

Rig 453

Turrum

Rig:

Field:

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DEPTH SUMMARY LISTING

Date Created: 3-APR-2004 20:43:16

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	7-46P
Serial Number:	794	Serial Number:	1721	Serial Number:	72433
Calibration Date:	22-JAN-2003	Calibration Date:	12-FEB-2004	Length:	7315.20 M
Calibrator Serial Number:	9	Calibrator Serial Number:	1051	Conveyance Method: DrillPipe (TLC) Rig Type: Offshore_Fixed	
Calibration Cable Type:	7-46P	Calibration Gain:	0.86		
Wheel Correction 1:	-8	Calibration Offset:	-181.00		
Wheel Correction 2:	-9				

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	Reeves Dual Laterolog-GR-Density-Neutron Log
Reference Log Run Number:	1
Reference Log Date:	31-Mar-2004

Depth Control Remarks

1. Standard TLC depth control procedures applied.
2.
3.
4.
5.
6.

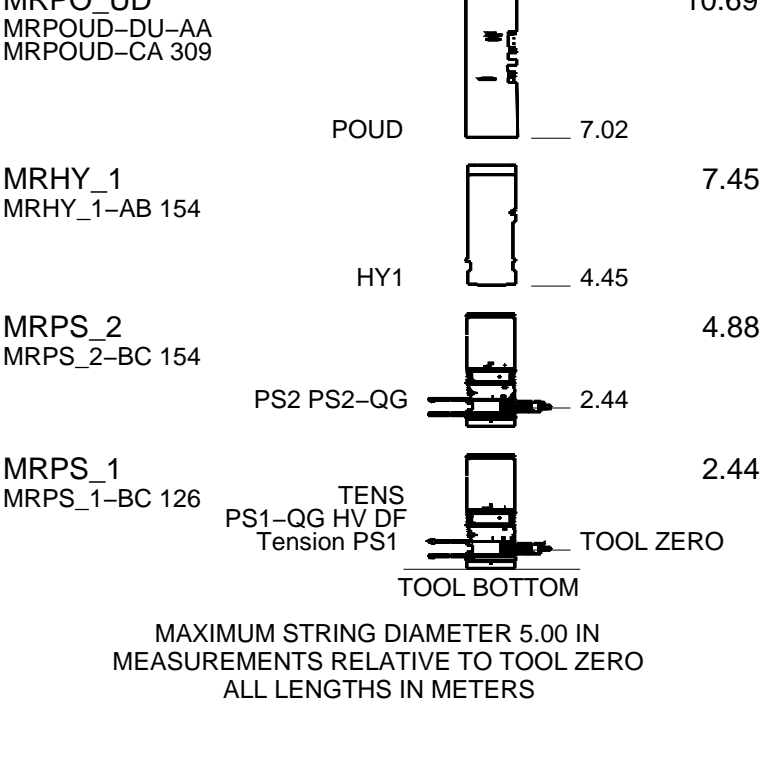
DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1
OS1:
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 1
Correlated to Reeves Dual Laterolog-GR-Density-Neutron Log, Run 1, 31-Mar-2004 Field Print.
MDT objectives were to obtain 1 x 2.75 gallon oil sample, 5 x 250cc PVT oil samples and 4 x 250cc gas samples from the L500 reservoir, and to record 32 pressure measurements between 2751.0m and 3490.0m MD.
Tools were conveyed on drill pipe (TLC) due to sticking risk.
Both multi-sample modules (MRMS) were loaded with SPMC sample bottles, each with 250cc capacity.
Survey was abandoned after 14 pretest attempts because the drill pipe became stuck with the tool at 3451m MD. The logging cable was pulled out of hole so that the drill pipe could be freed by rotation.
14 pretests attempted: 10 normal, 2 lost seals, 1 tight and 1 super-charged.
Pumping was performed at 3457.5m, 3446.0m and 3432.0m MD. In each case, insufficient clean-up was achieved to warrant sampling.

Mud Data in log header taken from Baroid Mud Report, 2/4/2004.					
Maximum recorded temperature of 123 degC was taken from the mud resistivity sensor in the lower single probe module (MRPS).					
Crew: M.Cave / T.Goodwin / P.Battams / J.Light / P.Flood / P.Lawrence					
RUN 1			RUN 2		
SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:			SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
VEA041000899 12C0-301 0 m					
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP
EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		
SURFACE EQUIPMENT					
MRPP-AA 98 GSR-U/Y WITM (CTS)-A					
DOWNHOLE EQUIPMENT					
</					



Client: Esso Australia Ltd

Well: MLA A-6a

Field: Turrum

State: Victoria

Country: Australia

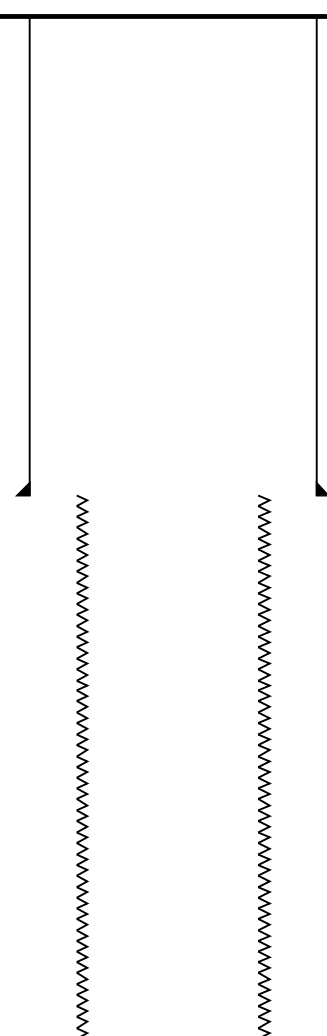
Rig Name: Rig 453

Reference Datum: Mean Sea Level

Elevation: 27.9 m

Drawing Date: 4/3/2004

API #:

Production String	(in)		(m)		Well Schematic	(m)		(in)		Casing String
	OD	ID	MD	MD		MD	OD	ID	ID	
						0.0	13.375			Casing String
						1013.0	13.375			Casing Shoe Borehole Segment
						1013.0	8.500			

-1	35	3431.99	2603.48	15.79	4603.17		3690.53	3690.53	Draw-down Pretest
11	37	3437.44	2607.28		4606.45	4609.50		3695.55	Lost Seal
12	38	3437.70	2607.45		4612.10	4612.62		3695.69	Lost Seal
13	39	3446.99	2613.93	6.62	4627.30	4627.46	3699.54	3699.54	Draw-down Pretest
-1	40	3450.97	2616.71	3.53	4630.32		3699.99	3699.99	Draw-down Pretest

Schlumberger

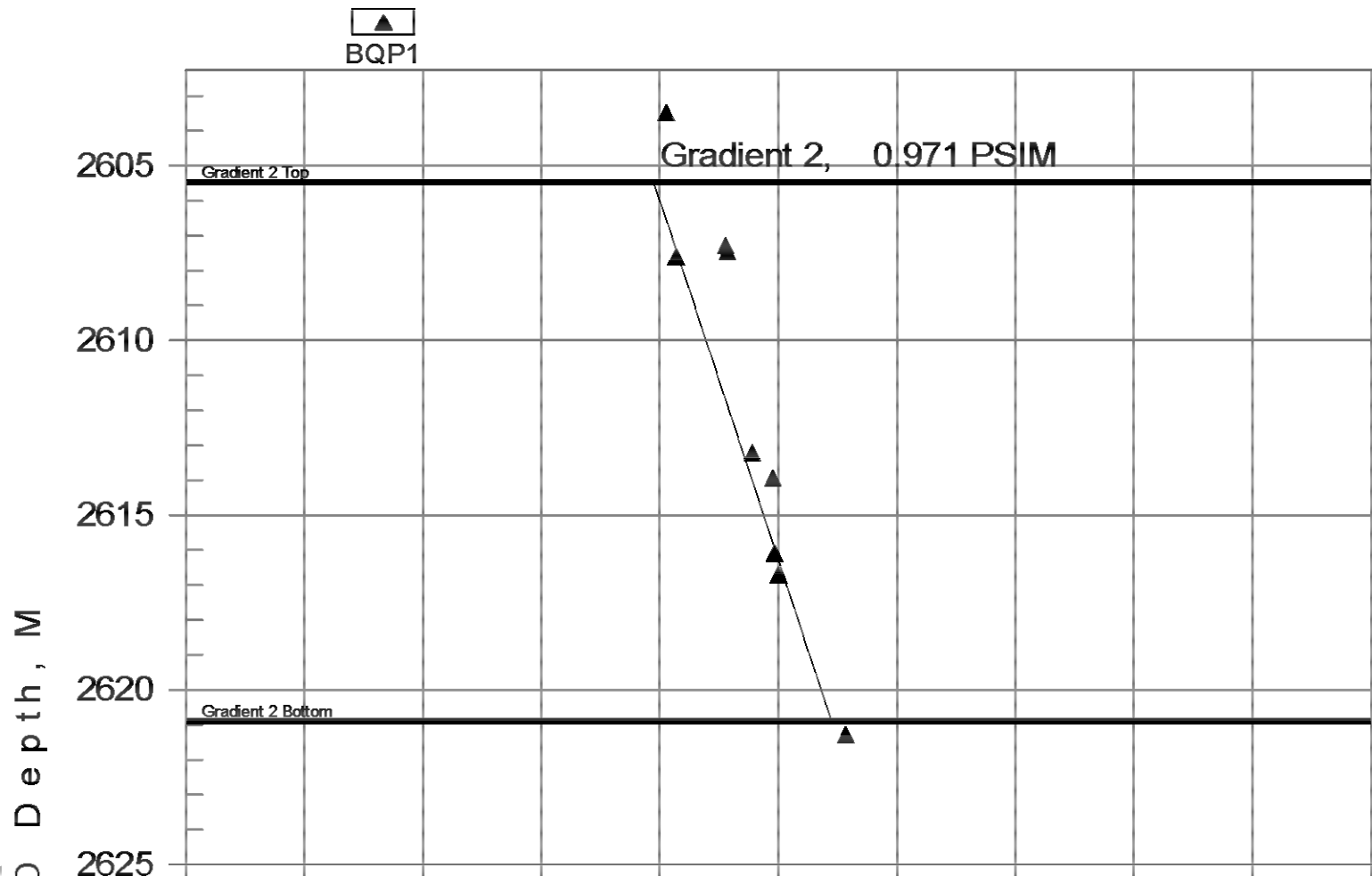
Formation Pressure Plot

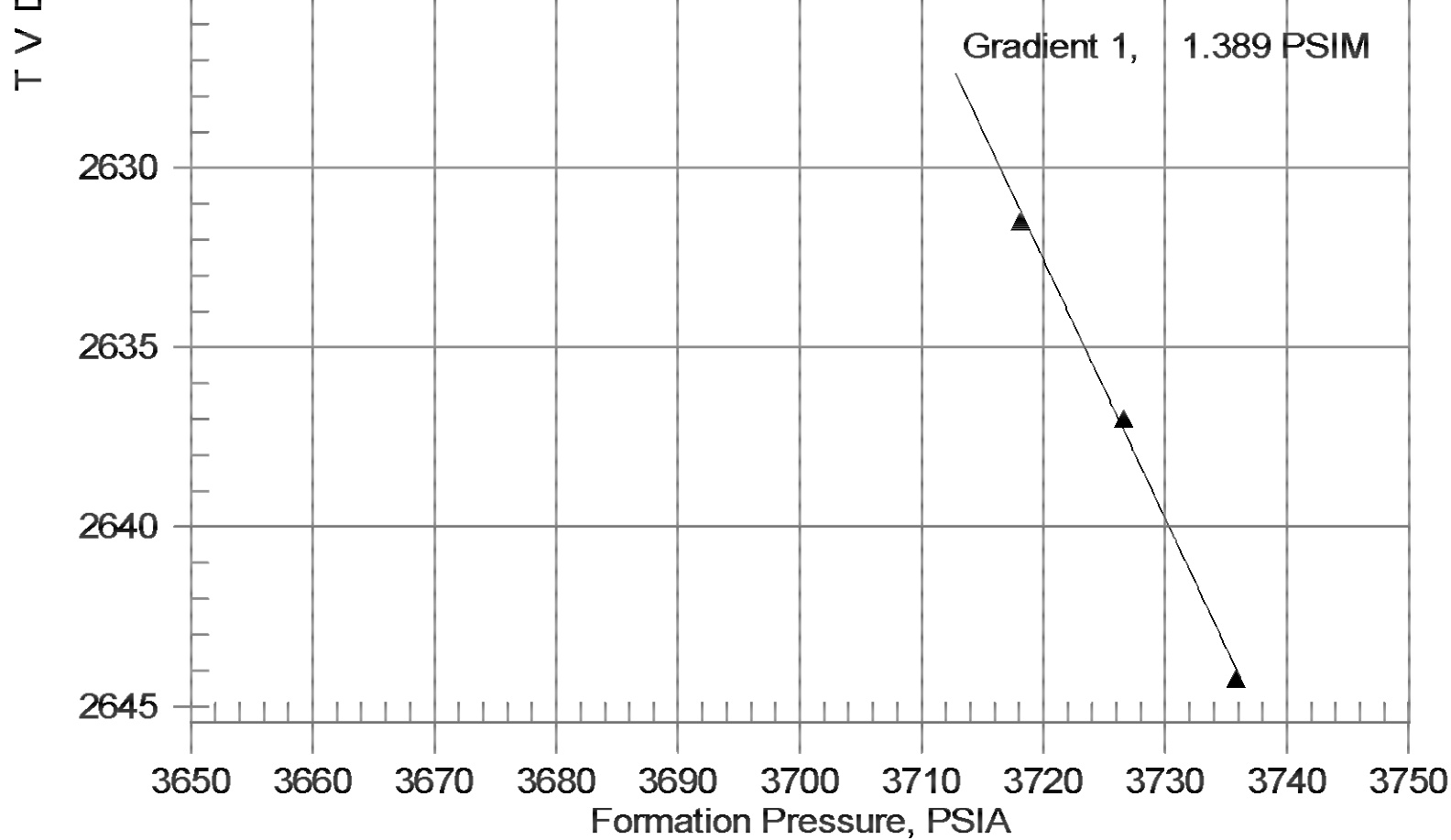
MAXIS Field Log

Depth vs. Formation Pressure

1-Apr-2004

Esso Australia Pty. Ltd.
Turrum
Marlin A-6a





Schlumberger

Pretest @ 3451m MD

MAXIS Field Log

File 40

3-Apr-2004

Depth, M: 3450.97

Esso Australia Pty. Ltd.

Turrum

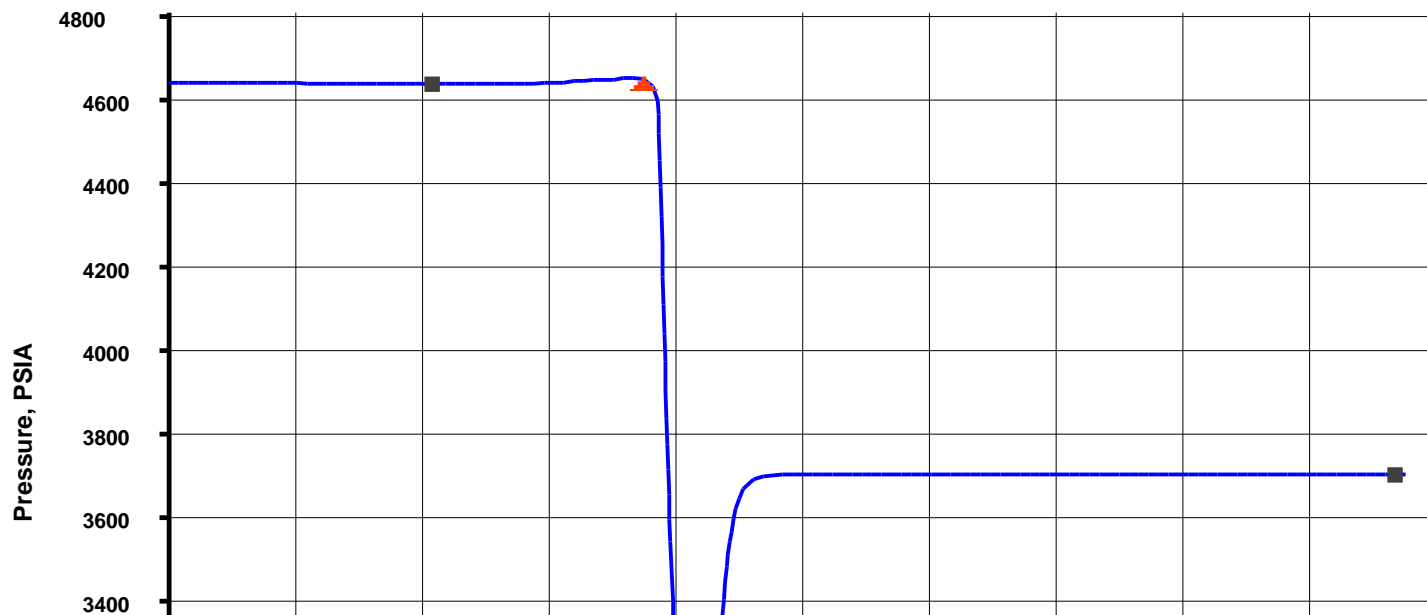
Marlin A-6a

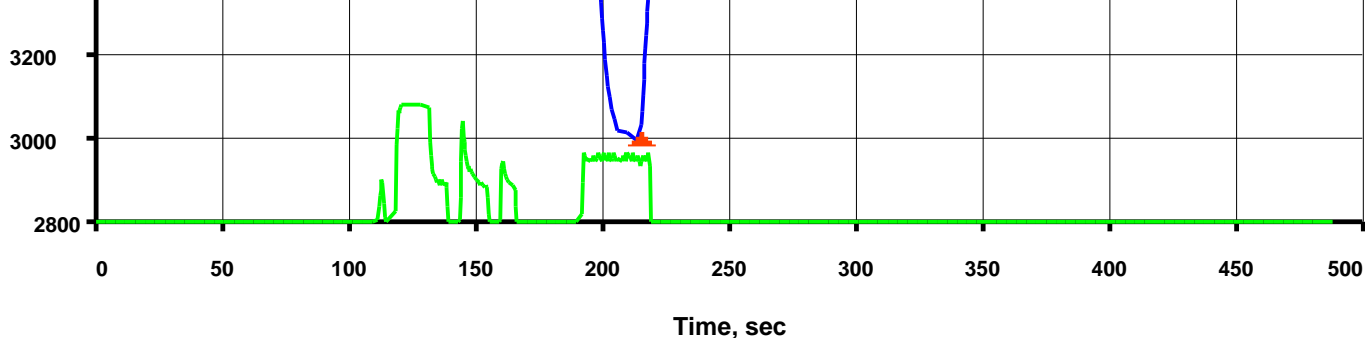
Draw-down Pretest - Large-Diameter probe

Mud Pressure before test, PSIA: 4630.32

Last build-up pressure, PSIA: 3699.99

Draw-down mobility, md/cp: 3.5





Pretest Volume: 20.0cc - MRPS_1- BQP1 Resolution: 0.010psi

Output DLIS Files

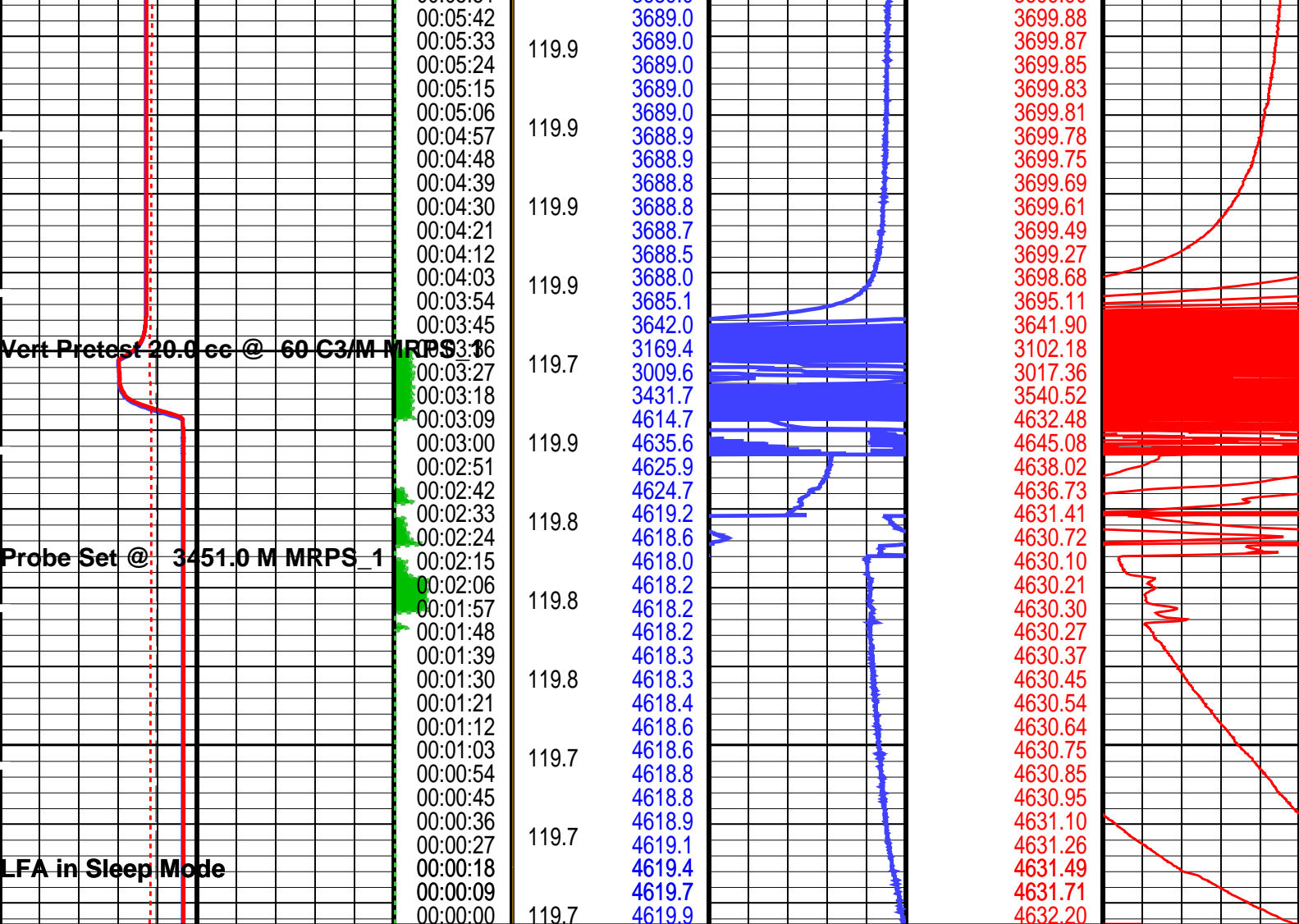
DEFAULT	MDT_OFA_040LTP	FN:68	PRODUCER	03-Apr-2004 03:01	3451.0 M	1.3 M
BACKUP	MDT_OFA_040LTP	FN:69	PRODUCER	03-Apr-2004 02:59	3451.0 M	1.3 M

Elapsed Time (s)	Event Summary
187.8	Vert Pretest 20.0 cc @ 60 C3/M Single Probe Module (MRPS) 1
139.8	Probe Set @ 3451.0 M Single Probe Module (MRPS) 1

PIP SUMMARY

Time Mark Every 60 S

MRPS 1 Quartz Gauge Temperature (BQT1) (DEGC)		MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)		MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	
100	150	100	150	0	10
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)		MRHY 1 Motor Speed (HMS1) (RPM)		MRPOUD Solenoid 3 Status (POUDS3) (----)	
0	10000	0	8000	0	30
MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)		Elapsed Time (ETIM) (S)		MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	
0	10000			MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	
				0	1
		00:08:15	3689.0		3699.99
		00:08:06	3689.1		3699.98
		00:07:57	120.0 3689.0		3699.97
		00:07:48	3689.1		3699.97
		00:07:39	3689.1		3699.96
		00:07:30	120.0 3689.1		3699.96
		00:07:21	3689.1		3699.96
		00:07:12	3689.1		3699.95
		00:07:03	120.0 3689.1		3699.94
		00:06:54	3689.1		3699.93
		00:06:45	3689.0		3699.92
		00:06:36	120.0 3689.0		3699.90
		00:06:27	3688.9		3699.82
		00:06:18	3689.0		3699.91
		00:06:09	3689.1		3699.91
		00:06:00	119.9 3689.0		3699.90
		00:05:51	3689.0		3699.90



MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)		Elapsed Time (ETIM) (S)		MRPOUD Solenoid 3 Status (POUDS3)		MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)		MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	
0		10000		0		30		0	
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)		MRHY 1 Motor Speed (HMS1) (RPM)		MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)		MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)			
0		8000				0			
MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)				MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)					
100		150							
MRPS 1 Quartz Gauge Temperature (BQT1) (DEGC)									
100		150							

PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
MRPS_1: Single Probe Module (MRPS) 1		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
MRPS_2: Single Probe Module (MRPS) 2		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3

QGR D	LFA: Live Fluid Analyzer	Quartz Gauge Flow Line Density	1	G/CS
PDCO	Probe Depth Correction Offset		0	M
PDCO	MRPC: Power Cartridge	Probe Depth Correction Offset	0	M

Format: MRPS_1_SGQG_Station

Vertical Scale: 1" per 60S

Graphics File Created: 03-Apr-2004 03:02

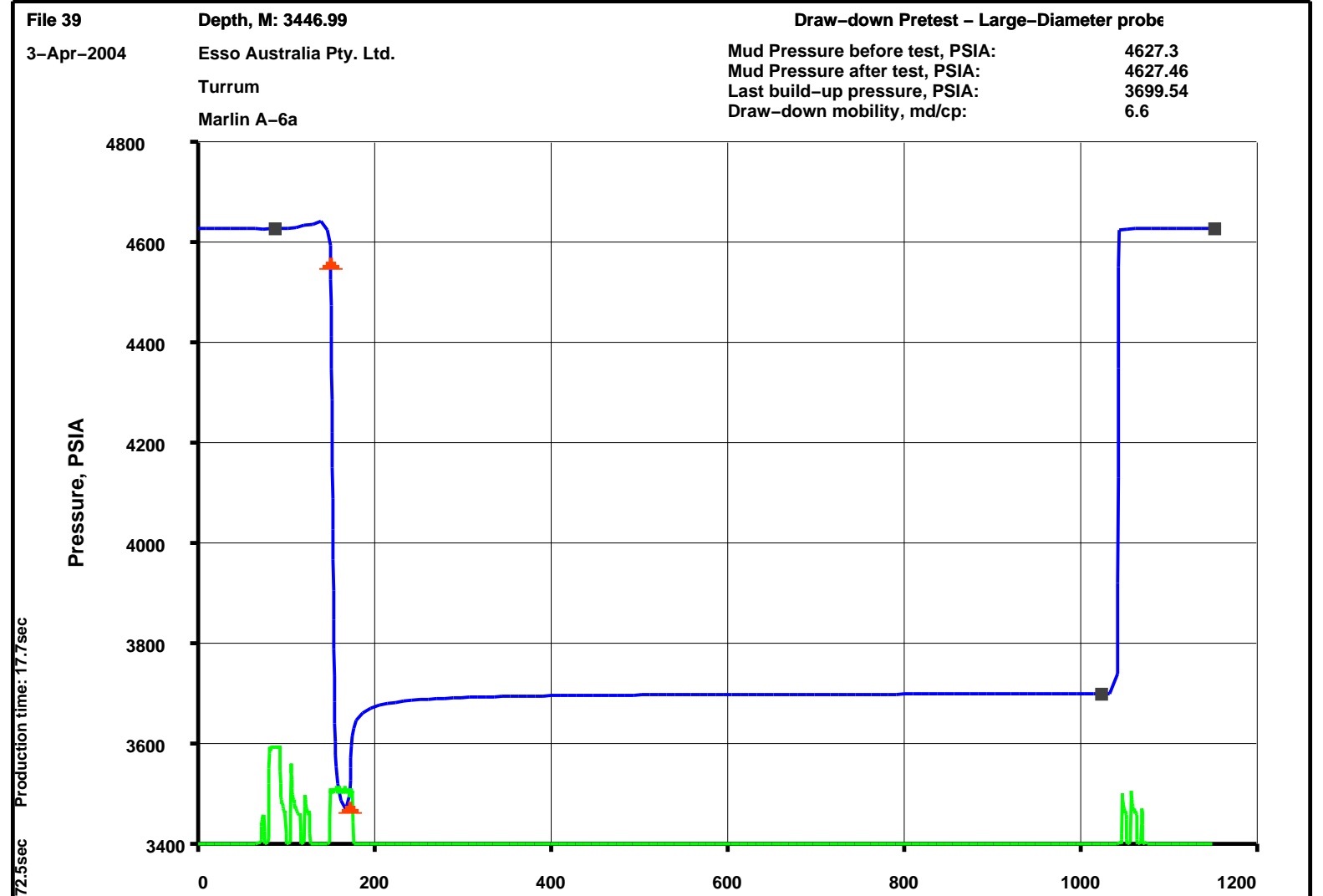
OP System Version: 12C0-301					
MCM					
MRPS_1	12C0-301	MRPS_2	12C0-301		
MRHY_1	12C0-301	MRPO_UD	12C0-301		
LFA	12C0-301	MRSC_01	12C0-301		
MRMS_1	12C0-301	MRMS_2	12C0-301		
MRPC	12C0-301	SGT-L	12C0-301		
TCC-BF	12C0-301	ACTS-B1	12C0-301		

Output DLIS Files					
DEFAULT	MDT_OFA_040LTP	FN:68	PRODUCER	03-Apr-2004 03:01	
BACKUP	MDT_OFA_040LTP	FN:69	PRODUCER	03-Apr-2004 02:59	



Pretest @ 3447m MD

MAXIS Field Log

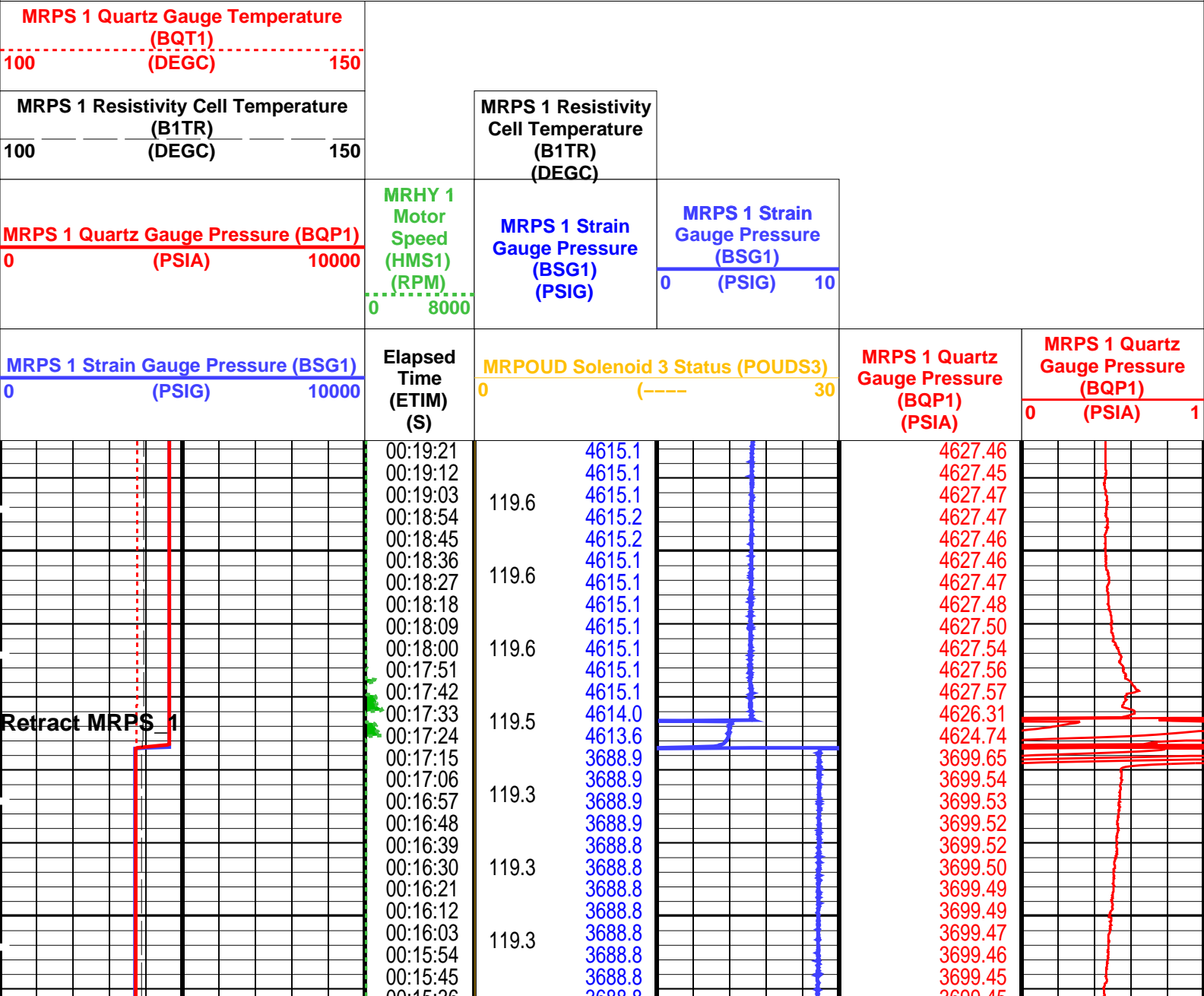


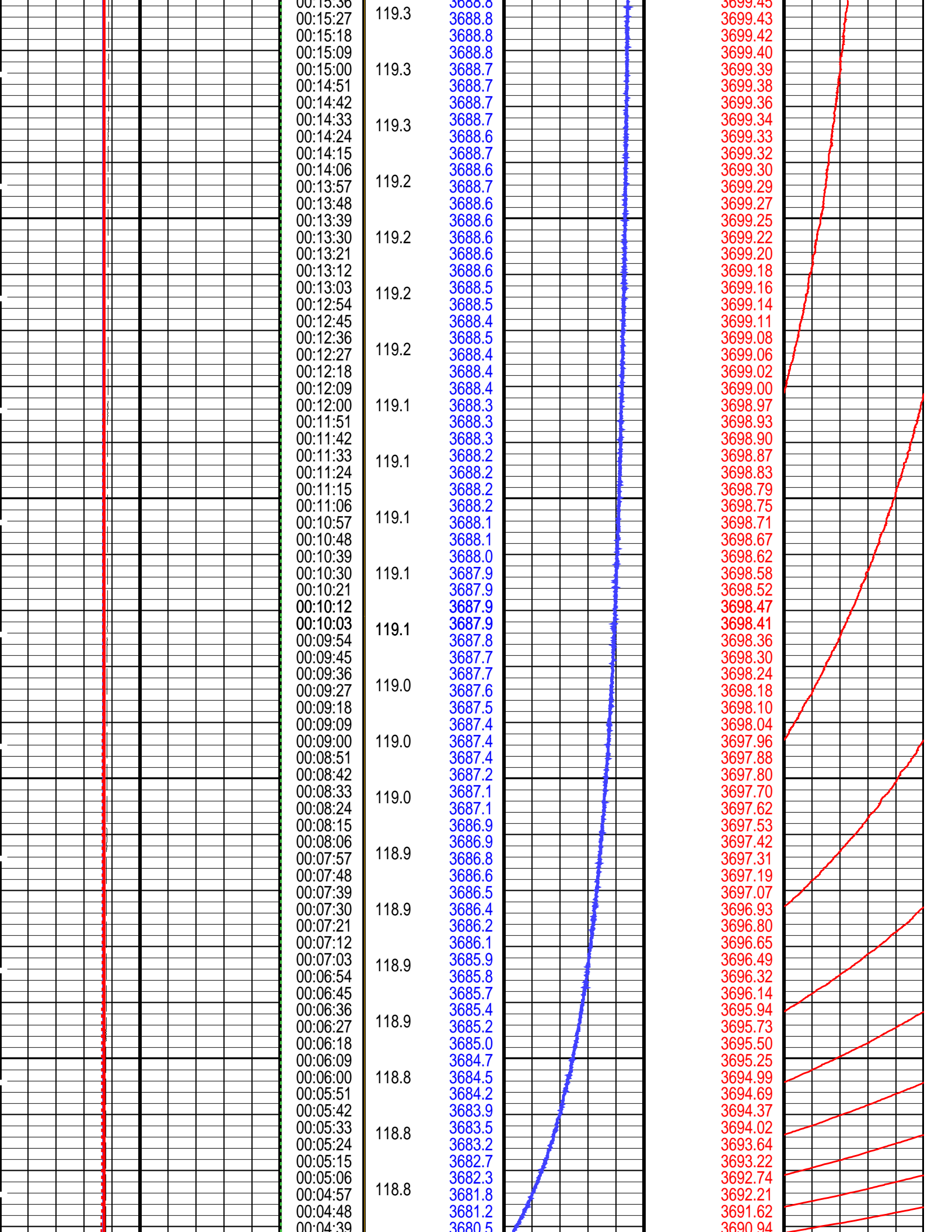
Output DLIS Files						
DEFAULT	MDT_OFA_039LTP	FN:66	PRODUCER	03-Apr-2004 02:34	3447.0 M	3.0 M
BACKUP	MDT_OFA_039LTP	FN:67	PRODUCER	03-Apr-2004 02:31	3447.0 M	3.0 M

