

Company: 3D Oil Limited

Well: Wardie-1

Field: Exploration

Rig: West Triton

Country: Australia

MDT-GR  
PRETEST  
Suite 1 Run 2

West Triton  
Exploration  
Vic P/57, Bass Strait  
Wardie-1  
3D Oil Limited

LOCATION		Elev.:	K.B.	38 m
Vic P/57, Bass Strait			G.L.	-39.5 m
N 5771046.028 m, E 554227.625 m			D.F.	38 m
Permanent Datum:	MSL	Elev.:	0 m	
Log Measured From:	Drill Floor	38.0 m	above Perm. Datum	
Drilling Measured From:	Drill Floor			
State: Victoria	Max. Well Deviation 34.9 deg	Longitude E 147 37' 9.793"	Latitude S 38 12' 24.881"	

Logging Date

20-May-2008

Run Number

2

Depth Driller

1766 m

Schlumberger Depth

1760 m

Bottom Log Interval

1681.5 m

Top Log Interval

1573.8 m

Casing Driller Size @ Depth

13.375 in

@

747.2 m

Casing Schlumberger

746.5 m

Bit Size

12.250 in

Type Fluid In Hole

KCl Polymer

Density

1.12 g/cm3

56 s

Fluid Loss

5.2 cm3

9

Source Of Sample

Flow Line

RM @ Measured Temperature

0.112 ohm.m

@

20.2 degC

RMF @ Measured Temperature

0.099 ohm.m

@

19.8 degC

RMC @ Measured Temperature

0.130 ohm.m

@

20.7 degC

Source RMF

RMC

Press

Press

RM @ MRT

0.060 @ 56

0.054

@ 56

Maximum Recorded Temperatures

57 degC

57

57

Circulation Stopped

19-May-2008

Time

17:16

Logger On Bottom

20-May-2008

Time

4:40

Unit Number

41

AUSL

Recorded By

Ashraf Dandi, Malik Jahangir

Witnessed By

Simon Ward, Bill Leask

Run 1

Run 2

[illegible]

## DEPTH SUMMARY LISTING

Date Created: 21-JUL-2008 21:05:52

## Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-H	Type:	CMTD-B/A	Type:	7-46ZV-XS
Serial Number:	796	Serial Number:	1721	Serial Number:	77178
Calibration Date:	29-Jan-2008	Calibration Date:	27-Feb-2008	Length:	7315.20 M
Calibrator Serial Number:	1009	Calibrator Serial Number:	1051	Conveyance Method:	Wireline
Calibration Cable Type:	7-46ZV-XS	Calibration Gain:	0.81	Rig Type:	Offshore_Fixed
Wheel Correction 1:	-5	Calibration Offset:	-610.00		
Wheel Correction 2:	-5				

## Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	78.22 M
Rig Up Length At Bottom:	78.12 M
Rig Up Length Correction:	0.10 M
Stretch Correction:	1.90 M
Tool Zero Check At Surface:	0.90 M

### Depth Control Remarks

1. First Run in hole , all schlumberger depth control procedures followed
2. IDW used as a primary depth reference , Z Chart as a secondary
- 3.
- 4.
- 5.
- 6.

## DISCLAIMER

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## OTHER SERVICES1

OS1: BHC-HRLA-PEX-GF  
OS2:  
OS3:  
OS4:  
OS5:

## REMARKS :

Tool String run as per tool sketch.

Quartz Gauge corrections applied (QGCA=Both, QGFD=1G/C3, QGDA=Deviation).

Large Diameter Probe was used. ECRD Weak Point was used in the head.

Maximum recorded temperature was 57.2 degC obtained from LEH-QT thermometers (3 max reading thermometers run at client request)
Quartz Gauge calibrated on 20-June-2007; Strain Gauge calibrated on 12-Apr-2007.
Did not tag TD. Lowest pretest station was at 1681.5m.
Depth correlated to primary log pass BHC-HRLA-PEX-GR, Suite 1, Run 1, dated 20-May-2008.
18 pretest pressures attempted as per client request from Top to Bottom:
- 9 Good Tests.
- 7 Supercharged.
- 1 Lost Seal.
- 1 Dry Test.
Mud properties taken from Daily Mud Report #11 for 19-May-2008.
Chlorides = 38,000 mg/l.
KCl = 8.0 (% by weight).
Barite = 0.1 (% by vol).

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
		15C0-309			
		0 m			
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

SURFACE EQUIPMENT	
MRPP-AA 666	
GSR-U/Y	
WITM (CTS)-A	

DOWNHOLE EQUIPMENT	
LEH-QT 2800	19.11
LEH-QT	
TCC-BF 1109	18.23
ECH-KC 2653	
TCC-BF 1109	16.88
SGT-L	17.31
SGH-K 403	
SGC-SA 735	
SGD-TAA	
MRPC	15.63
MRPC-CA 619	
PC	13.69
MRMS_1	14.12
BOTT_6-AA 3457	
BOTT_5-AA 3456	
BOTT_4-AA 3455	
BOTT_3-AA 3454	
BOTT_2-AA 3300	
BOTT_1-AA 3349	
MRMS_1-NCB	
MS1	9.67
AFA	10.10
MRFA-FA 8552	
FA-BA	8.12

MRPO\_UD  
MRPOUD-DU-AA  
MRPOUD-CA 492

POUD



4.88

8.55

MRHY\_1  
MRHY\_1-BA 553

HY1

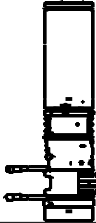


2.31

5.31

MRPQ\_1  
MRLD-CA 119  
MRPQ\_1-DBZ 125

DF  
PQ1-CQG-G HV  
PQ1-RES  
Tension PQ1



TOOL ZERO

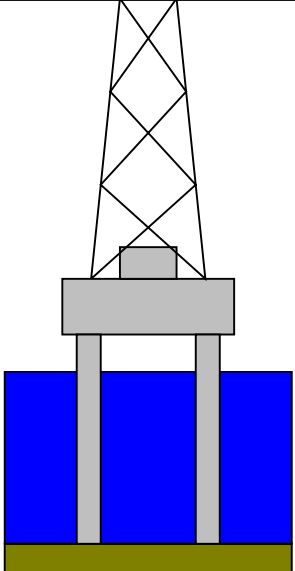

2.74

TOOL BOTTOM

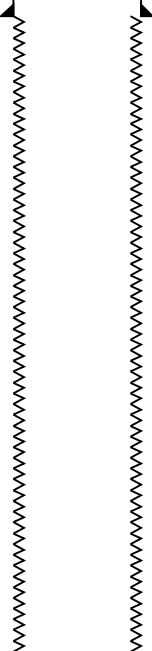
MAXIMUM STRING DIAMETER 4.75 IN  
MEASUREMENTS RELATIVE TO TOOL ZERO  
ALL LENGTHS IN METERS

Client: 3D Oil  
Well: Wardie-1  
Field: Exploration  
State: Victoria  
Country: Australia

Rig Name: West Triton  
Reference Datum: Mean Sea Level  
Elevation: 38.0 m

Production String	(in)		(m)	Well Schematic	(m)		(in)	Casing String
	OD	ID	MD		MD	OD	ID	
Kelly Bushing Elevation Derrick Floor Elevation  Mean Sea Level			38.0					Casing Shoe
			38.0					
			0.0					
					39.5			
					133.0	30.000	28.00	

All depths are  
driller's depths



747.2  
747.2

13.375

12.415

Casing Shoe  
Borehole Segment

1766.0

12.250

Borehole Segment Bottom

Schlumberger

## General Pretest Summary

MAXIS Field Log

Client: 3D Oil Limited  
Field: West Seahorse  
Well: Wardie-1  
Run date: 20-May-2008

Tool: MRPQ\_1-  
Probe Type: Large-Diameter probe  
Gauge: PQQP1  
Gauge Resolution: 0.010 psi

Test	File	Depth M		Drawdown Mobility MD/CP	Mud Pressure Before PSIAAfter PSIA		Last read build-up Pres PSIA	Formation Pressure PSIA	Test Type
8	26	1583.98	1583.98	623.03	2374.06	2371.98	1984.20	1984.20	Volumetric Limited draw-down
10	27	1580.97	1580.97	1.34	2369.35	2369.32	2024.23	2024.23	Supercharged
12	28	1574.46	1574.46	0.74	2358.76	2358.82	1994.16	1994.16	Supercharged

12	28	1574.10	1574.10	0.71	2358.70	2358.82	1991.10	1991.10	Supercharged
14	29	1574.01	1574.01	2.45	2358.16	2358.15	1991.43	1991.43	Supercharged
16	30	1573.79	1573.79	0.76	2357.81	2357.81	1989.97	1989.97	Supercharged
18	31	1578.38	1578.38	0.71	2365.38	2365.25	2017.28	2017.28	Supercharged
20	35	1593.50	1593.50		2388.90	2388.83	1115.79	1115.79	Dry Test
22	36	1601.99	1601.99	12.31	2402.87	2402.95	1986.86	1986.86	Volumetric Limited draw-down
24	37	1609.00	1609.00	34.69	2414.44	2414.40	1991.06	1991.06	Volumetric Limited draw-down
26	38	1613.49	1613.49	17.07	2421.65	2421.64	1996.45	1996.45	Volumetric Limited draw-down
28	39	1623.99	1623.99	3155.88	2438.77	2438.77	2012.74	2012.74	Volumetric Limited draw-down
30	40	1656.48	1656.48	92.80	2491.85	2491.81	2064.46	2064.46	Volumetric Limited draw-down
32	41	1681.45	1681.45	246.12	2533.12	2533.02	2101.91	2101.91	Volumetric Limited draw-down
34	44	1593.70	1593.70	574.82	2389.14	2371.53	1981.85	1981.85	Volumetric Limited draw-down
36	46	1580.93	1580.93	1.07	2343.86	2368.06	2021.63	2021.63	Supercharged
38	47	1580.71	1580.71	0.19	2367.86	2367.84	2003.54	2003.54	Supercharged

