res. 4.6 @58°F</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Volume	Fluid Type	Properties	10 Feet	Drlg fluid	700 PPM		Slight Oil/cut	Res. 4.6 @58°F													NET SAMPLE CHAMBER RECOVERY <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Volume</th> <th style="width: 25%;">Fluid Type</th> <th style="width: 50%;">Properties</th> </tr> </thead> <tbody> <tr> <td>(Trace)</td> <td>Oil</td> <td></td> </tr> <tr> <td>2300 cc</td> <td>Mud</td> <td></td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> Pressure: --- GOR: GLR: 		Volume	Fluid Type	Properties	(Trace)	Oil		2300 cc	Mud													
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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 (%) Reservoir Temperature (F) ...138																																											

PRODUCTION RATE DURING TEST:

COMMENTS:

Both clocks stopped during the initial shut-in period.

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TEST PHASE : FLOW PERIOD # 1

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA
19:43: 0	9-0C	0.00	0.00	57
19:48: 0	9-0C	5.00	5.00	58
19:53: 0	9-0C	10.00	10.00	58
19:53:31	9-0C	10.51	10.51	58

TEST PHASE : SHUTIN PERIOD # 1
 FINAL FLOW PRESSURE [PSIA] = 58
 PRODUCING TIME [MIN] = 10.51

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
19:53:31	9-0C	10.51	0.00	58	0	
19:54:31	9-0C	11.51	1.00	63	5	1.061
19:55:31	9-0C	12.51	2.00	65	7	0.796
19:56:31	9-0C	13.51	3.00	67	10	0.654
19:57:31	9-0C	14.51	4.00	70	13	0.560
19:58:31	9-0C	15.51	5.00	73	15	0.492
19:59:31	9-0C	16.51	6.00	74	17	0.440
20: 0:31	9-0C	17.51	7.00	77	19	0.398
20: 1:31	9-0C	18.51	8.00	79	21	0.364
20: 2:31	9-0C	19.51	9.00	80	23	0.336
20: 3:31	9-0C	20.51	10.00	82	24	0.312
20: 5:31	9-0C	22.51	12.00	85	27	0.273
20: 7:31	9-0C	24.51	14.00	88	31	0.243
20: 9:31	9-0C	26.51	16.00	91	33	0.219
20:11:31	9-0C	28.51	18.00	94	36	0.200
20:13:31	9-0C	30.51	20.00	97	39	0.183
20:15:31	9-0C	32.51	22.00	100	42	0.170
20:17:31	9-0C	34.51	24.00	103	45	0.158
20:19:31	9-0C	36.51	26.00	105	48	0.147
20:19:52	9-0C	36.86	26.35	107	49	0.146

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 * WELL TEST DATA PRINTOUT *