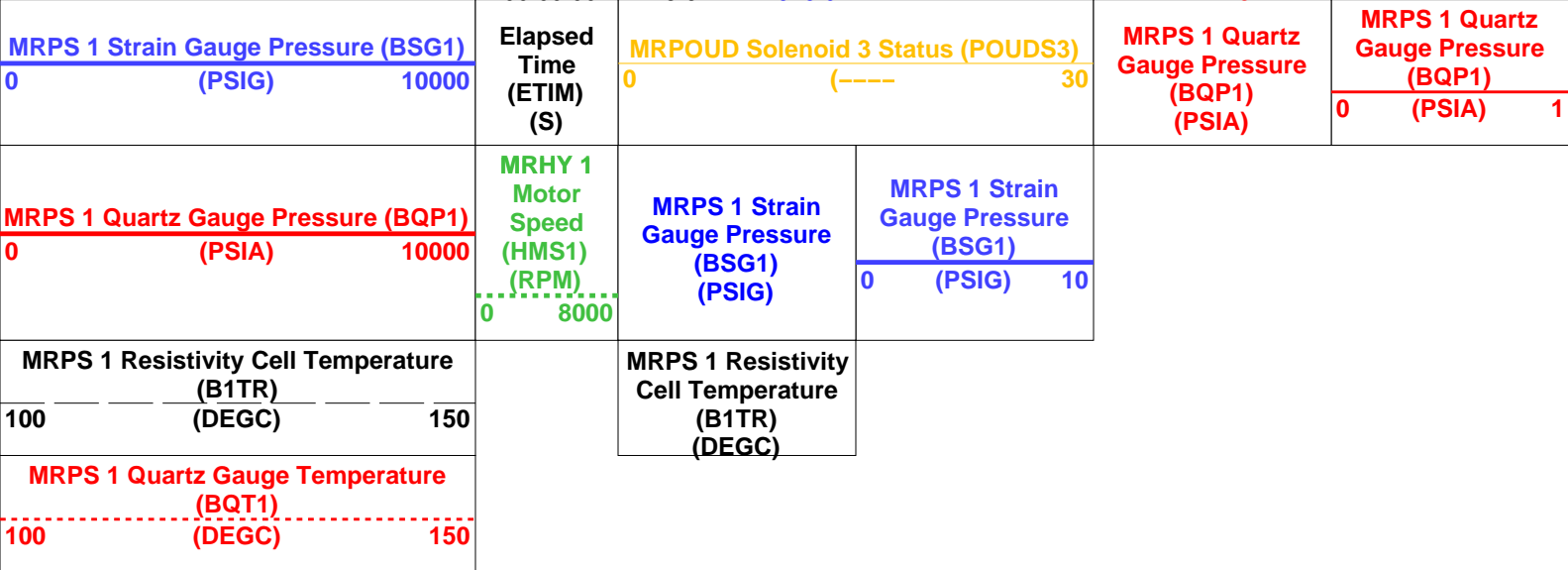
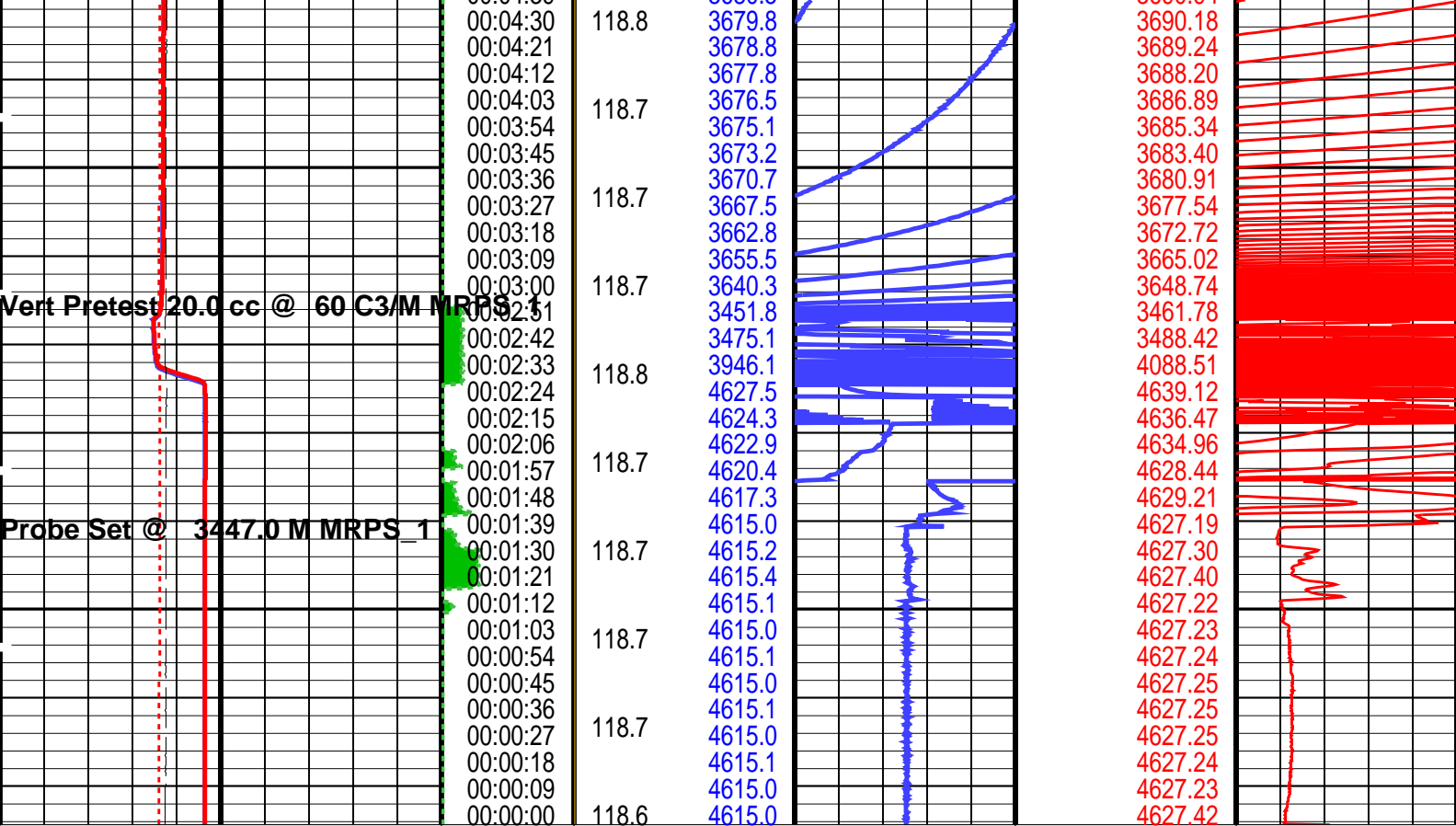
Elapsed Time (s)	Event Summary
1053.0	Retract Single Probe Module (MRPS) 1
145.2	Vert Pretest 20.0 cc @ 60 C3/M Single Probe Module (MRPS) 1
100.8	Probe Set @ 3447.0 M Single Probe Module (MRPS) 1

PIP SUMMARY

Time Mark Every 60 S







PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
MRPS_1: Single Probe Module (MRPS) 1			
QGCA	Quartz Gauge Pressure Correction Applied	DYCO	
QGDA	Quartz Gauge Deviation Angle	0	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
MRPS_2: Single Probe Module (MRPS) 2			
QGCA	Quartz Gauge Pressure Correction Applied	DYCO	
QGDA	Quartz Gauge Deviation Angle	0	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
LFA: Live Fluid Analyzer			
PDCO	Probe Depth Correction Offset	0	M
MRPC: Power Cartridge			
PDCO	Probe Depth Correction Offset	0	M

Format: MRPS_1_SGQG_Station Vertical Scale: 1" per 60S Graphics File Created: 03-Apr-2004 02:34

MRPS_1 12C0-301
MRHY_1 12C0-301
LFA 12C0-301
MRMS_1 12C0-301
MRPC 12C0-301
TCC-BF 12C0-301

MRPS_2 12C0-301
MRPO_UD 12C0-301
MRSC_01 12C0-301
MRMS_2 12C0-301
SGT-L 12C0-301
ACTS-B1 12C0-301

Output DLIS Files

DEFAULT	MDT_OFA_039LTP	FN:66	PRODUCER	03-Apr-2004 02:34
BACKUP	MDT_OFA_039LTP	FN:67	PRODUCER	03-Apr-2004 02:31

Schlumberger

Pretest @ 3437.7m MD

MAXIS Field Log

File 38

3-Apr-2004

Depth, M: 3437.70

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Turrum

Marlin A-6a

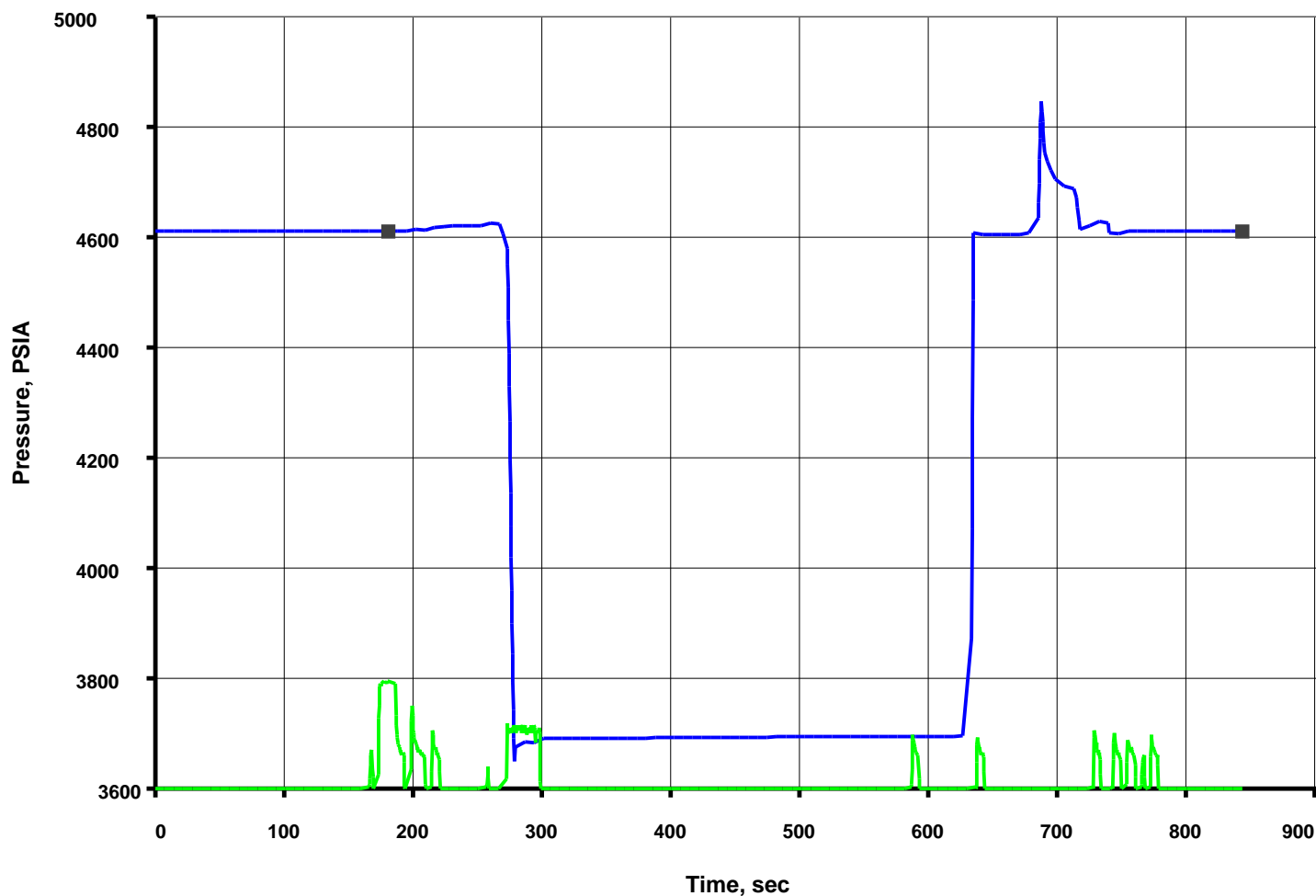
Lost Seal - Large-Diameter probe

Mud Pressure before test, PSIA:

4612.1

Mud Pressure after test, PSIA:

4612.62

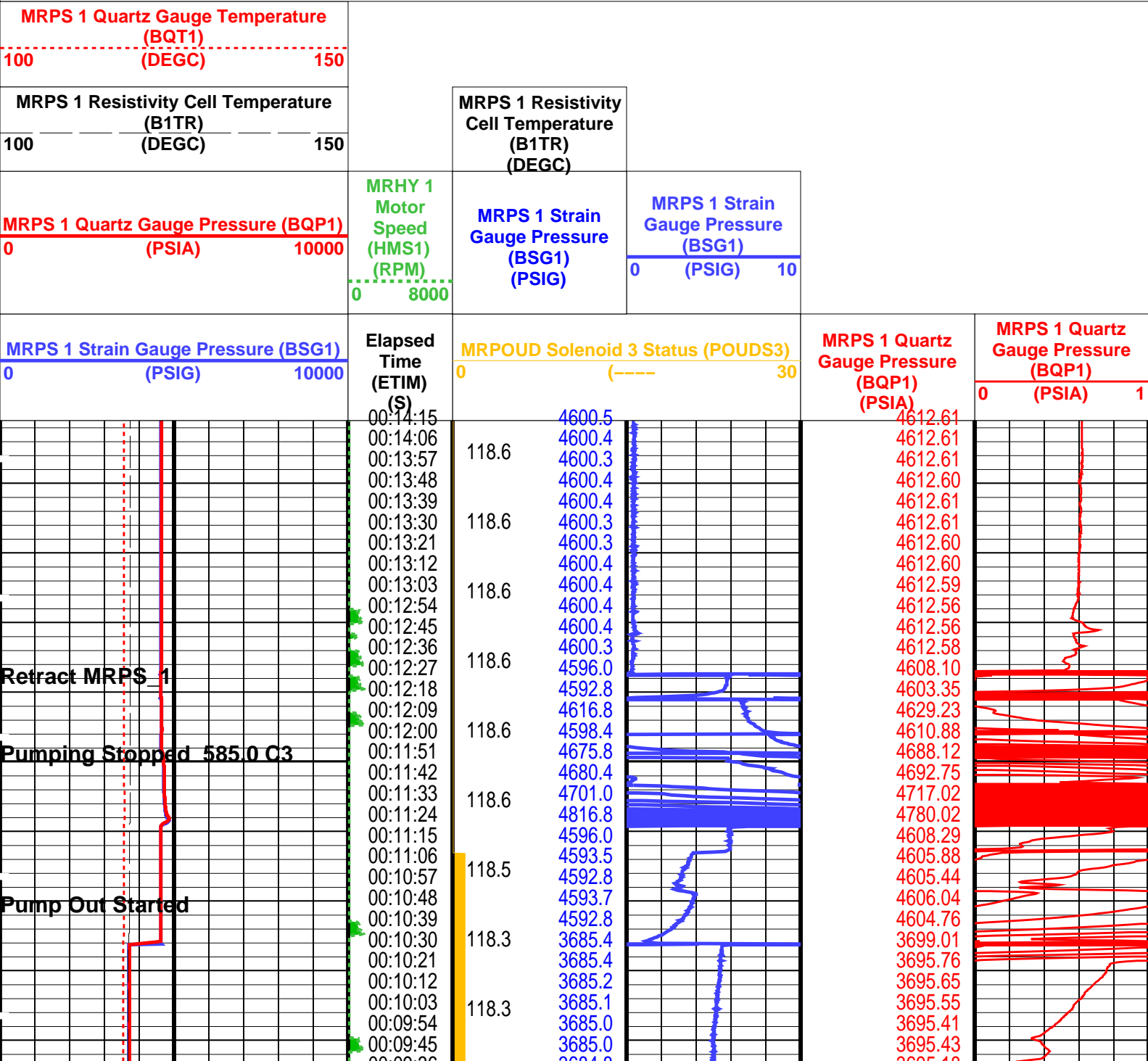


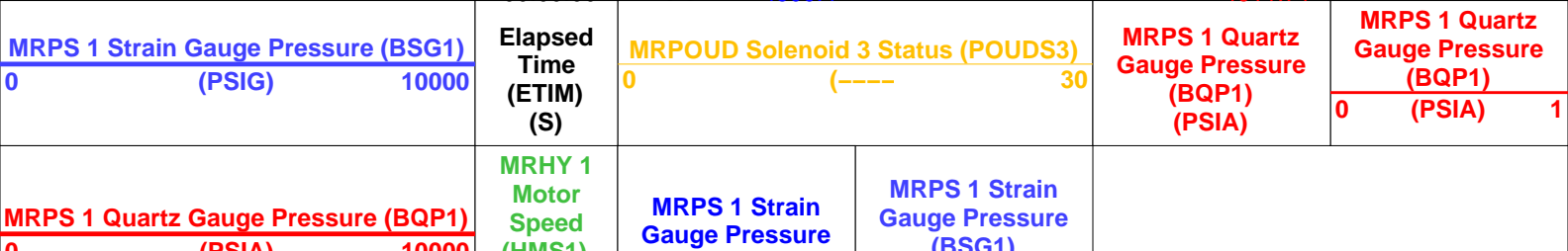
Output DLIS Files

Elapsed Time (s)	Event Summary
747.0	Retract Single Probe Module (MRPS) 1
713.4	Pumping Stopped 585.0 C3 Dual Up-down Pumpout Module (MRPOUD)
648.6	Pump Out Started Dual Up-down Pumpout Module (MRPOUD)
267.3	Vert Pretest 20.0 cc @ 60 C3/M Single Probe Module (MRPS) 1
193.5	Probe Set @ 3437.7 M Single Probe Module (MRPS) 1

PIP SUMMARY

Time Mark Every 60 S





(PSIA)	10000	(RPM)	0	8000	(BSG1) (PSIG)	0	(PSIG)	10
MRPS 1 Resistivity Cell Temperature (B1TR)				MRPS 1 Resistivity Cell Temperature (B1TR)				
100	(DEGC)	150			(DEGC)			
MRPS 1 Quartz Gauge Temperature (BQT1)								
100	(DEGC)	150						


PIP SUMMARY	
Time Mark Every 60 S	

Parameters			
DLIS Name	Description	Value	
MRPS_1: Single Probe Module (MRPS) 1			
QGCA	Quartz Gauge Pressure Correction Applied	DYCO	
QGDA	Quartz Gauge Deviation Angle	0	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
MRPS_2: Single Probe Module (MRPS) 2			
QGCA	Quartz Gauge Pressure Correction Applied	DYCO	
QGDA	Quartz Gauge Deviation Angle	0	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
LFA: Live Fluid Analyzer			
PDCO	Probe Depth Correction Offset	0	M
MRPC: Power Cartridge			
PDCO	Probe Depth Correction Offset	0	M

Format: MRPS_1_SGQG_Station	Vertical Scale: 1" per 60S	Graphics File Created: 03-Apr-2004 02:12
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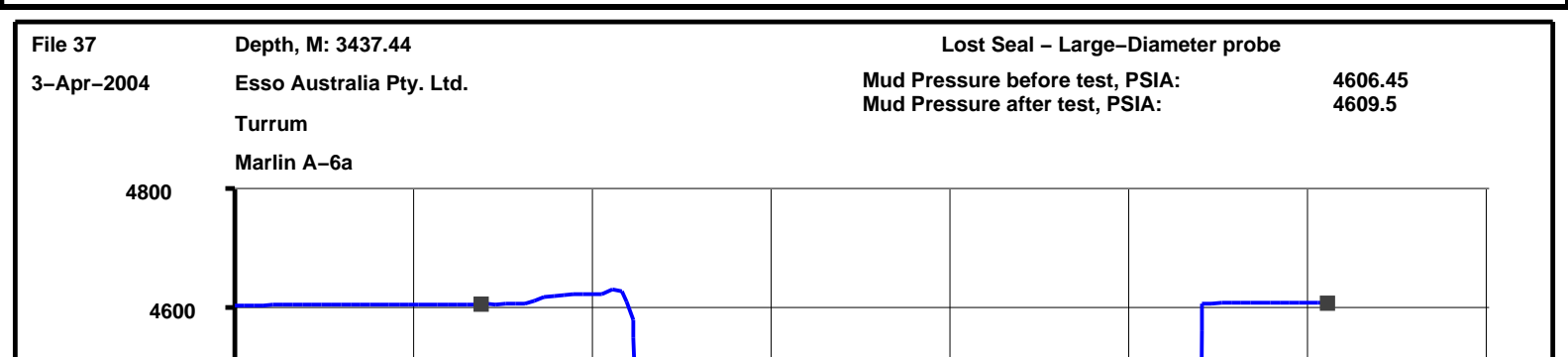
OP System Version: 12C0-301			
MCM			
MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301

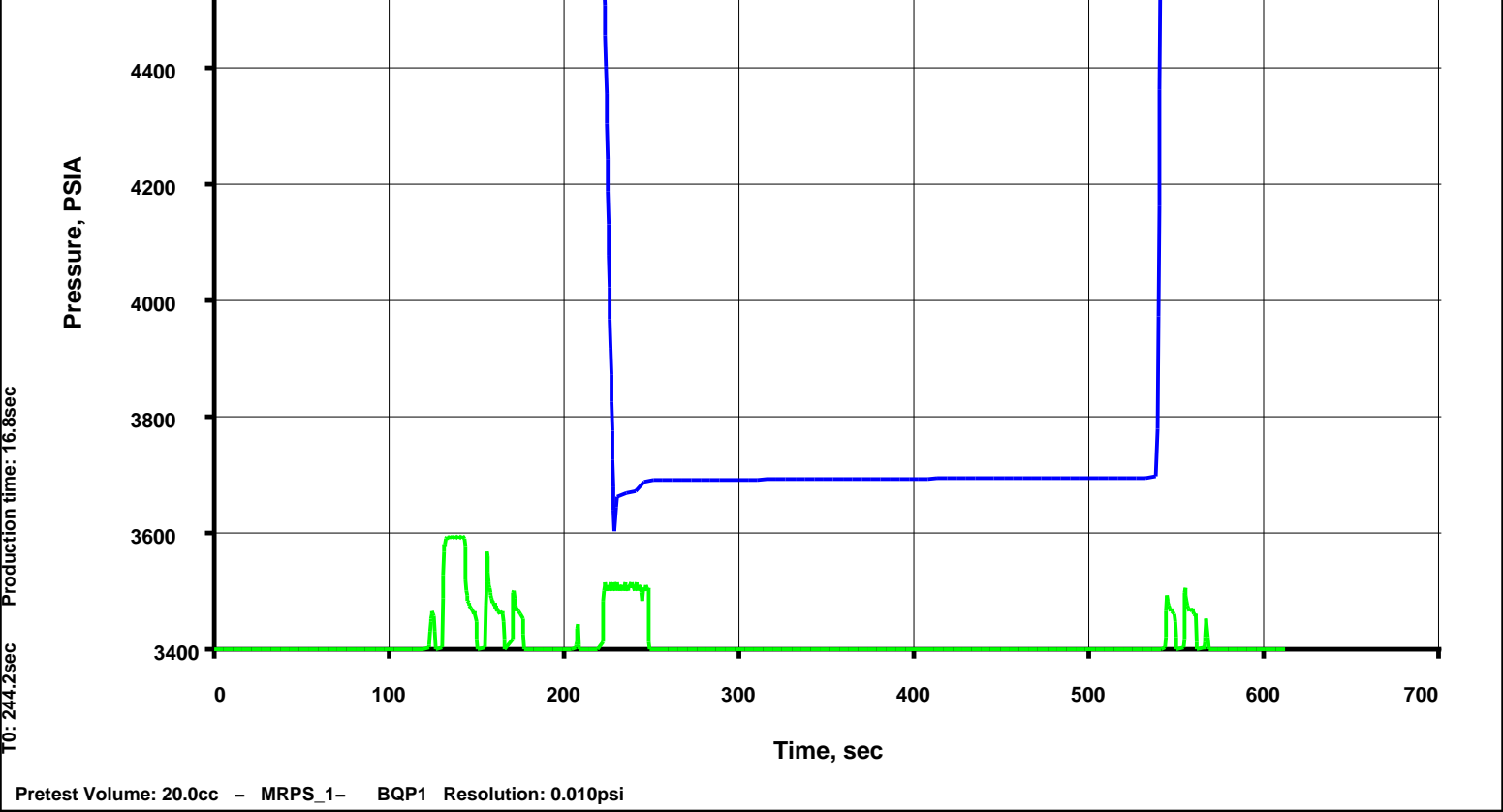
Output DLIS Files			
DEFAULT	MDT_OFA_038LTP	FN:64	PRODUCER 03-Apr-2004 02:12
BACKUP	MDT_OFA_038LTP	FN:65	PRODUCER 03-Apr-2004 02:09



Pretest @ 3437.5m MD

MAXIS Field Log





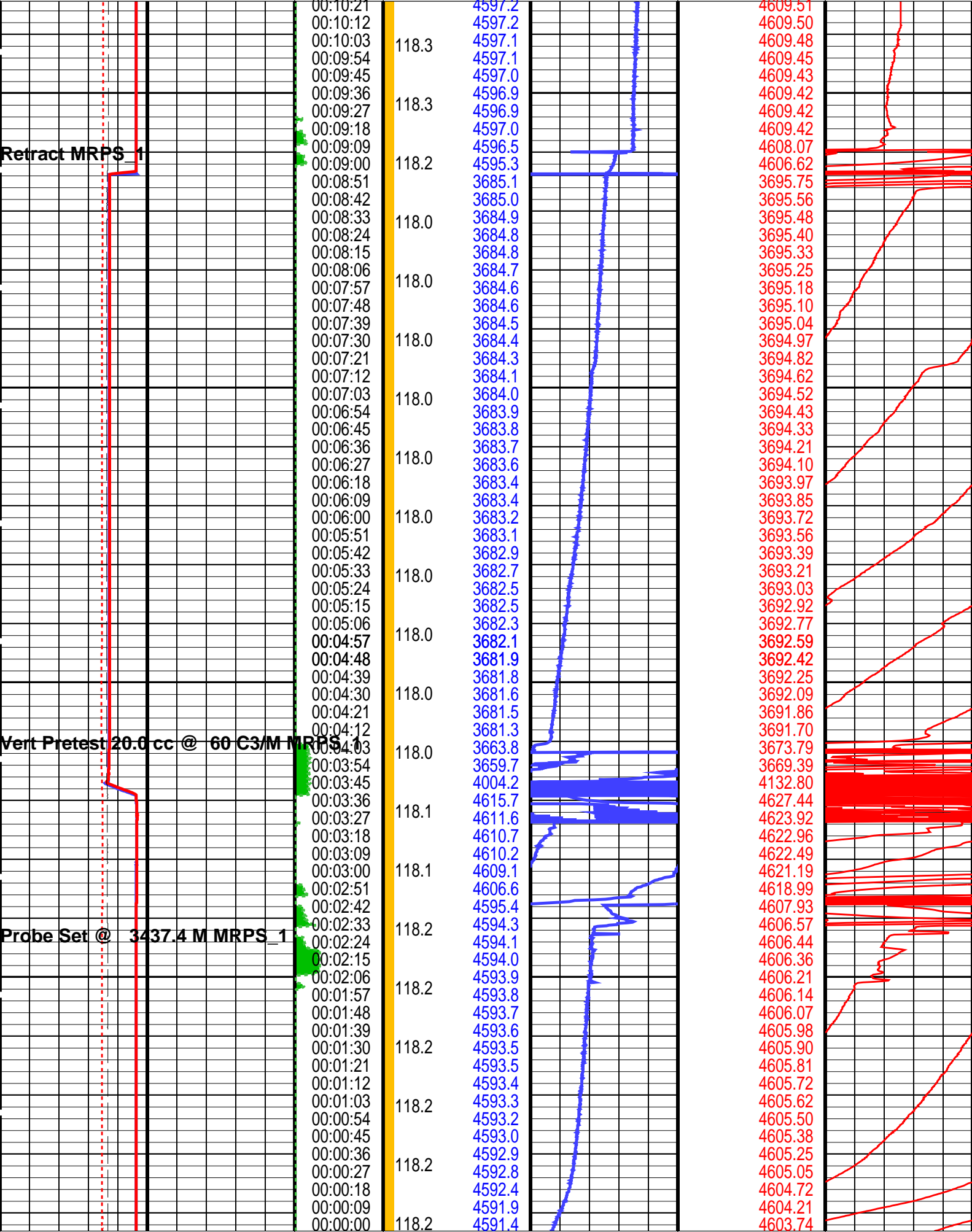
Output DLIS Files

DEFAULT	MDT_OFA_037LTP	FN:62	PRODUCER	03-Apr-2004 01:53	3437.4 M	1.6 M
BACKUP	MDT_OFA_037LTP	FN:63	PRODUCER	03-Apr-2004 01:50	3437.4 M	1.6 M

Elapsed Time (s)	Event Summary
548.7	Retract Single Probe Module (MRPS) 1
217.2	Vert Pretest 20.0 cc @ 60 C3/M Single Probe Module (MRPS) 1
150.6	Probe Set @ 3437.4 M Single Probe Module (MRPS) 1

PIP SUMMARY

Time Mark Every 60 S					
MRPS 1 Quartz Gauge Temperature (BQT1) (DEGC)					
100 150					
MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)		MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)			
100 150					
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)		MRHY 1 Motor Speed (HMS1) (RPM)		MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	
0 10000		0 8000		0 10	
MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)		Elapsed Time (ETIM) (S)		MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	
0 10000		0 30		0 1	
		MRPOUD Solenoid 3 Status (POUDS3) (-----)		MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	
				0 1	



MRPS 1 Strain Gauge Pressure (BSG1)	Elapsed Time (ETIM)	MRPOUD Solenoid 3 Status (POUDS3)	MRPS 1 Quartz Gauge Pressure (BQP1)	MRPS 1 Quartz Gauge Pressure (BQP1)
0 (PSIG) 10000	0 (-----) 30	0 (-----) 30	0 (PSIA) 4	0 (PSIA) 4

	(S)		(PSIA)	0	(PSIA)	1
MRPS 1 Quartz Gauge Pressure (BQP1)	MRHY 1 Motor Speed (HMS1) (RPM)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	MRPS 1 Strain Gauge Pressure (BSG1)	0	(PSIG)	10
0 (PSIA) 10000	0 8000					
MRPS 1 Resistivity Cell Temperature (B1TR)		MRPS 1 Resistivity Cell Temperature (B1TR)				
100 (DEGC) 150						
MRPS 1 Quartz Gauge Temperature (BQT1)						
100 (DEGC) 150						

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MRPS_1: Single Probe Module (MRPS) 1		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
MRPS_2: Single Probe Module (MRPS) 2		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
LFA: Live Fluid Analyzer		
PDCO	Probe Depth Correction Offset	0 M
MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0 M

Format: MRPS_1_SGQG_Station Vertical Scale: 1" per 60S Graphics File Created: 03-Apr-2004 01:53

OP System Version: 12C0-301

MCM

MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301

Output DLIS Files

DEFAULT	MDT_OFA_037LTP	FN:62	PRODUCER	03-Apr-2004 01:53
BACKUP	MDT_OFA_037LTP	FN:63	PRODUCER	03-Apr-2004 01:50

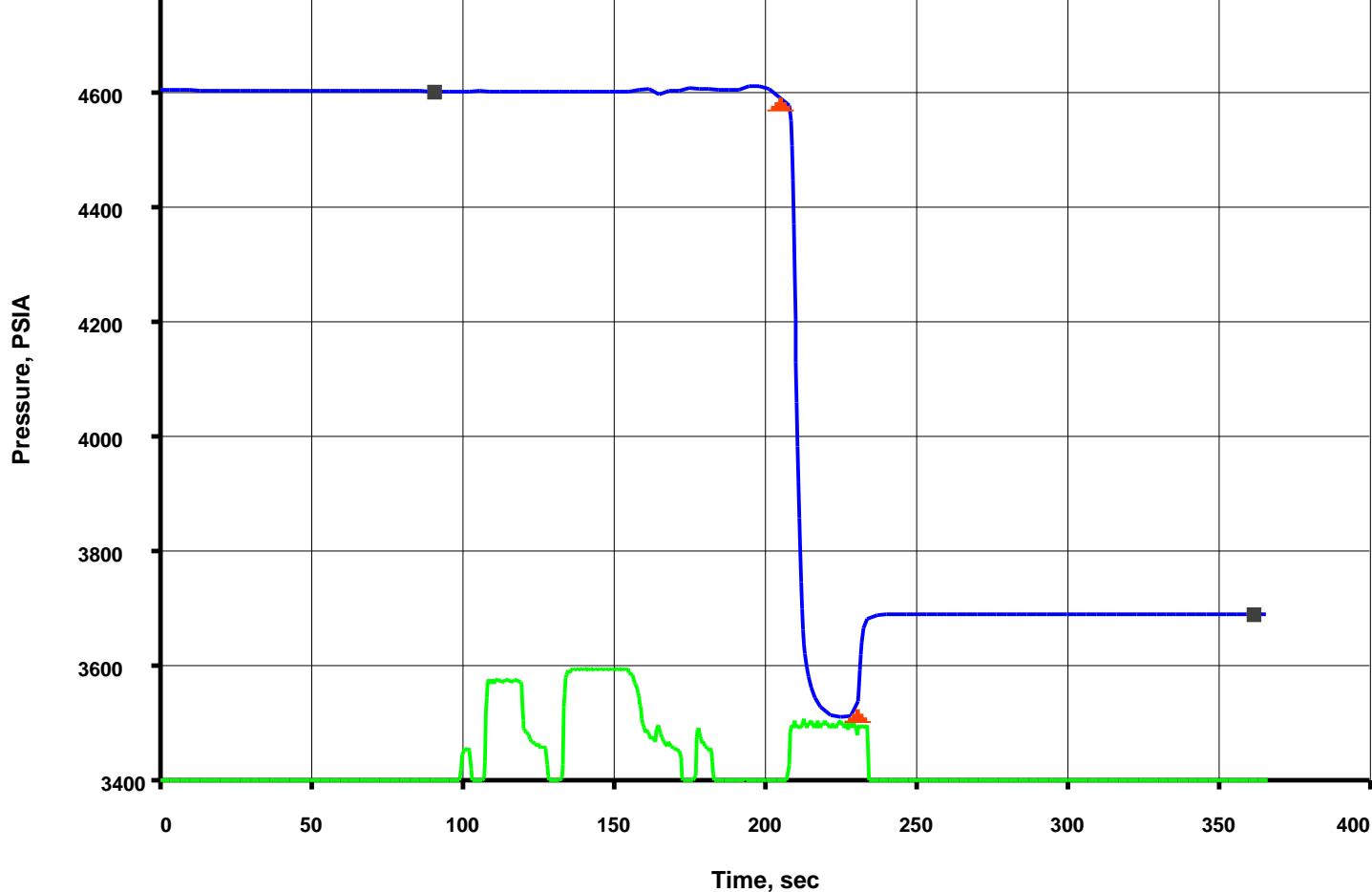
Schlumberger

Pretest and Pumping @ 3432m MD

MAXIS Field Log

File 35	Depth, M: 3431.99	Draw-down Pretest – Large-Diameter probe
3-Apr-2004	Esso Australia Pty. Ltd.	Mud Pressure before test, PSIA: 4603.17
	Turrum	Last build-up pressure, PSIA: 3690.53
	Marlin A-6a	Draw-down mobility, md/cp: 15.8

4800



Pretest Volume: 20.0cc - MRPS_1- BQP1 Resolution: 0.010psi

File 36

Depth, M: 0.00

Unrecognizable - Large-Diameter probe

3-Apr-2004

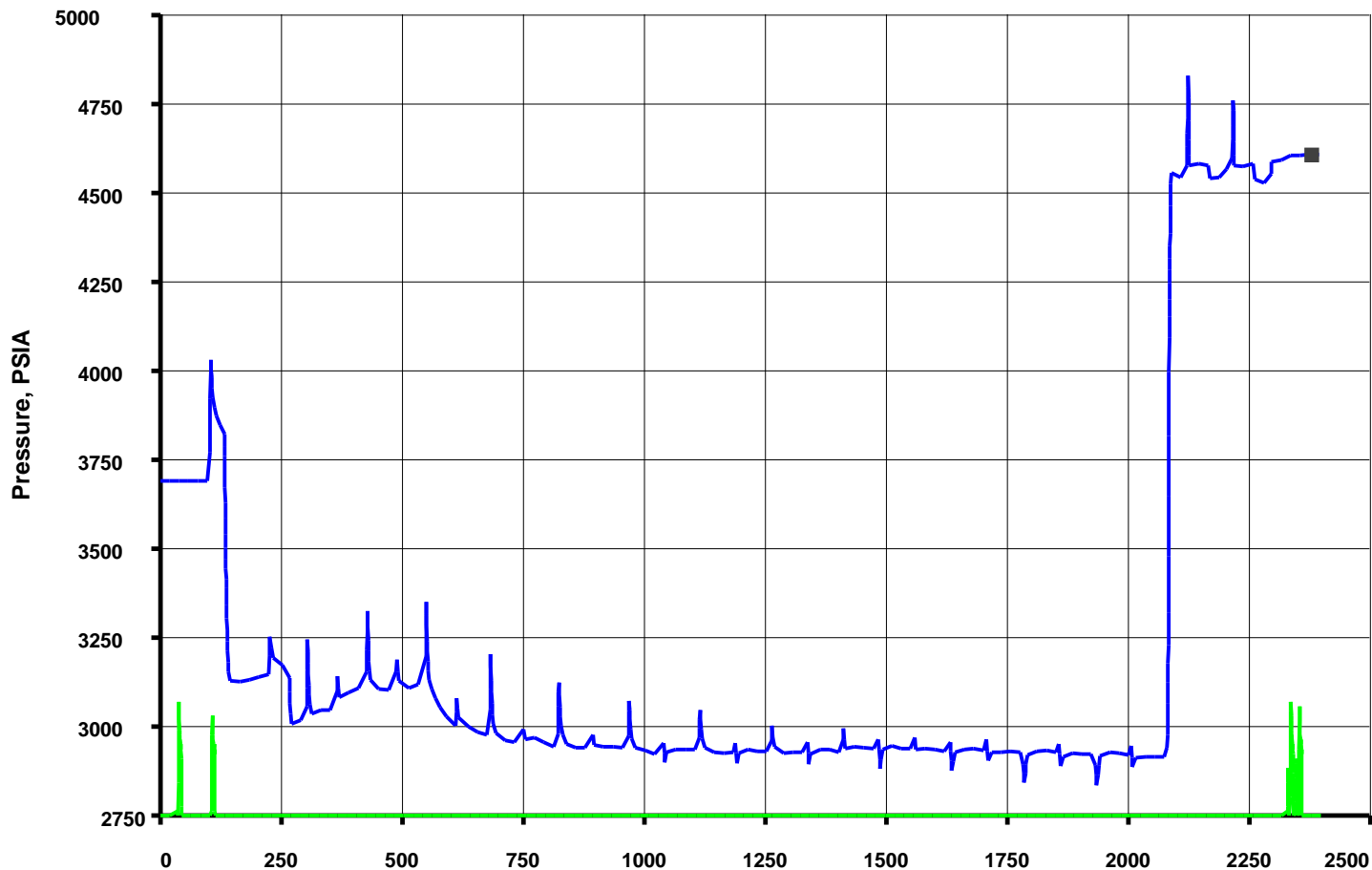
Esso Australia Pty. Ltd.