Schlumberger

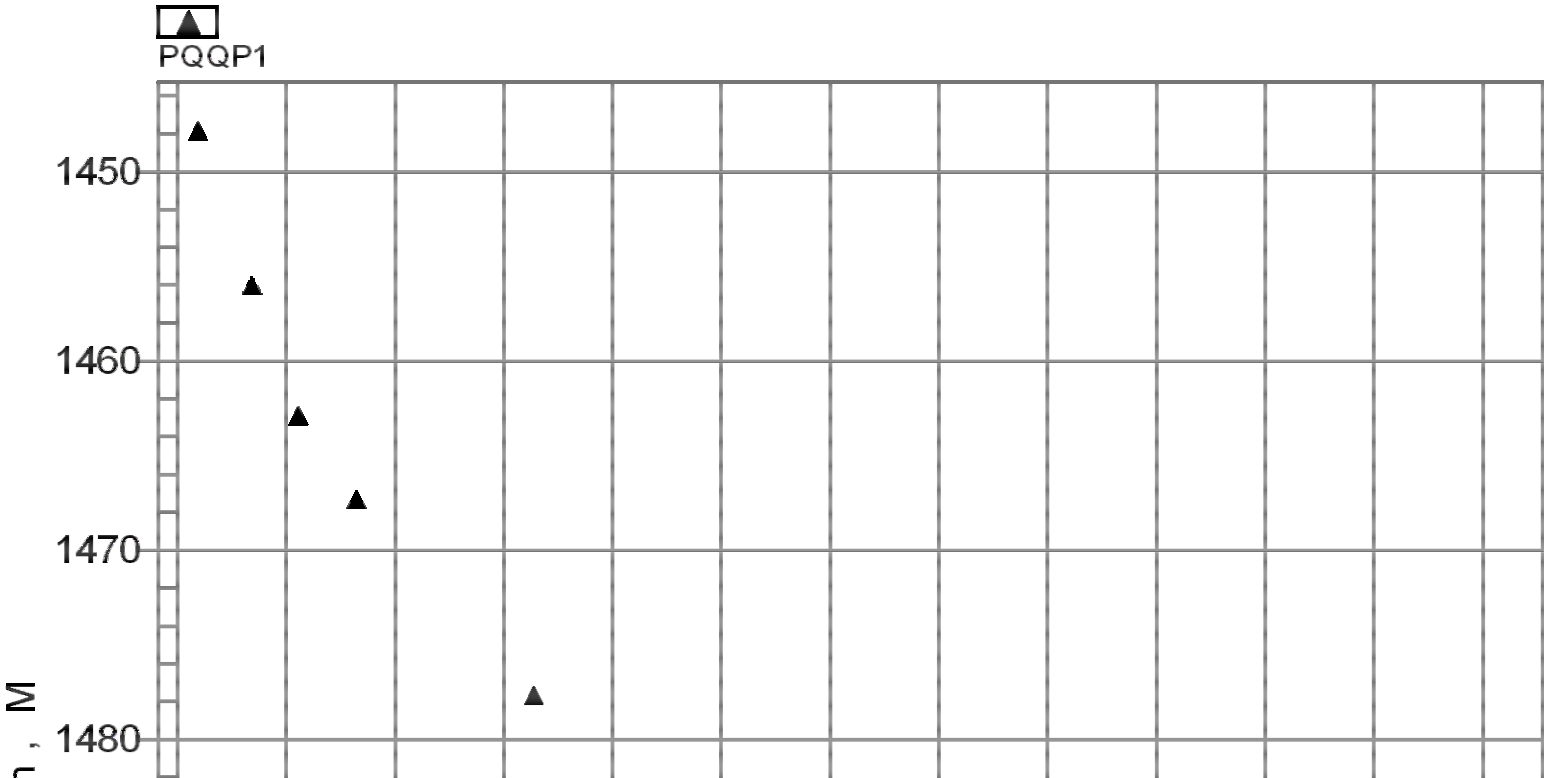
Formation Pressure

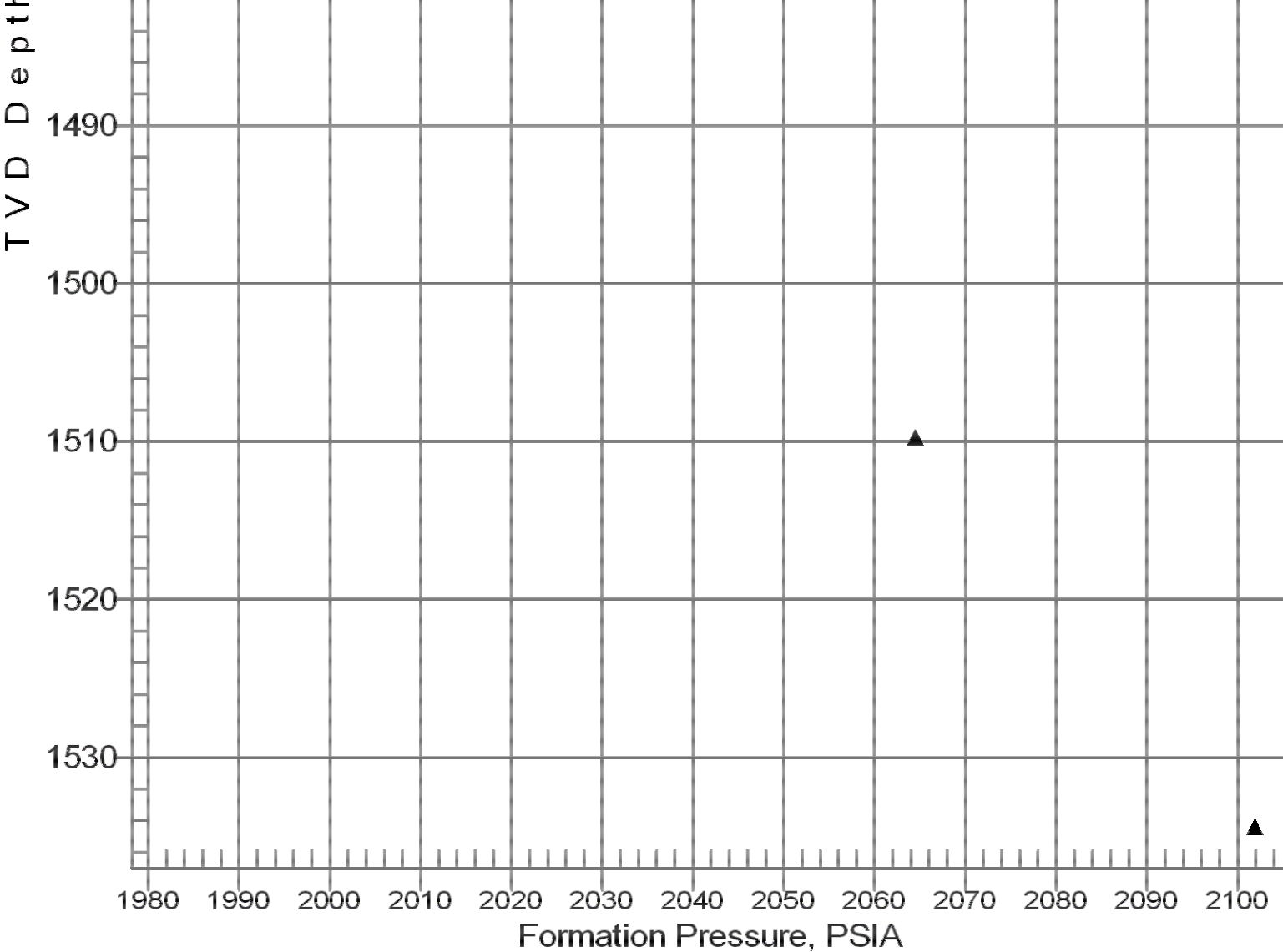
MAXIS Field Log

Depth vs. Formation Pressure

20-May-2008

3D Oil Limited  
West Seahorse  
Wardie-1





**Schlumberger**

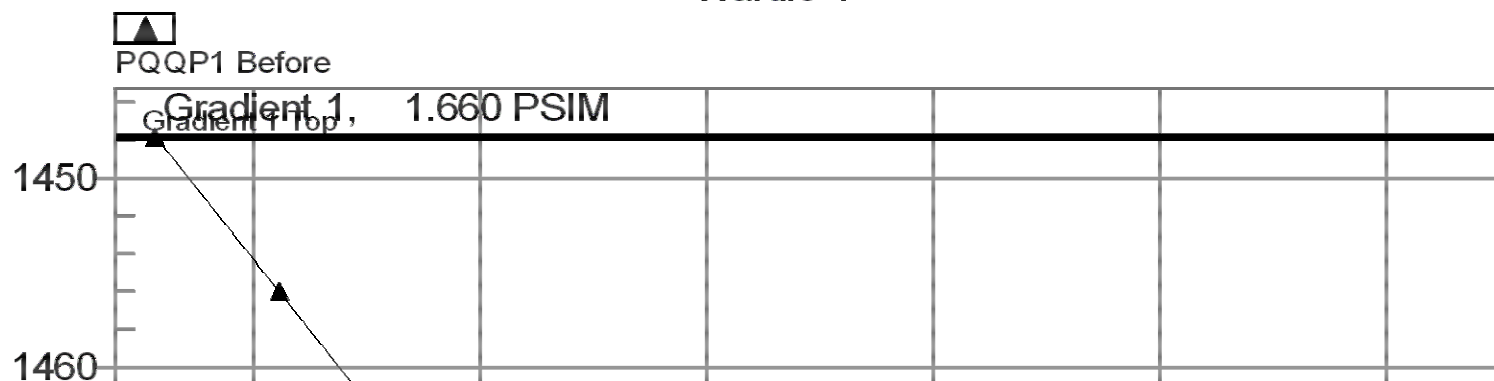
**Mud Pressure**

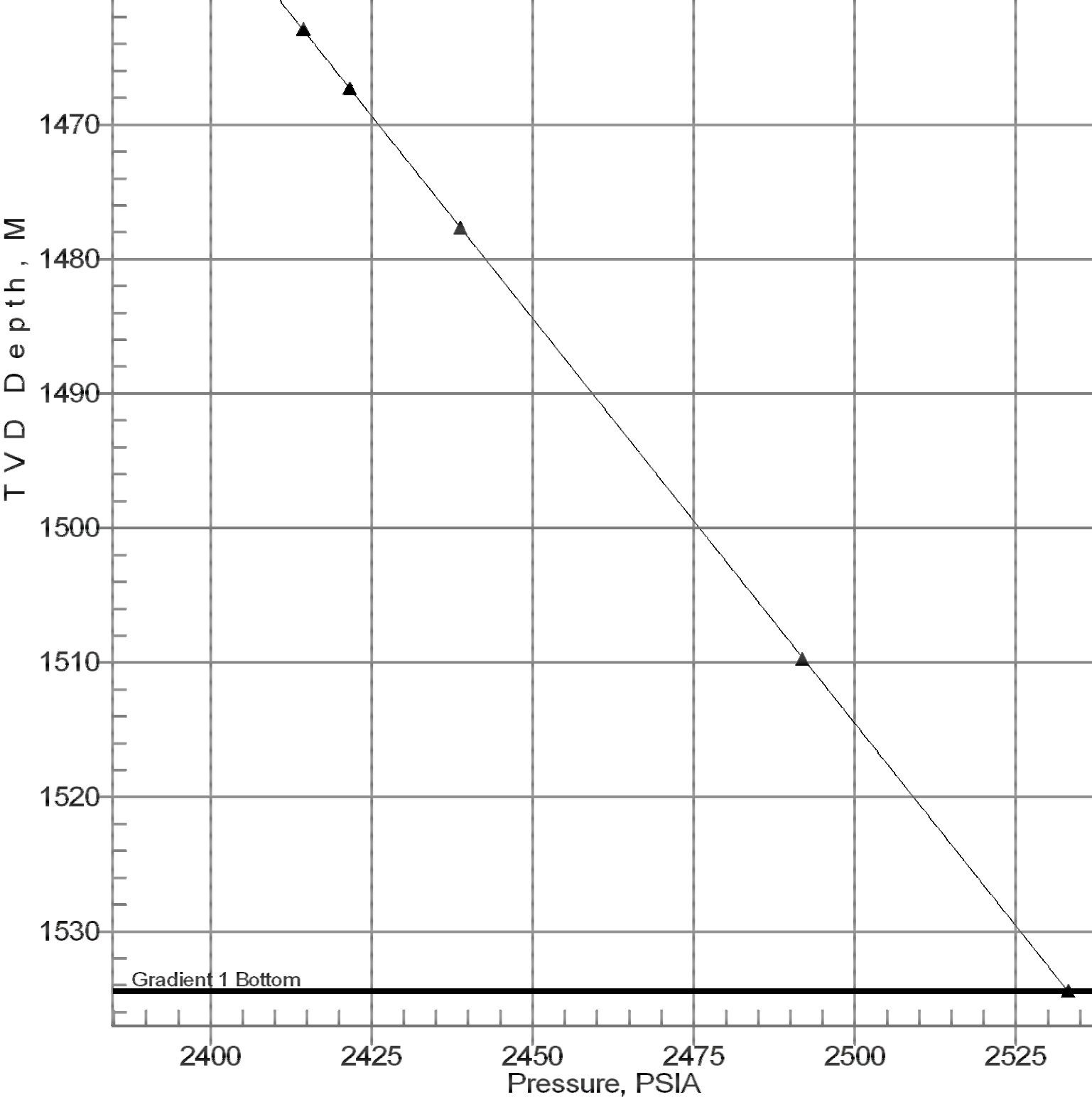
MAXIS Field Log

## Depth vs. Mud Pressure

20-May-2008

3D Oil Limited  
West Seahorse  
Wardie-1





**Schlumberger**

**Formation Mobility**

MAXIS Field Log

**Depth vs. Mobility**

20-May-2008

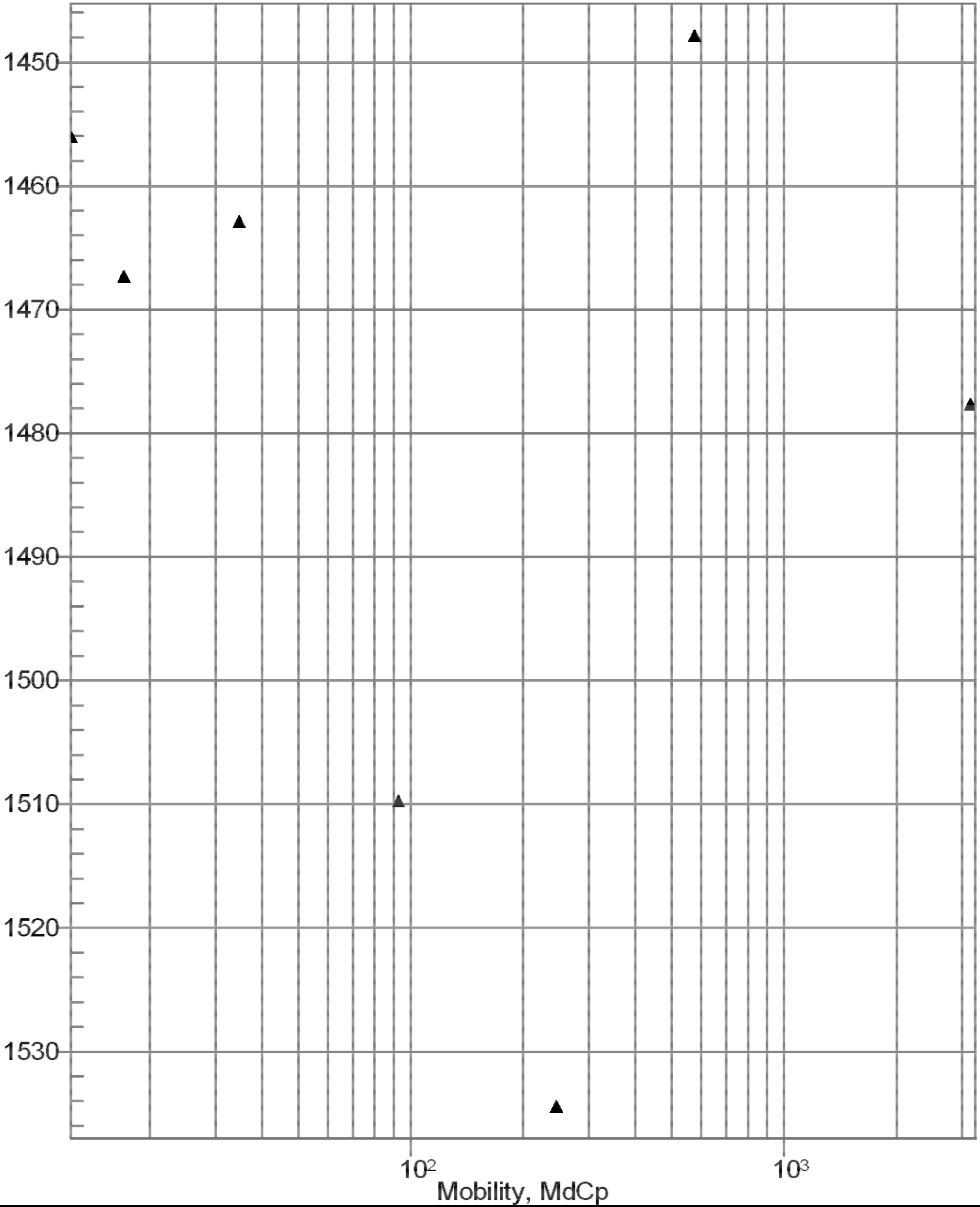
3D Oil Limited  
West Seahorse





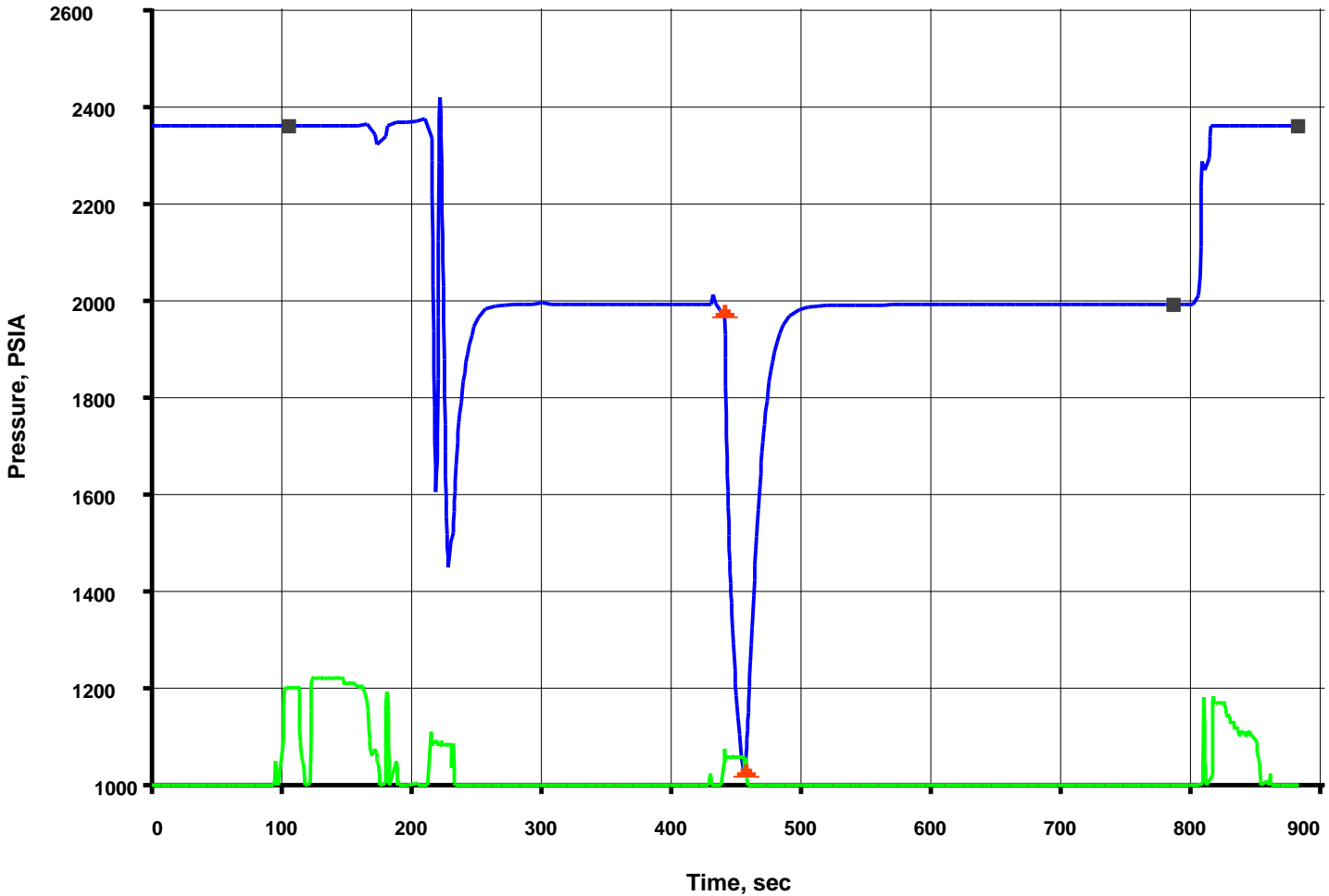
PQQP1

TVD Depth M