FIELD REPORT # : 54088E

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

INSTRUMENT # : J-371
 CAPACITY [PSI] : 6400.
 DEPTH [FT] : 8673.0
 PORT OPENING : OUTSIDE
 TEMPERATURE [DEG F] : 138.0

LABEL POINT INFORMATION

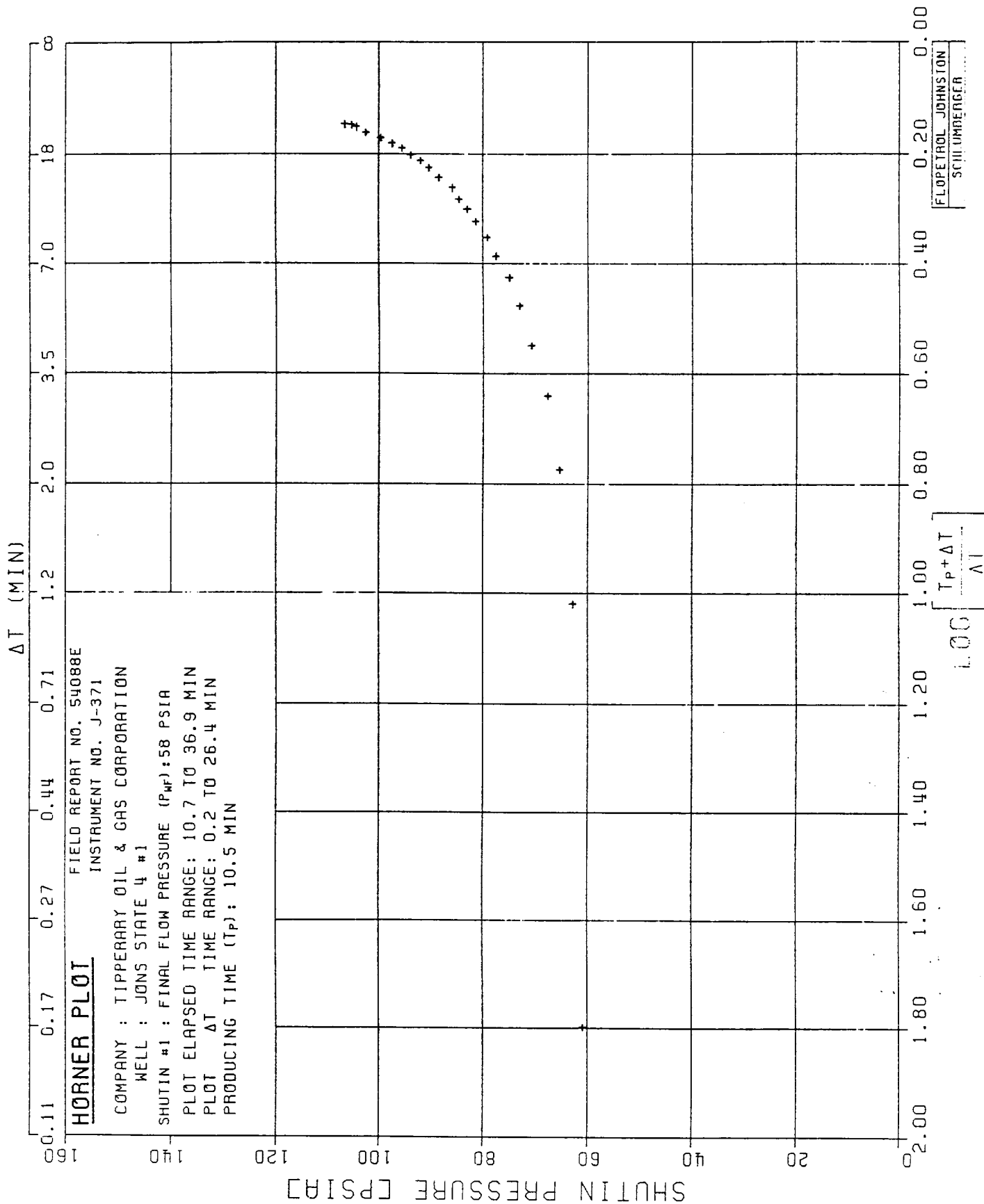
#	TIME OF DAY	DATE	EXPLANATION	ELAPSED TIME, MIN	BOT HOLE PRESSURE PSIA
***	*****	*****	*****	*****	*****
1	19:40:47	9-0C	HYDROSTATIC MUD	-2.21	3792
2	19:43: 0	9-0C	START FLOW	0.00	57
3	19:53:31	9-0C	END FLOW & START SHUT-IN	10.51	58
4	20:19:52	9-0C	END SHUT-IN	36.86	107
5	20:20: 1	9-0C	CLOCK STOPPED	37.01	102
6	20:23:11	9-0C	HYDROSTATIC MUD	40.18	3677

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
*****	*****	*****	*****	*****	*****
1	0.00	10.51	10.51	57	58

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	10.51	36.86	26.35	58	107	58	10.51



BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 54088E

COMPANY : TIPPERARY OIL & GAS CORPORATION

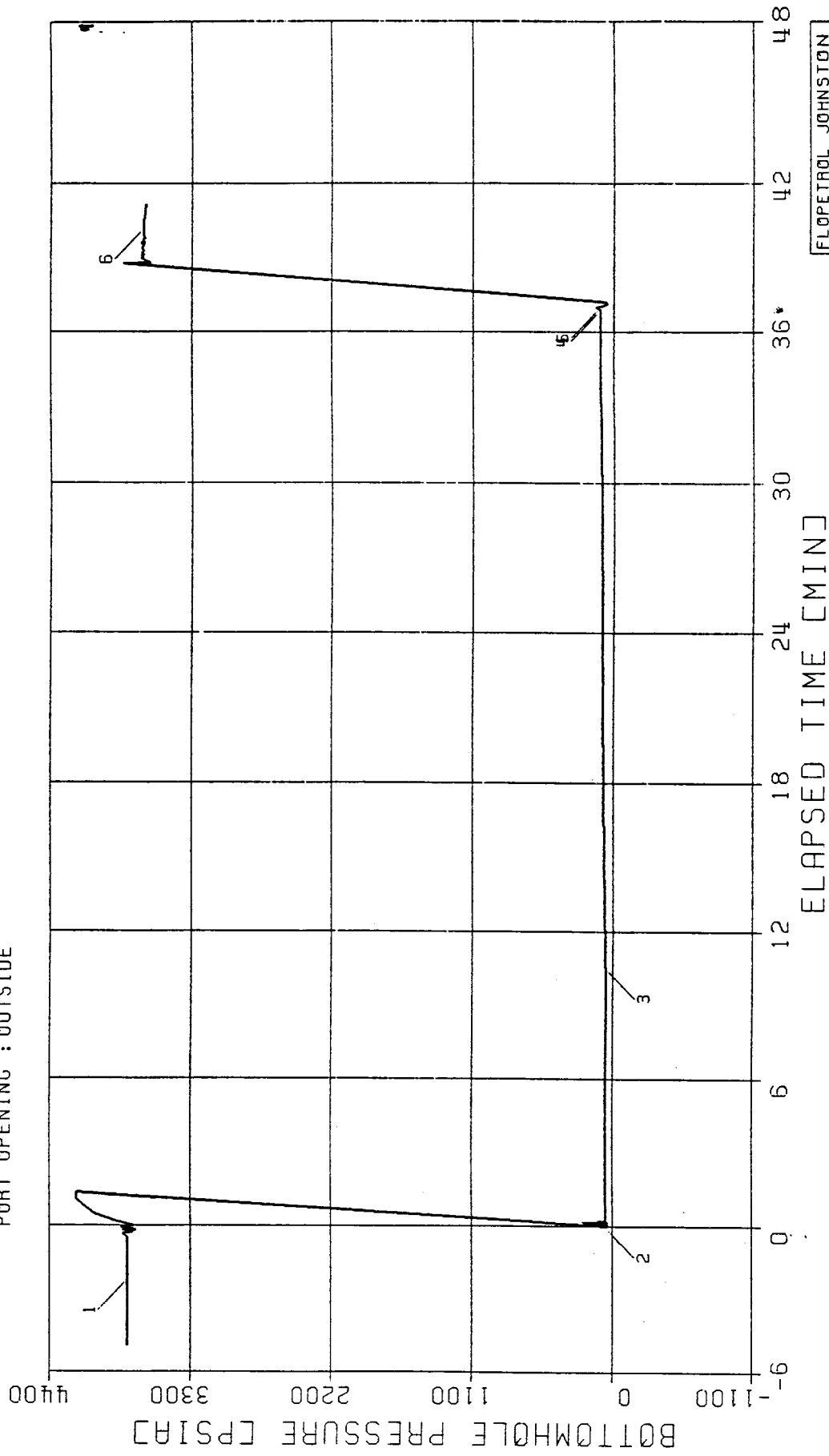
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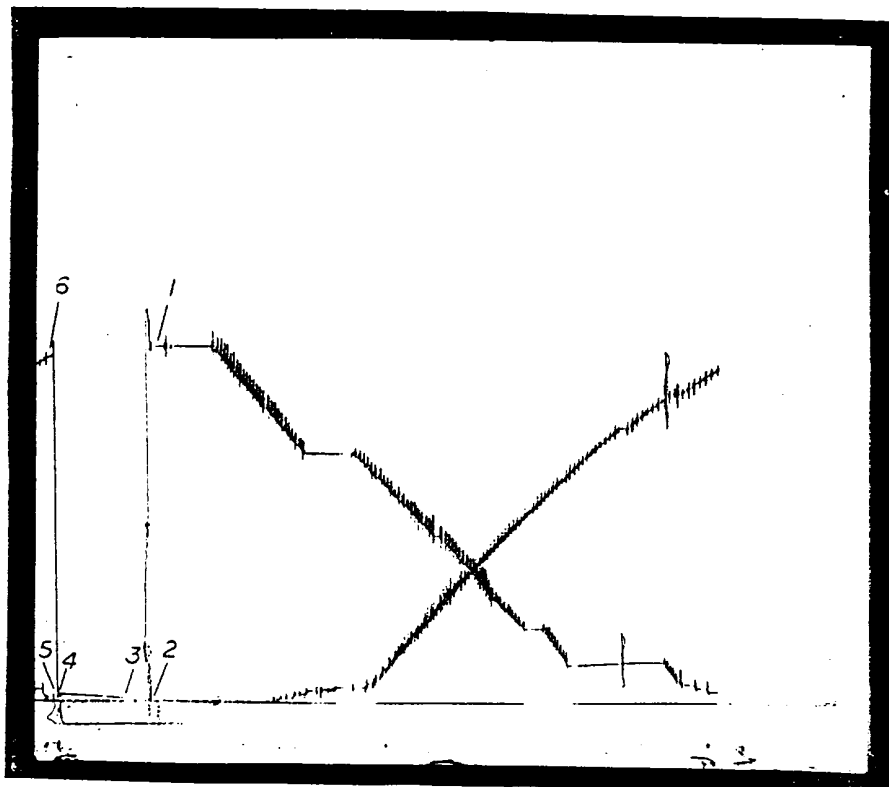
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MNEMONICS : ET = ELAPSED TIME [MIN]
 PW = BOTTOMHOLE PRESSURE [PSIA]

#	CODE	EXPLANATION	ET	PW
***	***	*****	*****	*****
1	1	HYDROSTATIC MUD	-2.21	3792.26
2	2	START FLOW	0.00	57.42
3	6	END FLOW & START SHUT-IN	10.51	57.74
4	5	END SHUT-IN	36.86	106.76
5	23	CLOCK STOPPED	37.01	101.63
6	1	HYDROSTATIC MUD	40.18	3676.92



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