Mud Pressure after test, PSIA:

4604.02

Turrum

Marlin A-6a



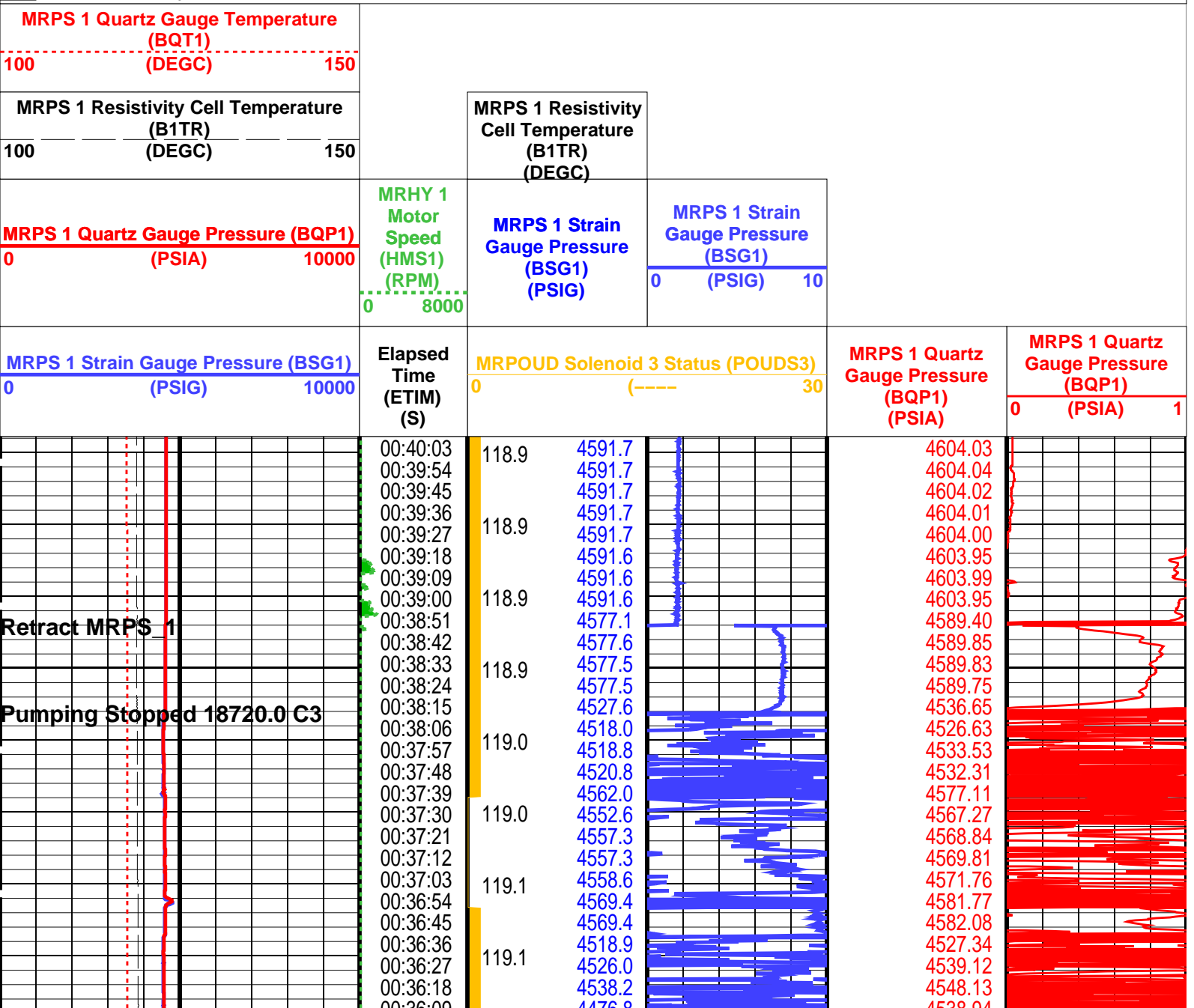
Output DLIS Files

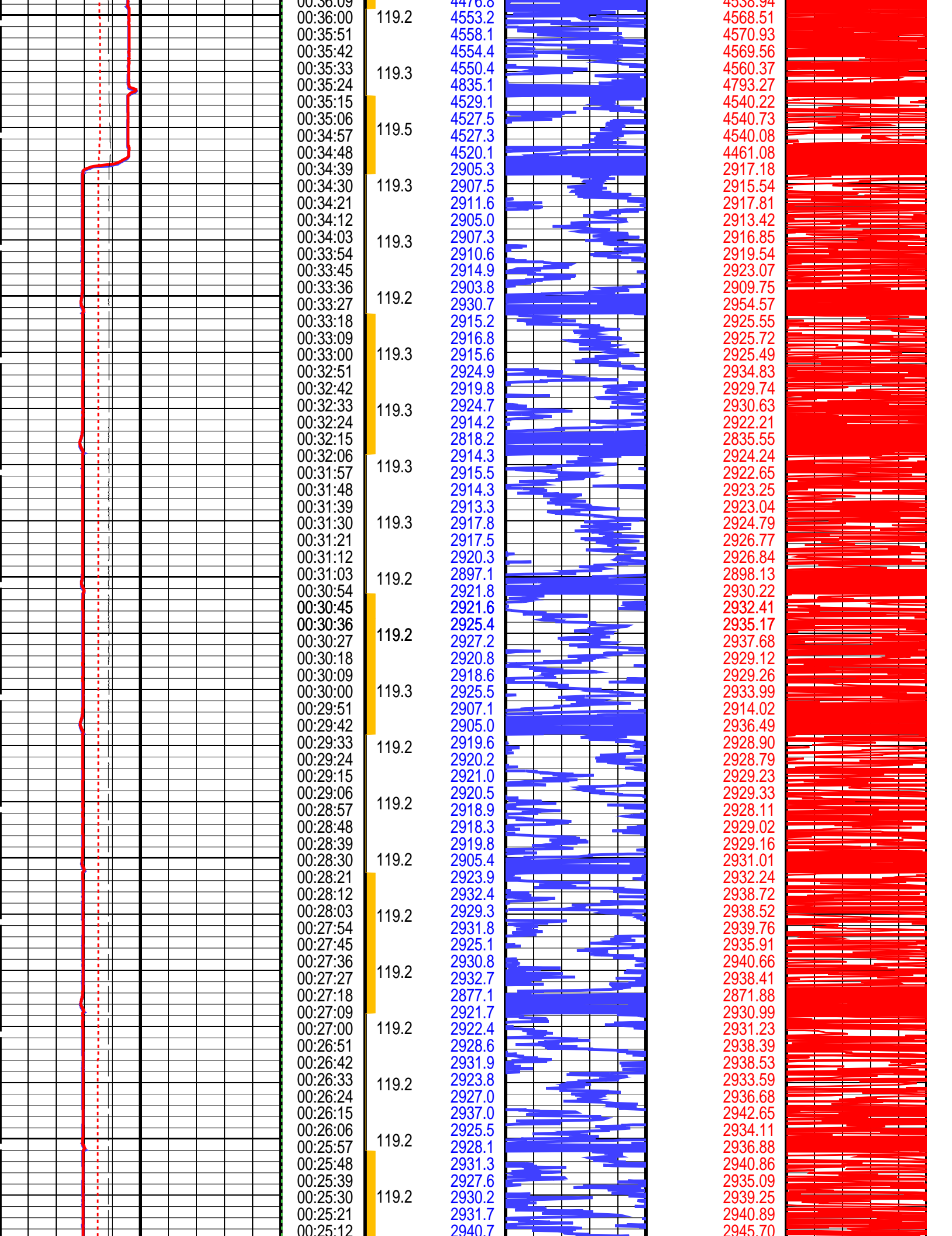
DEFAULT	MDT_OFA_036LTP	FN:60	PRODUCER	03-Apr-2004 00:44	3432.0 M	6.1 M
BACKUP	MDT_OFA_036LTP	FN:61	PRODUCER	03-Apr-2004 00:41	3432.0 M	6.1 M

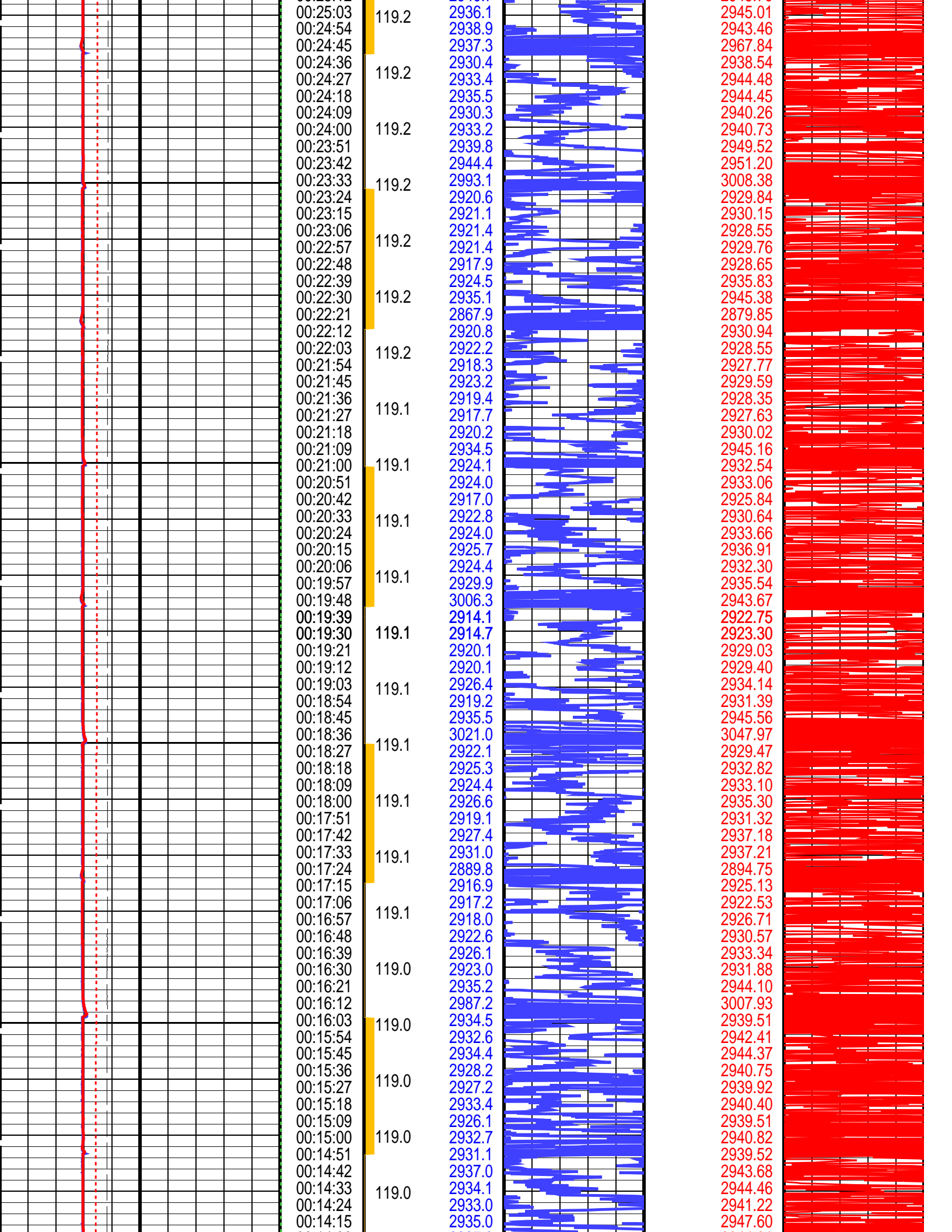
Elapsed Time (s)	Event Summary
2331.9	Retract Single Probe Module (MRPS) 1
2295.6	Pumping Stopped 18720.0 C3 Dual Up-down Pumpout Module (MRPOUD)
123.9	Pump Out Started Dual Up-down Pumpout Module (MRPOUD)

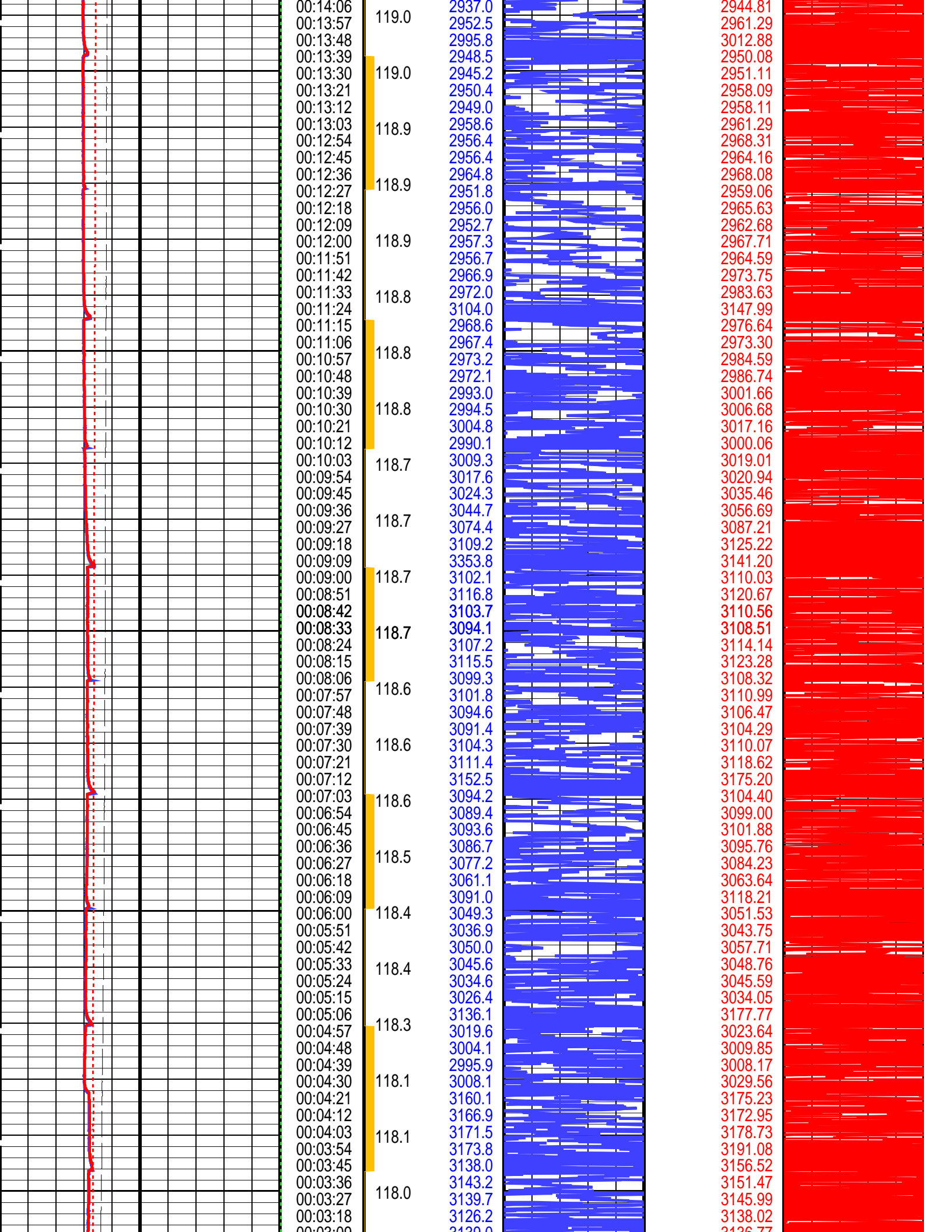
PIP SUMMARY

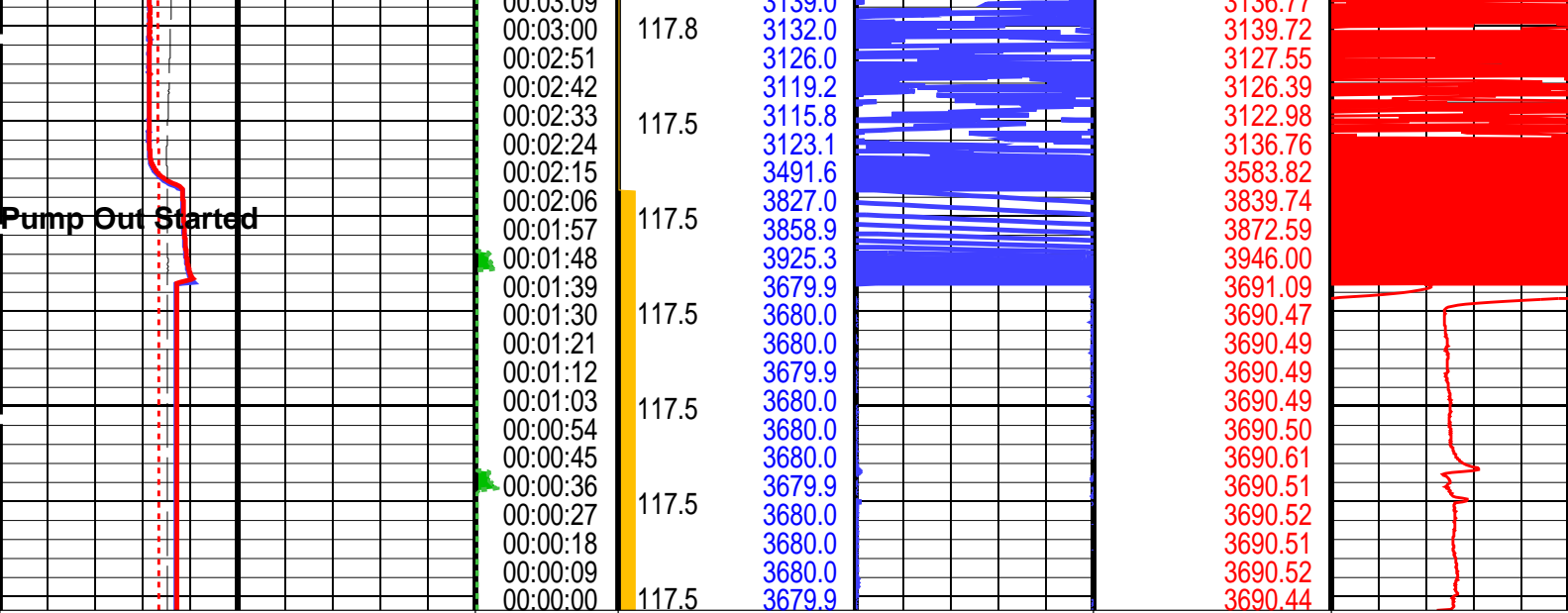
Time Mark Every 60 S











<div>MRPS 1 Strain Gauge Pressure (BSG1)</div> <div>0 (PSIG) 10000</div>		<div>Elapsed Time (ETIM) (S)</div>	<div>MRPOUD Solenoid 3 Status (POUDS3)</div> <div>0 (----) 30</div>		<div>MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)</div>	<div>MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)</div> <div>0 1</div>
<div>MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)</div> <div>0 (PSIA) 10000</div>			<div>MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)</div> <div>0 (PSIG) 10</div>			
<div>MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)</div> <div>100 (DEGC) 150</div>			<div>MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)</div>			
<div>MRPS 1 Quartz Gauge Temperature (BQT1) (DEGC)</div> <div>100 (DEGC) 150</div>						

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
MRPS_1: Single Probe Module (MRPS) 1			
QGCA	Quartz Gauge Pressure Correction Applied	DYCO	
QGDA	Quartz Gauge Deviation Angle	0	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
MRPS_2: Single Probe Module (MRPS) 2			
QGCA	Quartz Gauge Pressure Correction Applied	DYCO	
QGDA	Quartz Gauge Deviation Angle	0	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
LFA: Live Fluid Analyzer			
PDCO	Probe Depth Correction Offset	0	M
MRPC: Power Cartridge			
PDCO	Probe Depth Correction Offset	0	M

Format: MRPS_1_SGQG_Station Vertical Scale: 1" per 60S Graphics File Created: 03-Apr-2004 00:44

OP System Version: 12C0-301

MCM

MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301

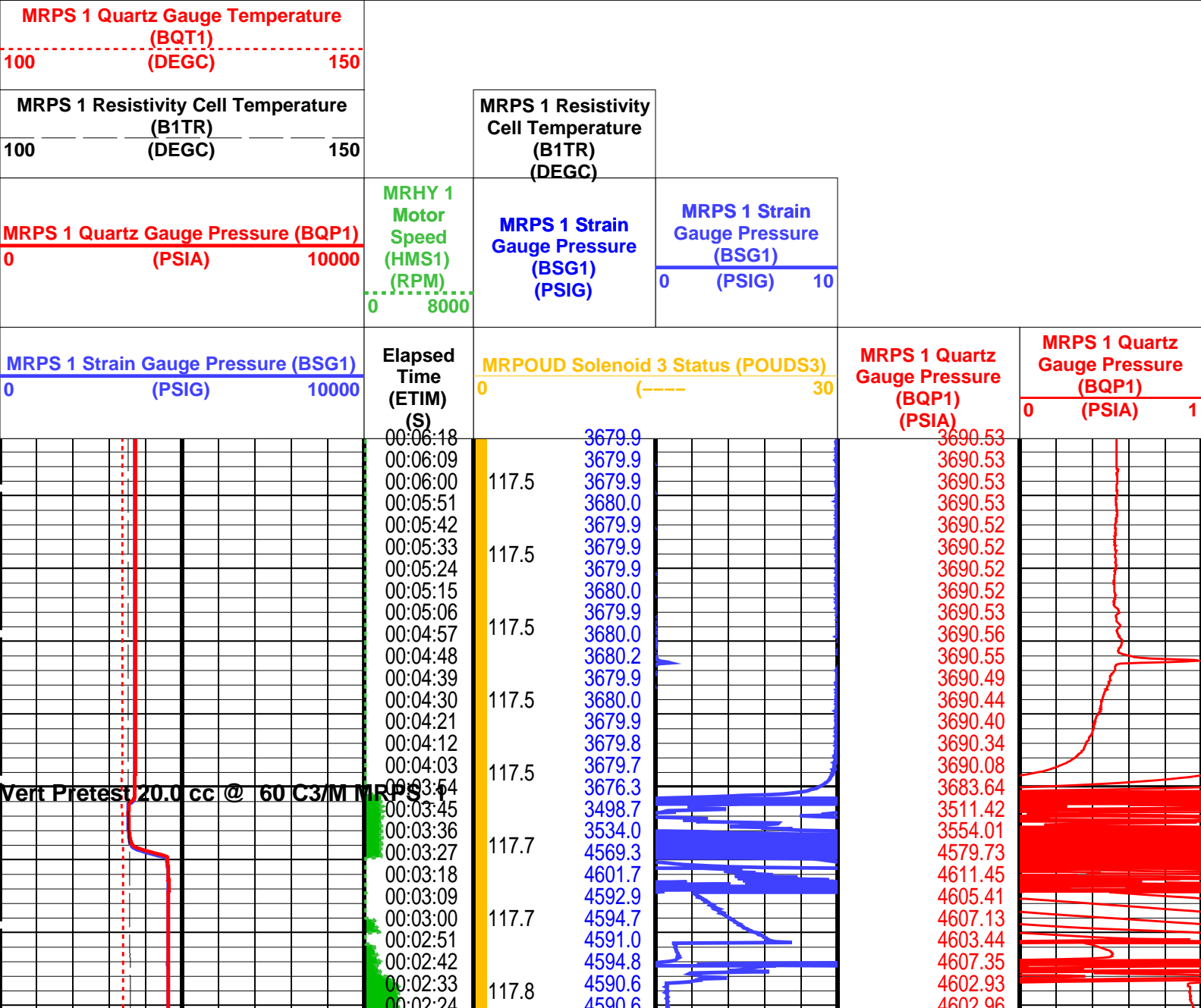
Output DLIS Files

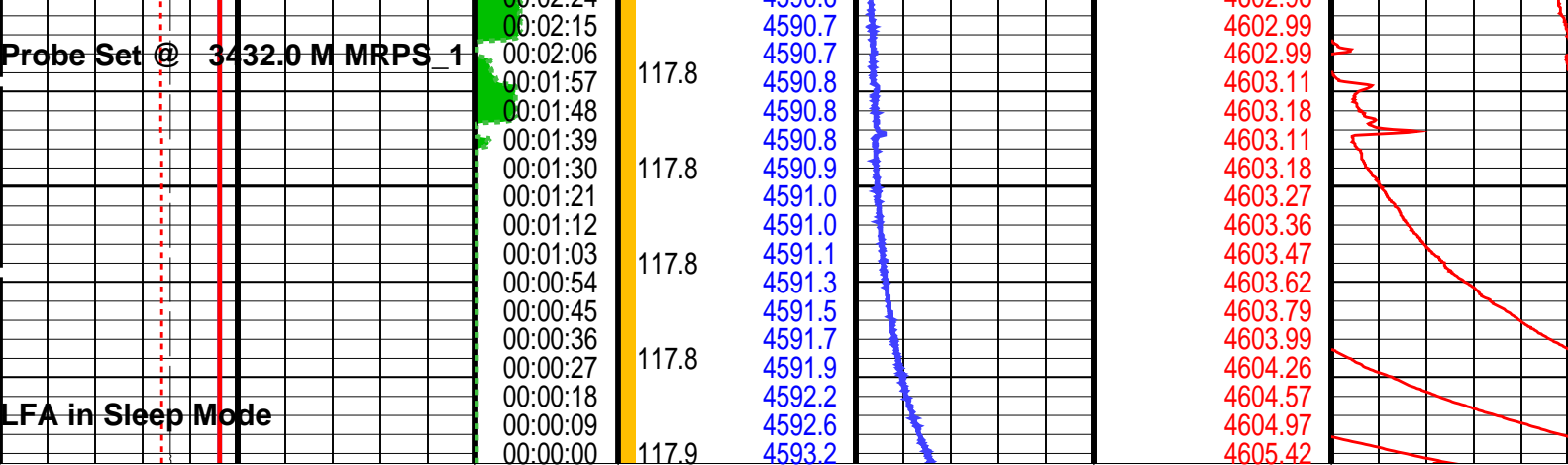
DEFAULT	MDT_OFA_036LTP	FN:60	PRODUCER	03-Apr-2004 00:44
BACKUP	MDT_OFA_036LTP	FN:61	PRODUCER	03-Apr-2004 00:41

Output DLIS Files						
DEFAULT	MDT_OFA_035LTP	FN:58	PRODUCER	03-Apr-2004 00:35	3432.0 M	1.0 M
BACKUP	MDT_OFA_035LTP	FN:59	PRODUCER	03-Apr-2004 00:32	3432.0 M	1.0 M

Elapsed Time (s)	Event Summary
203.4	Vert Pretest 20.0 cc @ 60 C3/M Single Probe Module (MRPS) 1
129.0	Probe Set @ 3432.0 M Single Probe Module (MRPS) 1

PIP SUMMARY
Time Mark Every 60 S





MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 10000	Elapsed Time (ETIM) (S)	MRPOUD Solenoid 3 Status (POUDS3) 0 (----) 30	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 1
MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 10000	MRHY 1 Motor Speed (HMS1) (RPM) 0 8000	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0 10		
MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC) 100 150	MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)			
MRPS 1 Quartz Gauge Temperature (BQT1) (DEGC) 100 150				

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MRPS_1: Single Probe Module (MRPS) 1		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
MRPS_2: Single Probe Module (MRPS) 2		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
LFA: Live Fluid Analyzer		
PDCO	Probe Depth Correction Offset	0 M
MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0 M

Format: MRPS_1_SGQG_Station Vertical Scale: 1" per 60S Graphics File Created: 03-Apr-2004 00:35

OP System Version: 12C0-301 MCM

MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301

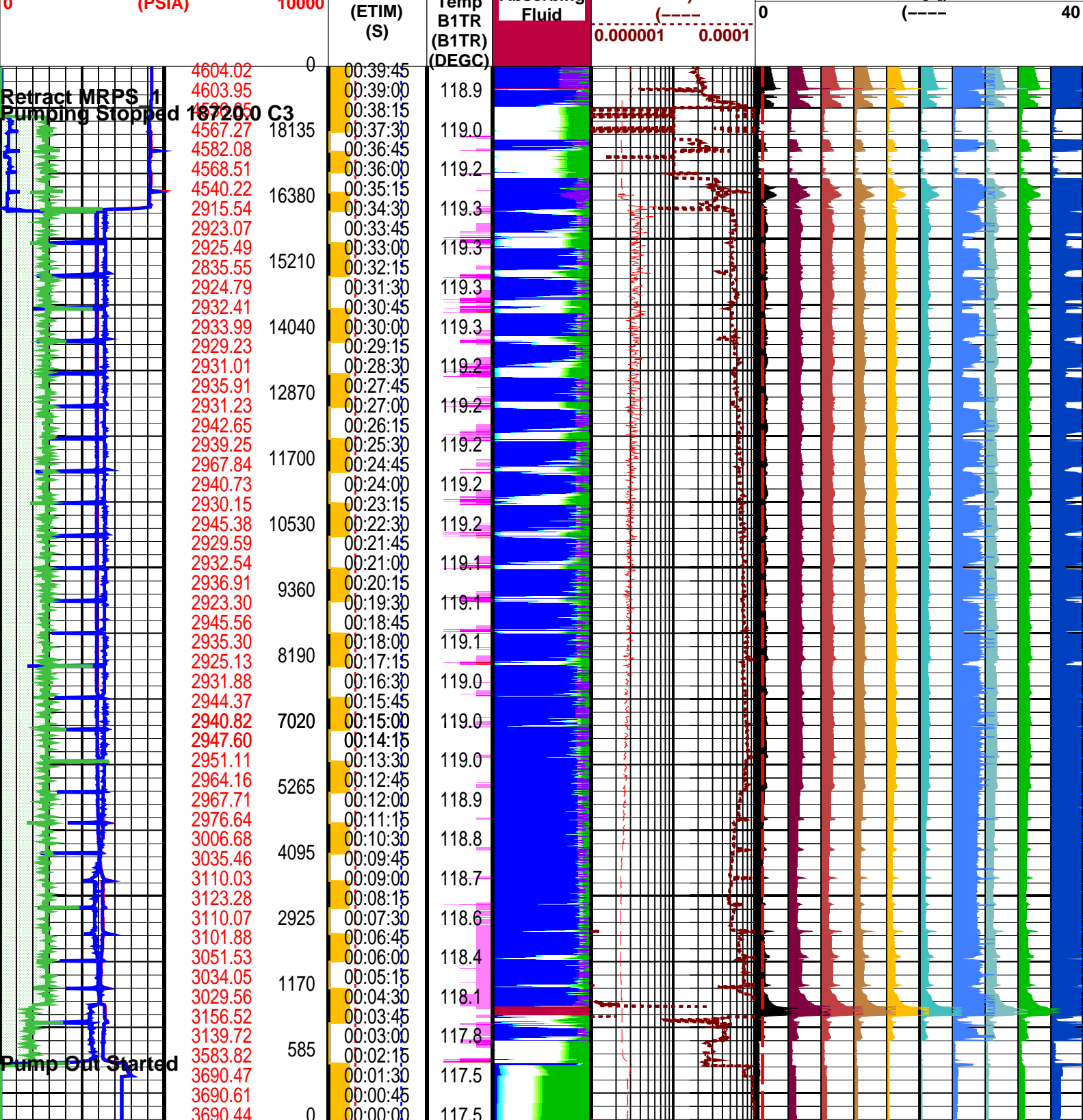
Output DLIS Files

DEFAULT	MDT_OFA_035LTP	FN:58	PRODUCER	03-Apr-2004 00:35
BACKUP	MDT_OFA_035LTP	FN:59	PRODUCER	03-Apr-2004 00:32

Output DLIS Files						
DEFAULT	MDT_OFA_036LTP	FN:60	PRODUCER	03-Apr-2004 00:44	3432.0 M	6.1 M
BACKUP	MDT_OFA_036LTP	FN:61	PRODUCER	03-Apr-2004 00:41	3432.0 M	6.1 M

Elapsed Time (s)	Event Summary
2331.9	Retract Single Probe Module (MRPS) 1
2295.6	Pumping Stopped 18720.0 C3 Dual Up-down Pumpout Module (MRPOUD)
123.9	Pump Out Started Dual Up-down Pumpout Module (MRPOUD)

<div><div>MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)</div><div>Pumpout Volume (POUDPV) (C3)</div></div>	<div>MRPOUD Hydraulic Pressure (POUDHP)</div> <div>0 (PSIG) 5000</div>	<div>MRMS 1 Upper Valve Position (MUP1)</div> <div>(-----) 500 -5</div>	<div>High Gas</div>	<div>Oil</div>	<div>MRPS 1 Flowline Fluid Resistivity (BFR1) (OHMM)</div> <div>0.01 ----- 1</div>	<div>LFA Optical Density Channel 9 (FAOD_LFA[9])</div> <div>-36 (-----) 4</div>		
	<div>MRPOUD Motor Speed (POUDMS)</div> <div>0 (RPM) 5000</div>	<div>MRMS 1 Lower Valve Position (MLP1)</div> <div>(-----) -5 500</div>				<div>LFA Optical Density Channel 8 (FAOD_LFA[8])</div> <div>-32 (-----) 8</div>		
	<div>MRPS 1 Strain Gauge Pressure (BSG1)</div> <div>0 (PSIG) 10000</div>	<div>MRPOUD Solenoid 3 Status (POUDS3)</div> <div>0 (-----) 5</div>	<div>Low Gas</div>			<div>LFA Fluid Coloration (FCOL_LFA)</div> <div>0.0001 (-----) 0.01</div>	<div>LFA Optical Density Channel 7 (FAOD_LFA[7])</div> <div>-28 (-----) 12</div>	
	<div>MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)</div> <div>0 (PSIA) 10000</div>	<div>Elapsed Time</div> <div>0 (-----) 10000</div>	<div>Resistivity Cell Temp</div> <div>0 (-----) 100</div>			<div>Highly Absorbing</div>	<div>LFA Fluid Coloration (FCOL_LFA)</div> <div>0 (-----) 100</div>	<div>LFA Optical Density Channel 6 (FAOD_LFA[6])</div> <div>-24 (-----) 16</div>
							<div>LFA Optical Density Channel 5 (FAOD_LFA[5])</div> <div>-20 (-----) 20</div>	
							<div>LFA Optical Density Channel 4 (FAOD_LFA[4])</div> <div>-16 (-----) 24</div>	
							<div>MRSC 1 Valve Position (VP1)</div> <div>-5 (-----) 250</div>	
							<div>LFA Optical Density Channel 3 (FAOD_LFA[3])</div> <div>-12 (-----) 28</div>	
							<div>LFA Optical Density Channel 2 (FAOD_LFA[2])</div> <div>-8 (-----) 32</div>	
				<div>LFA Optical Density Channel 1 (FAOD_LFA[1])</div> <div>-4 (-----) 36</div>				
				<div>LFA Optical Density Channel 0 (FAOD_LFA[0])</div> <div>0 (-----) 40</div>				



MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 10000		Elapsed Time (ETIM) (S)	Resistivity Cell Temp B1TR (B1TR) (DEGC)	Highly Absorbing Fluid	LFA Fluid Coloration (FCOL_LFA) (----) 0.000001 0.0001	LFA Optical Density Channel 0 (FAOD_LFA[0]) 0 (----) 40
MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 10000		MRPOUD Solenoid 3 Status (POUDS3) 0 (----) 5	Low Gas	Water	LFA Fluid Coloration (FCOL_LFA) (----) 0.0001 0.01	LFA Optical Density Channel 1 (FAOD_LFA[1]) -4 (----) 36
MRPOUD Motor Speed (POUDMS)		MRMS 1 Lower Valve	Medium		MRPS 1 Flowline Fluid Resistivity	LFA Optical Density Channel 2 (FAOD_LFA[2])

0 (RPM) 5000		Position (MLP1)	Medium Gas	Oil	0.01 (BFR1) (OHMM) 1	-8 LFA[2]) (----) 32
		-5 500				
MRPOUD Hydraulic Pressure (POUDHP)		MRMS 1 Upper Valve Position (MUP1)	High Gas	LFA Optical Density Channel 3 (FAOD_ LFA[3])		
0 (PSIG) 5000		(----) 500 -5		-12 (----) 28		
				MRSC 1 Valve Position (VP1)		
Pumpout Volume (POUDPV) (C3)				-5 (----) 250		
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)				LFA Optical Density Channel 4 (FAOD_ LFA[4])		
				-16 (----) 24		
				LFA Optical Density Channel 5 (FAOD_ LFA[5])		
				-20 (----) 20		
				LFA Optical Density Channel 6 (FAOD_ LFA[6])		
				-24 (----) 16		
				LFA Optical Density Channel 7 (FAOD_ LFA[7])		
				-28 (----) 12		
				LFA Optical Density Channel 8 (FAOD_ LFA[8])		
				-32 (----) 8		
				LFA Optical Density Channel 9 (FAOD_ LFA[9])		
				-36 (----) 4		

Parameters			
DLIS Name	Description	Value	
MRPS_1: Single Probe Module (MRPS) 1			
QGCA	Quartz Gauge Pressure Correction Applied	DYCO	
QGDA	Quartz Gauge Deviation Angle	0	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
MRPS_2: Single Probe Module (MRPS) 2			
QGCA	Quartz Gauge Pressure Correction Applied	DYCO	
QGDA	Quartz Gauge Deviation Angle	0	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
LFA: Live Fluid Analyzer			
C1C7SIG_LFA	LFA C1/C7 Signal Values in 1g/cc	** V **	
CEXP_LFA	LFA Coloration Exponent	4.6	
FAGM_LFA	LFA GOR Allow/Disallow Mode	ALLOW	
FAJM_LFA	LFA Job Mode	LFA	
FATCM_LFA	LFA Temp. Coef. Measure Mode	** V **	
FATCS_LFA	LFA Temp. Coef. Source Mode	** V **	
GASH_LFA	LFA Gas Indicator High Level Threshold	0.4	
GASL_LFA	LFA Gas Indicator Low Level Threshold	0.05	
GASM_LFA	LFA Gas Indicator Medium Level Threshold	0.1	
GORD_LFA	LFA GOR Disqualification Level	0.1	
PDCO	Probe Depth Correction Offset	0	M
SATL_LFA	LFA Saturation Level of Optical Density Measurement	** V **	
TCPSTATUS_LFA	LFA Temperature Compensation Coefficient Status	VALID	
MRPC: Power Cartridge			
PDCO	Probe Depth Correction Offset	0	M

Format: LFA_Reduced_with_MRPS1

Vertical Scale: 1" per 300S

Graphics File Created: 03-Apr-2004 00:44

Format: LFA_Reduced_with_MRPS1

Vertical Scale: 1" per 300S

Graphics File Created: 03-Apr-2004 00:44

OP System Version: 12C0-301			
MCM			
MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301

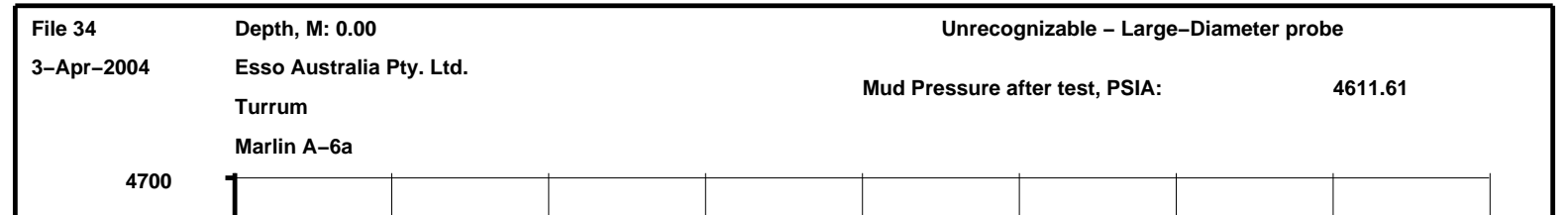
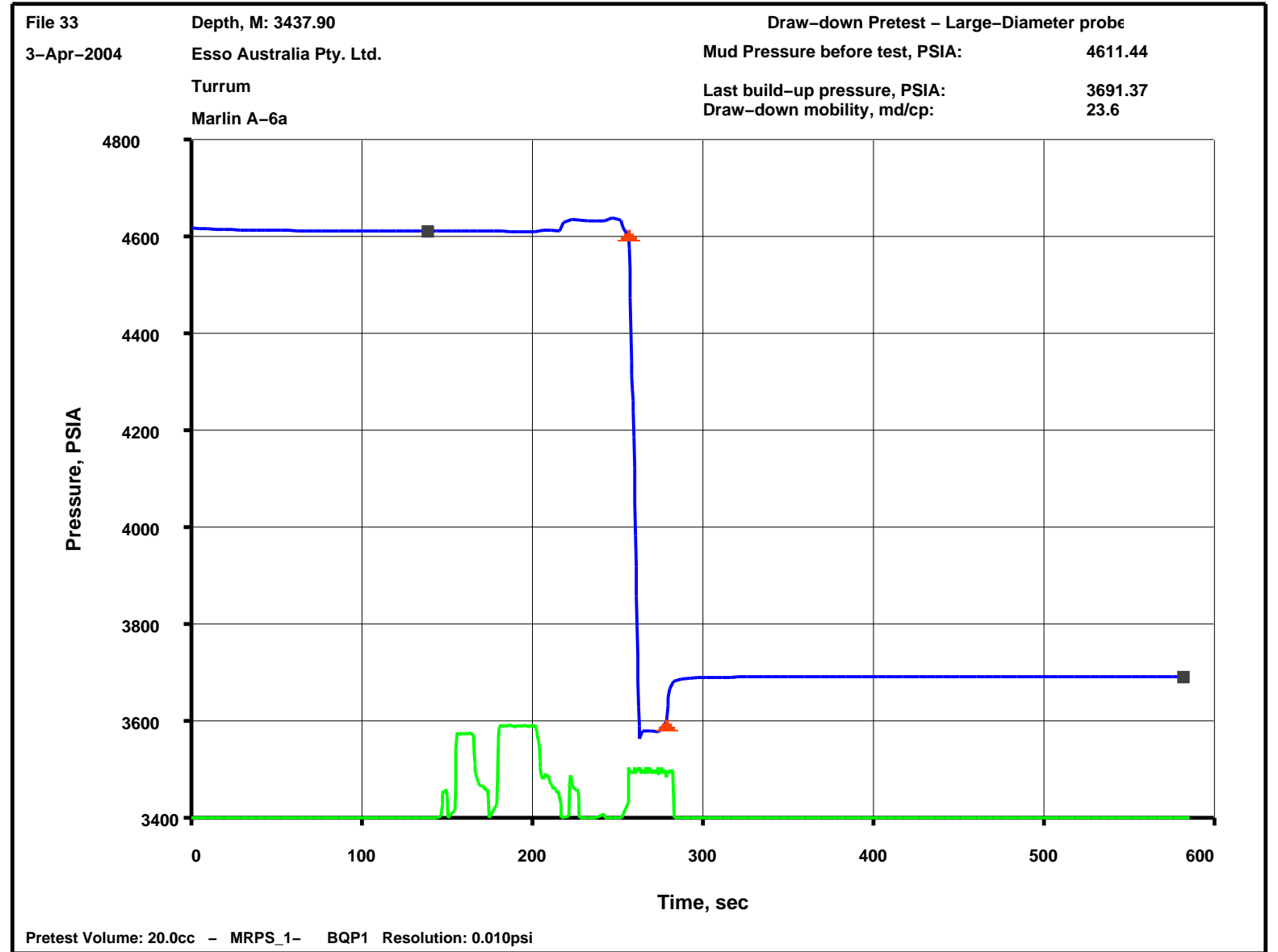
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301