# MAXIS Field Log

File 30 Depth, M: 1573.79 Volumetric Limited draw-down - Large-Diameter probe  
 20-May-2008 3D Oil Mud Pressure before test, PSIA: 2357.81  
 West Seahorse Mud Pressure after test, PSIA: 2357.81  
 Wardie-1 Last build-up pressure, PSIA: 1989.97  
 Draw-down mobility, md/cp: 0.8

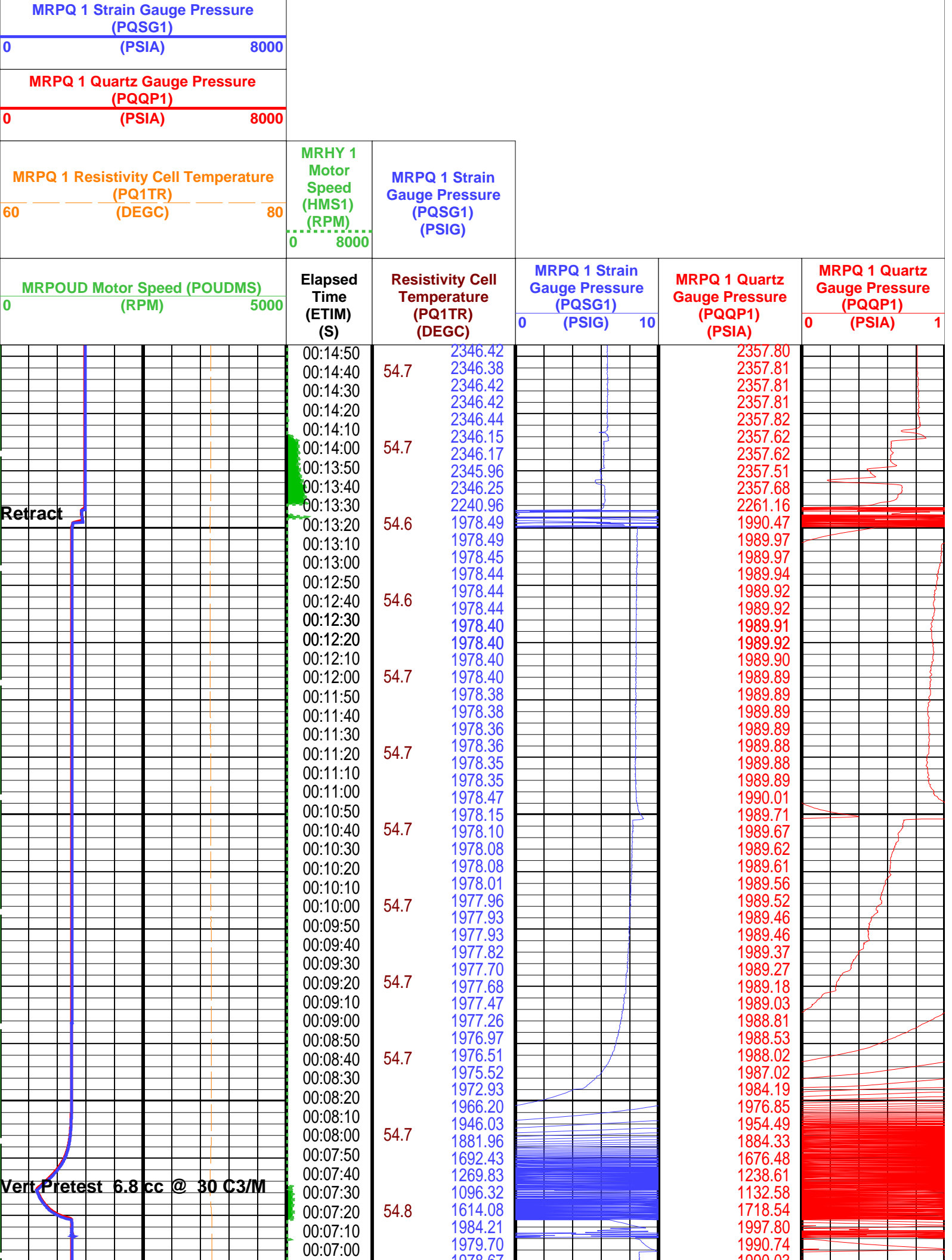


## Output DLIS Files

DEFAULT MDT\_OFA\_030LTP FN:51 PRODUCER 20-May-2008 14:41 1573.8 M 2.3 M

Elapsed Time (s)	Event Summary
809.4	Retract Quick Probe Module (MRPQ) 1
434.4	Vert Pretest 6.8 cc @ 30 C3/M Quick Probe Module (MRPQ) 1
209.7	Vert Pretest 10.1 cc @ 40 C3/M Quick Probe Module (MRPQ) 1
118.2	Probe Set @ 1573.8 M Quick Probe Module (MRPQ) 1

## PIP SUMMARY





MRPQ_1: Quick Probe Module (MRPQ) 1		
QGCA	Quartz Gauge Pressure Correction Applied	BOTH
QGDA	Quartz Gauge Deviation Angle	12 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
AFA: Advanced Fluid Analyzer		
PDCO	Probe Depth Correction Offset	0 M
MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0 M

Format: MRPQ\_Prestest

Vertical Scale: 1" per 60S

Graphics File Created: 20-May-2008 14:41

OP System Version: 15C0-309			
MCM			
MRPQ_1	15C0-309	MRHY_1	15C0-309
MRPO_UD	15C0-309	AFA	15C0-309
MRMS_1	15C0-309	MRPC	15C0-309
SGT-L	15C0-309	TCC-BF	15C0-309

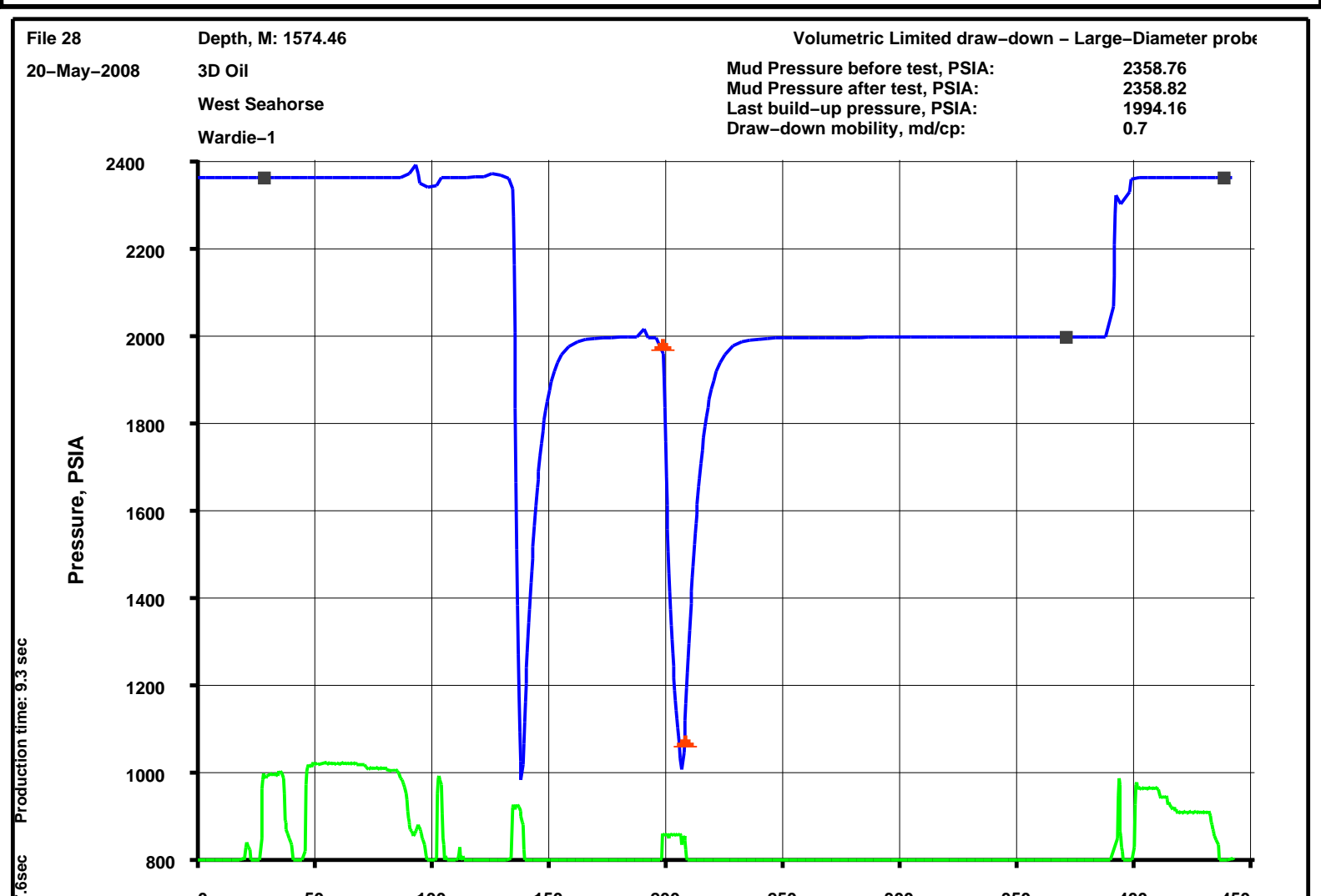
Output DLIS Files			
DEFAULT	MDT_OFA_030LTP	FN:51	PRODUCER 20-May-2008 14:41