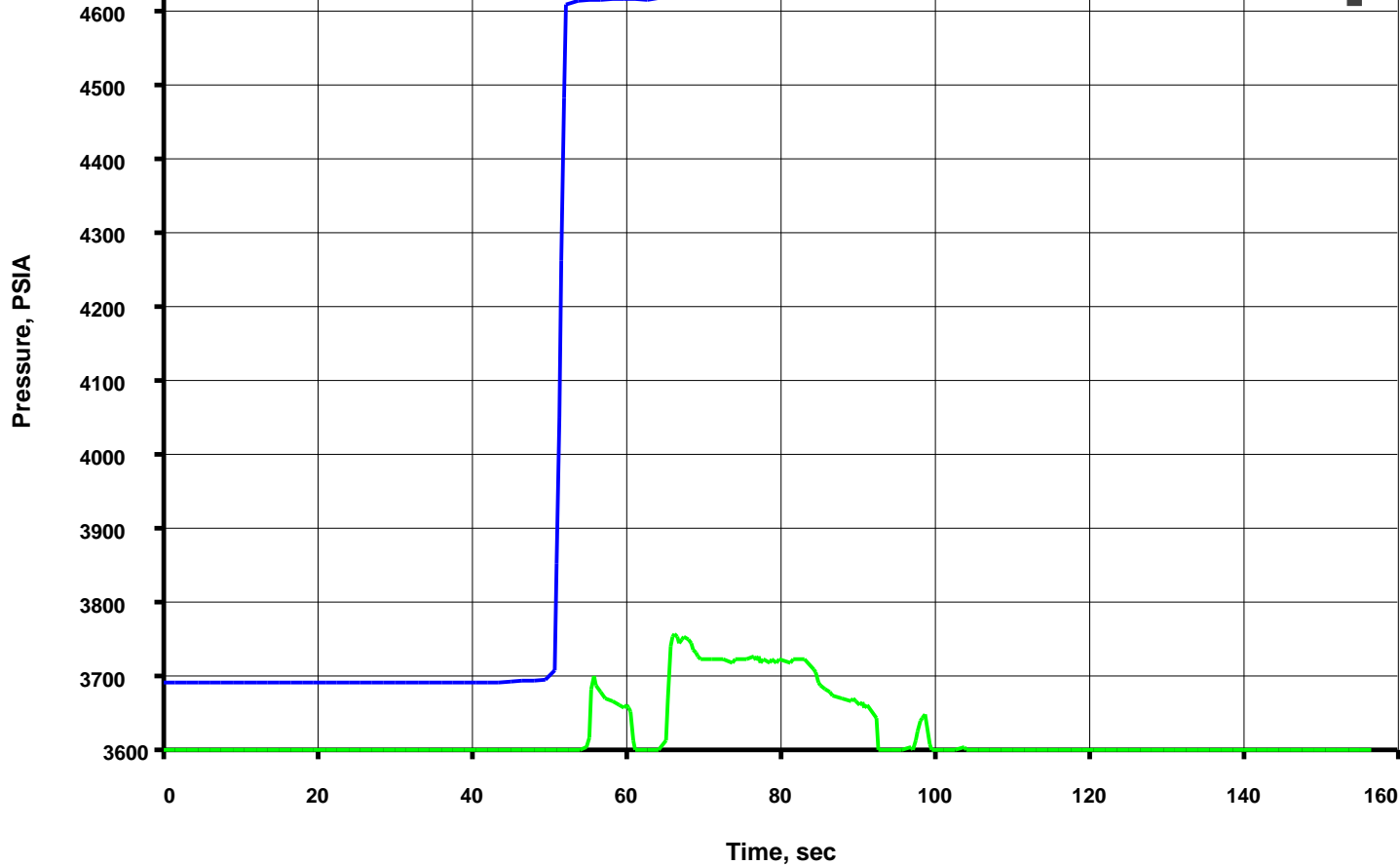
Output DLIS Files				
DEFAULT	MDT_OFA_036LTP	FN:60	PRODUCER	03-Apr-2004 00:44
BACKUP	MDT_OFA_036LTP	FN:61	PRODUCER	03-Apr-2004 00:41



Pretest @ 3438m MD

MAXIS Field Log





Pretest Volume: 0.0 cc - MRPS_1- BQP1 Resolution: 0.010psi

Output DLIS Files

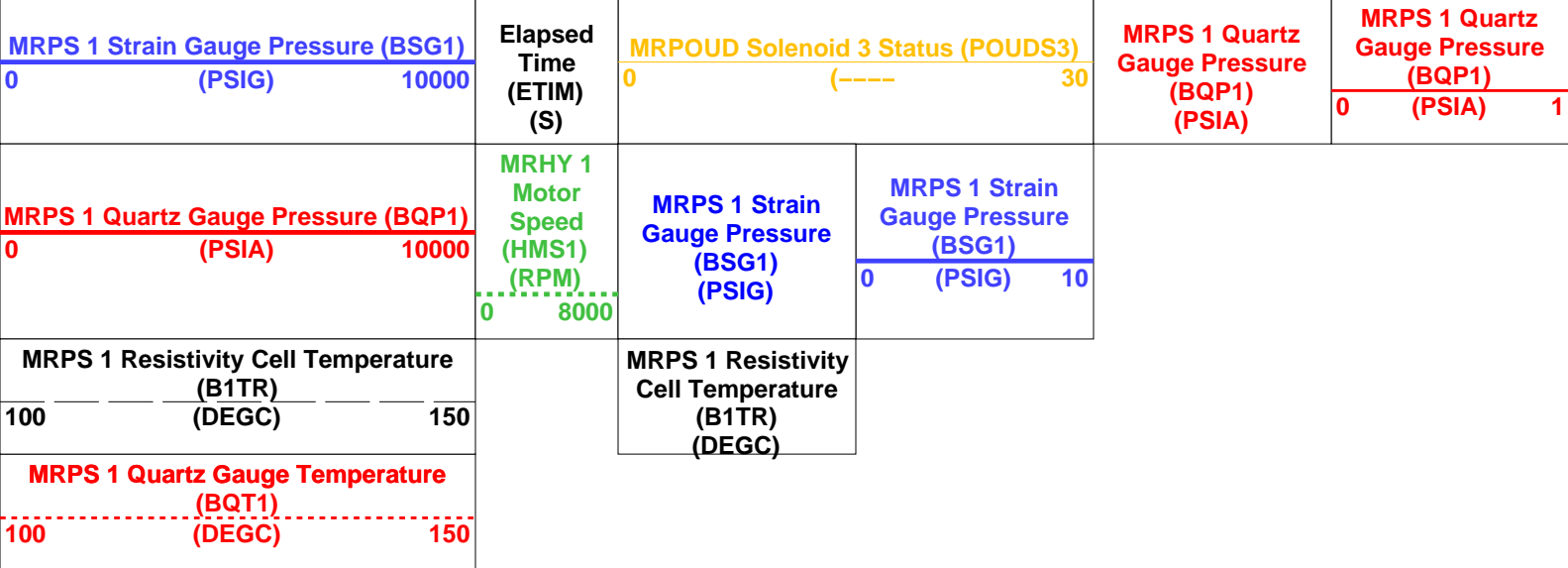
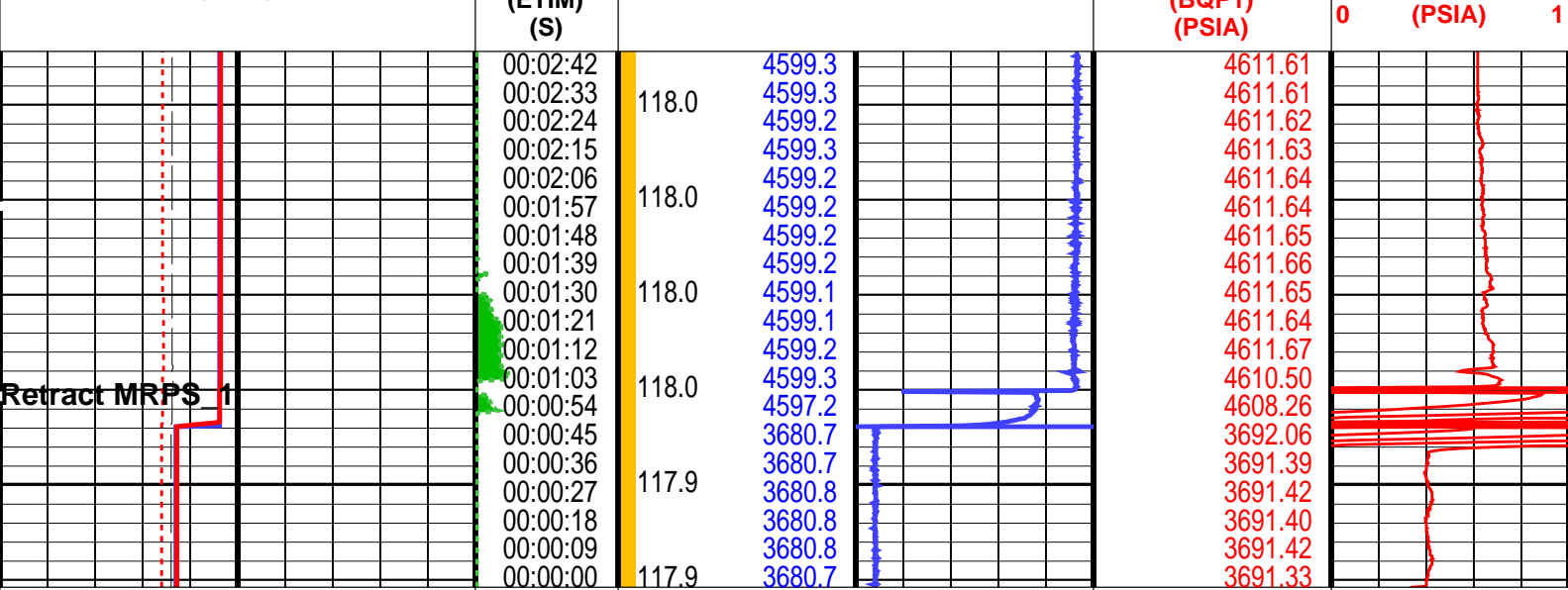
DEFAULT	MDT_OFA_034LTP	FN:56	PRODUCER	03-Apr-2004 00:26	3437.9 M	0.4 M
BACKUP	MDT_OFA_034LTP	FN:57	PRODUCER	03-Apr-2004 00:23	3437.9 M	0.4 M

Elapsed Time (s)	Event Summary
61.2	Retract Single Probe Module (MRPS) 1

PIP SUMMARY

Time Mark Every 60 S

MRPS 1 Quartz Gauge Temperature (BQT1) (DEGC) 100-----150		Decision made not to pump, this file records Mud Pressure After pretest			
MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC) 100-----150		MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)		MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0-----10	
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0-----10000		MRHY 1 Motor Speed (HMS1) (RPM) 0-----8000	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0-----10		
MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0-----10000		Elapsed Time (ETIM)	MRPOUD Solenoid 3 Status (POUDS3) (----) 0-----30		MRPS 1 Quartz Gauge Pressure (BQP1)



PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MRPS_1: Single Probe Module (MRPS) 1		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
MRPS_2: Single Probe Module (MRPS) 2		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
LFA: Live Fluid Analyzer		
PDCO	Probe Depth Correction Offset	0 M
MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0 M

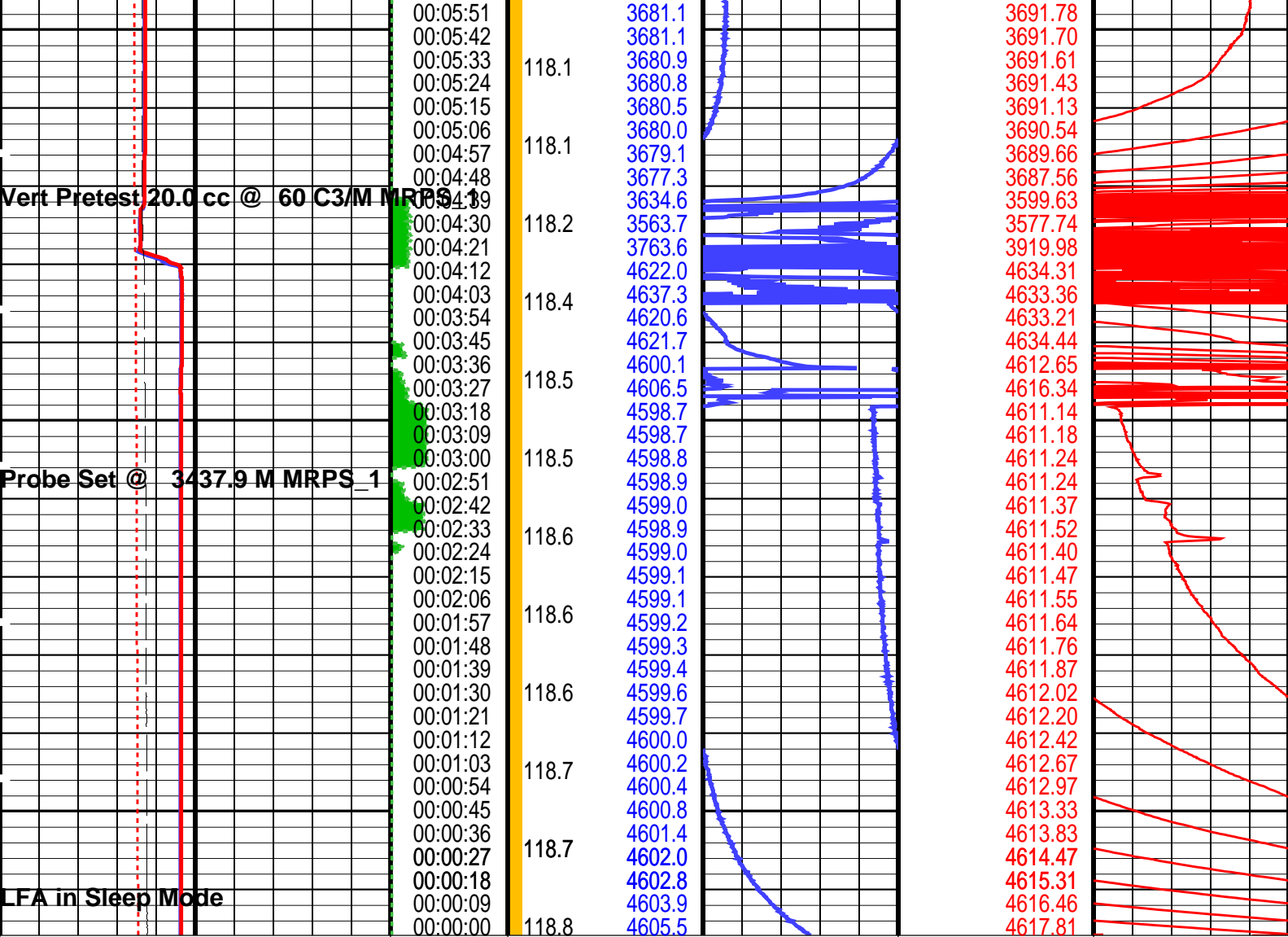
Format: MRPS_1_SGQG_Station Vertical Scale: 1" per 60S Graphics File Created: 03-Apr-2004 00:26

OP System Version: 12C0-301

MCM

MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301

Output DLIS Files



<div>MRPS 1 Strain Gauge Pressure (BSG1)</div> <div>0 (PSIG) 10000</div>		<div>Elapsed Time (ETIM) (S)</div>	<div>MRPOUD Solenoid 3 Status (POUDS3)</div> <div>0 (----) 30</div>		<div>MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)</div>	<div>MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)</div> <div>0 (PSIA) 1</div>	
<div>MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)</div> <div>0 (PSIA) 10000</div>		<div>MRHY 1 Motor Speed (HMS1) (RPM)</div> <div>0 8000</div>	<div>MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)</div>	<div>MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)</div> <div>0 (PSIG) 10</div>			
<div>MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)</div> <div>100 (DEGC) 150</div>			<div>MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)</div>				
<div>MRPS 1 Quartz Gauge Temperature (BQT1) (DEGC)</div> <div>100 (DEGC) 150</div>							

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
MRPS_1: Single Probe Module (MRPS) 1			
QGCA	Quartz Gauge Pressure Correction Applied	DYCO	
QGDA	Quartz Gauge Deviation Angle	0	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
MRPS_2: Single Probe Module (MRPS) 2			
QGCA	Quartz Gauge Pressure Correction Applied	DYCO	
QGDA	Quartz Gauge Deviation Angle	0	DEG

QGA	Quartz Gauge Deviation Angle	0	0
QGFD	Quartz Gauge Flow Line Density	1	G/C3
LFA: Live Fluid Analyzer			
PDCO	Probe Depth Correction Offset	0	M
MRPC: Power Cartridge			
PDCO	Probe Depth Correction Offset	0	M

Format: MRPS_1_SGQG_Station

Vertical Scale: 1" per 60S

Graphics File Created: 03-Apr-2004 00:14

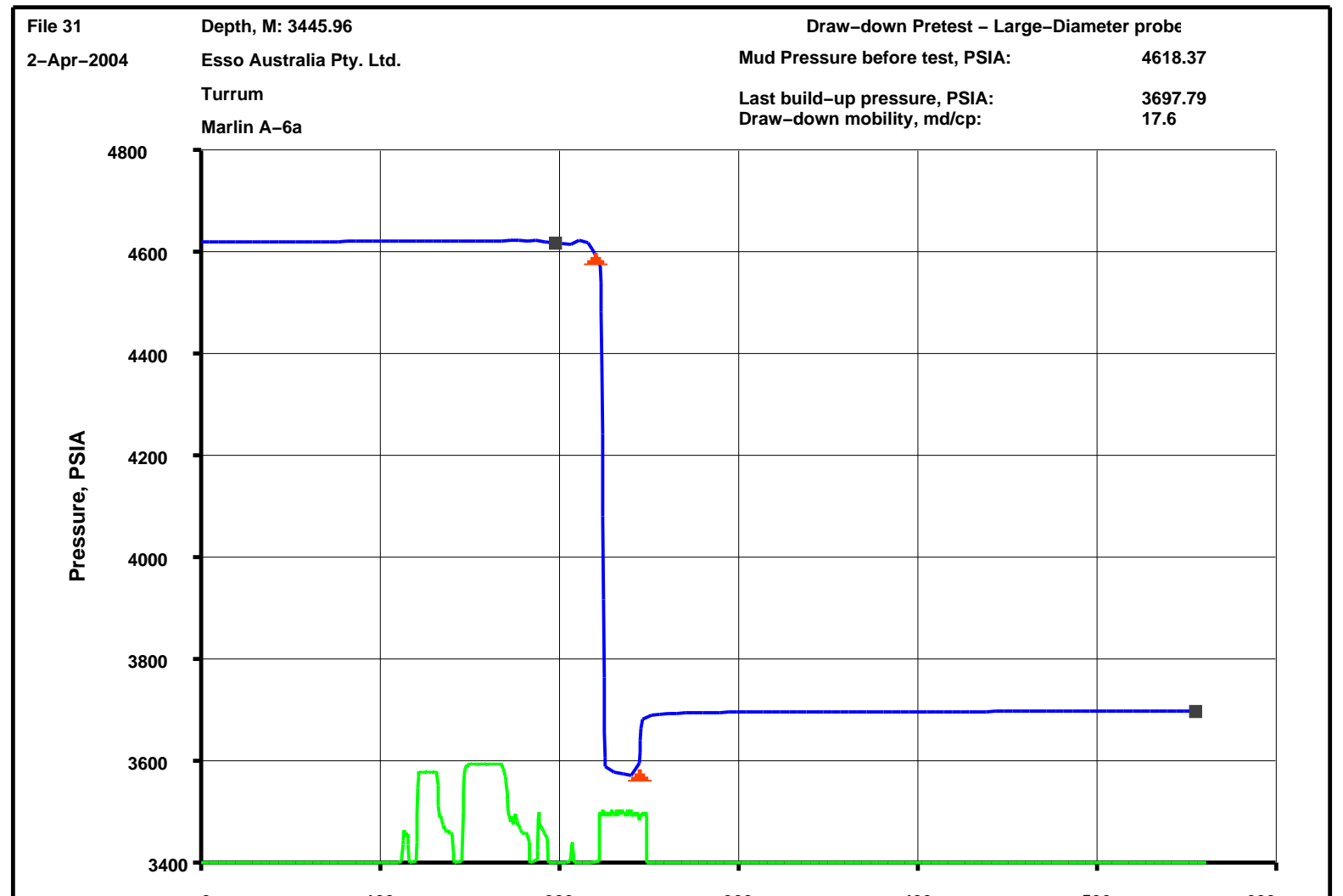
OP System Version: 12C0-301			
MCM			
MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301

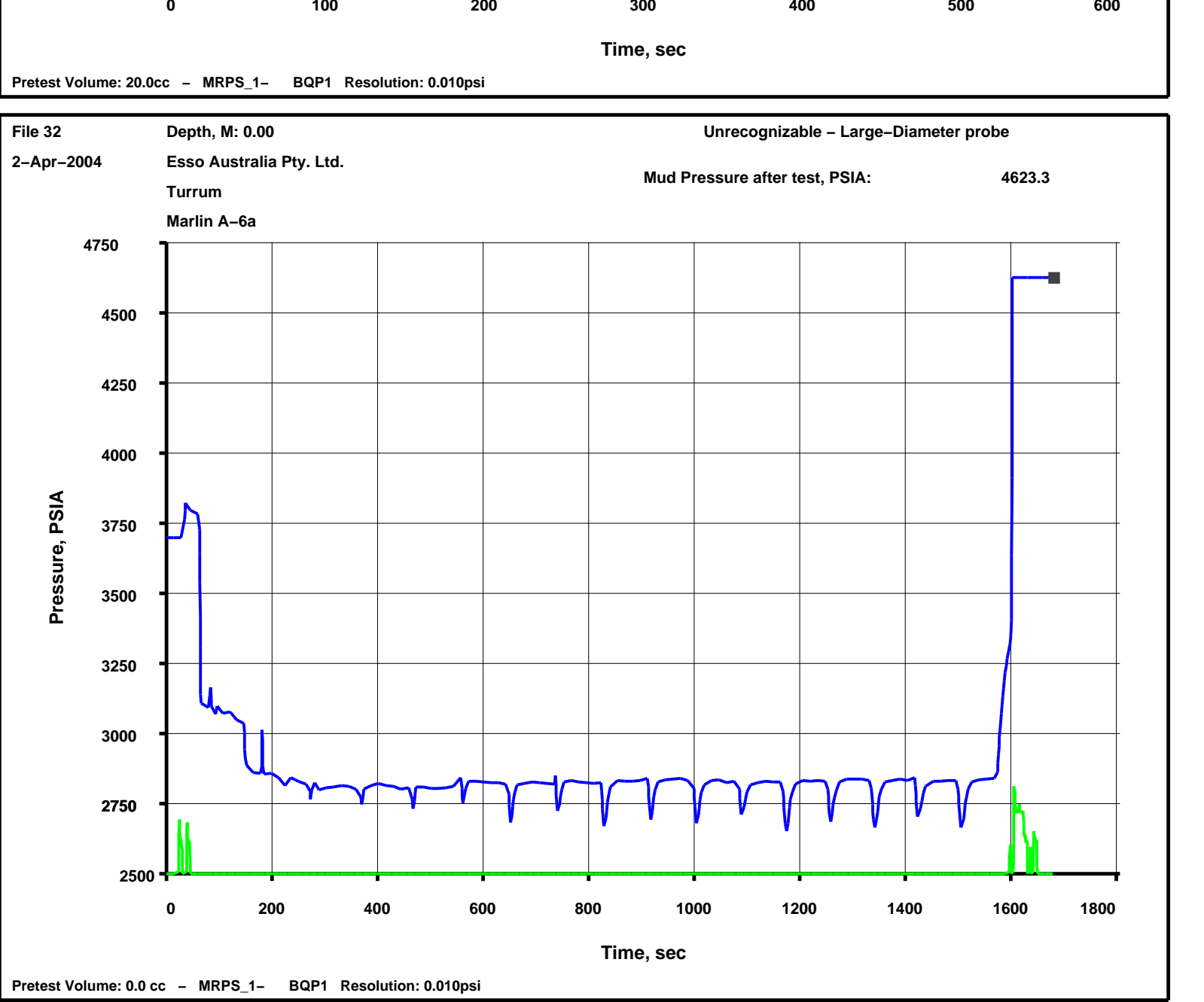
Output DLIS Files			
DEFAULT	MDT_OFA_033LTP	FN:54	PRODUCER 03-Apr-2004 00:14
BACKUP	MDT_OFA_033LTP	FN:55	PRODUCER 03-Apr-2004 00:11



Pretest and Pumping @ 3446m MD

MAXIS Field Log





Output DLIS Files						
DEFAULT	MDT_OFA_032LTP	FN:52	PRODUCER	02-Apr-2004 23:32	3446.0 M	4.3 M
BACKUP	MDT_OFA_032LTP	FN:53	PRODUCER	02-Apr-2004 23:30	3446.0 M	4.3 M

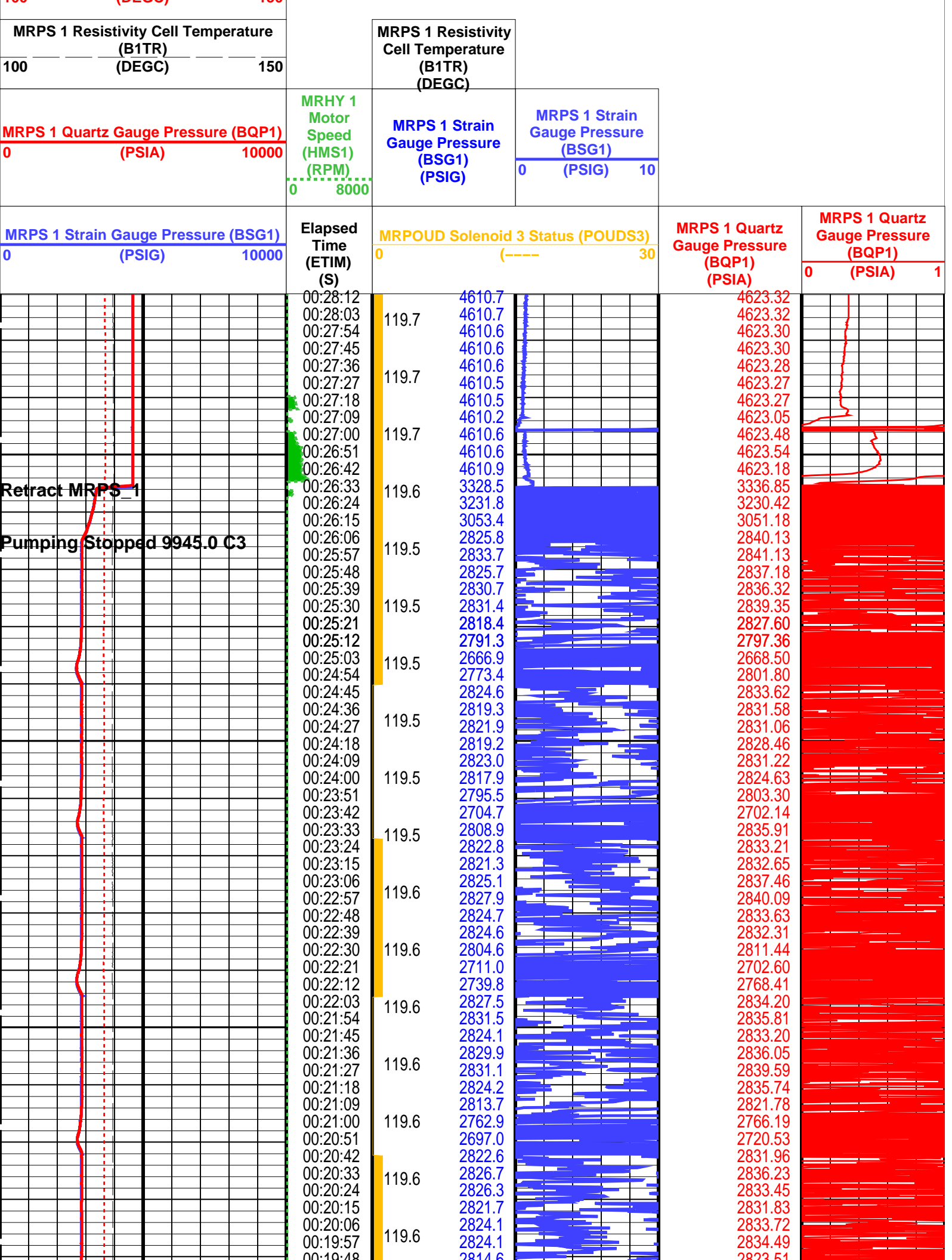
Elapsed Time (s)	Event Summary
1594.2	Retract Single Probe Module (MRPS) 1
1566.9	Pumping Stopped 9945.0 C3 Dual Up-down Pumpout Module (MRPOUD)
57.6	Pump Out Started Dual Up-down Pumpout Module (MRPOUD)

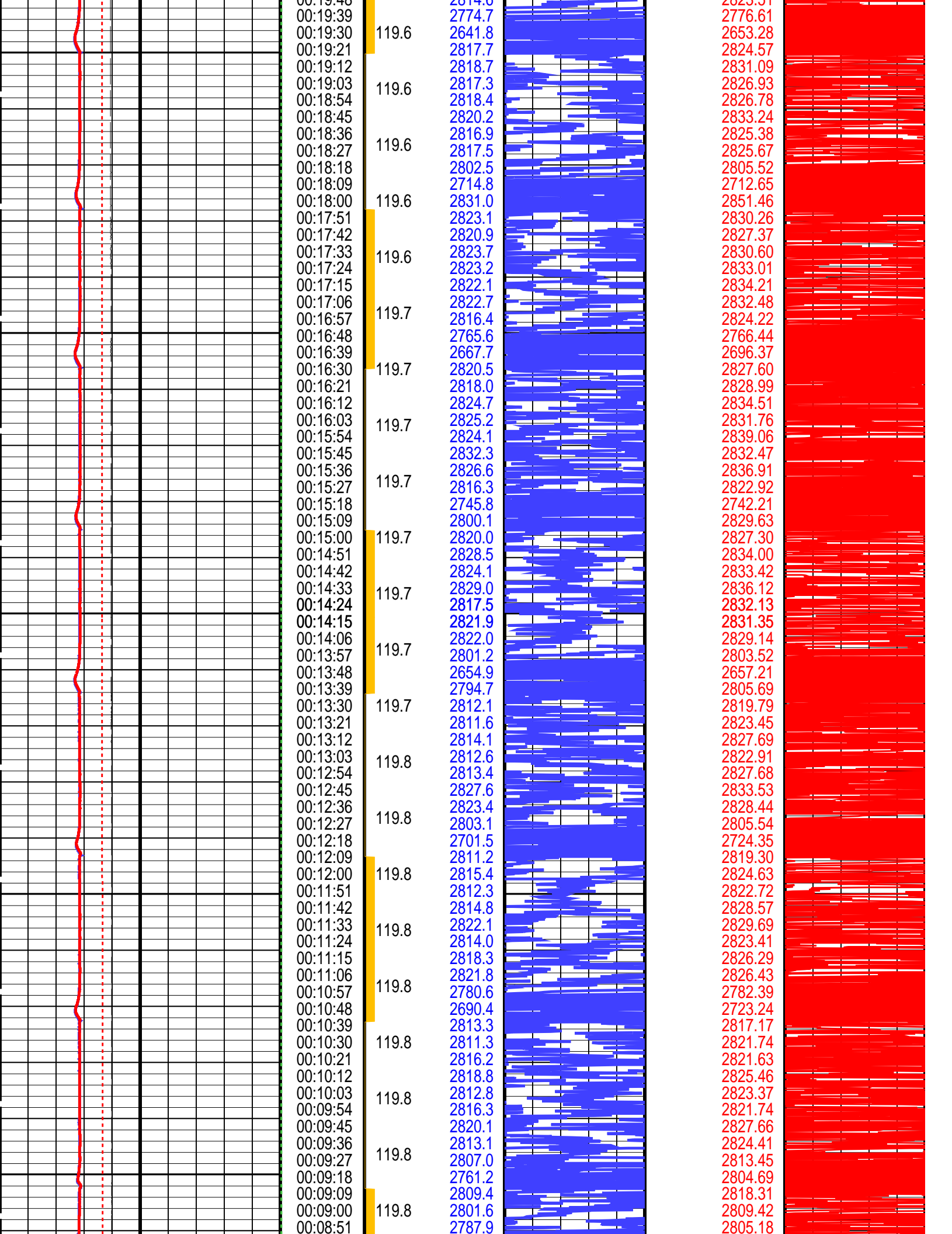
Time Mark Every 60 S

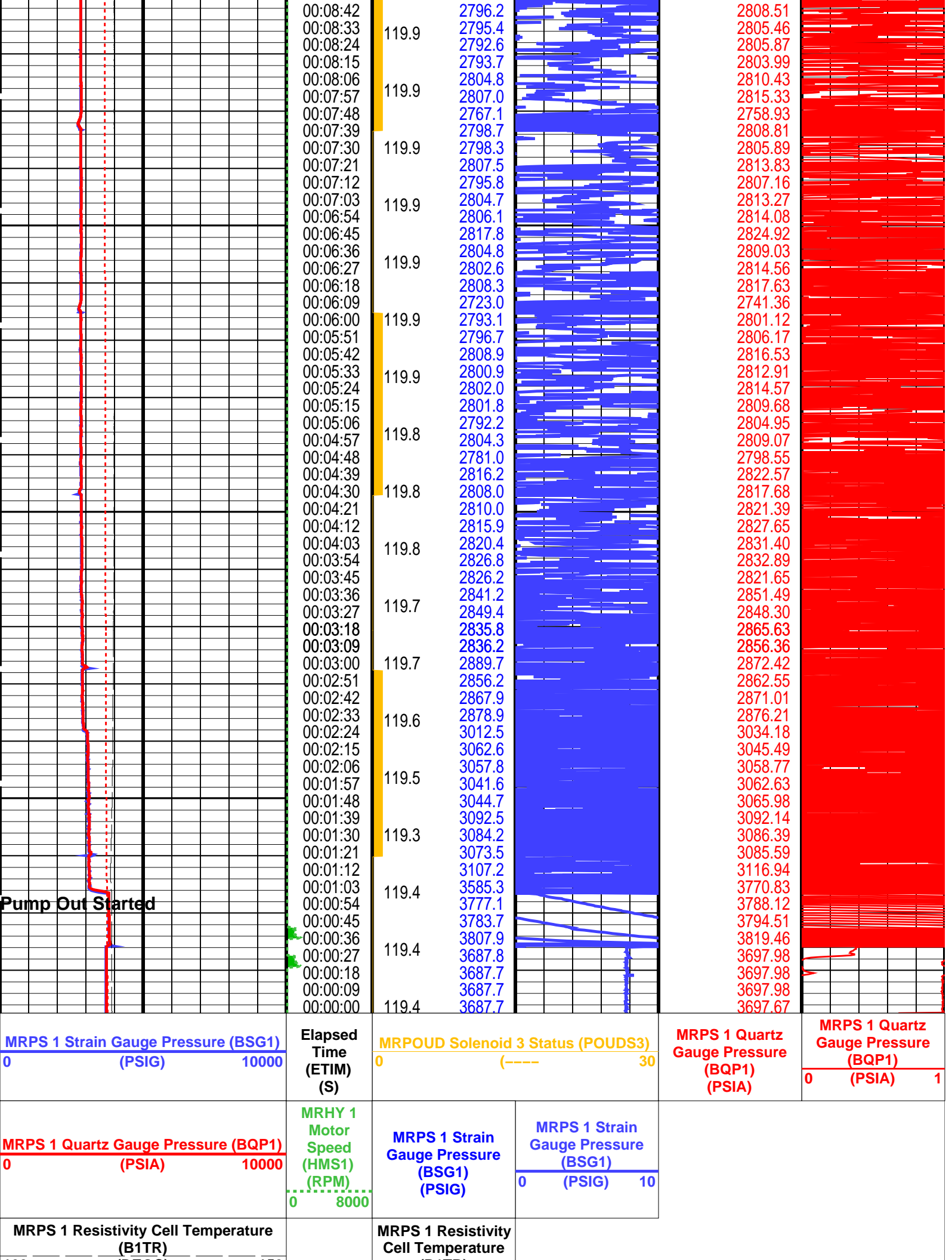
MRPS 1 Quartz Gauge Temperature (BQT1)

(DEGC)

100150







(B1TR)
(DEGC)

Time Mark Every 60 S

DLIS Name	Description	Value
-----------	-------------	-------

	MRPS_1: Single Probe Module (MRPS) 1		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO	
QGDA	Quartz Gauge Deviation Angle	0	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
	MRPS_2: Single Probe Module (MRPS) 2		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO	
QGDA	Quartz Gauge Deviation Angle	0	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
	LFA: Live Fluid Analyzer		
PDCO	Probe Depth Correction Offset	0	M
	MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0	M

Format: MRPS 1 SGQG Station Vertical Scale: 1" per 60S Graphics File Created: 02-Apr-2004 23:33

MCM

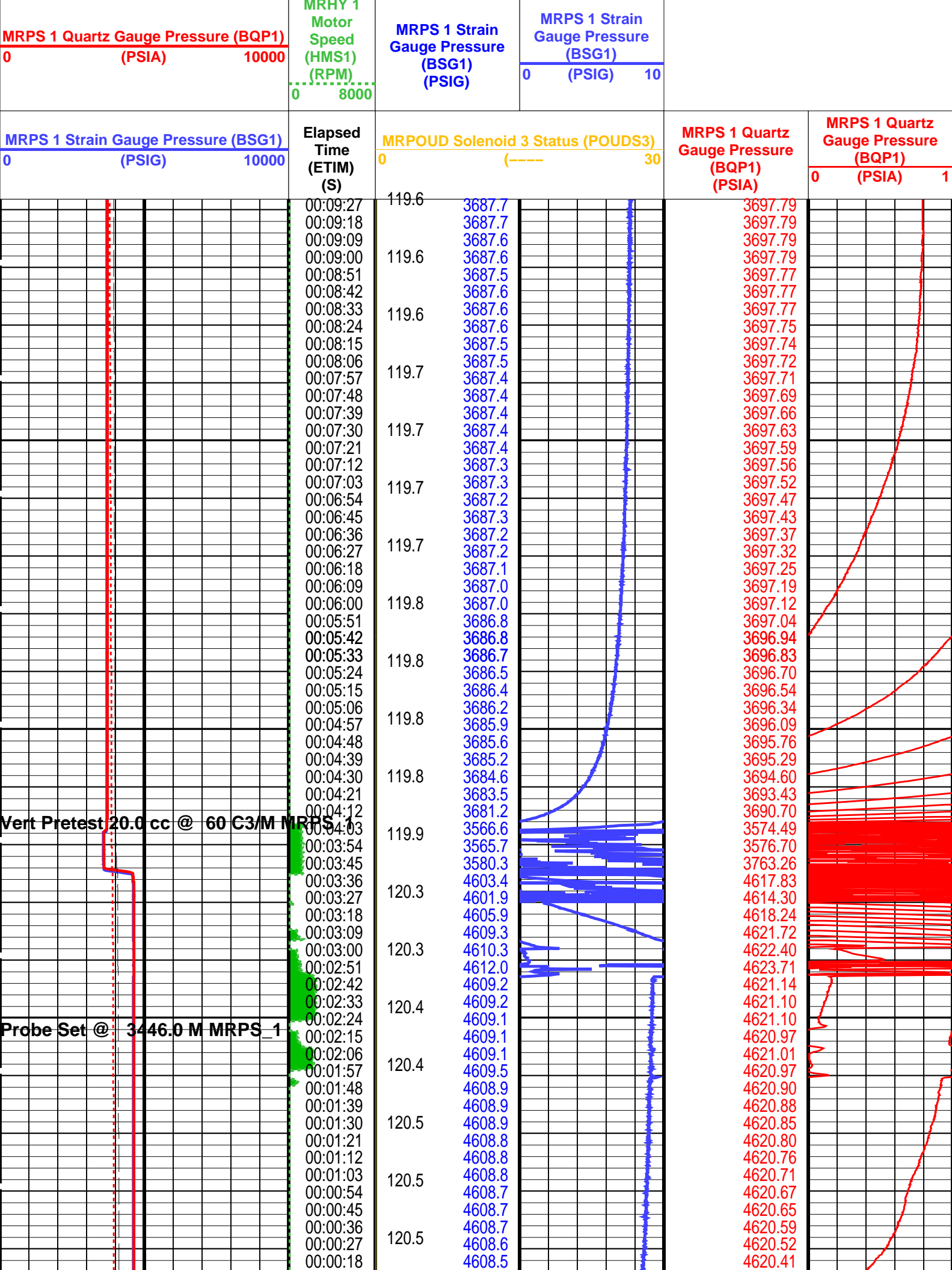
MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301

DEFAULT	MDT_OFA_032LTP	FN:52	PRODUCER	02-Apr-2004 23:32
BACKUP	MDT_OFA_032LTP	FN:53	PRODUCER	02-Apr-2004 23:30

DEFAULT	MDT_OFA_031LTP	FN:50	PRODUCER	02-Apr-2004 23:20	3446.0 M	1.5 M
BACKUP	MDT_OFA_031LTP	FN:51	PRODUCER	02-Apr-2004 23:17	3446.0 M	1.5 M

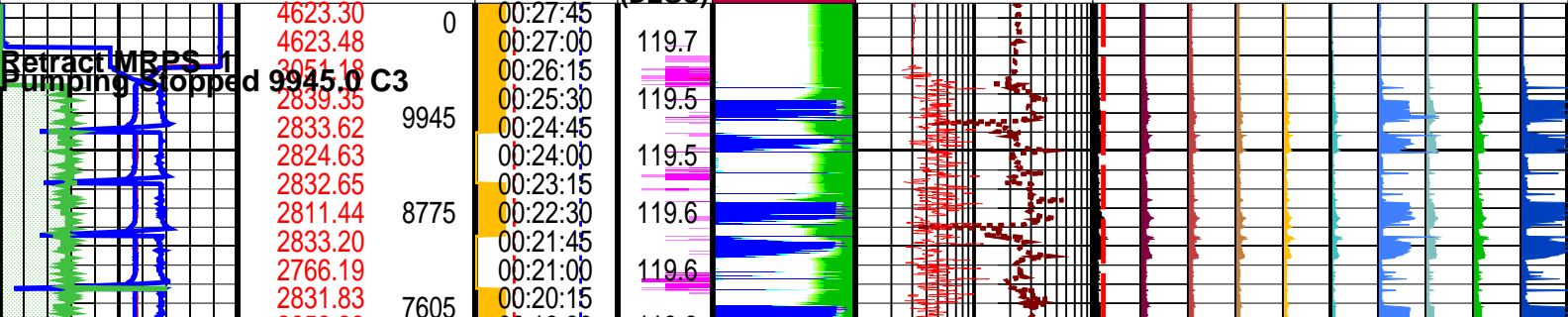
Time Mark Every 60 S

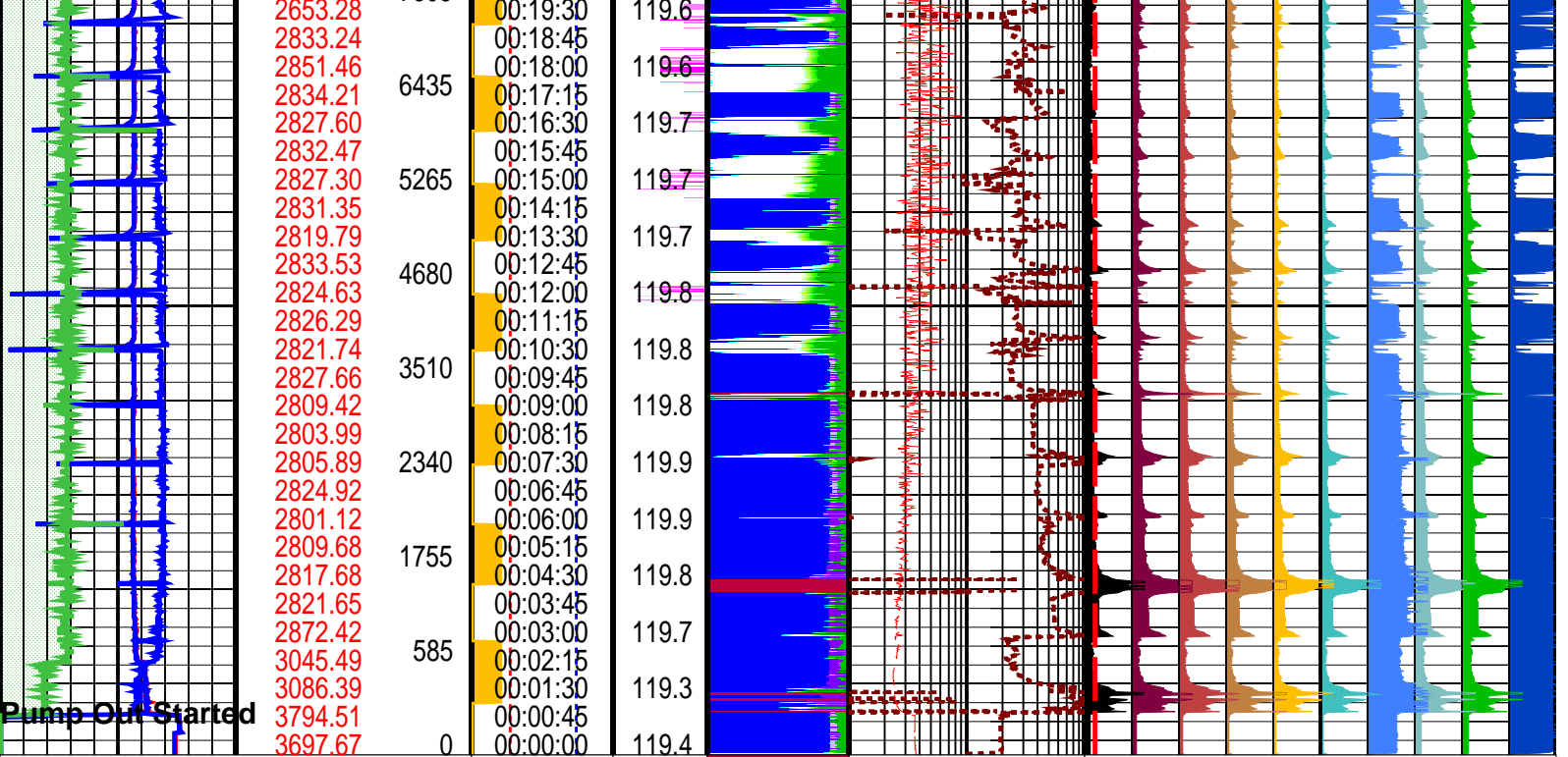
MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)
--



1566.9	Pumping Stopped 9945.0 C3 Dual Up-down Pumpout Module (MRPOUD)
57.6	Pump Out Started Dual Up-down Pumpout Module (MRPOUD)

<div>MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)</div> <div>Pumpout Volume (POUDPV) (C3)</div> <div>MRPOUD Hydraulic Pressure (POUDHP) (PSIG)</div> <div>MRPOUD Motor Speed (POUDMS) (RPM)</div> <div>MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)</div> <div>MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)</div>				LFA Optical Density Channel 9 (FAOD_LFA[9])	
				-36 (----) 4	
				LFA Optical Density Channel 8 (FAOD_LFA[8])	
				-32 (----) 8	
				LFA Optical Density Channel 7 (FAOD_LFA[7])	
				-28 (----) 12	
				LFA Optical Density Channel 6 (FAOD_LFA[6])	
				-24 (----) 16	
				LFA Optical Density Channel 5 (FAOD_LFA[5])	
				-20 (----) 20	
				LFA Optical Density Channel 4 (FAOD_LFA[4])	
				-16 (----) 24	
				MRSC 1 Valve Position (VP1)	
				-5 (----) 250	
				LFA Optical Density Channel 3 (FAOD_LFA[3])	
				-12 (----) 28	
				LFA Optical Density Channel 2 (FAOD_LFA[2])	
				-8 (----) 32	
				LFA Optical Density Channel 1 (FAOD_LFA[1])	
				-4 (----) 36	
				LFA Optical Density Channel 0 (FAOD_LFA[0])	
				0 (----) 40	





MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 10000		Elapsed Time (ETIM) (S)	Resistivity Cell Temp B1TR (B1TR) (DEGC)	Highly Absorbing Fluid	LFA Fluid Coloration (FCOL_LFA) (----) 0.000001 0.0001	LFA Optical Density Channel 0 (FAOD_LFA[0]) (----) 0 40
MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 10000		MRPOUD Solenoid 3 Status (POUDS3) 0 (----) 5	Low Gas	Water	LFA Fluid Coloration (FCOL_LFA) (----) 0.0001 0.01	LFA Optical Density Channel 1 (FAOD_LFA[1]) (----) -4 36
MRPOUD Motor Speed (POUDMS) 0 (RPM) 5000		MRMS 1 Lower Valve Position (MLP1) (----) -5 500	Medium Gas	Oil	MRPS 1 Flowline Fluid Resistivity (BFR1) (OHMM) 0.01 1	LFA Optical Density Channel 2 (FAOD_LFA[2]) (----) -8 32
MRPOUD Hydraulic Pressure (POUDHP) 0 (PSIG) 5000		MRMS 1 Upper Valve Position (MUP1) (----) 500 -5	High Gas			LFA Optical Density Channel 3 (FAOD_LFA[3]) (----) -12 28
Pumpout Volume (POUDPV) (C3)						MRSC 1 Valve Position (VP1) (----) -5 250
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)						LFA Optical Density Channel 4 (FAOD_LFA[4]) (----) -16 24
						LFA Optical Density Channel 5 (FAOD_LFA[5]) (----) -20 20
						LFA Optical Density Channel 6 (FAOD_LFA[6]) (----) -24 16
						LFA Optical Density Channel 7 (FAOD_LFA[7]) (----) -28 12

-20	(----	12
LFA Optical Density Channel 8 (FAOD_		
LFA[8])		
-32	(----	8
LFA Optical Density Channel 9 (FAOD_		
LFA[9])		
-36	(----	4

Parameters

DLIS Name	Description	Value	
MRPS_1: Single Probe Module (MRPS) 1			
QGCA	Quartz Gauge Pressure Correction Applied	DYCO	
QGDA	Quartz Gauge Deviation Angle	0	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
MRPS_2: Single Probe Module (MRPS) 2			
QGCA	Quartz Gauge Pressure Correction Applied	DYCO	
QGDA	Quartz Gauge Deviation Angle	0	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
LFA: Live Fluid Analyzer			
C1C7SIG_LFA	LFA C1/C7 Signal Values in 1g/cc	** V **	
CEXP_LFA	LFA Coloration Exponent	4.6	
FAGM_LFA	LFA GOR Allow/Disallow Mode	ALLOW	
FAJM_LFA	LFA Job Mode	LFA	
FATCM_LFA	LFA Temp. Coef. Measure Mode	** V **	
FATCS_LFA	LFA Temp. Coef. Source Mode	** V **	
GASH_LFA	LFA Gas Indicator High Level Threshold	0.4	
GASL_LFA	LFA Gas Indicator Low Level Threshold	0.05	
GASM_LFA	LFA Gas Indicator Medium Level Threshold	0.1	
GORD_LFA	LFA GOR Disqualification Level	0.1	
PDCO	Probe Depth Correction Offset	0	M
SATL_LFA	LFA Saturation Level of Optical Density Measurement	** V **	
TCPSTATUS_LFA	LFA Temperature Compensation Coefficient Status	VALID	
MRPC: Power Cartridge			
PDCO	Probe Depth Correction Offset	0	M

Format: LFA_Reduced_with_MRPS1 Vertical Scale: 1" per 300S Graphics File Created: 02-Apr-2004 23:33

OP System Version: 12C0-301

MCM

MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301

Output DLIS Files

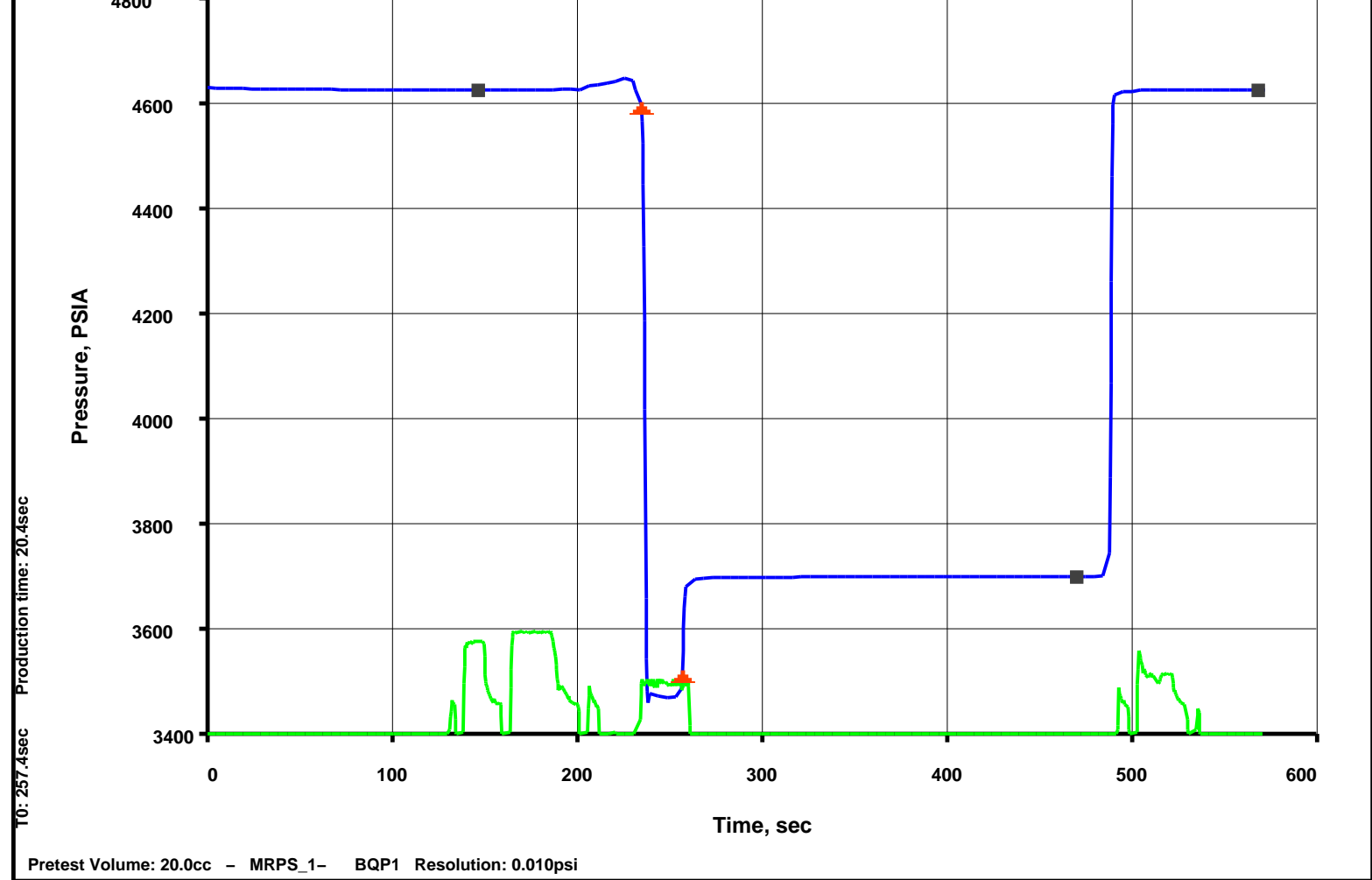
DEFAULT	MDT_OFA_032LTP	FN:52	PRODUCER	02-Apr-2004 23:32
BACKUP	MDT_OFA_032LTP	FN:53	PRODUCER	02-Apr-2004 23:30

Schlumberger

Pretest @ 3450m MD

MAXIS Field Log

File 30	Depth, M: 3450.07	Draw-down Pretest - Large-Diameter probe	
2-Apr-2004	Esso Australia Pty. Ltd.	Mud Pressure before test, PSIA:	4626.6
	Turrum	Mud Pressure after test, PSIA:	4626.31
	Marlin A-6a	Last build-up pressure, PSIA:	3699.65
		Draw-down mobility, md/cp:	10.1



Output DLIS Files

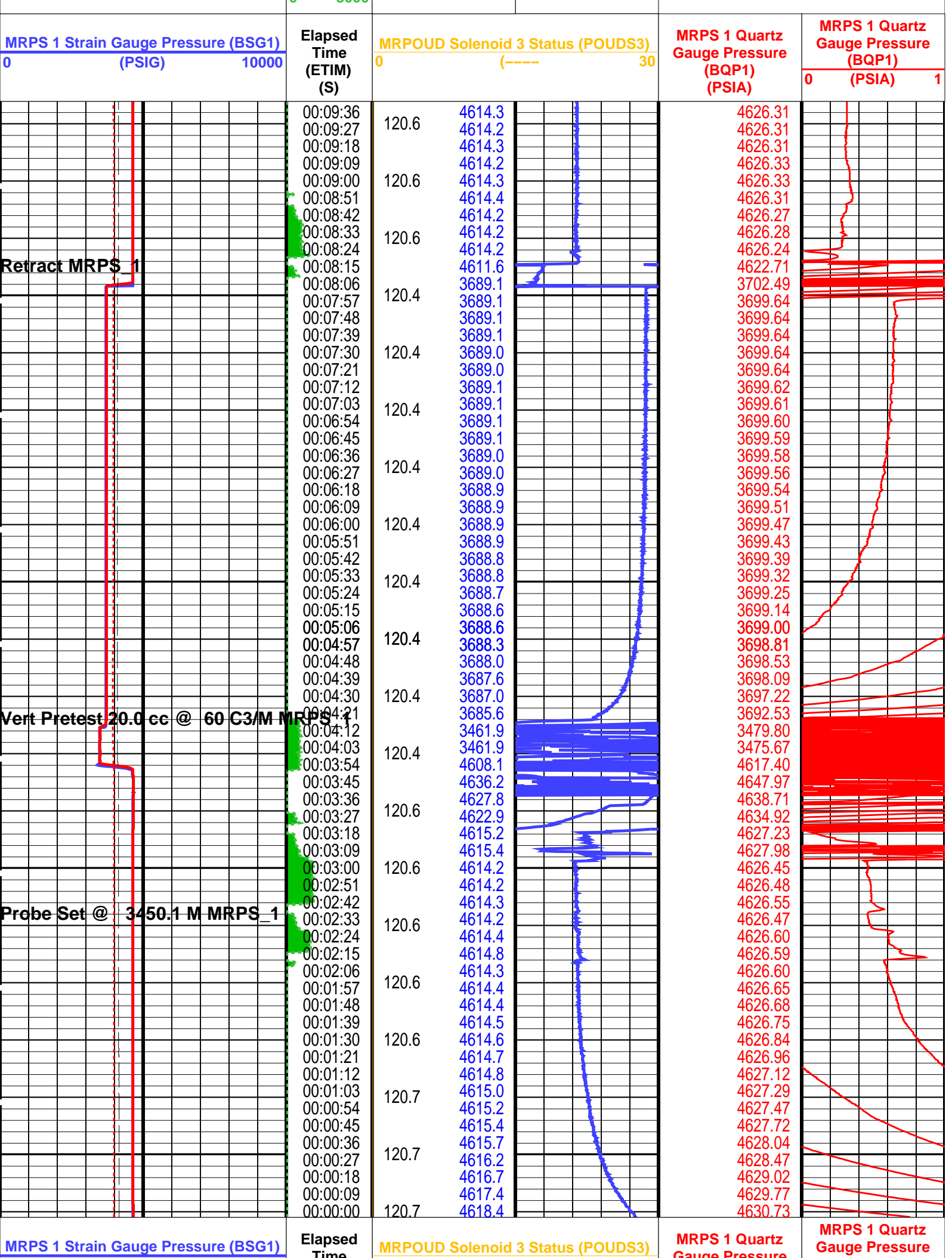
DEFAULT	MDT_OFA_030LTP	FN:48	PRODUCER	02-Apr-2004 23:06	3450.1 M	1.5 M
BACKUP	MDT_OFA_030LTP	FN:49	PRODUCER	02-Apr-2004 23:03	3450.1 M	1.5 M

Elapsed Time (s)	Event Summary
498.9	Retract Single Probe Module (MRPS) 1
230.1	Vert Pretest 20.0 cc @ 60 C3/M Single Probe Module (MRPS) 1
159.6	Probe Set @ 3450.1 M Single Probe Module (MRPS) 1

PIP SUMMARY

Time Mark Every 60 S

MRPS 1 Quartz Gauge Temperature (BQT1) (DEGC)			
100	150		
MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)			
100	150		
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	MRHY 1 Motor Speed (HMS1) (RPM)	MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)
0	0		0
10000	8000		10



0	(PSIG)	10000	(ETIM) (S)	0	(PSIA)	30	Gauge Pressure (BQP1) (PSIA)	0	(BQP1) (PSIA)	1		
MRPS 1 Quartz Gauge Pressure (BQP1)			MRHY 1 Motor Speed (HMS1) (RPM)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	MRPS 1 Strain Gauge Pressure (BSG1)							
0	(PSIA)	10000			0	(PSIG)	10					
MRPS 1 Resistivity Cell Temperature (B1TR)			MRPS 1 Resistivity Cell Temperature (B1TR)									
100	(DEGC)	150										
MRPS 1 Quartz Gauge Temperature (BQT1)												
100	(DEGC)	150										

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MRPS_1: Single Probe Module (MRPS) 1		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
MRPS_2: Single Probe Module (MRPS) 2		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
LFA: Live Fluid Analyzer		
PDCO	Probe Depth Correction Offset	0 M
MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0 M

Format: MRPS_1_SGQG_Station Vertical Scale: 1" per 60S Graphics File Created: 02-Apr-2004 23:06

OP System Version: 12C0-301 MCM

MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301

Output DLIS Files

DEFAULT	MDT_OFA_030LTP	FN:48	PRODUCER	02-Apr-2004 23:06
BACKUP	MDT_OFA_030LTP	FN:49	PRODUCER	02-Apr-2004 23:03

Schlumberger

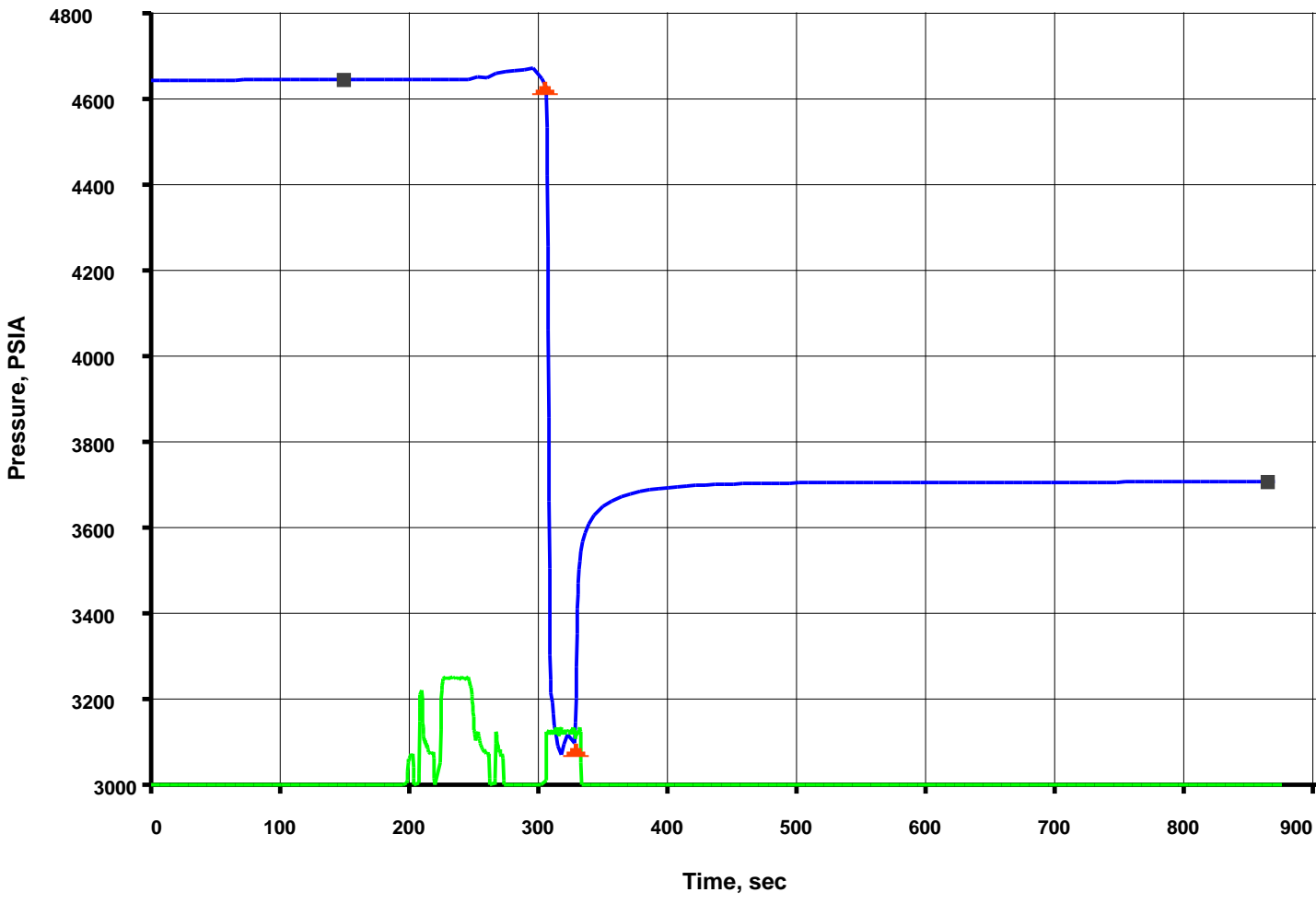
Pretest and Pumping @ 3457.5m MD

MAXIS Field Log

File 28
2-Apr-2004
Depth, M: 3457.51
Esso Australia Pty. Ltd.
Turrum
Marlin A-6a

Draw-down Pretest - Large-Diameter probe
Mud Pressure before test, PSIA: 4642.45
Last build-up pressure, PSIA: 3705.71
Draw-down mobility, md/cp: 2.9

10: 327.6sec Production time: 20.7sec



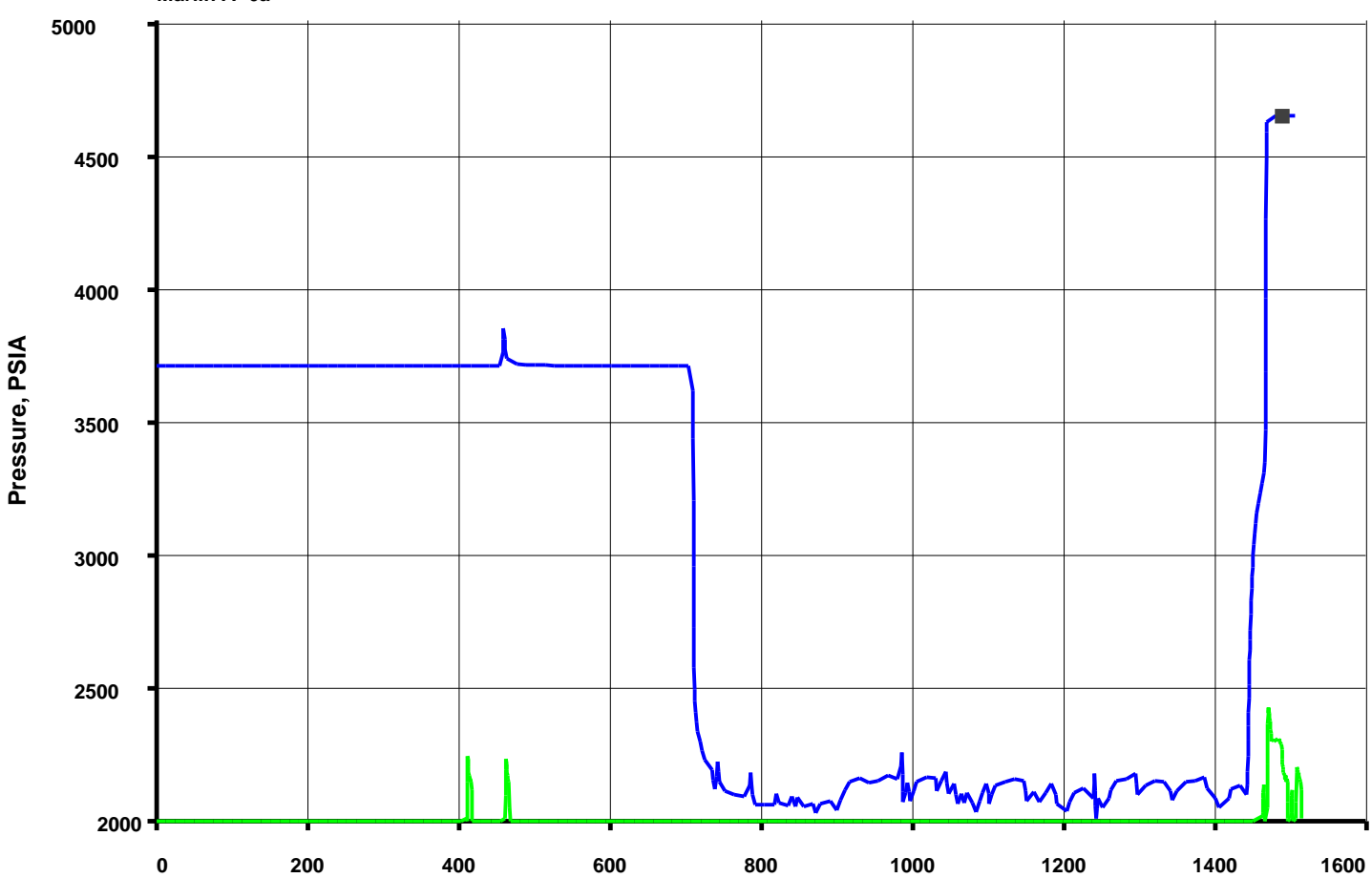
Pretest Volume: 20.0cc - MRPS_1- BQP1 Resolution: 0.010psi

File 29
2-Apr-2004

Depth, M: 0.00
Esso Australia Pty. Ltd.
Turrum
Marlin A-6a

Unrecognizable - Large-Diameter probe

Mud Pressure after test, PSIA: 4642.94



Time, sec

Pretest Volume: 0.0 cc - MRPS_1- BQP1 Resolution: 0.010psi

Output DLIS Files

DEFAULT	MDT_OFA_029LTP	FN:46	PRODUCER	02-Apr-2004 22:29	3457.5 M	3.9 M
BACKUP	MDT_OFA_029LTP	FN:47	PRODUCER	02-Apr-2004 22:26	3457.5 M	3.9 M

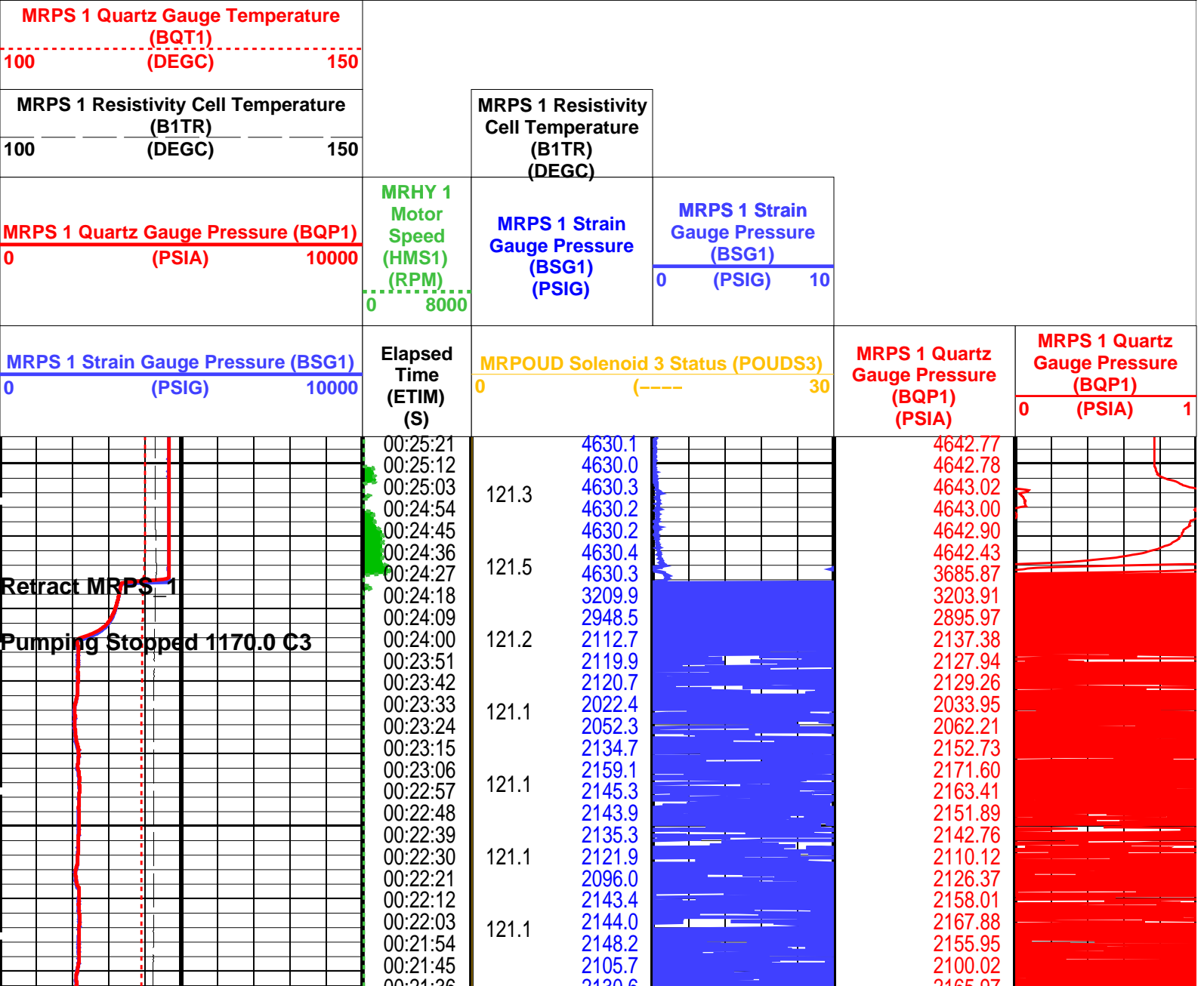
Elapsed
Time (s)

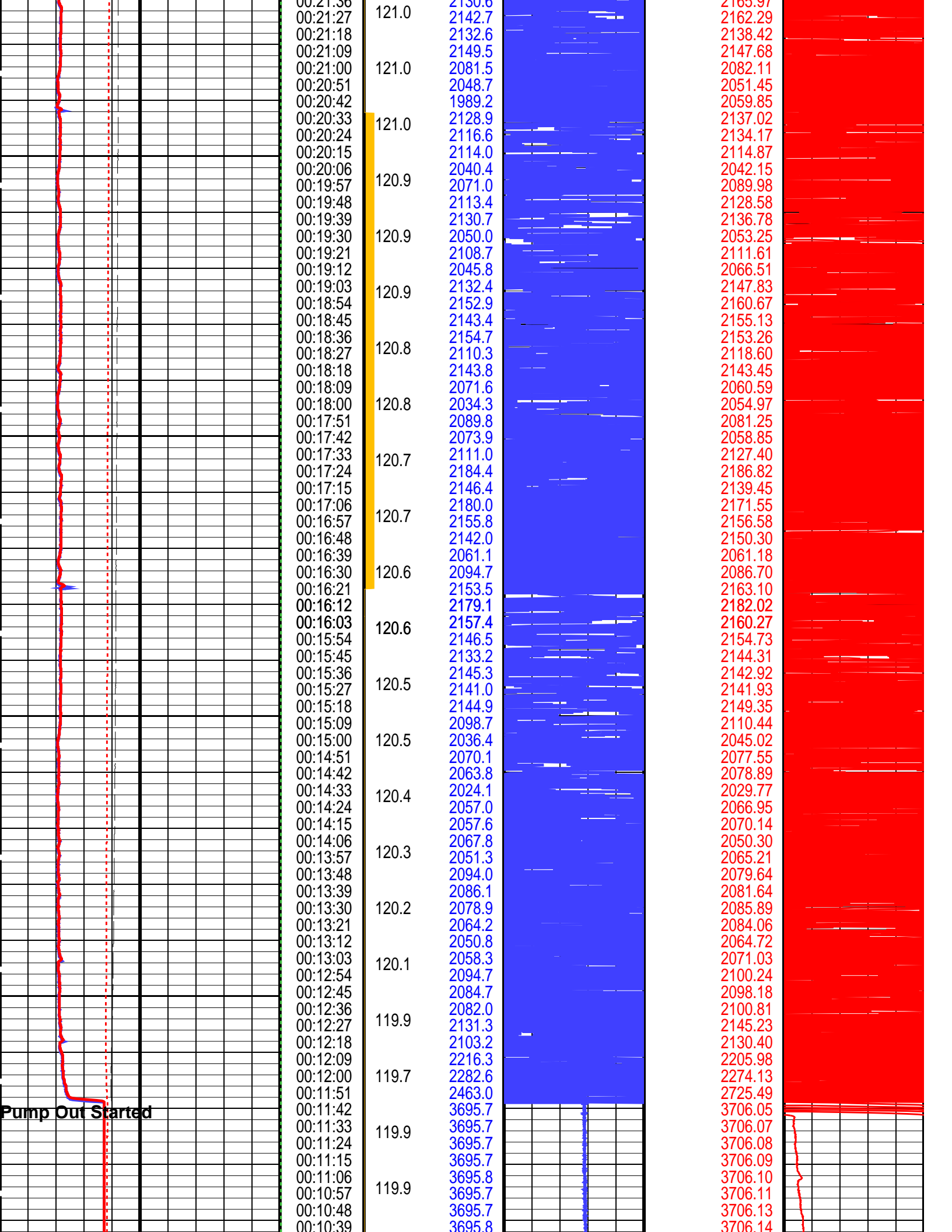
Event Summary

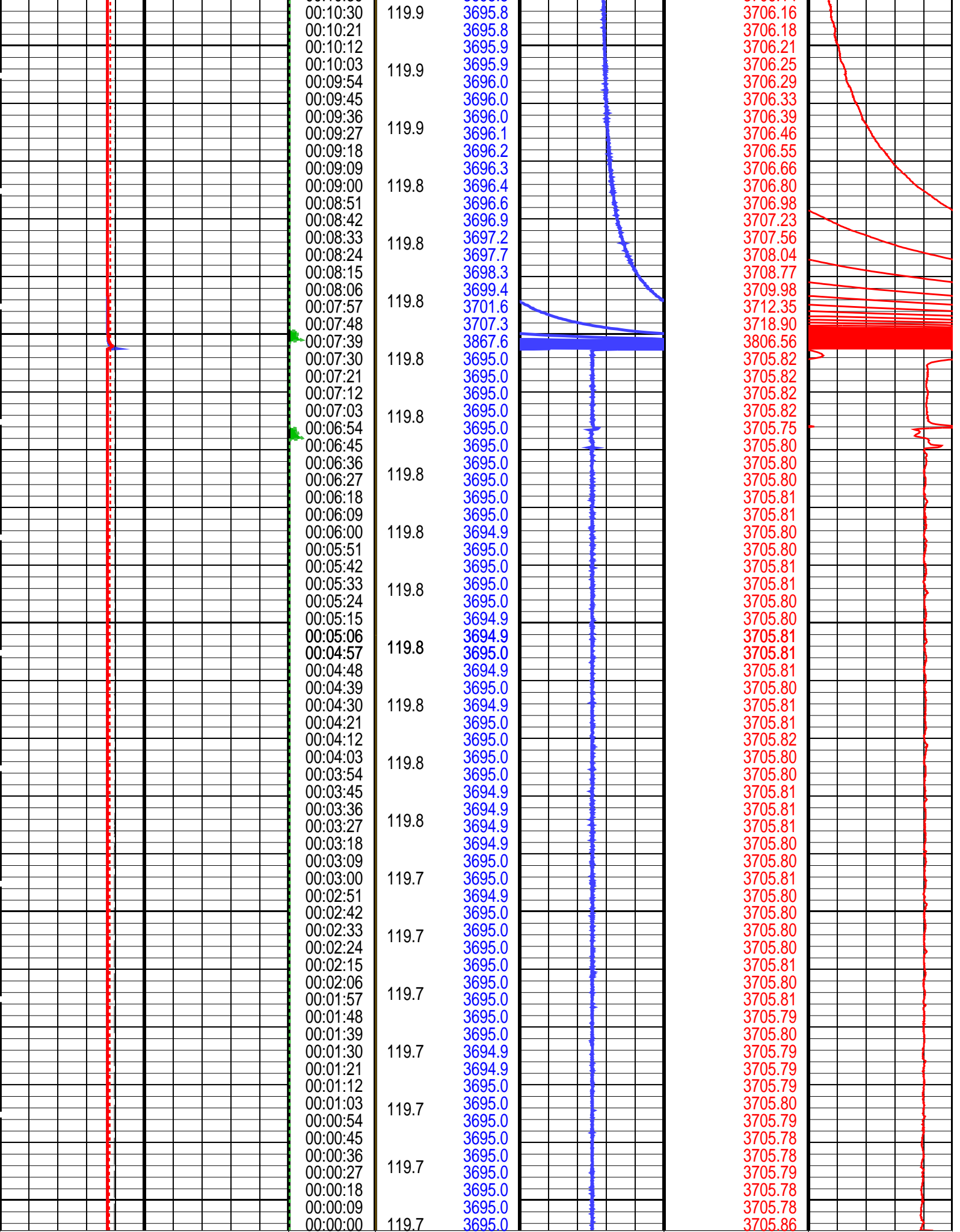
1465.5	Retract Single Probe Module (MRPS) 1
1442.4	Pumping Stopped 1170.0 C3 Dual Up-down Pumpout Module (MRPOUD)
704.1	Pump Out Started Dual Up-down Pumpout Module (MRPOUD)