Station @ 1574.70m

MD

MAXIS Field Log

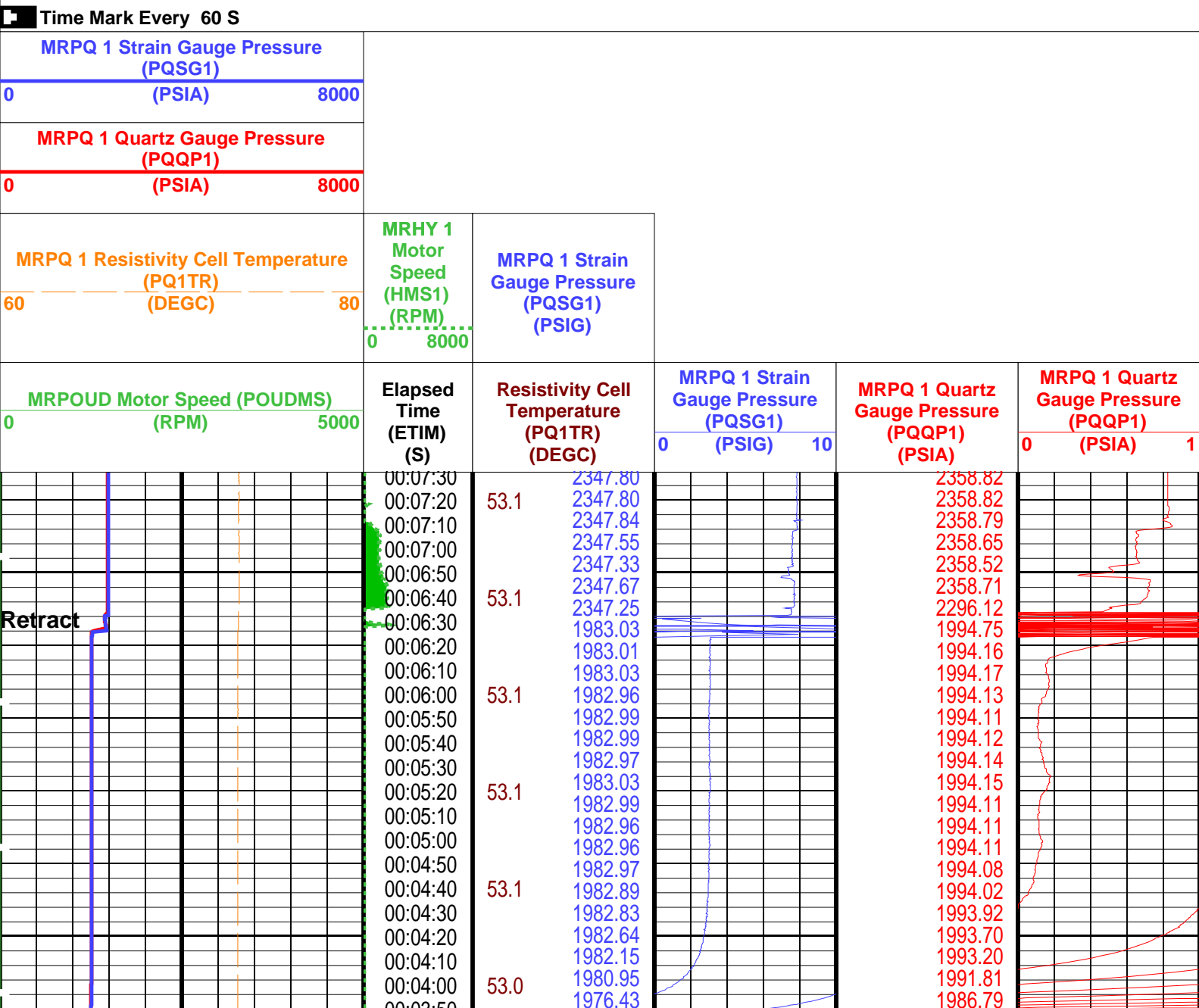


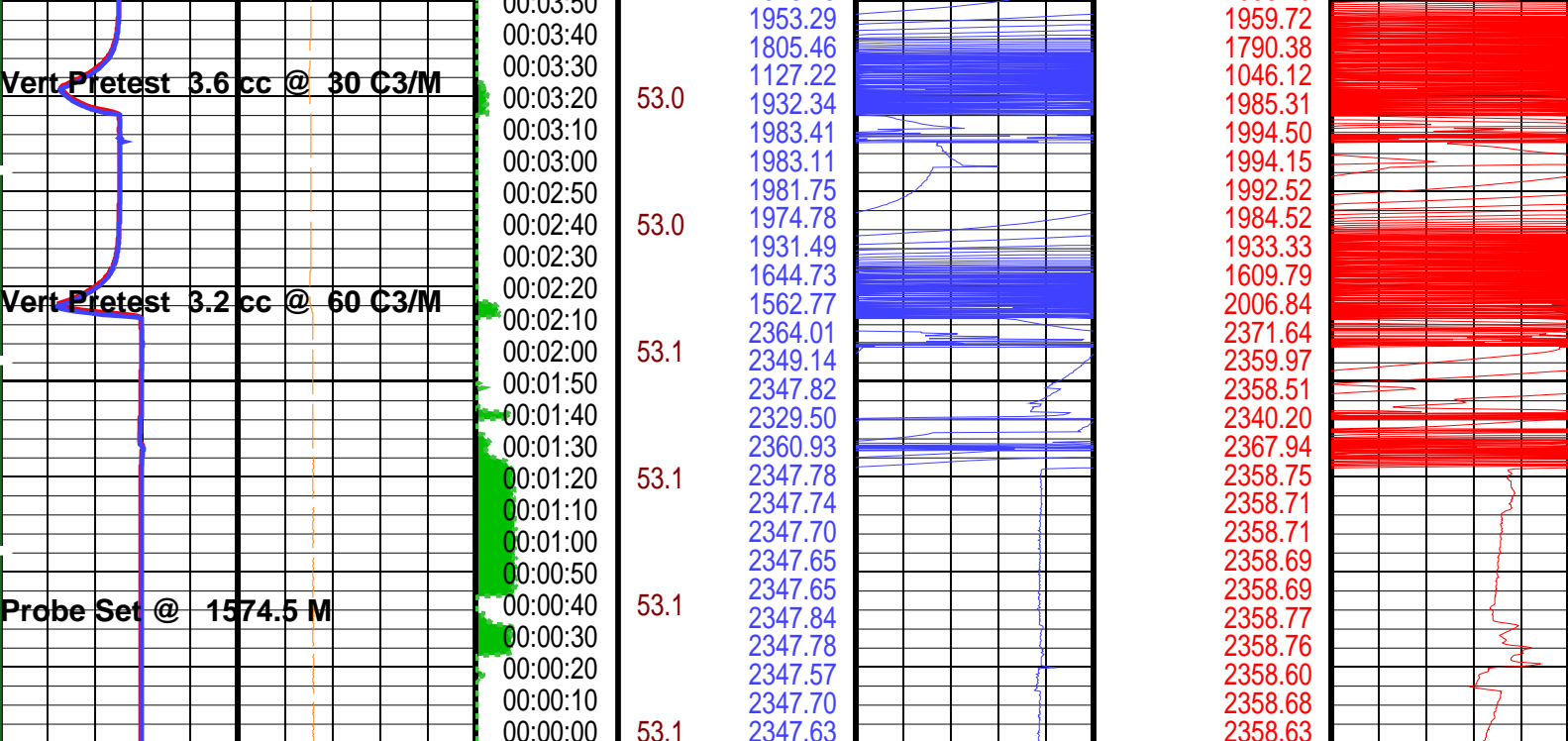
Output DLIS Files

DEFAULTMDT\_OFA\_028LTPFN:49PRODUCER20-May-2008 13:271574.5 M1.2 M

Elapsed Time (s)	Event Summary
394.5	Retract Quick Probe Module (MRPQ) 1
193.2	Vert Pretest 3.6 cc @ 30 C3/M Quick Probe Module (MRPQ) 1
129.0	Vert Pretest 3.2 cc @ 60 C3/M Quick Probe Module (MRPQ) 1
41.7	Probe Set @ 1574.5 M Quick Probe Module (MRPQ) 1