PIP SUMMARY

Time Mark Every 60 S







MRPS 1 Strain Gauge Pressure (BSG1)	Elapsed Time	MRPOUD Solenoid 3 Status (POUDS3)	MRPS 1 Quartz Gauge Pressure	MRPS 1 Quartz Gauge Pressure
-------------------------------------	--------------	-----------------------------------	------------------------------	------------------------------

<div>0 (PSIG) 10000</div>			<div>Time (ETIM) (S)</div>	<div>0 (----) 30</div>		<div>Gauge Pressure (BQP1) (PSIA)</div>	<div>(BQP1) 0 (PSIA) 1</div>	
<div>MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 10000</div>			<div>MRHY 1 Motor Speed (HMS1) (RPM) 0 8000</div>	<div>MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)</div>	<div>MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 10</div>			
<div>MRPS 1 Resistivity Cell Temperature (B1TR) 100 (DEGC) 150</div>			<div>MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)</div>					
<div>MRPS 1 Quartz Gauge Temperature (BQT1) 100 (DEGC) 150</div>								

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
MRPS_1: Single Probe Module (MRPS) 1			
QGCA	Quartz Gauge Pressure Correction Applied	DYCO	
QGDA	Quartz Gauge Deviation Angle	0	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
MRPS_2: Single Probe Module (MRPS) 2			
QGCA	Quartz Gauge Pressure Correction Applied	DYCO	
QGDA	Quartz Gauge Deviation Angle	0	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
LFA: Live Fluid Analyzer			
PDCO	Probe Depth Correction Offset	0	M
MRPC: Power Cartridge			
PDCO	Probe Depth Correction Offset	0	M

Format: MRPS_1_SGQG_Station Vertical Scale: 1" per 60S Graphics File Created: 02-Apr-2004 22:29

OP System Version: 12C0-301
MCM

MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301

Output DLIS Files

DEFAULT	MDT_OFA_029LTP	FN:46	PRODUCER	02-Apr-2004 22:29
BACKUP	MDT_OFA_029LTP	FN:47	PRODUCER	02-Apr-2004 22:26

Output DLIS Files

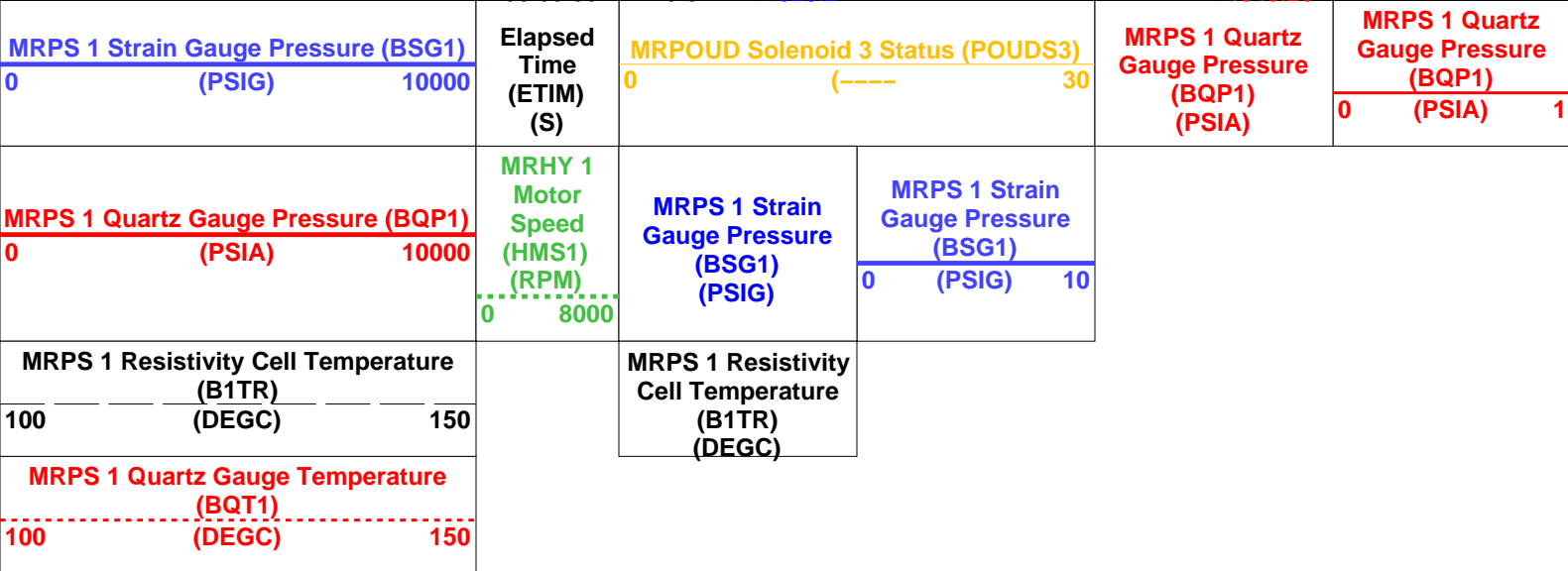
DEFAULT	MDT_OFA_028LTP	FN:44	PRODUCER	02-Apr-2004 22:13	3457.5 M	2.3 M
BACKUP	MDT_OFA_028LTP	FN:45	PRODUCER	02-Apr-2004 22:10	3457.5 M	2.3 M

Elapsed Time (s)	Event Summary
300.3	Vert Pretest 20.0 cc @ 60 C3/M Single Probe Module (MRPS) 1
219.3	Probe Set @ 3457.5 M Single Probe Module (MRPS) 1

PIP SUMMARY

Time Mark Every 60 S

MRPS 1 Quartz Gauge Temperature (BQT1) (DEGC)		MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)		MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	
100	150	100	150	0	10
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)		MRHY 1 Motor Speed (HMS1) (RPM)		MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	
0	10000	0	8000	0	10
MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	Elapsed Time (ETIM) (S)	MRPOUD Solenoid 3 Status (POUDS3) (----)		MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)
0		0	30		0
	00:14:42		3694.9		3705.72
	00:14:33	119.6	3694.9		3705.72
	00:14:24		3694.9		3705.71
	00:14:15		3694.9		3705.71
	00:14:06		3694.9		3705.69
	00:13:57	119.6	3694.9		3705.69
	00:13:48		3694.9		3705.69
	00:13:39		3694.9		3705.68
	00:13:30	119.6	3694.9		3705.66
	00:13:21		3694.8		3705.65
	00:13:12		3694.9		3705.64
	00:13:03	119.6	3694.9		3705.64
	00:12:54		3694.9		3705.64
	00:12:45		3694.8		3705.61
	00:12:36		3694.8		3705.61
	00:12:27	119.5	3694.8		3705.60
	00:12:18		3694.8		3705.59
	00:12:09		3694.8		3705.57
	00:12:00	119.5	3694.7		3705.55
	00:11:51		3694.7		3705.55
	00:11:42		3694.7		3705.53
	00:11:33	119.5	3694.7		3705.51
	00:11:24		3694.7		3705.48
	00:11:15		3694.7		3705.46
	00:11:06		3694.7		3705.44
	00:10:57	119.5	3694.6		3705.42
	00:10:48		3694.5		3705.39
	00:10:39		3694.6		3705.34
	00:10:30	119.5	3694.5		3705.30
	00:10:21		3694.5		3705.27
	00:10:12		3694.4		3705.22
	00:10:03	119.5	3694.4		3705.16
	00:09:54		3694.3		3705.11
	00:09:45		3694.3		3705.03
	00:09:36		3694.1		3704.96
	00:09:27	119.5	3694.1		3704.87
	00:09:18		3694.0		3704.77
	00:09:09		3693.9		3704.66
	00:09:00	119.4	3693.7		3704.54
	00:08:51		3693.6		3704.39
	00:08:42		3693.5		3704.22
	00:08:33	119.4	3693.2		3704.02
	00:08:24		3693.0		3703.80
	00:08:15		3692.8		3703.55
	00:08:06		3692.5		3703.20
	00:07:57	119.4	3692.1		3702.81
	00:07:48		3691.6		3702.35
	00:07:39		3691.1		3701.79
	00:07:30	119.4	3690.4		3701.14
	00:07:21		3689.6		3700.32



Time Mark Every 60 S

Parameters

Parameters					
DLIS Name		Description		Value	
MRPS_1: Single Probe Module (MRPS) 1					
QGCA		Quartz Gauge Pressure Correction Applied		DYCO	
QGDA		Quartz Gauge Deviation Angle		0	DEG
QGFD		Quartz Gauge Flow Line Density		1	G/C3
MRPS_2: Single Probe Module (MRPS) 2					
QGCA		Quartz Gauge Pressure Correction Applied		DYCO	
QGDA		Quartz Gauge Deviation Angle		0	DEG
QGFD		Quartz Gauge Flow Line Density		1	G/C3
LFA: Live Fluid Analyzer					
PDCO		Probe Depth Correction Offset		0	M
MRPC: Power Cartridge					
PDCO		Probe Depth Correction Offset		0	M

Format: MRPS_1_SGQG_Station
Vertical Scale: 1" per 60S
Graphics File Created: 02-Apr-2004 22:13

OP System Version: 12C0-301			
MCM			
MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301

Output DLIS Files					
DEFAULT	MDT_OFA_028LTP	FN:44	PRODUCER	02-Apr-2004 22:13	
BACKUP	MDT_OFA_028LTP	FN:45	PRODUCER	02-Apr-2004 22:10	

Output DLIS Files						
DEFAULT	MDT_OFA_029LTP	FN:46	PRODUCER	02-Apr-2004 22:29	3457.5 M	3.9 M
BACKUP	MDT_OFA_029LTP	FN:47	PRODUCER	02-Apr-2004 22:26	3457.5 M	3.9 M

Elapsed Time (s)		Event Summary	
1465.5		Retract Single Probe Module (MRPS) 1	
1442.4		Pumping Stopped 1170.0 C3 Dual Up-down Pumpout Module (MRPOUD)	
704.1		Pump Out Started Dual Up-down Pumpout Module (MRPOUD)	

LFA Optical Density Channel 9 (FAOD_		LFA[9])	
-36	(----		4
LFA Optical Density Channel 8 (FAOD_		LFA[8])	
-32	(----		8
LFA Optical Density Channel 7 (FAOD_		LFA[7])	
-28	(----		12
LFA Optical Density Channel 6 (FAOD_		LFA[6])	
-24	(----		16
LFA Optical Density Channel 5 (FAOD_		LFA[5])	
-20	(----		20

[illegible]

(PSIA) 10000		(ETIM) (S)	Temp B1TR (B1TR) (DEGC)	Absorbing Fluid	2.77 (----) 0.000001 0.0001	0 (----) 40
MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0 10000		MRPOUD Solenoid 3 Status (POUDS3) 0 (----) 5	Low Gas	Water	LFA Fluid Coloration (FCOL_LFA) 0.0001 (----) 0.01	LFA Optical Density Channel 1 (FAOD_LFA[1]) -4 (----) 36
MRPOUD Motor Speed (POUDMS) (RPM) 0 5000		MRMS 1 Lower Valve Position (MLP1) (-5) 500	Medium Gas	Oil	MRPS 1 Flowline Fluid Resistivity (BFR1) (OHMM) 0.01 1	LFA Optical Density Channel 2 (FAOD_LFA[2]) -8 (----) 32
MRPOUD Hydraulic Pressure (POUDHP) (PSIG) 0 5000		MRMS 1 Upper Valve Position (MUP1) (----) 500 -5	High Gas			LFA Optical Density Channel 3 (FAOD_LFA[3]) -12 (----) 28
	<div>Pumpout Volume (POUDPV) (C3)</div> <div>MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)</div>					MRSC 1 Valve Position (VP1) -5 (----) 250
						LFA Optical Density Channel 4 (FAOD_LFA[4]) -16 (----) 24
						LFA Optical Density Channel 5 (FAOD_LFA[5]) -20 (----) 20
						LFA Optical Density Channel 6 (FAOD_LFA[6]) -24 (----) 16
						LFA Optical Density Channel 7 (FAOD_LFA[7]) -28 (----) 12
						LFA Optical Density Channel 8 (FAOD_LFA[8]) -32 (----) 8
						LFA Optical Density Channel 9 (FAOD_LFA[9]) -36 (----) 4

Parameters		
DLIS Name	Description	Value
MRPS_1: Single Probe Module (MRPS) 1		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
MRPS_2: Single Probe Module (MRPS) 2		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
LFA: Live Fluid Analyzer		
C1C7SIG_LFA	LFA C1/C7 Signal Values in 1g/cc	** V **
CEXP_LFA	LFA Coloration Exponent	4.6
FAGM_LFA	LFA GOR Allow/Disallow Mode	ALLOW
FAJM_LFA	LFA Job Mode	LFA
FATCM_LFA	LFA Temp. Coef. Measure Mode	** V **
FATCS_LFA	LFA Temp. Coef. Source Mode	** V **
GASH_LFA	LFA Gas Indicator High Level Threshold	0.4
GASL_LFA	LFA Gas Indicator Low Level Threshold	0.05
GASM_LFA	LFA Gas Indicator Medium Level Threshold	0.1
GOSD_LFA	LFA GOR Disqualification Level	0.1

GORD_LFA	LFA GOR Disqualification Level	0.1	
PDCO	Probe Depth Correction Offset	0	M
SATL_LFA	LFA Saturation Level of Optical Density Measurement	** V **	
TCPS_STATUS_LFA	LFA Temperature Compensation Coefficient Status	VALID	
MRPC: Power Cartridge			
PDCO	Probe Depth Correction Offset	0	M

Format: LFA_Reduced_with_MRPS1
Vertical Scale: 1" per 300S
Graphics File Created: 02-Apr-2004 22:29

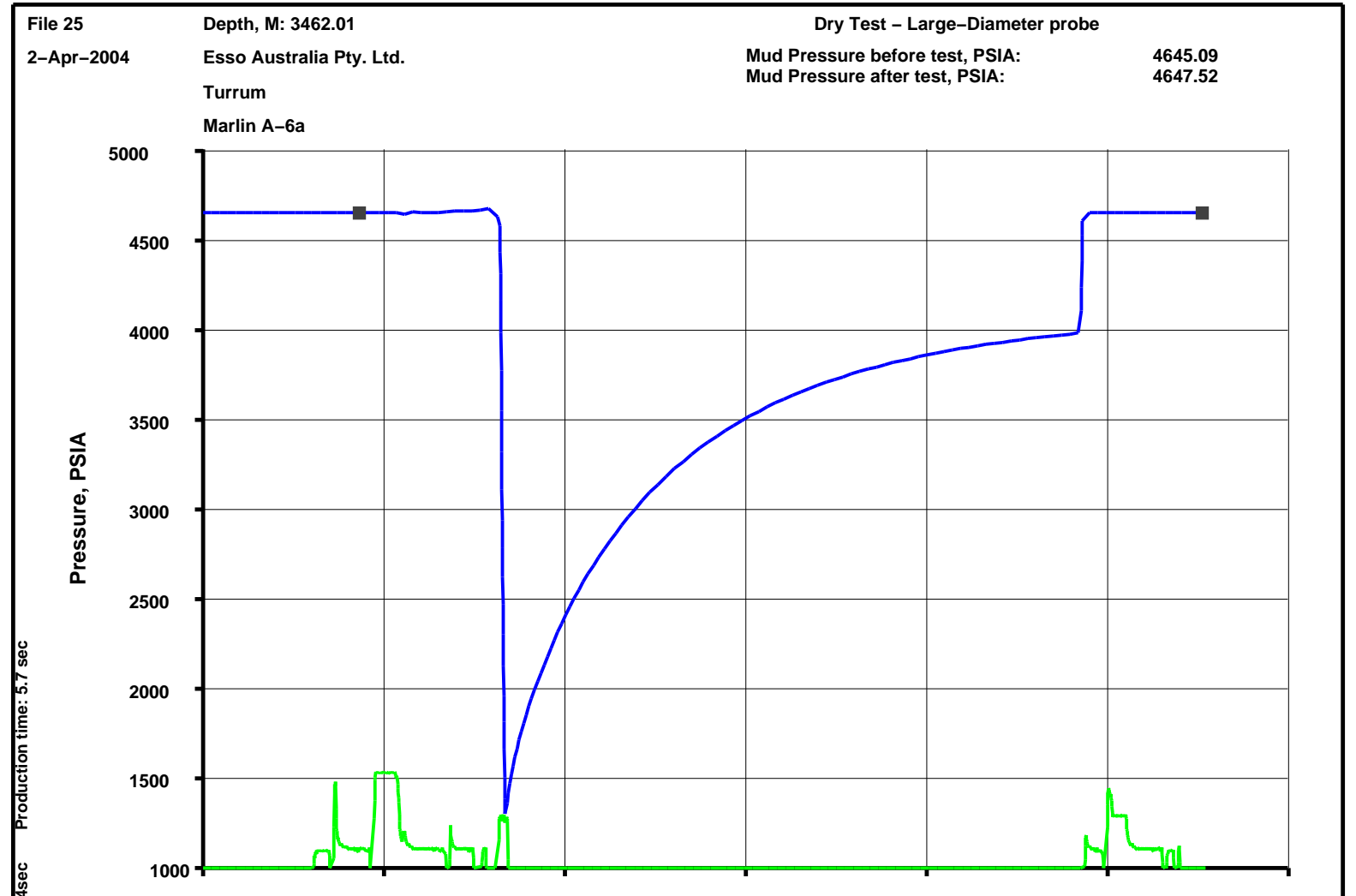
OP System Version: 12C0-301			
MCM			
MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301

Output DLIS Files			
DEFAULT	MDT_OFA_029LTP	FN:46	PRODUCER 02-Apr-2004 22:29
BACKUP	MDT_OFA_029LTP	FN:47	PRODUCER 02-Apr-2004 22:26



Pretest @ 3461.3m MD

MAXIS Field Log

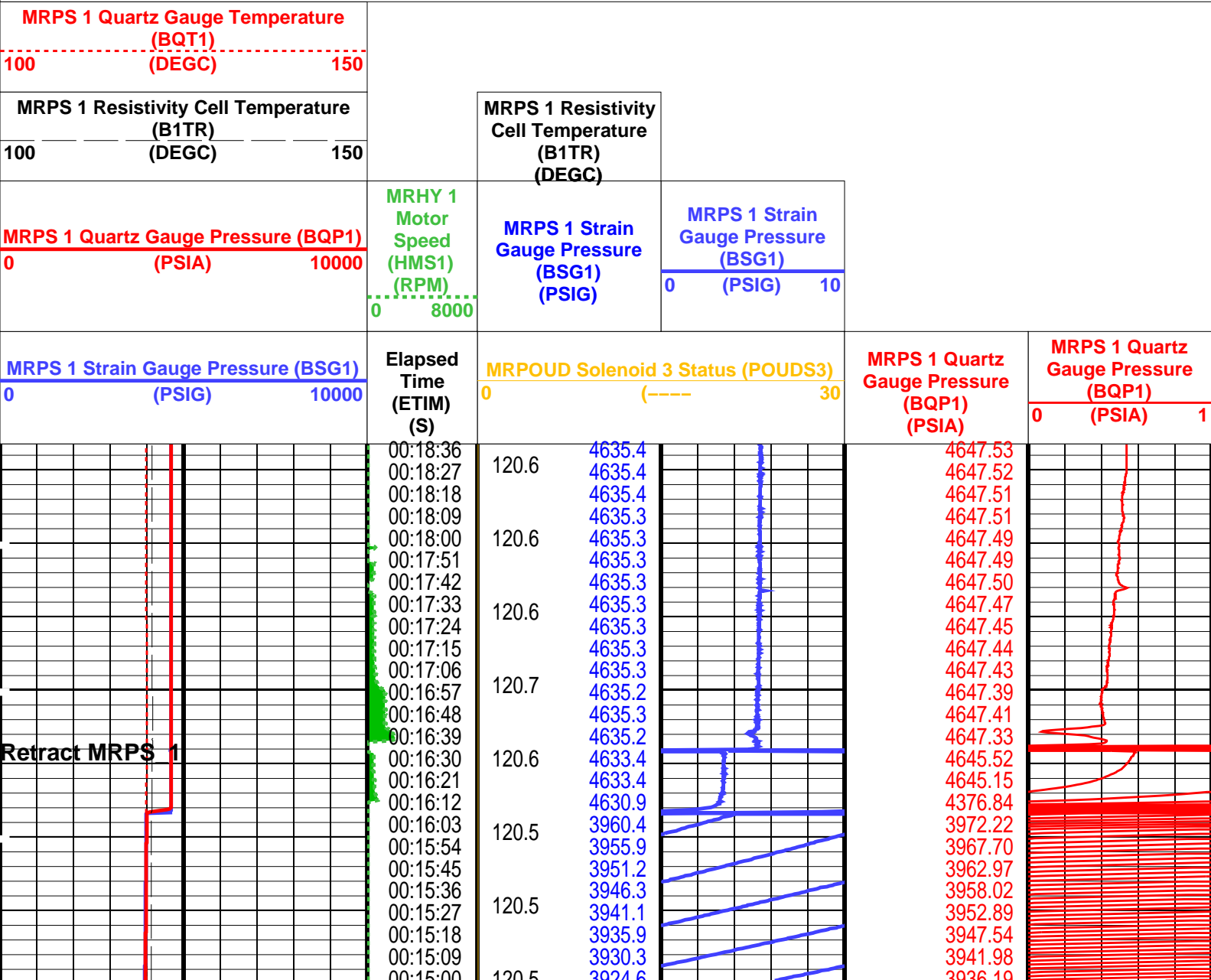


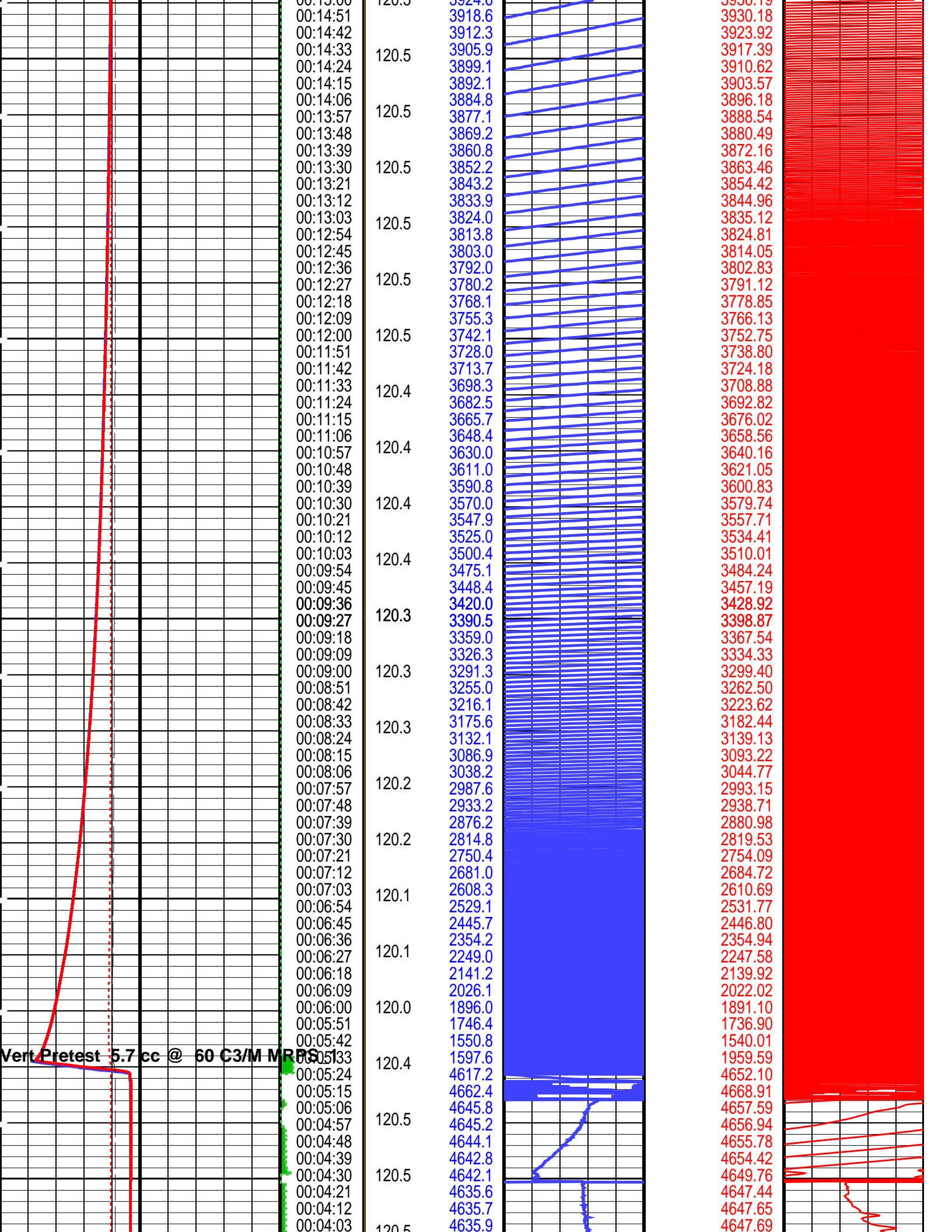
Output DLIS Files						
DEFAULT	MDT_OFA_025LTP	FN:38	PRODUCER	02-Apr-2004 21:23	3462.0 M	2.8 M
BACKUP	MDT_OFA_025LTP	FN:39	PRODUCER	02-Apr-2004 21:20	3462.0 M	2.8 M

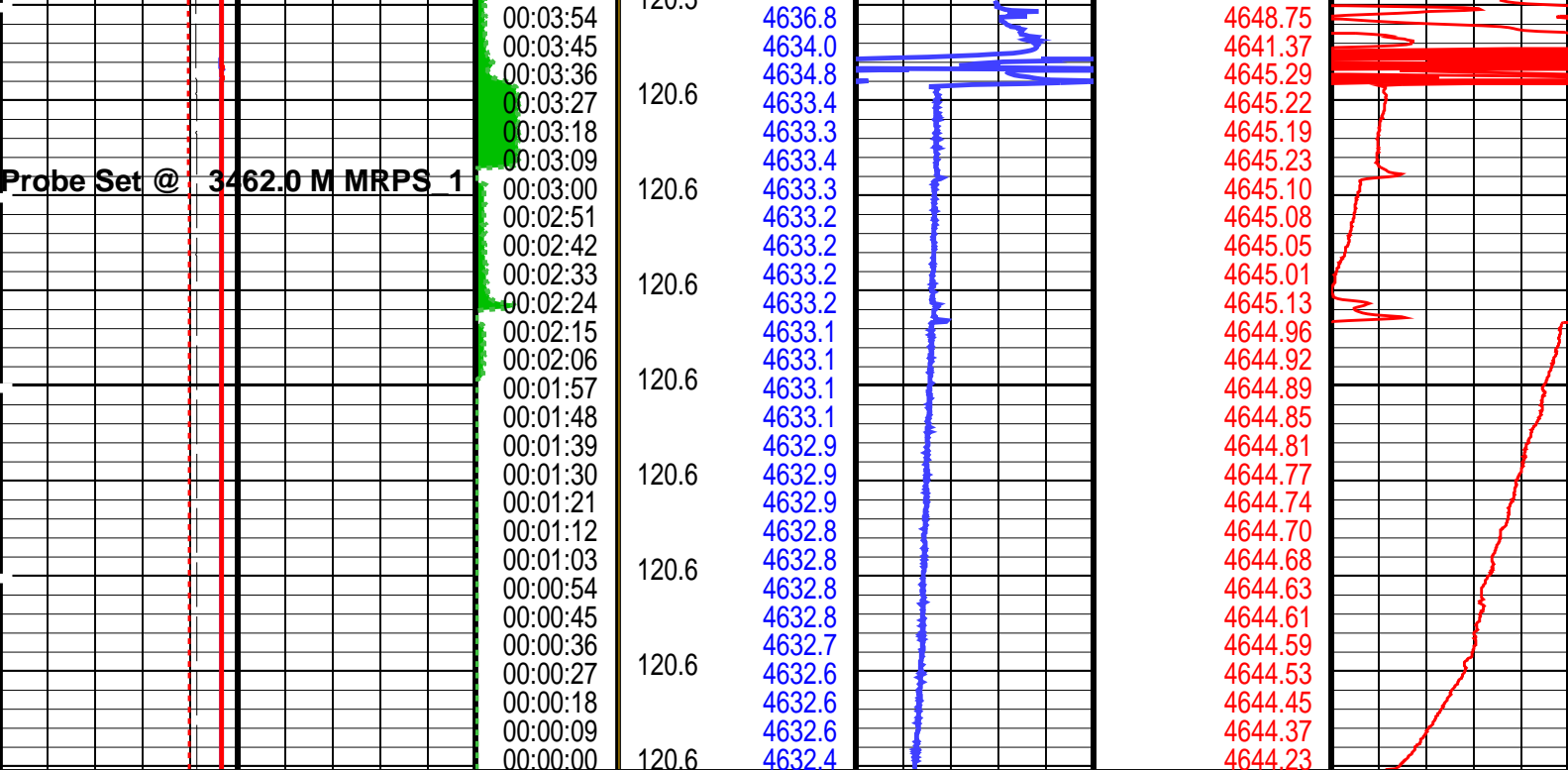
Elapsed Time (s)	Event Summary
996.0	Retract Single Probe Module (MRPS) 1
323.1	Vert Pretest 5.7 cc @ 60 C3/M Single Probe Module (MRPS) 1
186.0	Probe Set @ 3462.0 M Single Probe Module (MRPS) 1

PIP SUMMARY

Time Mark Every 60 S







MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0 10000		Elapsed Time (ETIM) (S)		MRPOUD Solenoid 3 Status (POUDS3) (-----) 0 30		MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)		MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 1	
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 10000		MRHY 1 Motor Speed (HMS1) (RPM) 0 8000		MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0 10					
MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC) 100 150				MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)					
MRPS 1 Quartz Gauge Temperature (BQT1) (DEGC) 100 150									

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
MRPS_1: Single Probe Module (MRPS) 1			
QGCA	Quartz Gauge Pressure Correction Applied	DYCO	
QGDA	Quartz Gauge Deviation Angle	0	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
MRPS_2: Single Probe Module (MRPS) 2			
QGCA	Quartz Gauge Pressure Correction Applied	DYCO	
QGDA	Quartz Gauge Deviation Angle	0	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
LFA: Live Fluid Analyzer			
PDCO	Probe Depth Correction Offset	0	M
MRPC: Power Cartridge			
PDCO	Probe Depth Correction Offset	0	M

Format: MRPS_1_SGQG_Station

Vertical Scale: 1" per 60S

Graphics File Created: 02-Apr-2004 21:23

OP System Version: 12C0-301

MCM

MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301

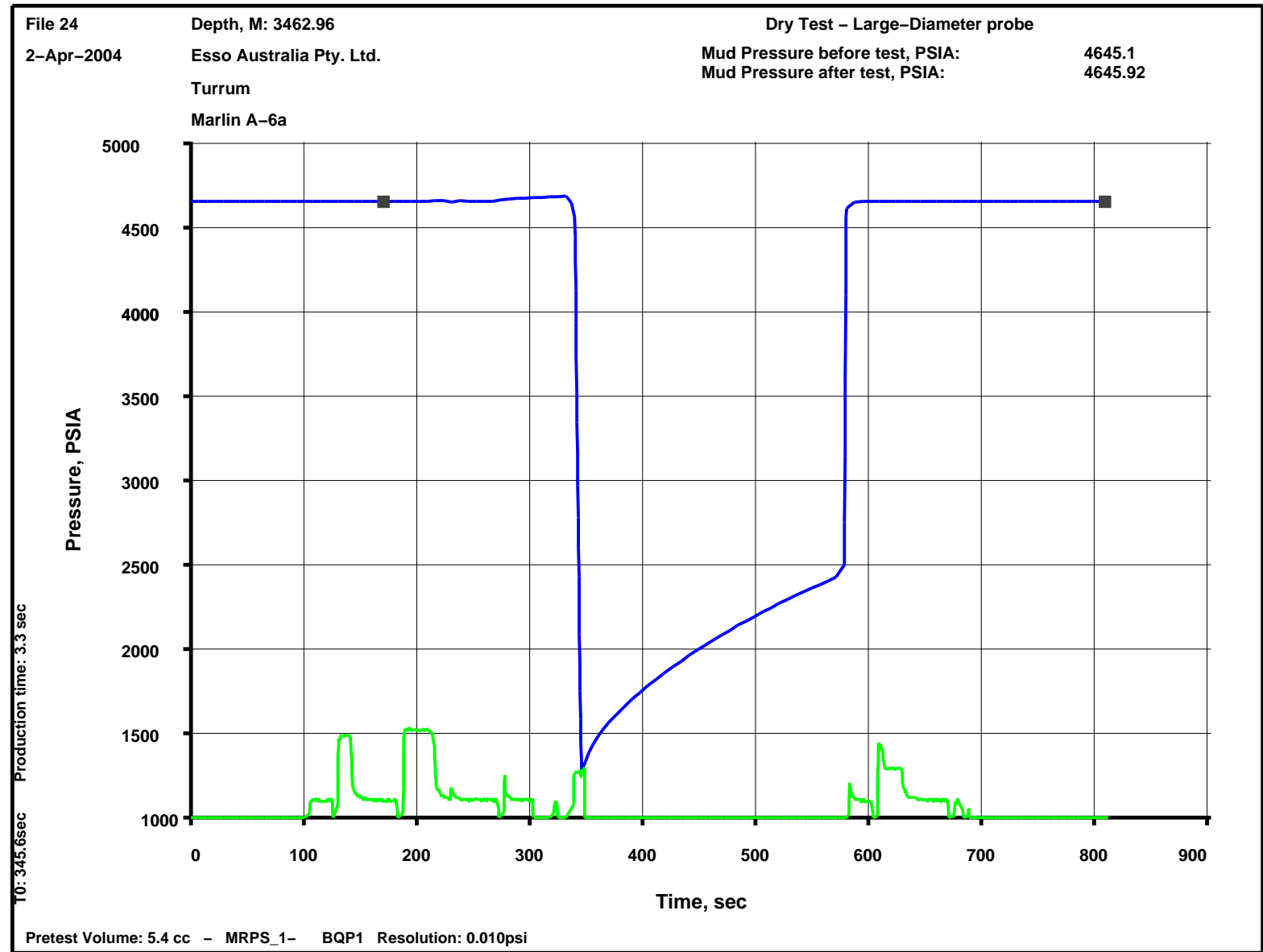
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301

Output DLIS Files					
DEFAULT	MDT_OFA_025LTP	FN:38	PRODUCER	02-Apr-2004 21:23	
BACKUP	MDT_OFA_025LTP	FN:39	PRODUCER	02-Apr-2004 21:20	

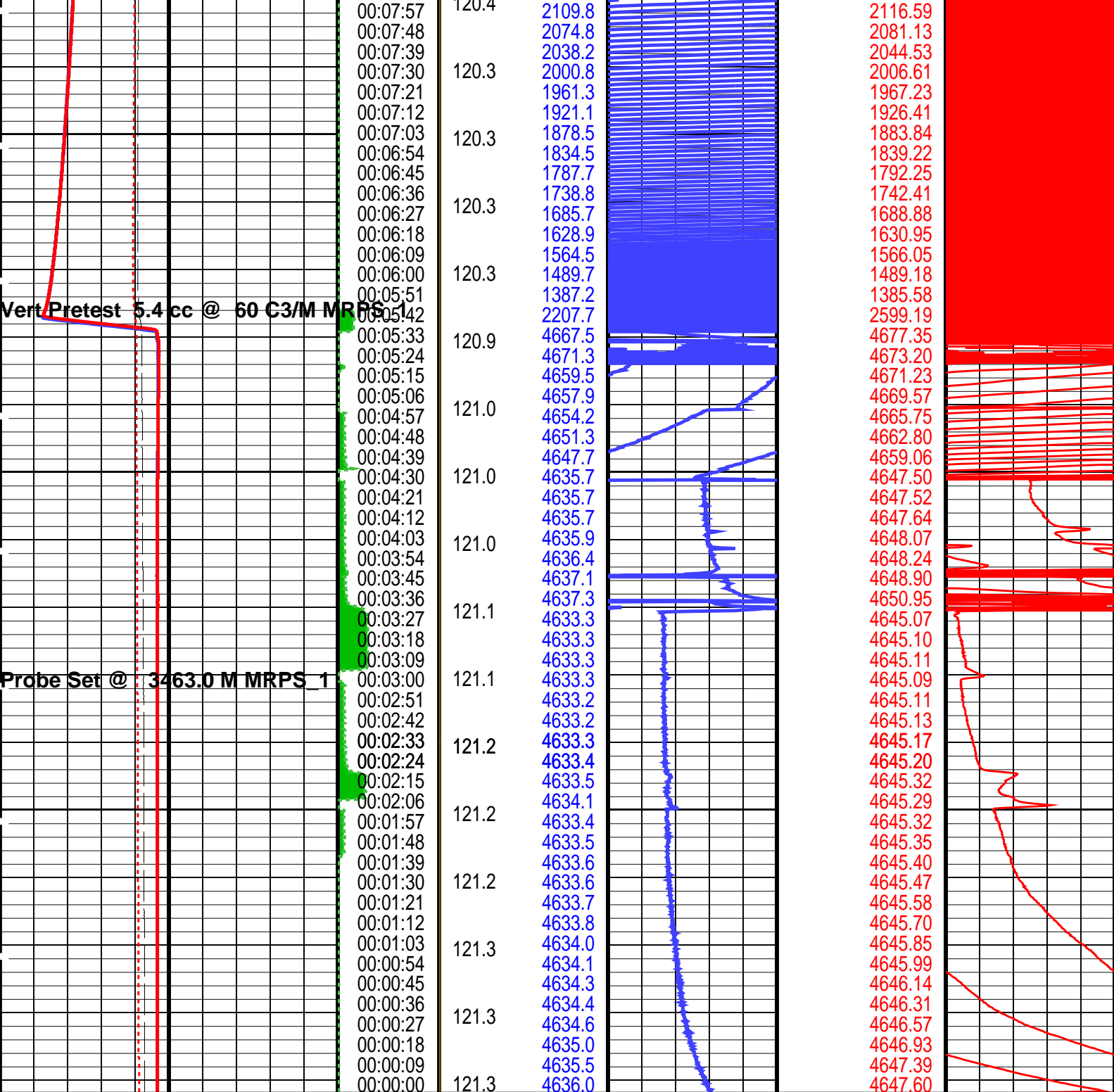


Pretest @ 3463m MD

MAXIS Field Log



Output DLIS Files						
DEFAULT	MDT_OFA_024LTP	FN:36	PRODUCER	02-Apr-2004 21:03	3463.0 M	2.1 M
BACKUP	MDT_OFA_024LTP	FN:37	PRODUCER	02-Apr-2004 21:00	3463.0 M	2.1 M



MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 10000		Elapsed Time (ETIM) (S)		MRPOUD Solenoid 3 Status (POUDS3) 0 (----) 30		MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)		MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 1	
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 10000		MRHY 1 Motor Speed (HMS1) (RPM) 0 8000		MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0 10					
MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC) 100 150				MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)					
MRPS 1 Quartz Gauge Temperature (BQT1) (DEGC) 100 150									

Parameters

DLIS Name	Description	Value
MRPS_1: Single Probe Module (MRPS) 1		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
MRPS_2: Single Probe Module (MRPS) 2		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
LFA: Live Fluid Analyzer		
PDCO	Probe Depth Correction Offset	0 M
MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0 M

Format: MRPS_1_SGQG_Station Vertical Scale: 1" per 60S Graphics File Created: 02-Apr-2004 21:03

OP System Version: 12C0-301

MCM

MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301

Output DLIS Files

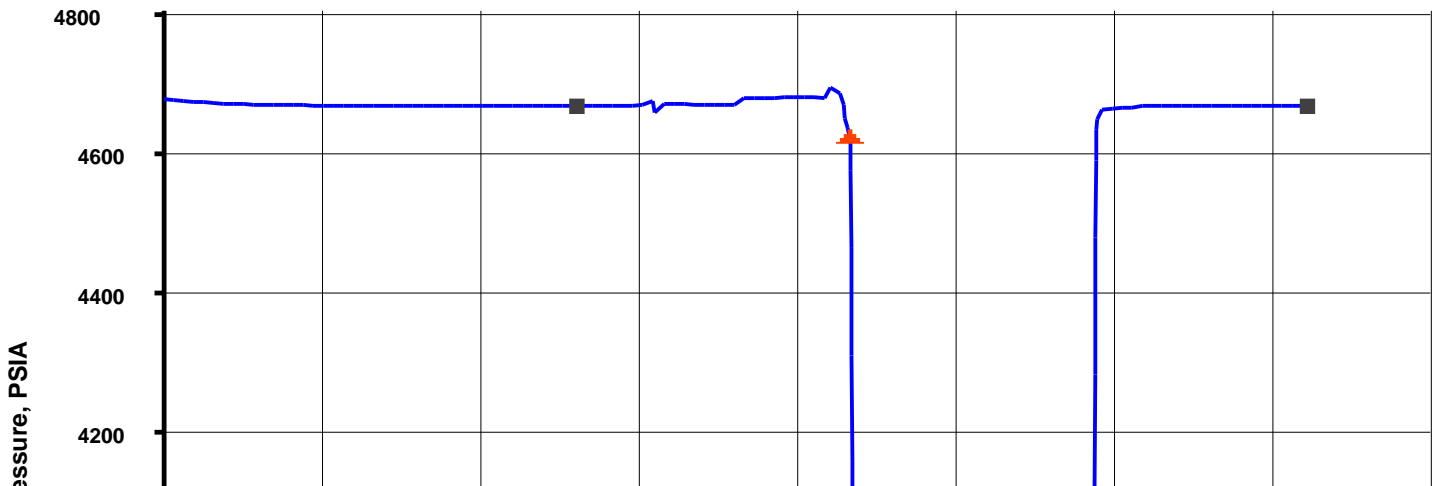
DEFAULT	MDT_OFA_024LTP	FN:36	PRODUCER	02-Apr-2004 21:03
BACKUP	MDT_OFA_024LTP	FN:37	PRODUCER	02-Apr-2004 21:00

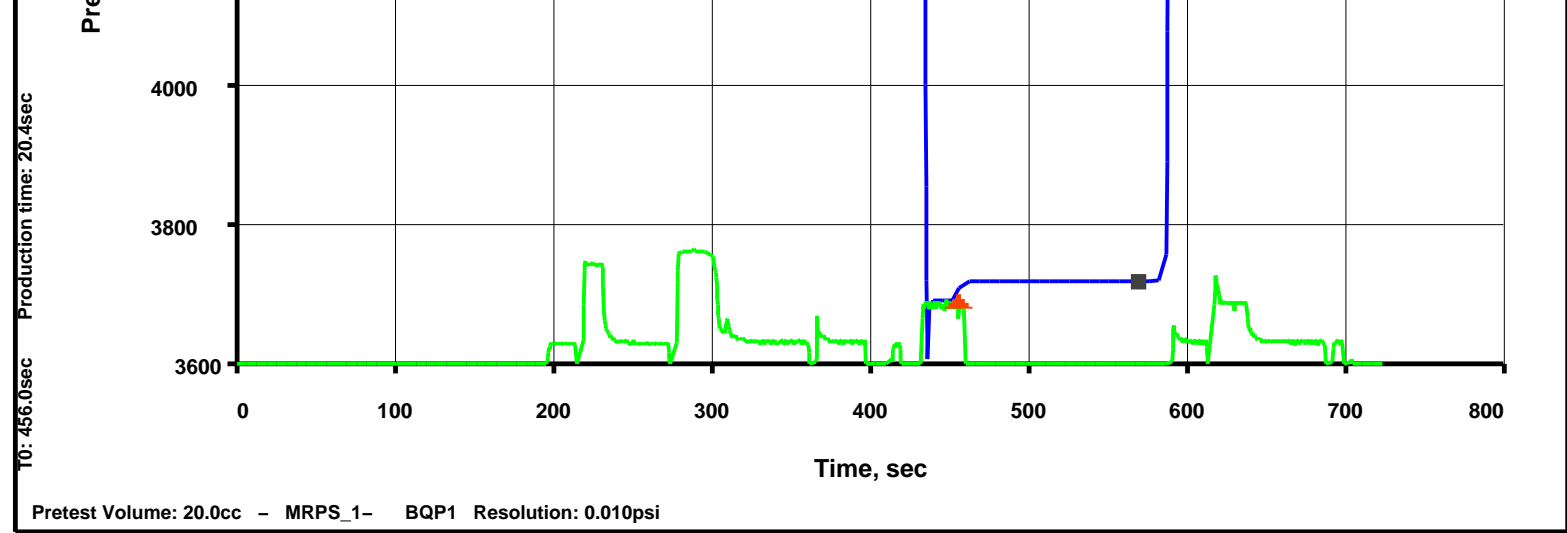
Schlumberger

Pretest @ 3472m MD

MAXIS Field Log

File 23 Depth, M: 3472.05 Draw-down Pretest - Large-Diameter probe
 2-Apr-2004 Esso Australia Pty. Ltd. Mud Pressure before test, PSIA: 4663.21
 Turrum Mud Pressure after test, PSIA: 4663.88
 Marlin A-6a Last build-up pressure, PSIA: 3718.07
 Draw-down mobility, md/cp: 74.2





Output DLIS Files

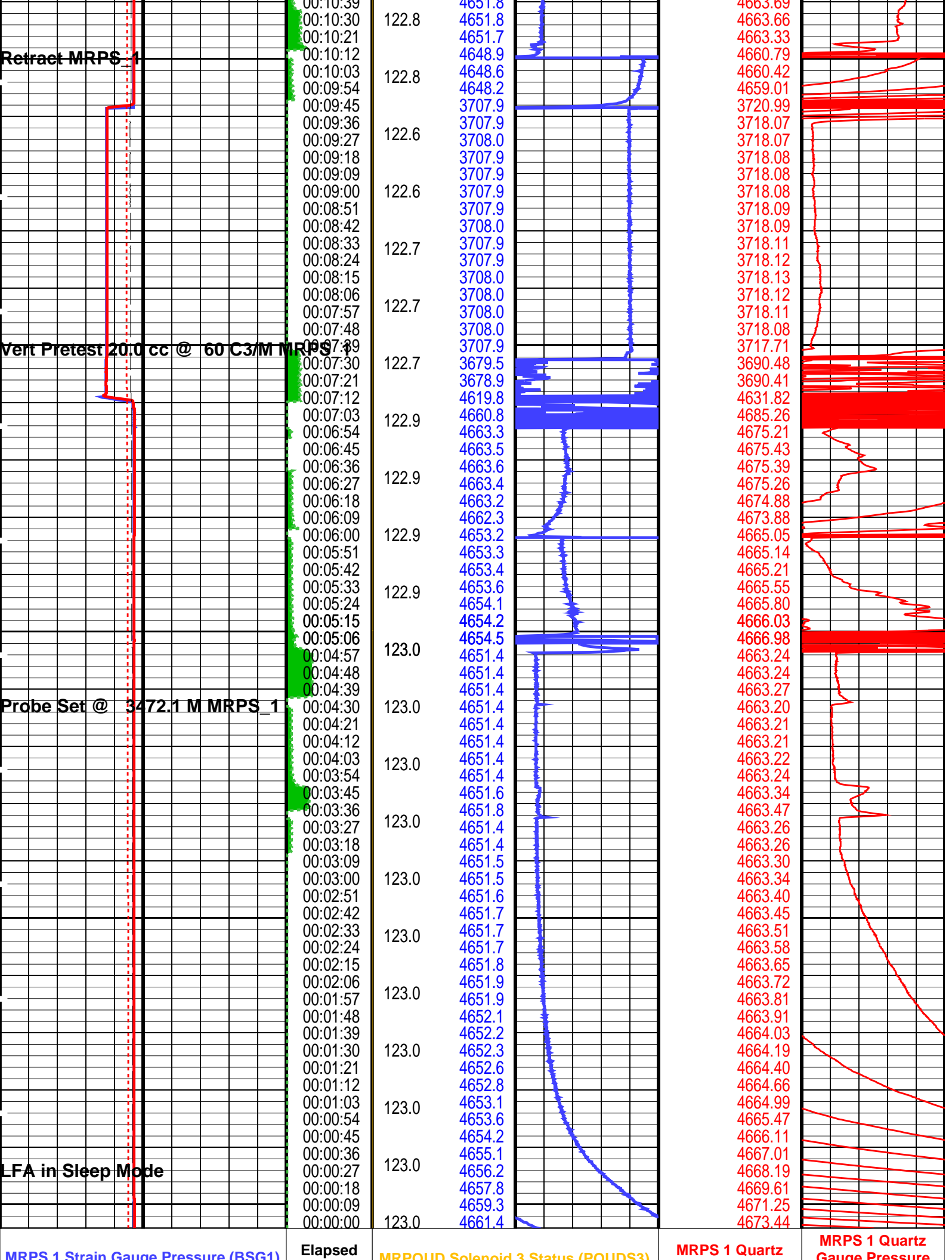
DEFAULT	MDT_OFA_023LTP	FN:34	PRODUCER	02-Apr-2004 20:23	3472.1 M	1.9 M
BACKUP	MDT_OFA_023LTP	FN:35	PRODUCER	02-Apr-2004 20:20	3472.1 M	1.9 M

Elapsed Time (s)	Event Summary
613.2	Retract Single Probe Module (MRPS) 1
428.7	Vert Pretest 20.0 cc @ 60 C3/M Single Probe Module (MRPS) 1
273.9	Probe Set @ 3472.1 M Single Probe Module (MRPS) 1

PIP SUMMARY

Time Mark Every 60 S

MRPS 1 Quartz Gauge Temperature (BQT1) 100 (DEGC) 150					
MRPS 1 Resistivity Cell Temperature (B1TR) 100 (DEGC) 150		MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)			
MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 10000		MRHY 1 Motor Speed (HMS1) (RPM) 0 8000	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 10	
MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 10000		Elapsed Time (ETIM) (S)	MRPOUD Solenoid 3 Status (POUDS3) 0 (----) 30		MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)
					MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)
		00:12:18	4652.1		4663.88
		00:12:09	4652.1		4663.88
		00:12:00	122.8 4652.1		4663.88
		00:11:51	4652.1		4663.88
		00:11:42	4652.1		4663.88
		00:11:33	122.8 4652.1		4663.90
		00:11:24	4652.0		4663.81
		00:11:15	4652.0		4663.81
		00:11:06	4652.0		4663.78
		00:10:57	122.8 4652.0		4663.77
		00:10:48	4651.9		4663.73
		00:10:39	4651.9		4663.69



MRPS 1 Strain Gauge Pressure (BQP1) (PSIG) 10000	Time (ETIM) (S)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0 30	Gauge Pressure (BQP1) (PSIA)	Gauge Pressure (BQP1) (PSIA) 0 1
MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 10000	MRHY 1 Motor Speed (HMS1) (RPM) 0 8000	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 10	
MRPS 1 Resistivity Cell Temperature (B1TR) 100 (DEGC) 150		MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)		
MRPS 1 Quartz Gauge Temperature (BQT1) 100 (DEGC) 150				

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name

Description

Value

MRPS_1: Single Probe Module (MRPS) 1

QGCA Quartz Gauge Pressure Correction Applied
 QGDA Quartz Gauge Deviation Angle
 QGFD Quartz Gauge Flow Line Density

DYCO
 0 DEG
 1 G/C3

MRPS_2: Single Probe Module (MRPS) 2

QGCA Quartz Gauge Pressure Correction Applied
 QGDA Quartz Gauge Deviation Angle
 QGFD Quartz Gauge Flow Line Density

DYCO
 0 DEG
 1 G/C3

LFA: Live Fluid Analyzer

PDCO Probe Depth Correction Offset

0 M

MRPC: Power Cartridge

PDCO Probe Depth Correction Offset

0 M

Format: MRPS_1_SGQG_Station

Vertical Scale: 1" per 60S

Graphics File Created: 02-Apr-2004 20:23

OP System Version: 12C0-301

MCM

MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301

Output DLIS Files

DEFAULT	MDT_OFA_023LTP	FN:34	PRODUCER	02-Apr-2004 20:23
BACKUP	MDT_OFA_023LTP	FN:35	PRODUCER	02-Apr-2004 20:20

Schlumberger

Pretest @ 3480m MD

MAXIS Field Log

File 22 Depth, M: 3479.83

2-Apr-2004 Esso Australia Pty. Ltd.

Turrum

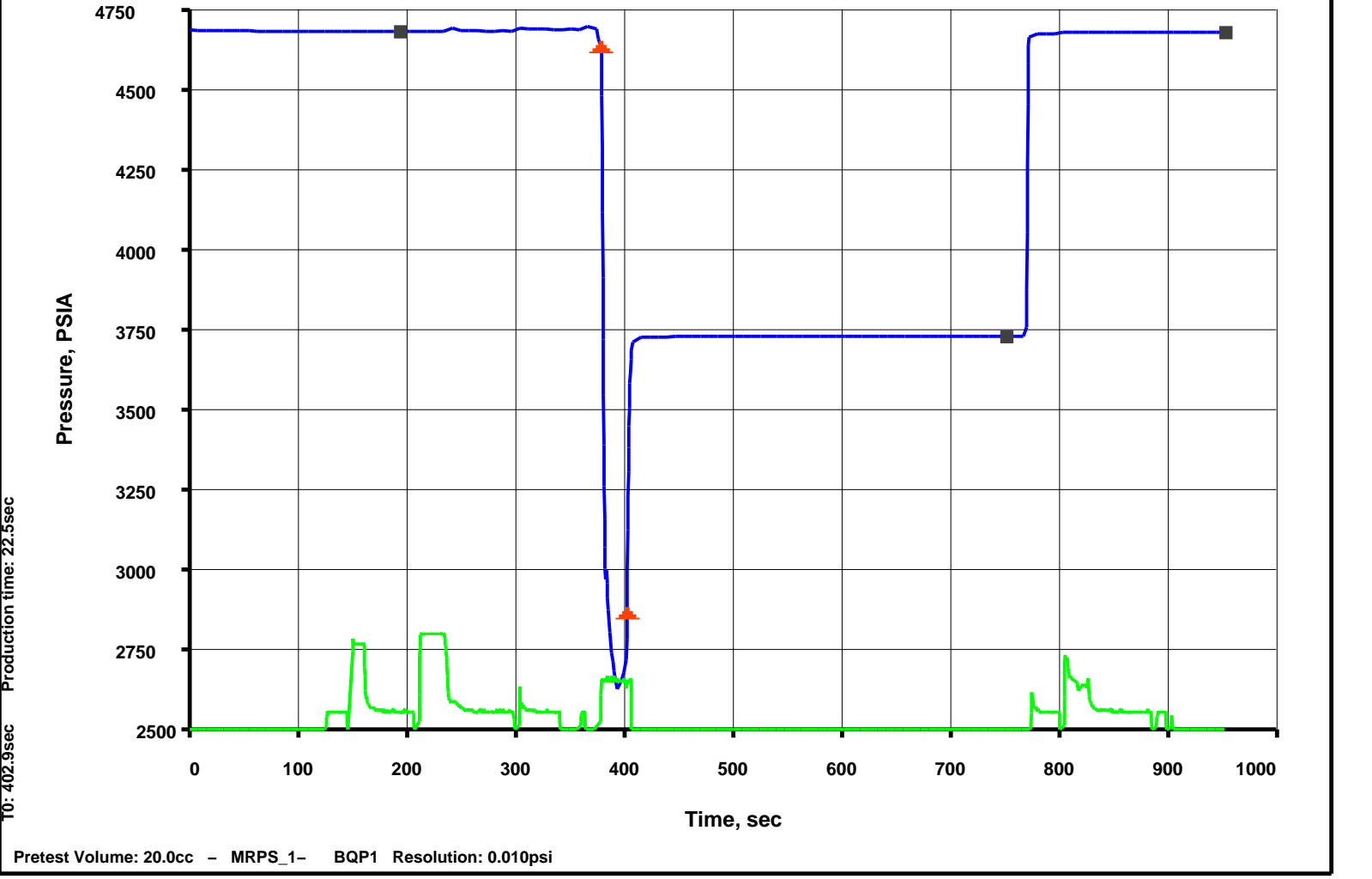
Draw-down Pretest - Large-Diameter probe

Mud Pressure before test, PSIA: 4678.58

Mud Pressure after test, PSIA: 4677.41

Last build-up pressure, PSIA: 3726.59

Draw-down mobility, md/cp: 2.2



Output DLIS Files

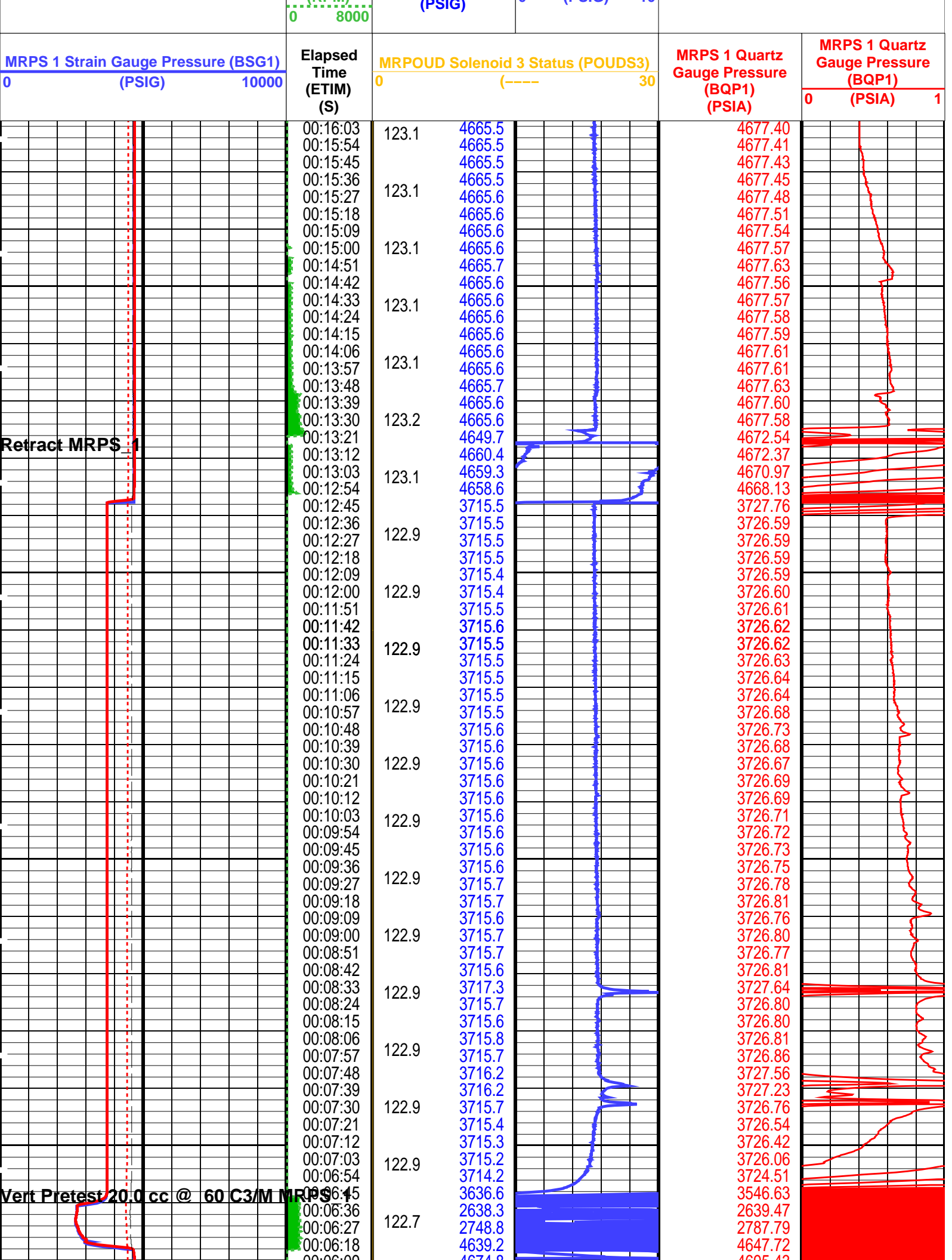
DEFAULT	MDT_OFA_022LTP	FN:32	PRODUCER	02-Apr-2004 19:48	3479.8 M	2.5 M
BACKUP	MDT_OFA_022LTP	FN:33	PRODUCER	02-Apr-2004 19:45	3479.8 M	2.5 M

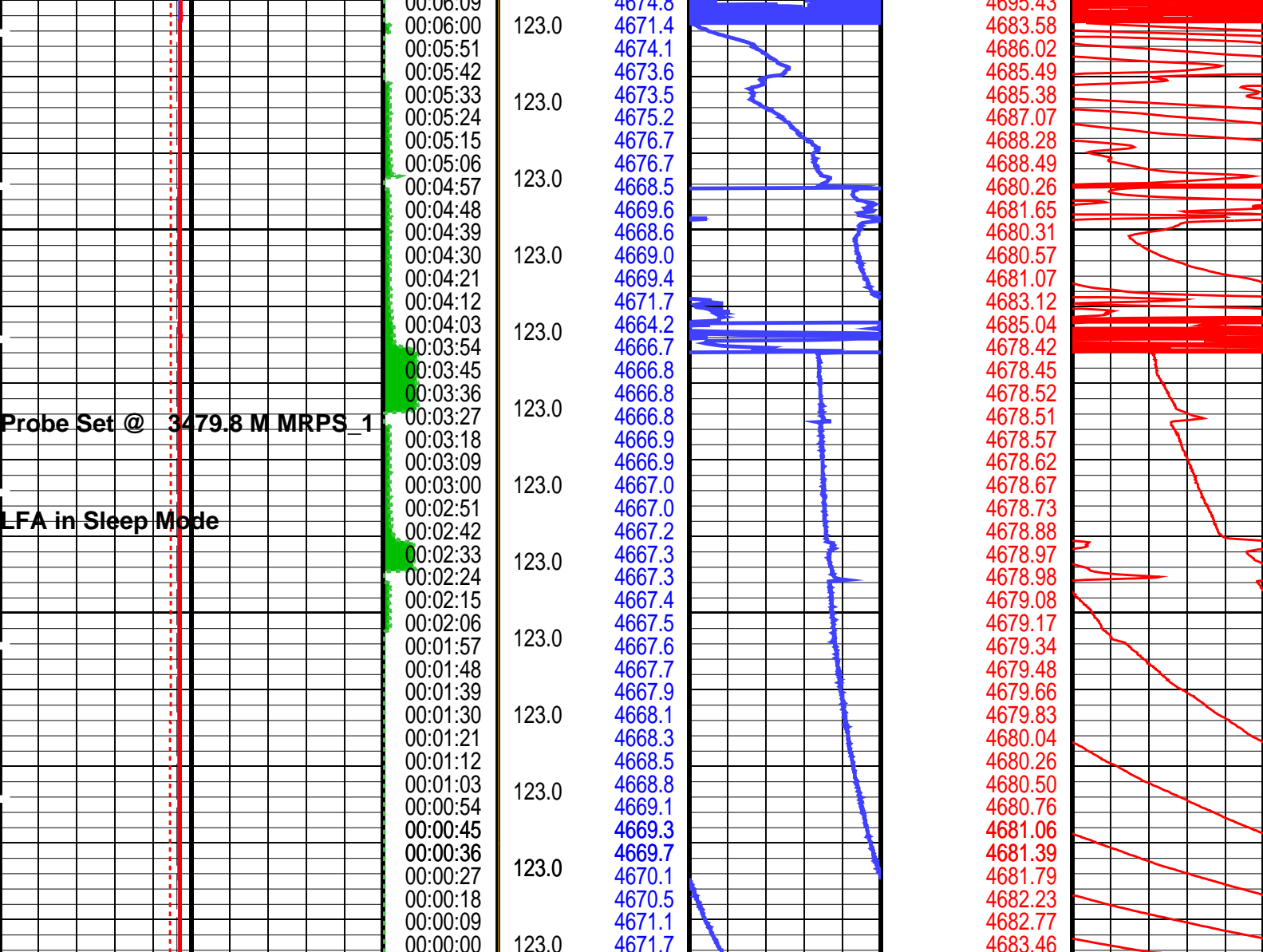
Elapsed Time (s)	Event Summary
800.7	Retract Single Probe Module (MRPS) 1
373.8	Vert Pretest 20.0 cc @ 60 C3/M Single Probe Module (MRPS) 1
207.6	Probe Set @ 3479.8 M Single Probe Module (MRPS) 1

PIP SUMMARY

Time Mark Every 60 S

MRPS 1 Quartz Gauge Temperature (BQT1) (DEGC)			
100 150			
MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)			
100 150			
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	MRHY 1 Motor Speed (HMS1) (RPM)	MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)
0 10000			0 10





MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 10000		Elapsed Time (ETIM) (S)		MRPOUD Solenoid 3 Status (POUDS3) 0 (----) 30		MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)		MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 1	
MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 10000		MRHY 1 Motor Speed (HMS1) (RPM) 0 8000		MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0 10		MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0 10			
MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC) 100 150		MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)							
MRPS 1 Quartz Gauge Temperature (BQT1) (DEGC) 100 150									

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MRPS_1: Single Probe Module (MRPS) 1		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
MRPS_2: Single Probe Module (MRPS) 2		

QGCA	Quartz Gauge Pressure Correction Applied	DYCO	0	DEG
QGDA	Quartz Gauge Deviation Angle		1	G/C3
QGFD	Quartz Gauge Flow Line Density			
LFA: Live Fluid Analyzer				
PDCO	Probe Depth Correction Offset		0	M
MRPC: Power Cartridge				
PDCO	Probe Depth Correction Offset		0	M

Format: MRPS_1_SGQG_Station

Vertical Scale: 1" per 60S

Graphics File Created: 02-Apr-2004 19:48

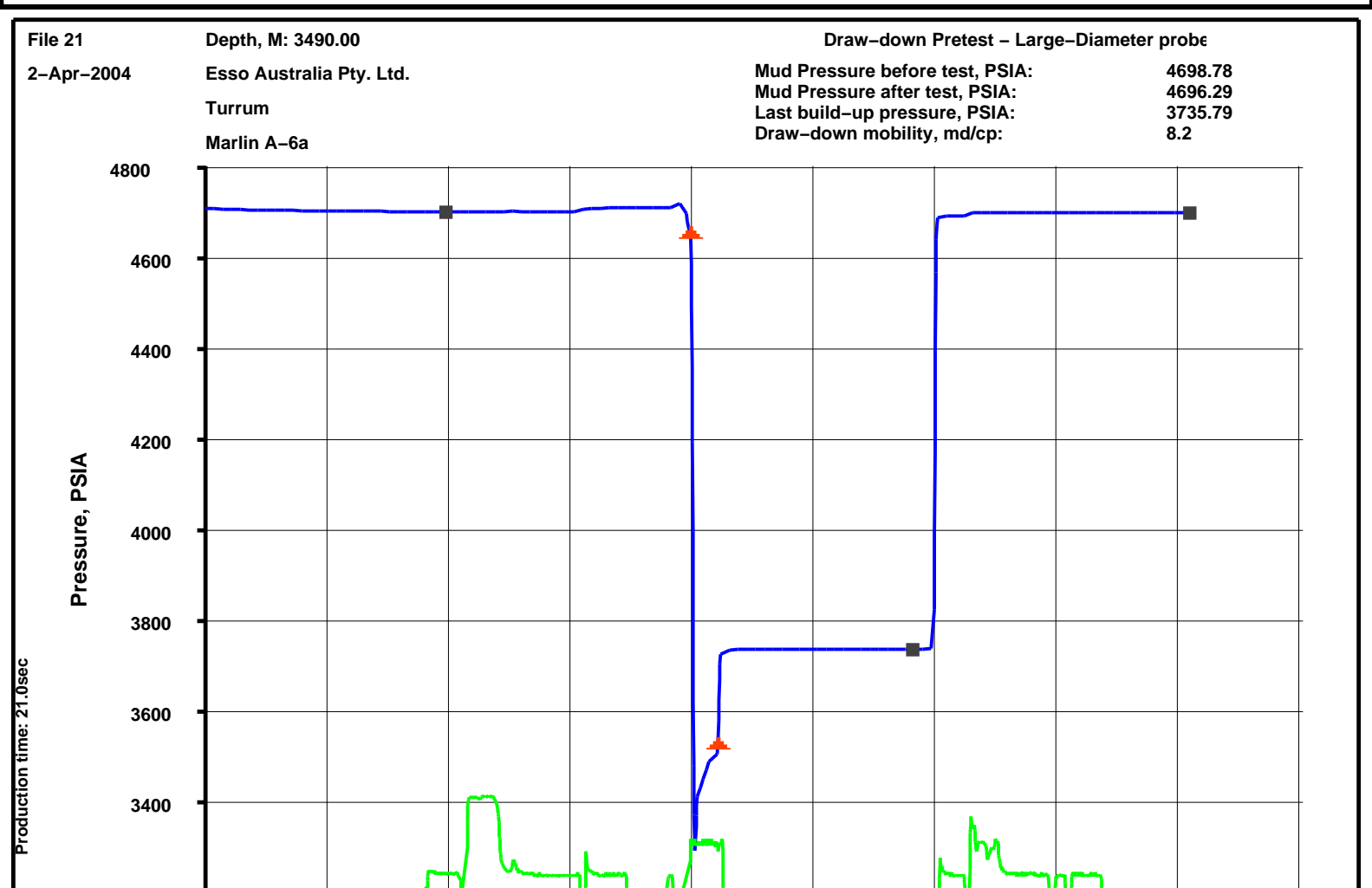
OP System Version: 12C0-301			
MCM			
MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301

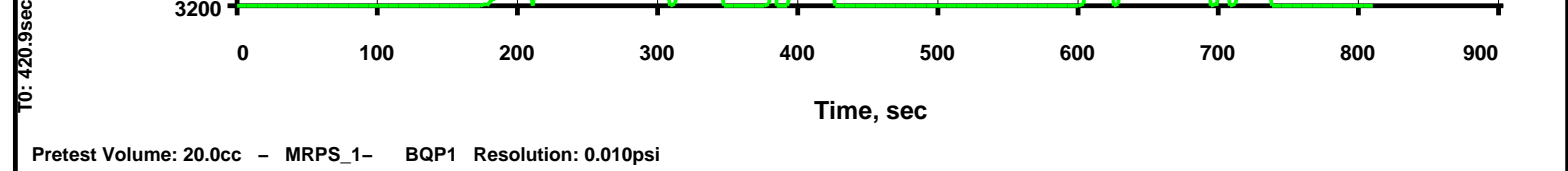
Output DLIS Files			
DEFAULT	MDT_OFA_022LTP	FN:32	PRODUCER 02-Apr-2004 19:48
BACKUP	MDT_OFA_022LTP	FN:33	PRODUCER 02-Apr-2004 19:45



Pretest @ 3490m MD

MAXIS Field Log





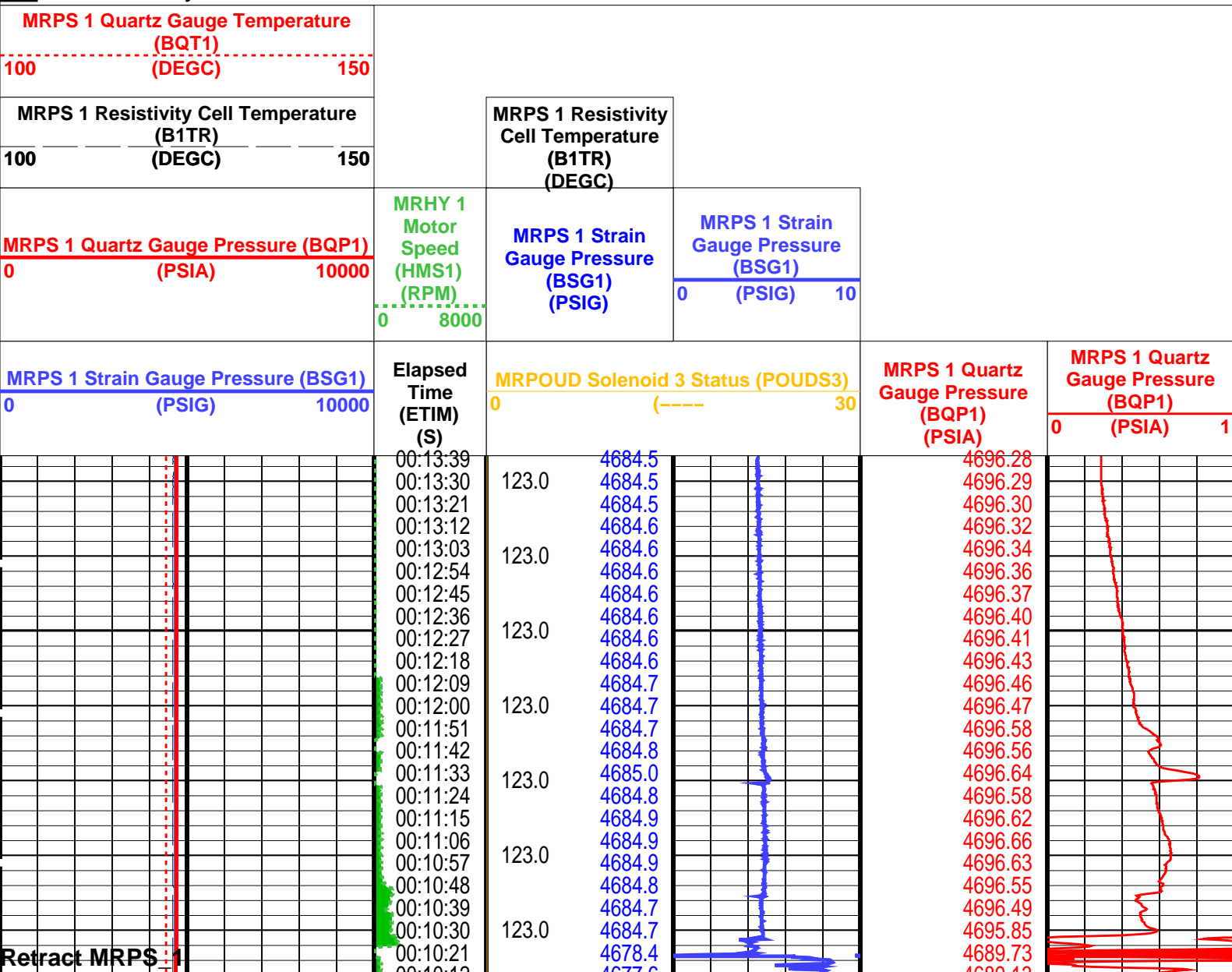
Output DLIS Files

DEFAULT	MDT_OFA_021LTP	FN:30	PRODUCER	02-Apr-2004 19:28	3490.0 M	2.1 M
BACKUP	MDT_OFA_021LTP	FN:31	PRODUCER	02-Apr-2004 19:25	3490.0 M	2.1 M

Elapsed Time (s)	Event Summary
622.5	Retract Single Probe Module (MRPS) 1
393.0	Vert Pretest 20.0 cc @ 60 C3/M Single Probe Module (MRPS) 1
210.3	Probe Set @ 3490.0 M Single Probe Module (MRPS) 1

PIP SUMMARY

Time Mark Every 60 S





MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 10000	MRHY 1 Motor Speed (HMS1) (RPM) 0 8000	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 10
MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC) 100 150		MRPS 1 Resistivity Cell Temperature (B1TR) (DEGC)	
MRPS 1 Quartz Gauge Temperature (BQT1) (DEGC) 100 150			

PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
MRPS_1: Single Probe Module (MRPS) 1		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
MRPS_2: Single Probe Module (MRPS) 2		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
LFA: Live Fluid Analyzer		
PDCO	Probe Depth Correction Offset	0 M
MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0 M

Format: MRPS_1_SGQG_Station Vertical Scale: 1" per 60S Graphics File Created: 02-Apr-2004 19:28

OP System Version: 12C0-301			
MCM			
MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301

Output DLIS Files				
DEFAULT	MDT_OFA_021LTP	FN:30	PRODUCER	02-Apr-2004 19:28
BACKUP	MDT_OFA_021LTP	FN:31	PRODUCER	02-Apr-2004 19:25



Correlation Pass

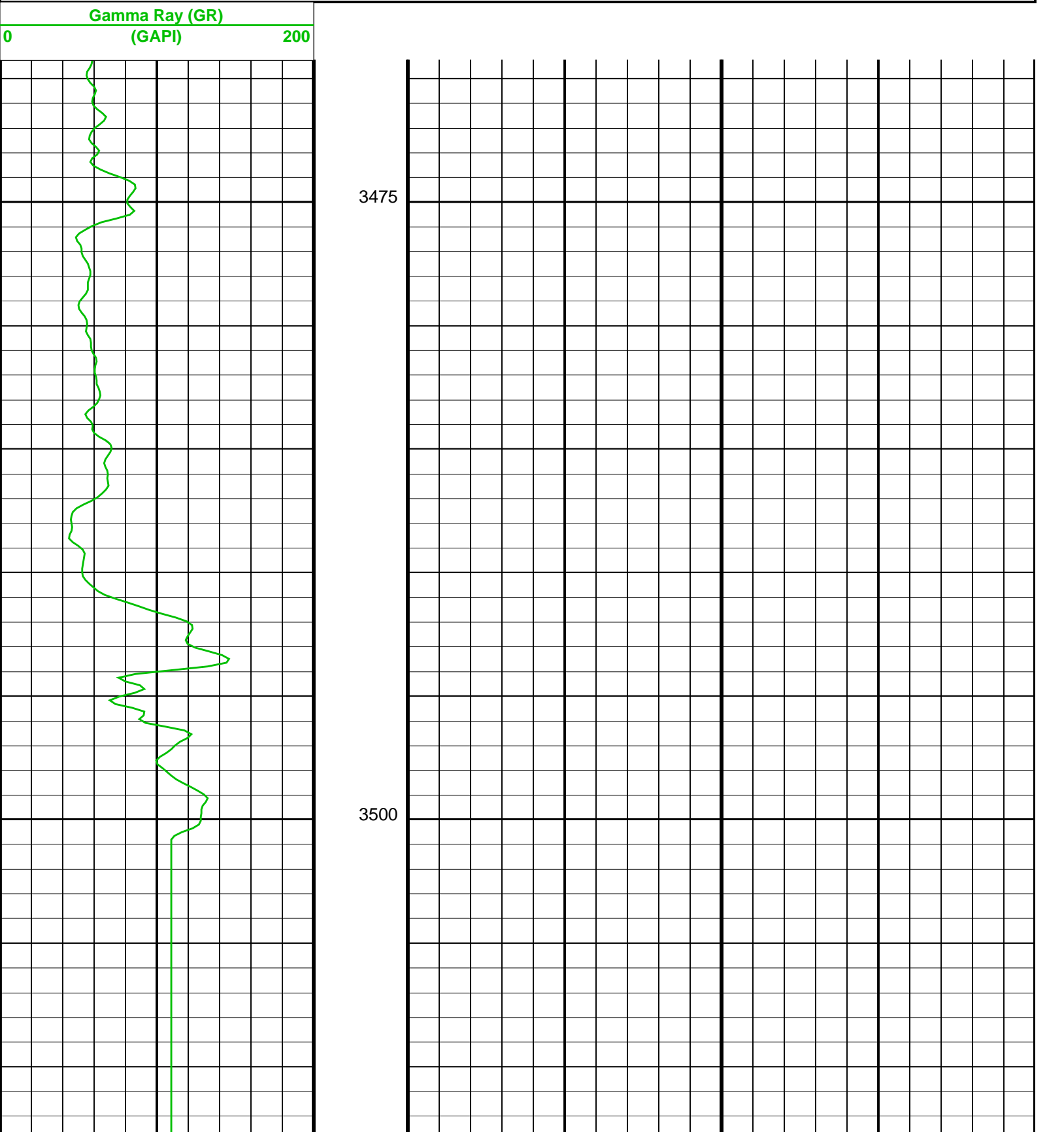
MAXIS Field Log

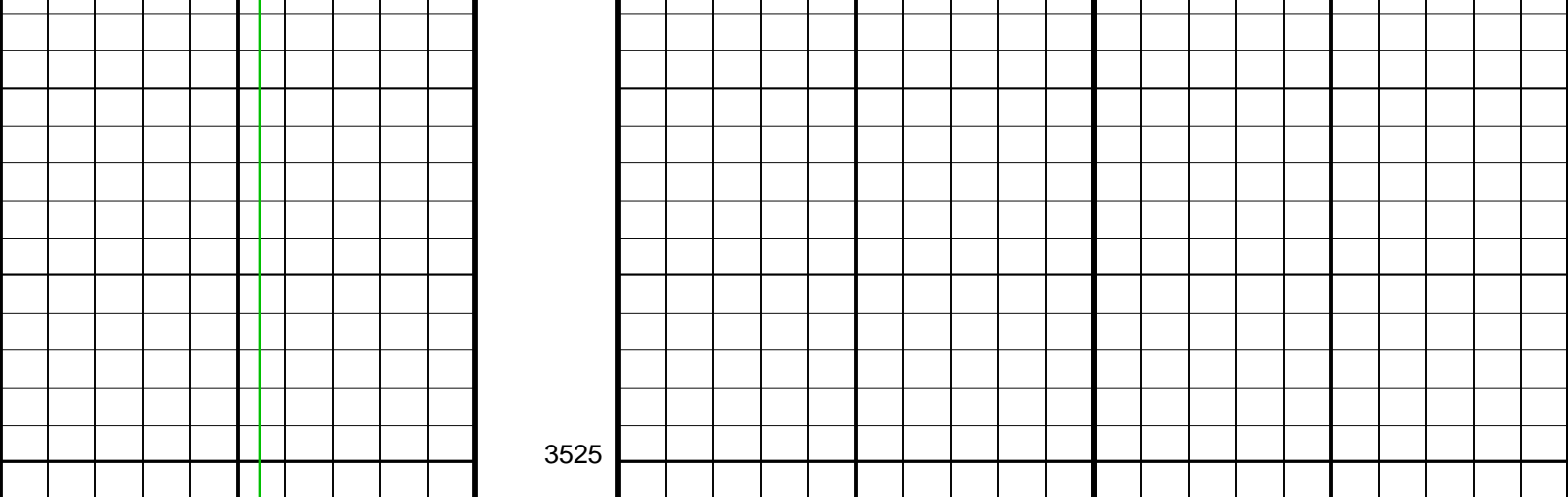
Input DLIS Files					
DEFAULT	MDT_OFA_018LUP	FN:24	PRODUCER	02-Apr-2004 18:45	3524.9 M 3468.2 M
Output DLIS Files					

OP System Version: 12C0-301

MCM

MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301





Gamma Ray (GR)
(GAPI) 0 200

Parameters			
DLIS Name	Description	Value	
PDCO	LFA: Live Fluid Analyzer		
	Probe Depth Correction Offset	0	M
PDCO	MRPC: Power Cartridge		
	Probe Depth Correction Offset	0	M
DO PP	System and Miscellaneous		
	Depth Offset for Playback	1.0	M
	Playback Processing	NORMAL	

Format: CORRELATION Vertical Scale: 1:200 Graphics File Created: 02-Apr-2004 19:03

OP System Version: 12C0-301			
MCM			
MRPS_1	12C0-301	MRPS_2	12C0-301
MRHY_1	12C0-301	MRPO_UD	12C0-301
LFA	12C0-301	MRSC_01	12C0-301
MRMS_1	12C0-301	MRMS_2	12C0-301
MRPC	12C0-301	SGT-L	12C0-301
TCC-BF	12C0-301	ACTS-B1	12C0-301

Input DLIS Files						
DEFAULT	MDT_OFA_018LUP	FN:24	PRODUCER	02-Apr-2004 18:45	3524.9 M	3468.2 M
Output DLIS Files						
DEFAULT	MDT_OFA_019PUP	FN:26	PRODUCER	02-Apr-2004 19:03		
BACKUP	MDT_OFA_019PUP	FN:27	PRODUCER	02-Apr-2004 19:00		



Calibrations

MASTER CALIBRATION SUMMARY: Quartz Gauge (Single Probe Module 1)

Calibration Pressure Unit: PSIA
Calibration Temperature Unit: DEGC
Sensor Comment: :
Sensor Serial Number: 0088
Sensor Calibration Date (DDMMYY): 091002
Pressure Model: P=F(Fc,Fb)
Pressure Matrix: 66
Pressure CRC: 9AA9
Temperature Model: T=F(Fb,Fc)
Temperature Matrix: 66
Temperature CRC: 622C
Clock Comment: :
Clock Serial Number: 440
Clock Calibration Date (DDMMYY): 101002
Clock Model: F'c=F'b/F'c)
Clock Matrix: 16
Clock CRC: 2C97
Fc Offset: +.514400000000E+07 Hz
Fb Offset: +.558800000000E+07 Hz
R Offset: +.109100000000E+01 Hz

Pressure Coefficients

	Fb**0	Fb**1	Fb**2	Fb**3
Fc**0	+.706675600822E+0	+.107694739016E-0	-.307381203471E-0	-.840537879020E-1
Fc**1	-.110314172556E+0	-.134834724936E-0	-.107905617867E-0	+.731115473290E-1
Fc**2	+.108213251753E-0	+.492548780173E-1	+.110921873019E-1	0.0
Fc**3	+.630261096011E-1	0.0	0.0	0.0
Fc**4	0.0	0.0	0.0	0.0
Fc**5	0.0	0.0	0.0	0.0

	Fb**4	Fb**5
Fc**0	-.156565109417E-1	-.233385740597E-1
Fc**1	+.277029017269E-1	0.0
Fc**2	0.0	0.0
Fc**3	0.0	0.0
Fc**4	0.0	0.0
Fc**5	0.0	0.0

Temperature Coefficients

	Fc**0	Fc**1	Fc**2	Fc**3
Fb**0	+.114179637607E+0	-.358549320130E-0	+.691982599294E-0	+.296535845866E-1
Fb**1	-.601344834372E-0	+.176233236680E-0	+.181624895988E-1	0.0
Fb**2	-.312102850815E-0	+.326645681336E-1	+.256021085813E-1	0.0
Fb**3	-.278839177670E-1	+.672517835447E-1	0.0	0.0
Fb**4	-.443947214402E-1	+.304631190893E-2	0.0	0.0
Fb**5	-.289409318532E-2	0.0	0.0	0.0

	Fc**4	Fc**5
Fb**0	0.0	0.0
Fb**1	0.0	0.0
Fb**2	0.0	0.0
Fb**3	0.0	0.0
Fb**4	0.0	0.0
Fb**5	0.0	0.0

Clock Coefficients

F'b/F'c**0	+517534605334E+0
F'b/F'c**1	+355719826829E+0
F'b/F'c**2	+114837614833E+0
F'b/F'c**3	-.947717028711E+1
F'b/F'c**4	-.344121303109E+1
F'b/F'c**5	+192624132429E+1

MASTER CALIBRATION SUMMARY: Quartz Gauge (Single Probe Module 2)

Calibration Pressure Unit:PSIA

Calibration Temperature Unit:DEGC

Sensor Comment::

Sensor Serial Number:0574

Sensor Calibration Date (DDMMYY):230502

Pressure Model:P=F(Fc,Fb)

Pressure Matrix:66

Pressure CRC:47F4

Temperature Model:T=F(Fb,Fc)

Temperature Matrix:66

Temperature CRC:32E6

Clock Comment::

Clock Serial Number:664

Clock Calibration Date (DDMMYY):130302

Clock Model:F'c=F(F'b/F'c)

Clock Matrix:16

Clock CRC:D347

Fc Offset:+.514400000000E+07 Hz

Fb Offset:+.558800000000E+07 Hz

R Offset:+.109100000000E+01 Hz

Pressure Coefficients

	Fb**0	Fb**1	Fb**2	Fb**3
Fc**0	+734800964723E+0	+208277477984E-0	-.143942248087E-0	-.783290948655E-1
Fc**1	-.105234827953E+0	-.125605242362E-0	-.956462241848E-1	+218870247925E-1
Fc**2	100000000000E-0	100000000000E-1	000000000000E-1	0.0

Fc**2	+1.106983832158E-0	+4.36860641883E-1	+896788597445E-1	0.0
Fc**3	+482329582134E-1	0.0	0.0	0.0
Fc**4	0.0	0.0	0.0	0.0
Fc**5	0.0	0.0	0.0	0.0

Fb**4

Fb**5

Fc**0	-.144361235951E-1	-.232248758792E-1
Fc**1	+202697085809E-1	0.0
Fc**2	0.0	0.0
Fc**3	0.0	0.0
Fc**4	0.0	0.0
Fc**5	0.0	0.0

Temperature Coefficients

Fc**0

Fc**1

Fc**2

Fc**3

Fb**0	+1.115485666346E+0	-.342196371277E-0	+603305156909E-0	+306297856132E-1
Fb**1	-.600477957756E-0	+174633919562E-0	+131261546994E-1	0.0
Fb**2	-.315339965074E-0	+340400216652E-1	+754425145296E-1	0.0
Fb**3	-.284775352041E-1	+705373792446E-1	0.0	0.0
Fb**4	-.321724943045E-1	+104168044515E-2	0.0	0.0
Fb**5	-.902566114628E-2	0.0	0.0	0.0

Fc**4

Fc**5

Fb**0	0.0	0.0
Fb**1	0.0	0.0
Fb**2	0.0	0.0
Fb**3	0.0	0.0
Fb**4	0.0	0.0
Fb**5	0.0	0.0

Clock Coefficients

F'b/F'c**0	+517531873518E+0
F'b/F'c**1	+426282259060E+0
F'b/F'c**2	+864859738720E+0
F'b/F'c**3	-.963231136532E+1
F'b/F'c**4	-.335230412465E+1
F'b/F'c**5	+202128670584E+1

Vert Strain Gauge (Single Probe Module 1)

Serial Number: 97143
Range: 10K
Calibration Date: 10/28/03
Mean Quadratic Deviation: 0.5883
Offset: 0.0000 PSI
Calibration Pressure Unit: PSIG
Calibration Temperature Unit: DEGC

	G	H	I	J
0	-3.805166e+002	9.930522e-001	9.818340e-007	-3.910126e-011
1	-5.379034e-001	6.116606e-005	-1.668232e-009	-5.810440e-014
2	3.942042e-003	-4.275530e-007	3.549454e-011	-2.347150e-016
3	-8.111149e-006	8.114582e-010	-1.168776e-013	0.000000e+000

Vert Strain Gauge (Single Probe Module 2)

Serial Number: 180581
Range: 10K
Calibration Date: 01/12/04
Mean Quadratic Deviation: 0.3681
Offset: 0.0000 PSI
Calibration Pressure Unit: PSIG
Calibration Temperature Unit: DEGC

	G	H	I	J
0	-3.495209e+002	1.003714e+000	-4.025600e-007	2.082466e-012
1	-2.279210e-002	-2.994821e-005	2.289856e-009	-1.960352e-013
2	1.501536e-004	1.468164e-007	-6.253540e-012	1.004908e-015
3	1.532893e-006	-1.279974e-010	-3.971652e-014	0.000000e+000

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Live Fluid Analyzer Wellsite Calibration – Spectrometer Channels							
Master: 14-Mar-2004 23:10 Before: 30-Mar-2004 18:49							
Dark Mode – 0	0.02500	0.02509	0.02518	N/A	N/A	N/A	V
Dark Mode – 1	0.02500	0.02526	0.02534	N/A	N/A	N/A	V
Dark Mode – 2	0.02500	0.02541	0.02544	N/A	N/A	N/A	V
Dark Mode – 3	0.02500	0.02508	0.02514	N/A	N/A	N/A	V
Dark Mode – 4	0.02500	0.02550	0.02546	N/A	N/A	N/A	V
Dark Mode – 5	0.02500	0.02517	0.02517	N/A	N/A	N/A	V
Dark Mode – 6	0.02500	0.02515	0.02519	N/A	N/A	N/A	V
Dark Mode – 7	0.02500	0.02539	0.02545	N/A	N/A	N/A	V
Dark Mode – 8	0.02500	0.02517	0.02523	N/A	N/A	N/A	V
Dark Mode – 9	0.02500	0.02522	0.02523	N/A	N/A	N/A	V

Source Mode – 0	0	0.8702	0.8633	N/A	N/A	N/A	V
Source Mode – 1	0	1.101	1.076	N/A	N/A	N/A	V
Source Mode – 2	0	0.9797	0.9615	N/A	N/A	N/A	V
Source Mode – 3	0	0.7697	0.7566	N/A	N/A	N/A	V
Source Mode – 4	0	1.011	1.002	N/A	N/A	N/A	V
Source Mode – 5	0	0.8168	0.8122	N/A	N/A	N/A	V
Source Mode – 6	0	0.8854	0.8803	N/A	N/A	N/A	V
Source Mode – 7	0	1.086	1.080	N/A	N/A	N/A	V
Source Mode – 8	0	0.7531	0.7480	N/A	N/A	N/A	V
Source Mode – 9	0	1.478	1.461	N/A	N/A	N/A	V

Live Fluid Analyzer Wellsite Calibration – Gas Detector Channels

Master: 14–Mar–2004 23:10 Before: 30–Mar–2004 18:49							
Dark Mode – 0	0.02500	0.02515	0.02514	N/A	N/A	N/A	V
Dark Mode – 1	0.02500	0.02494	0.02492	N/A	N/A	N/A	V
Dark Mode – 2	0.02500	0.02521	0.02527	N/A	N/A	N/A	V
Dark Mode – 3	0.02500	0.02524	0.02523	N/A	N/A	N/A	V
Dark Mode – 4	0.02500	0.02523	0.02518	N/A	N/A	N/A	V
Dark Mode – 5	0.02500	0.02509	0.02511	N/A	N/A	N/A	V

Live Fluid Analyzer Wellsite Calibration – Gas Detector Source Intensity

Master: 14–Mar–2004 23:10 Before: 30–Mar–2004 18:49							
Source Intensity Dark Mode	0.02600	0.02779	0.02764	N/A	N/A	N/A	V
Source Intensity Source Mode	0.2500	0.2856	0.2504	N/A	N/A	N/A	V

Live Fluid Analyzer Master Calibration – Spectrometer

Master: 14–Mar–2004 22:36							
Dry Dark Mode – 0	0.02500	0.02509	--	--	--	--	V
Dry Dark Mode – 1	0.02500	0.02526	--	--	--	--	V
Dry Dark Mode – 2	0.02500	0.02541	--	--	--	--	V
Dry Dark Mode – 3	0.02500	0.02508	--	--	--	--	V
Dry Dark Mode – 4	0.02500	0.02550	--	--	--	--	V
Dry Dark Mode – 5	0.02500	0.02517	--	--	--	--	V
Dry Dark Mode – 6	0.02500	0.02515	--	--	--	--	V
Dry Dark Mode – 7	0.02500	0.02539	--	--	--	--	V
Dry Dark Mode – 8	0.02500	0.02517	--	--	--	--	V
Dry Dark Mode – 9	0.02500	0.02522	--	--	--	--	V
Dry Source Mode – 0	0	0.8702	--	--	--	--	V
Dry Source Mode – 1	0	1.101	--	--	--	--	V
Dry Source Mode – 2	0	0.9797	--	--	--	--	V
Dry Source Mode – 3	0	0.7697	--	--	--	--	V
Dry Source Mode – 4	0	1.011	--	--	--	--	V
Dry Source Mode – 5	0	0.8168	--	--	--	--	V
Dry Source Mode – 6	0	0.8854	--	--	--	--	V
Dry Source Mode – 7	0	1.086	--	--	--	--	V
Dry Source Mode – 8	0	0.7531	--	--	--	--	V
Dry Source Mode – 9	0	1.478	--	--	--	--	V
Dry Measure Mode – 0	0	2.179	--	--	--	--	V
Dry Measure Mode – 1	0	2.216	--	--	--	--	V
Dry Measure Mode – 2	0	2.079	--	--	--	--	V
Dry Measure Mode – 3	0	1.911	--	--	--	--	V
Dry Measure Mode – 4	0	2.301	--	--	--	--	V
Dry Measure Mode – 5	0	2.305	--	--	--	--	V
Dry Measure Mode – 6	0	2.333	--	--	--	--	V
Dry Measure Mode – 7	0	2.370	--	--	--	--	V
Dry Measure Mode – 8	0	1.520	--	--	--	--	V
Dry Measure Mode – 9	0	2.161	--	--	--	--	V
Oil Dark Mode – 0	0.02500	0.02518	--	--	--	--	V
Oil Dark Mode – 1	0.02500	0.02534	--	--	--	--	V
Oil Dark Mode – 2	0.02500	0.02548	--	--	--	--	V
Oil Dark Mode – 3	0.02500	0.02506	--	--	--	--	V
Oil Dark Mode – 4	0.02500	0.02548	--	--	--	--	V
Oil Dark Mode – 5	0.02500	0.02527	--	--	--	--	V
Oil Dark Mode – 6	0.02500	0.02520	--	--	--	--	V
Oil Dark Mode – 7	0.02500	0.02545	--	--	--	--	V
Oil Dark Mode – 8	0.02500	0.02520	--	--	--	--	V
Oil Dark Mode – 9	0.02500	0.02526	--	--	--	--	V
Oil Source Mode – 0	0	0.8638	--	--	--	--	V
Oil Source Mode – 1	0	1.083	--	--	--	--	V
Oil Source Mode – 2	0	0.9658	--	--	--	--	V
Oil Source Mode – 3	0	0.7610	--	--	--	--	V
Oil Source Mode – 4	0	1.002	--	--	--	--	V
Oil Source Mode – 5	0	0.8098	--	--	--	--	V
Oil Source Mode – 6	0	0.8784	--	--	--	--	V
Oil Source Mode – 7	0	1.078	--	--	--	--	V
Oil Source Mode – 8	0	0.7475	--	--	--	--	V
Oil Source Mode – 9	0	1.470	--	--	--	--	V
Oil Measure Mode – 0	1.000	2.008	--	--	--	--	V
Oil Measure Mode – 1	1.000	2.484	--	--	--	--	V
Oil Measure Mode – 2	1.000	2.350	--	--	--	--	V
Oil Measure Mode – 3	1.000	2.198	--	--	--	--	V
Oil Measure Mode – 4	1.000	2.634	--	--	--	--	V

Oil Measure Mode – 4	1.000	2.593	--	--	--	--	V
Oil Measure Mode – 5	1.000	2.593	--	--	--	--	V
Oil Measure Mode – 6	1.000	2.312	--	--	--	--	V
Oil Measure Mode – 7	1.000	2.598	--	--	--	--	V
Oil Measure Mode – 8	1.000	0.2642	--	--	--	--	V
Oil Measure Mode – 9	1.000	1.603	--	--	--	--	V
Water Dark Mode – 0	0.02500	0.02518	--	--	--	--	V
Water Dark Mode – 1	0.02500	0.02531	--	--	--	--	V
Water Dark Mode – 2	0.02500	0.02546	--	--	--	--	V
Water Dark Mode – 3	0.02500	0.02517	--	--	--	--	V
Water Dark Mode – 4	0.02500	0.02551	--	--	--	--	V
Water Dark Mode – 5	0.02500	0.02522	--	--	--	--	V
Water Dark Mode – 6	0.02500	0.02518	--	--	--	--	V
Water Dark Mode – 7	0.02500	0.02552	--	--	--	--	V
Water Dark Mode – 8	0.02500	0.02524	--	--	--	--	V
Water Dark Mode – 9	0.02500	0.02529	--	--	--	--	V
Water Source Mode – 0	0	0.8627	--	--	--	--	V
Water Source Mode – 1	0	1.082	--	--	--	--	V
Water Source Mode – 2	0	0.9654	--	--	--	--	V
Water Source Mode – 3	0	0.7606	--	--	--	--	V
Water Source Mode – 4	0	1.002	--	--	--	--	V
Water Source Mode – 5	0	0.8090	--	--	--	--	V
Water Source Mode – 6	0	0.8768	--	--	--	--	V
Water Source Mode – 7	0	1.076	--	--	--	--	V
Water Source Mode – 8	0	0.7475	--	--	--	--	V
Water Source Mode – 9	0	1.469	--	--	--	--	V
Water Measure Mode – 0	1.000	0.7121	--	--	--	--	V
Water Measure Mode – 1	1.000	2.347	--	--	--	--	V
Water Measure Mode – 2	1.000	2.227	--	--	--	--	V
Water Measure Mode – 3	1.000	2.080	--	--	--	--	V
Water Measure Mode – 4	1.000	2.449	--	--	--	--	V
Water Measure Mode – 5	1.000	1.947	--	--	--	--	V
Water Measure Mode – 6	1.000	0.02944	--	--	--	--	V
Water Measure Mode – 7	1.000	0.5263	--	--	--	--	V
Water Measure Mode – 8	1.000	0.4556	--	--	--	--	V
Water Measure Mode – 9	1.000	0.02552	--	--	--	--	V

Live Fluid Analyzer Master Calibration – Gas Detector

Master: 14-Mar-2004 22:36

Dry Dark Mode – 0	0.02500	0.02515	--	--	--	--	V
Dry Dark Mode – 1	0.02500	0.02494	--	--	--	--	V
Dry Dark Mode – 2	0.02500	0.02521	--	--	--	--	V
Dry Dark Mode – 3	0.02500	0.02524	--	--	--	--	V
Dry Dark Mode – 4	0.02500	0.02523	--	--	--	--	V
Dry Dark Mode – 5	0.02500	0.02509	--	--	--	--	V
Dry Measure Mode – 0	0	0.1578	--	--	--	--	V
Dry Measure Mode – 1	0	0.2632	--	--	--	--	V
Dry Measure Mode – 2	0	0.4656	--	--	--	--	V
Dry Measure Mode – 3	0	0.4730	--	--	--	--	V
Dry Measure Mode – 4	0	0.4477	--	--	--	--	V
Dry Measure Mode – 5	0	0.3324	--	--	--	--	V
Dry Normalized – 0	0	0.2962	--	--	--	--	V
Dry Normalized – 1	0	0.5321	--	--	--	--	V
Dry Normalized – 2	0	0.9837	--	--	--	--	V
Dry Normalized – 3	0	1.000	--	--	--	--	V
Dry Normalized – 4	0	0.9437	--	--	--	--	V
Dry Normalized – 5	0	0.6863	--	--	--	--	V
Water Dark Mode – 0	0.02500	0.02522	--	--	--	--	V
Water Dark Mode – 1	0.02500	0.02502	--	--	--	--	V
Water Dark Mode – 2	0.02500	0.02528	--	--	--	--	V
Water Dark Mode – 3	0.02500	0.02531	--	--	--	--	V
Water Dark Mode – 4	0.02500	0.02528	--	--	--	--	V
Water Dark Mode – 5	0.02500	0.02515	--	--	--	--	V
Water Measure Mode – 0	1.000	0.1422	--	--	--	--	V
Water Measure Mode – 1	1.000	0.1246	--	--	--	--	V
Water Measure Mode – 2	1.000	0.08575	--	--	--	--	V
Water Measure Mode – 3	1.000	0.06863	--	--	--	--	V
Water Measure Mode – 4	1.000	0.07309	--	--	--	--	V
Water Measure Mode – 5	1.000	0.08004	--	--	--	--	V

Live Fluid Analyzer Master Calibration – Gas Detector Source Intensity

Master: 14-Mar-2004 23:10

Source Intensity Dark Mode	0.02600	0.02779	--	--	--	--	V
Source Intensity Source Mode	0.2500	0.2856	--	--	--	--	V

Live Fluid Analyzer Master Calibration – Absorption Coefficients

Master: 14-Mar-2004 22:37

Oil Absorption Coefficient – 0	0	0.03597	--	--	--	--	V
Oil Absorption Coefficient – 1	0	-0.05020	--	--	--	--	V
Oil Absorption Coefficient – 2	0	-0.05390	--	--	--	--	V
Oil Absorption Coefficient – 3	0	-0.06158	--	--	--	--	V
Oil Absorption Coefficient – 4	0	-0.05925	--	--	--	--	V

Oil Absorption Coefficient – 5	0	-0.05159	--	--	--	--	V
Oil Absorption Coefficient – 6	0	0.003937	--	--	--	--	V
Oil Absorption Coefficient – 7	0	-0.04017	--	--	--	--	V
Oil Absorption Coefficient – 8	0	0.7960	--	--	--	--	V
Oil Absorption Coefficient – 9	0	0.1316	--	--	--	--	V
Water Absorption Coefficient – 0	0	0.4964	--	--	--	--	V
Water Absorption Coefficient – 1	0	-0.02534	--	--	--	--	V
Water Absorption Coefficient – 2	0	-0.03024	--	--	--	--	V
Water Absorption Coefficient – 3	0	-0.03719	--	--	--	--	V
Water Absorption Coefficient – 4	0	-0.02737	--	--	--	--	V
Water Absorption Coefficient – 5	0	0.07430	--	--	--	--	V
Water Absorption Coefficient – 6	0	2.733	--	--	--	--	V
Water Absorption Coefficient – 7	0	0.6705	--	--	--	--	V
Water Absorption Coefficient – 8	0	0.5407	--	--	--	--	V
Water Absorption Coefficient – 9	0	3.982	--	--	--	--	V

Scintillation Gamma-Ray – L Wellsite Calibration – Detector Calibration

Before: 30–Mar–2004 18:50

Gamma Ray Background	30.00	N/A	9.335	N/A	N/A	N/A	GAPI
Gamma Ray (Jig – Bkg)	153.2	N/A	153.2	N/A	N/A	13.93	GAPI
Gamma Ray (Calibrated)	153.0	N/A	153.0	N/A	N/A	15.00	GAPI

Live Fluid Analyzer / Equipment Identification

Primary Equipment:

Live Fluid Analyzer (TW)

MRFA – EA

8090

Auxiliary Equipment:







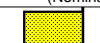



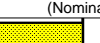



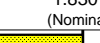




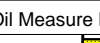
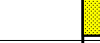



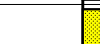


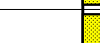

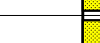


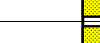

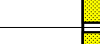


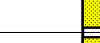







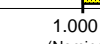
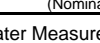


















Live Fluid Analyzer Wellsite Calibration									
Spectrometer Channels									
Idx	Phase	Dark Mode V	Value	Idx	Phase	Source Mode V	Value		
0	Master		0.02509	0	Master		0.8702		
	Before		0.02518		Before		0.8633		
1	Master		0.02526	1	Master		1.101	0.2000 (Minimum)	1.400 (Nominal) 2.600 (Maximum)
	Before		0.02534		Before		1.076		
2	Master		0.02541	2	Master		0.9797	0.2000 (Minimum)	1.950 (Nominal) 3.700 (Maximum)
	Before		0.02544		Before		0.9615		
3	Master		0.02508	3	Master		0.7697	0.2000 (Minimum)	1.950 (Nominal) 3.700 (Maximum)
	Before		0.02514		Before		0.7566		
4	Master		0.02550	4	Master		1.011	0.2000 (Minimum)	1.700 (Nominal) 3.200 (Maximum)
	Before		0.02546		Before		1.002		
5	Master		0.02517	5	Master		0.8168	0.2000 (Minimum)	1.950 (Nominal) 3.700 (Maximum)
	Before		0.02517		Before		0.8122		
6	Master		0.02515	6	Master		0.8854	0.2000 (Minimum)	1.950 (Nominal) 3.700 (Maximum)
	Before		0.02519		Before		0.8803		
7	Master		0.02539	7	Master		1.086	0.2000 (Minimum)	1.950 (Nominal) 3.700 (Maximum)
	Before		0.02545		Before		1.080		
8	Master		0.02517	8	Master			0.2000 (Minimum)	1.950 (Nominal) 3.700 (Maximum)
	Before		0.02523		Before				
9	Master		0.02522	9	Master				
	Before		0.02523		Before				
0.01700 (Minimum) 0.02500 (Nominal) 0.03300 (Maximum)				0.2000 (Minimum) 1.950 (Nominal) 3.700 (Maximum)					

	8	Master	<div><div></div></div>	0.7531
		Before	<div><div></div></div>	0.7480
		0.2000 (Minimum)	1.950 (Nominal)	2.600 (Maximum)
	9	Master	<div><div></div></div>	1.478
		Before	<div><div></div></div>	1.461
		0.2000 (Minimum)	1.950 (Nominal)	3.700 (Maximum)
Master: 14-Mar-2004 23:10				
Before: 30-Mar-2004 18:49				

Live Fluid Analyzer Wellsite Calibration			
Gas Detector Channels			
Idx	Phase	Dark Mode V	Value
0	Master	<div><div></div></div>	0.02515
	Before	<div><div></div></div>	0.02514
1	Master	<div><div></div></div>	0.02494
	Before	<div><div></div></div>	0.02492
2	Master	<div><div></div></div>	0.02521
	Before	<div><div></div></div>	0.02527
3	Master	<div><div></div></div>	0.02524
	Before	<div><div></div></div>	0.02523
4	Master	<div><div></div></div>	0.02523
	Before	<div><div></div></div>	0.02518
5	Master	<div><div></div></div>	0.02509
	Before	<div><div></div></div>	0.02511
		0.01700 (Minimum)	0.02500 (Nominal)
			0.03300 (Maximum)
Master: 14-Mar-2004 23:10			
Before: 30-Mar-2004 18:49			















Live Fluid Analyzer Wellsite Calibration					
Gas Detector Source Intensity					
Phase	Source Intensity	Dark Mode V	Value	Phase	Source Intensity
Master	<div><div></div></div>		0.02779	Master	<div><div></div></div>
Before	<div><div></div></div>		0.02764	Before	<div><div></div></div>
	0.01700 (Minimum)	0.02600 (Nominal)	0.03500 (Maximum)		0.1900 (Minimum)
					0.2500 (Nominal)
					0.3100 (Maximum)
Master: 14-Mar-2004 23:10					
Before: 30-Mar-2004 18:49					

Live Fluid Analyzer Master Calibration														
Spectrometer														
Idx	Dry Dark Mode V			Value	Idx	Dry Source Mode V			Value	Idx	Dry Measure Mode V			Value
0	<div><div></div></div>			0.02509	0	<div><div></div></div>			0.8702	0	<div><div></div></div>			2.179
1	<div><div></div></div>			0.02526	0.2000 (Minimum)	1.400 (Nominal)		2.600 (Maximum)		2.000 (Minimum)	2.600 (Nominal)		3.200 (Maximum)	
2	<div><div></div></div>			0.02541	1	<div><div></div></div>			1.101	1	<div><div></div></div>			2.216
3	<div><div></div></div>			0.02508	0.2000 (Minimum)	1.950 (Nominal)		3.700 (Maximum)		2.000 (Minimum)	2.600 (Nominal)		3.200 (Maximum)	
4	<div><div></div></div>			0.02550	2	<div><div></div></div>			0.9797	2	<div><div></div></div>			2.079
5	<div><div></div></div>			0.02517	0.2000 (Minimum)	1.950 (Nominal)		3.700 (Maximum)		2.000 (Minimum)	2.600 (Nominal)		3.200 (Maximum)	
6	<div><div></div></div>			0.02515	3	<div><div></div></div>			0.7697	3	<div><div></div></div>			1.911
7	<div><div></div></div>			0.02539	0.2000 (Minimum)	1.700 (Nominal)		3.200 (Maximum)		1.700 (Minimum)	2.300 (Nominal)		2.900 (Maximum)	
8	<div><div></div></div>			0.02517	4	<div><div></div></div>			1.011	4	<div><div></div></div>			2.301
9	<div><div></div></div>			0.02522	0.2000 (Minimum)	1.950 (Nominal)		3.700 (Maximum)		2.000 (Minimum)	2.600 (Nominal)		3.200 (Maximum)	
0.01700 (Minimum)	0.02500 (Nominal)	0.03300 (Maximum)		5	<div><div></div></div>			0.8168	5	<div><div></div></div>			2.305	

Oil Dark Mode V			Value	0.2000 (Minimum)	1.950 (Nominal)	3.700 (Maximum)	2.000 (Minimum)	2.600 (Nominal)	3.200 (Maximum)
0		0.02518	6		0.8854	6		2.333	
1		0.02534	0.2000 (Minimum)	1.950 (Nominal)	3.700 (Maximum)	2.000 (Minimum)	2.600 (Nominal)	3.200 (Maximum)	
2		0.02548	7		1.086	7		2.370	
3		0.02506	0.2000 (Minimum)	1.950 (Nominal)	3.700 (Maximum)	2.000 (Minimum)	2.600 (Nominal)	3.200 (Maximum)	
4		0.02548	8		0.7531	8		1.520	
5		0.02527	0.2000 (Minimum)	1.950 (Nominal)	2.600 (Maximum)	1.350 (Minimum)	1.830 (Nominal)	2.300 (Maximum)	
6		0.02520	9		1.478	9		2.161	
7		0.02545	0.2000 (Minimum)	1.950 (Nominal)	3.700 (Maximum)	2.000 (Minimum)	2.600 (Nominal)	3.200 (Maximum)	
8		0.02520	Idx Oil Source Mode V Value			Idx Oil Measure Mode V Value			
9		0.02526	0		0.8638	0		2.008	
0.01700 (Minimum)	0.02500 (Nominal)	0.03300 (Maximum)	0.2000 (Minimum)	1.400 (Nominal)	2.600 (Maximum)	1		2.484	
Idx	Water Dark Mode V	Value	1		1.083	2		2.350	
0		0.02518	0.2000 (Minimum)	1.950 (Nominal)	3.700 (Maximum)	3		2.198	
1		0.02531	2		0.9658	4		2.634	
2		0.02546	0.2000 (Minimum)	1.950 (Nominal)	3.700 (Maximum)	5		2.593	
3		0.02517	3		0.7610	6		2.312	
4		0.02551	0.2000 (Minimum)	1.700 (Nominal)	3.200 (Maximum)	7		2.598	
5		0.02522	4		1.002	8		0.2642	
6		0.02518	0.2000 (Minimum)	1.950 (Nominal)	3.700 (Maximum)	9		1.603	
7		0.02552	5		0.8098	0 (Minimum) 1.000 (Nominal) 4.500 (Maximum)			
8		0.02524	0.2000 (Minimum)	1.950 (Nominal)	3.700 (Maximum)	Idx Water Measure Mode V Value			
9		0.02529	6		0.8784	0		0.7121	
0.01700 (Minimum)	0.02500 (Nominal)	0.03300 (Maximum)	0.2000 (Minimum)	1.950 (Nominal)	3.700 (Maximum)	1		2.347	
			7		1.078	2		2.227	
			0.2000 (Minimum)	1.950 (Nominal)	3.700 (Maximum)	3		2.080	
			8		0.7475	4		2.449	
			0.2000 (Minimum)	1.950 (Nominal)	2.600 (Maximum)	5		1.947	
			9		1.470	6		0.02944	
			0.2000 (Minimum)	1.950 (Nominal)	3.700 (Maximum)	7		0.5263	
			Idx Water Source Mode V Value			8		0.4556	
			0		0.8627	9		0.02552	
			0.2000 (Minimum)	1.400 (Nominal)	2.600 (Maximum)	0 (Minimum) 1.000 (Nominal) 4.500 (Maximum)			
			1		1.082				
			0.2000 (Minimum)	1.950 (Nominal)	3.700 (Maximum)				
			2		0.9654				
			0.2000 (Minimum)	1.950 (Nominal)	3.700 (Maximum)				
			3		0.7606				
			0.2000 (Minimum)	1.700 (Nominal)	3.200 (Maximum)				
			4		1.002				
			0.2000 (Minimum)	1.950 (Nominal)	3.700 (Maximum)				
			5		0.8090				
			0.2000 (Minimum)	1.950 (Nominal)	3.700 (Maximum)				
			6		0.8768				
0.2000	1.950	3.700							

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3		-0.06158	3		-0.03719
-0.1000 (Minimum)	-0.06000 (Nominal)	-0.02000 (Maximum)	-0.08000 (Minimum)	-0.04000 (Nominal)	0 (Maximum)
4		-0.05925	4		-0.02737
-0.1000 (Minimum)	-0.06000 (Nominal)	-0.02000 (Maximum)	-0.07000 (Minimum)	-0.03000 (Nominal)	0.010000 (Maximum)
5		-0.05159	5		0.07430
-0.1000 (Minimum)	-0.06500 (Nominal)	-0.03000 (Maximum)	0.02000 (Minimum)	0.06500 (Nominal)	0.1100 (Maximum)
6		0.003937	6		2.733
-0.03000 (Minimum)	0 (Nominal)	0.03000 (Maximum)	2.450 (Minimum)	2.650 (Nominal)	2.850 (Maximum)
7		-0.04017	7		0.6705
-0.08000 (Minimum)	-0.04000 (Nominal)	0 (Maximum)	0.5800 (Minimum)	0.6400 (Nominal)	0.7000 (Maximum)
8		0.7960	8		0.5407
0.6700 (Minimum)	0.7350 (Nominal)	0.8000 (Maximum)	0.4700 (Minimum)	0.5300 (Nominal)	0.5900 (Maximum)
9		0.1316	9		3.982
0.08000 (Minimum)	0.1300 (Nominal)	0.1800 (Maximum)	2.700 (Minimum)	3.000 (Nominal)	50.00 (Maximum)

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Scintillation Gamma-Ray – L / Equipment Identification

Primary Equipment:

Scintillation Gamma Cartridge
Scintillation Gamma Detector

SGC – SA 255
SGD – TAB 2100




Auxiliary Equipment:

Scintillation Gamma Housing
Gamma Source Radioactive

SGH – K 1619
GSR – U/Y

Scintillation Gamma-Ray – L Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background	GAPI	Value	Phase	Gamma Ray (Jig – Bkg)	GAPI	Value	Phase	Gamma Ray (Calibrated)	GAPI	Value
Before			9.335	Before			153.2	Before			153.0
0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		139.3 (Minimum)	153.2 (Nominal)	167.1 (Maximum)		138.0 (Minimum)	153.0 (Nominal)	168.0 (Maximum)	

Before: 30-Mar-2004 18:50

Company: **Esso Australia Pty. Ltd.**

Schlumberger

Well: **Marlin A-6a**
Field: **Turrum**
Rig: **Rig 453**
Country: **Australia**

Modular Reservoir Dynamics Tester
MDT-GR
Pressure Survey and Pump-out Log