PIP SUMMARY





MRPOUD Motor Speed (POUDMS)		Elapsed Time (ETIM) (S)	Resistivity Cell Temperature (PQ1TR) (DEGC)	MRPQ 1 Strain Gauge Pressure (PQSG1)		MRPQ 1 Quartz Gauge Pressure (PQQP1) (PSIA)	MRPQ 1 Quartz Gauge Pressure (PQQP1)	
0	(RPM)			5000	0		(PSIG)	10
MRPQ 1 Resistivity Cell Temperature (PQ1TR)		MRHY 1 Motor Speed (HMS1) (RPM)	MRPQ 1 Strain Gauge Pressure (PQSG1) (PSIG)					
60	(DEGC)							
		0	8000					
MRPQ 1 Quartz Gauge Pressure (PQQP1)								
0		8000						
MRPQ 1 Strain Gauge Pressure (PQSG1)								
0		8000						

PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
MRPQ_1: Quick Probe Module (MRPQ) 1		
QGCA	Quartz Gauge Pressure Correction Applied	BOTH
QGDA	Quartz Gauge Deviation Angle	12 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
AFA: Advanced Fluid Analyzer		
PDCO	Probe Depth Correction Offset	0 M
MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0 M

Format: MRPQ\_Pretest Vertical Scale: 1" per 60S Graphics File Created: 20-May-2008 13:27

OP System Version: 15C0-309			
MCM			
MRPQ_1	15C0-309	MRHY_1	15C0-309
MRPO_UD	15C0-309	AFA	15C0-309
MRMS_1	15C0-309	MRPC	15C0-309
SGT-L	15C0-309	TCC-BF	15C0-309

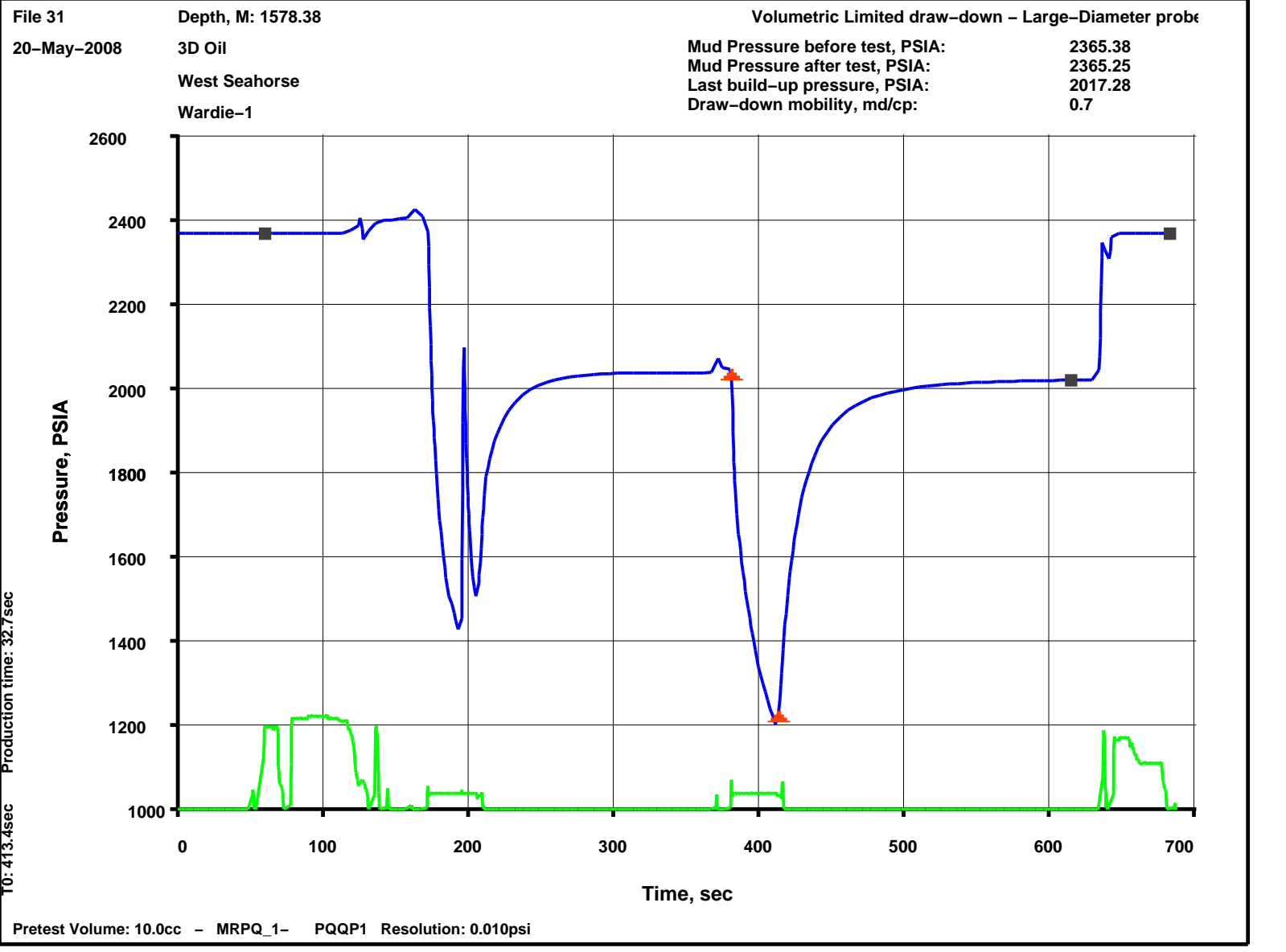
Output DLIS Files



Station @ 1578.38m

MD

MAXIS Field Log



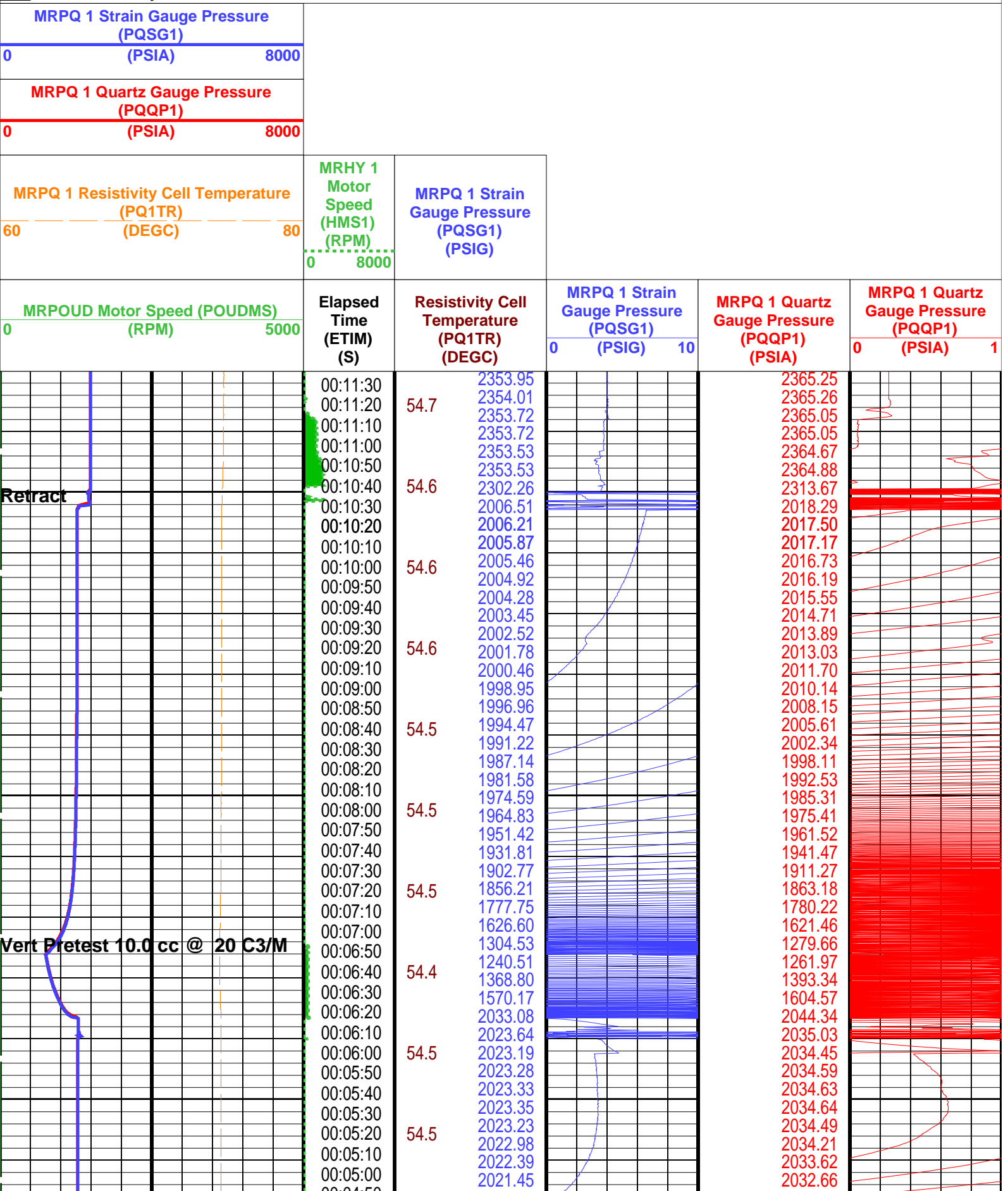
Output DLIS Files

Elapsed Time (s)	Event Summary
638.7	Retract Quick Probe Module (MRPQ) 1
375.9	Vert Pretest 10.0 cc @ 20 C3/M Quick Probe Module (MRPQ) 1
107.1	Vert Pretest 10.0 cc @ 20 C3/M Quick Probe Module (MRPQ) 1



Probe Set @ 1578.4 M Quick Probe Module (MRPQ) 1

**Time Mark Every 60 S**





MRPQ_1	15C0-309	MRPQ_1	15C0-309
MRPO_UD	15C0-309	AFA	15C0-309
MRMS_1	15C0-309	MRPC	15C0-309
SGT-L	15C0-309	TCC-BF	15C0-309

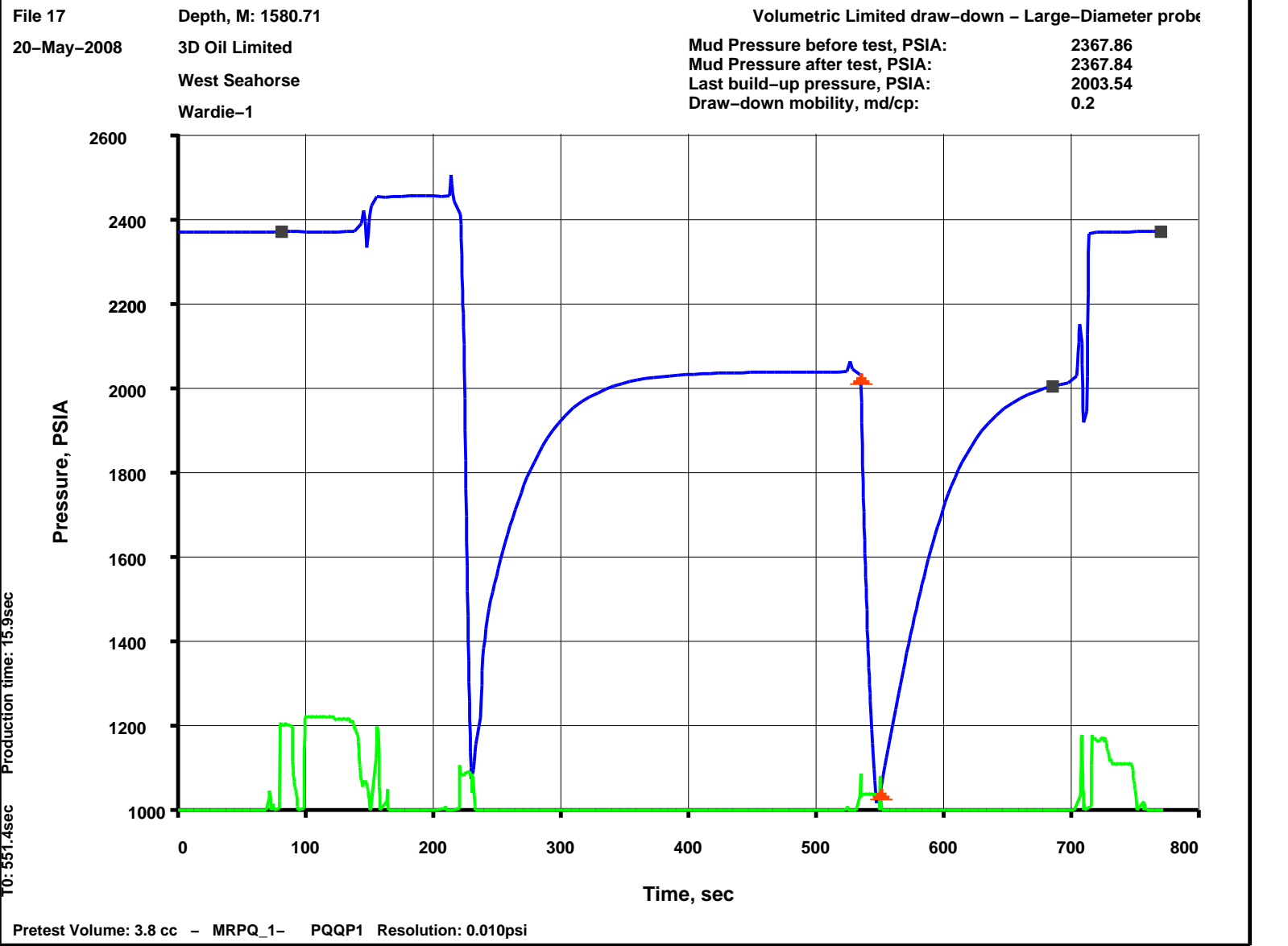
Output DLIS Files

DEFAULT	MDT_OFA_031LTP	FN:52	PRODUCER	20-May-2008 14:58
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Station @ 1580.71m  
MD

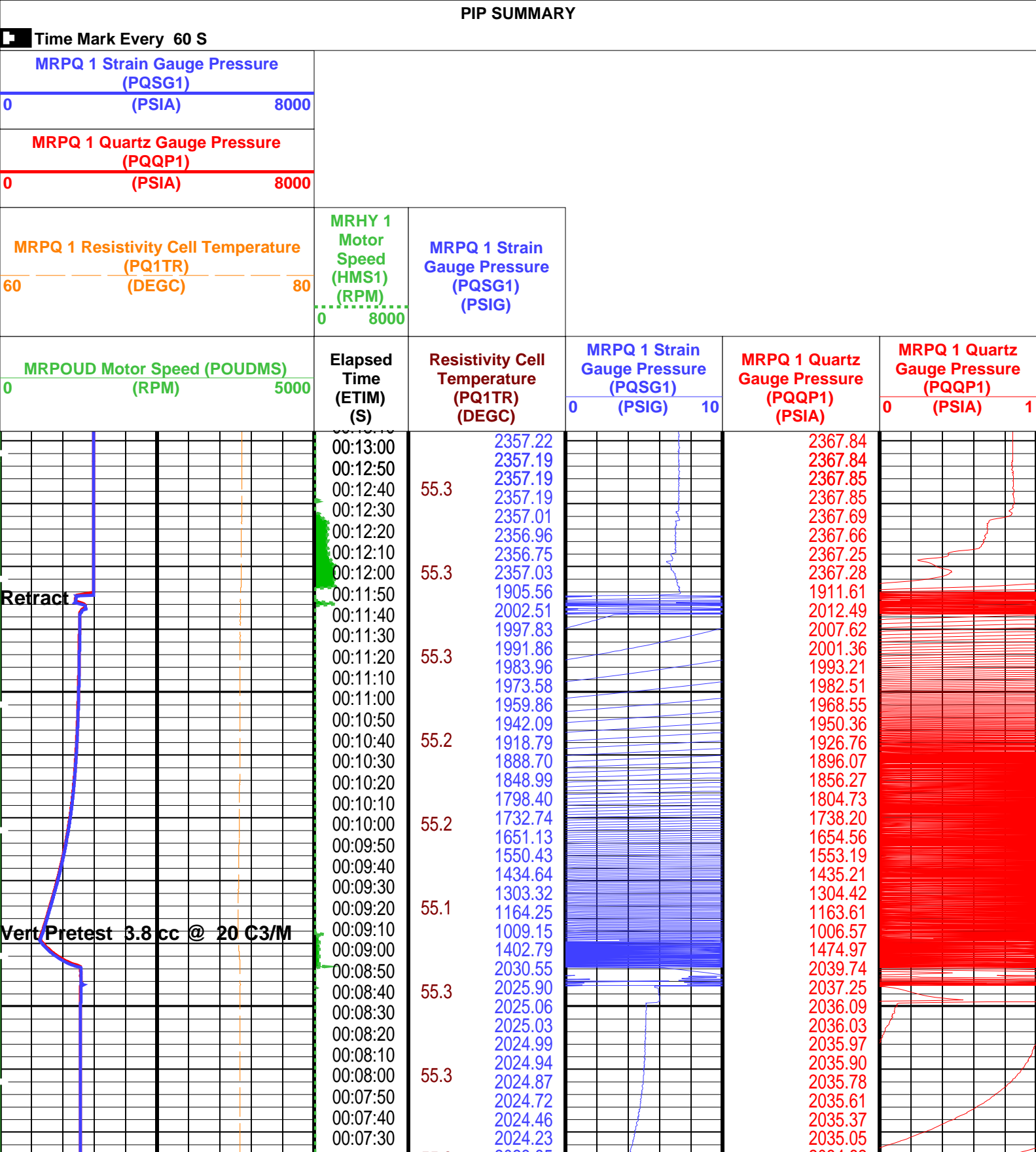
MAXIS Field Log

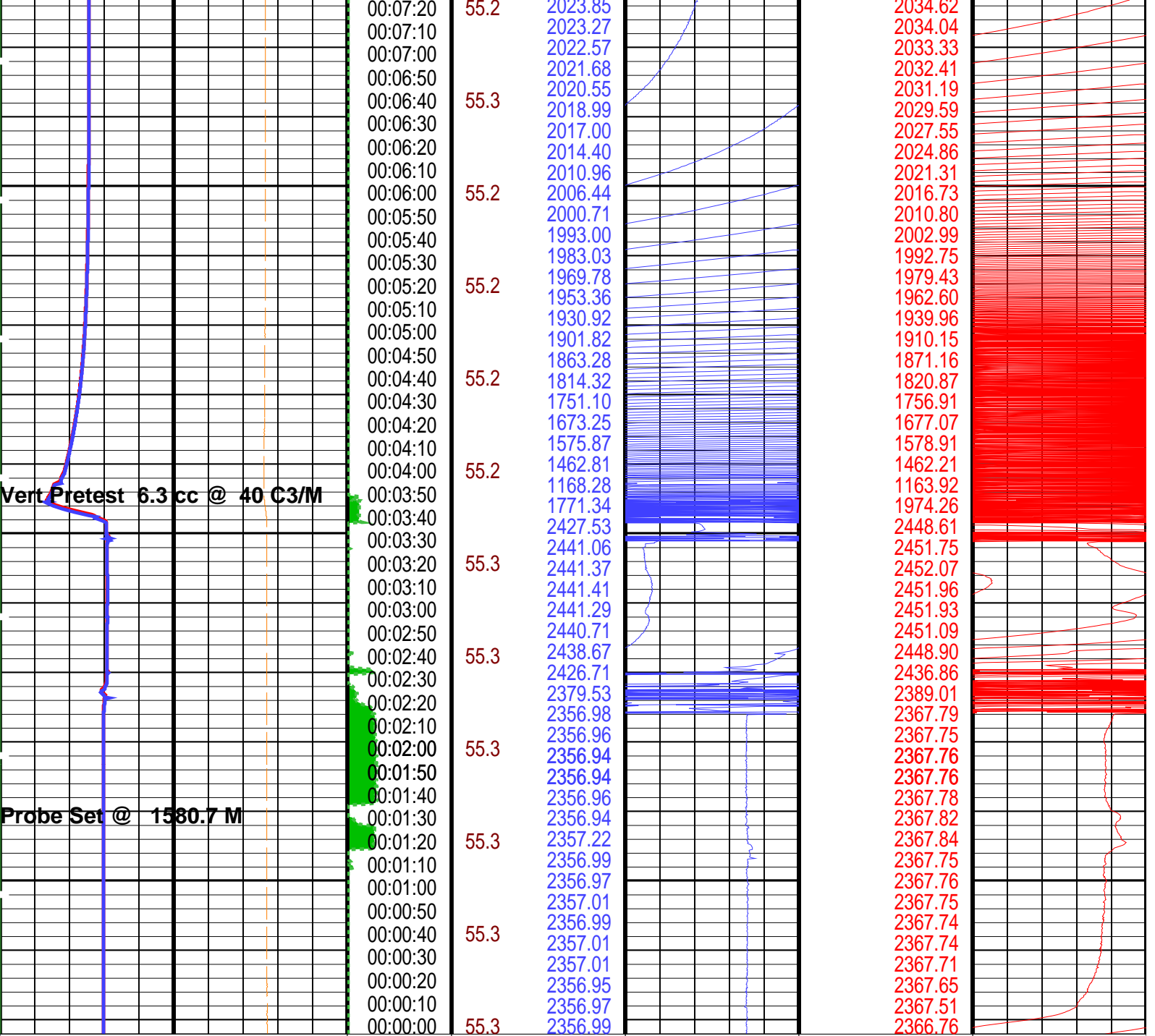


Output DLIS Files

DEFAULT	MDT_OFA_047LTP	FN:68	PRODUCER	20-May-2008 19:03	1580.7 M	2.0 M
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Elapsed Time (s)	Event Summary
711.6	Retract Quick Probe Module (MRPQ) 1
530.4	Vert Pretest 3.8 cc @ 20 C3/M Quick Probe Module (MRPQ) 1
216.3	Vert Pretest 6.3 cc @ 40 C3/M Quick Probe Module (MRPQ) 1
94.8	Probe Set @ 1580.7 M Quick Probe Module (MRPQ) 1





MRPOUD Motor Speed (POUDMS)		Elapsed Time (ETIM) (S)	Resistivity Cell Temperature (PQ1TR) (DEGC)	MRPQ 1 Strain Gauge Pressure (PQSG1)		MRPQ 1 Quartz Gauge Pressure (PQQP1) (PSIA)	MRPQ 1 Quartz Gauge Pressure (PQQP1)		
0	(RPM)			5000	0		(PSIG)	10	0
MRPQ 1 Resistivity Cell Temperature (PQ1TR)		MRHY 1 Motor Speed (HMS1) (RPM)	MRPQ 1 Strain Gauge Pressure (PQSG1) (PSIG)						
60	(DEGC)								80
		0	8000						
MRPQ 1 Quartz Gauge Pressure (PQQP1)									
0	(PSIA)	8000							
MRPQ 1 Strain Gauge Pressure (PQSG1)									
0	(PSIA)	8000							

PIP SUMMARY

Time Mark Every 60 S

# Parameters

DLIS Name		Description	Value	
MRPQ_1: Quick Probe Module (MRPQ) 1				
QGCA		Quartz Gauge Pressure Correction Applied	BOTH	
QGDA		Quartz Gauge Deviation Angle	12	DEG
QGFD		Quartz Gauge Flow Line Density	1	G/C3
AFA: Advanced Fluid Analyzer				
PDCO		Probe Depth Correction Offset	0	M
MRPC: Power Cartridge				
PDCO		Probe Depth Correction Offset	0	M

Format: MRPQ\_Prestest    Vertical Scale: 1" per 60S    Graphics File Created: 20-May-2008 19:03

## OP System Version: 15C0-309

MCM

MRPQ_1	15C0-309	MRHY_1	15C0-309
MRPO_UD	15C0-309	AFA	15C0-309
MRMS_1	15C0-309	MRPC	15C0-309
SGT-L	15C0-309	TCC-BF	15C0-309

## Output DLIS Files

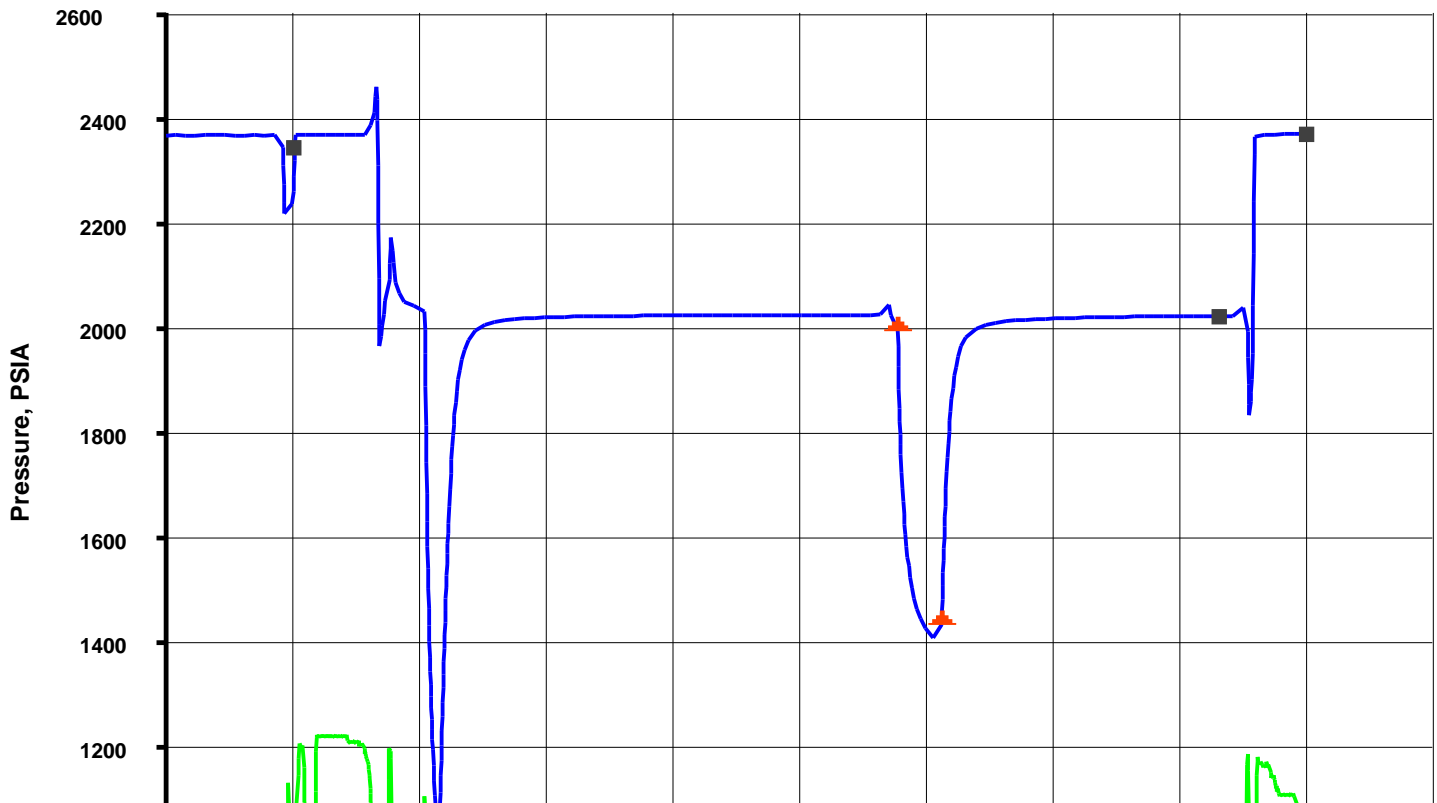
DEFAULT    MDT\_OFA\_047LTP    FN:68    PRODUCER    20-May-2008 19:03

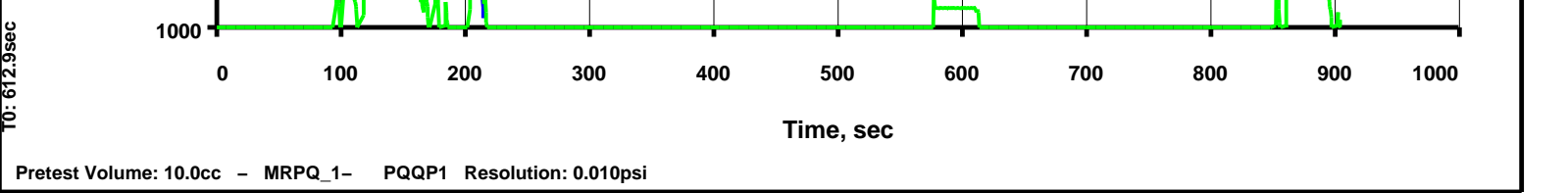
**Schlumberger**

**Station @ 1580.93m**  
**MD**

MAXIS Field Log

File 46    Depth, M: 1580.93    Volumetric Limited draw-down - Large-Diameter probe  
 20-May-2008    3D Oil    Mud Pressure before test, PSIA: 2343.86  
                   West Seahorse    Mud Pressure after test, PSIA: 2368.06  
                   Wardie-1    Last build-up pressure, PSIA: 2021.63  
                                   Draw-down mobility, md/cp: 1.1



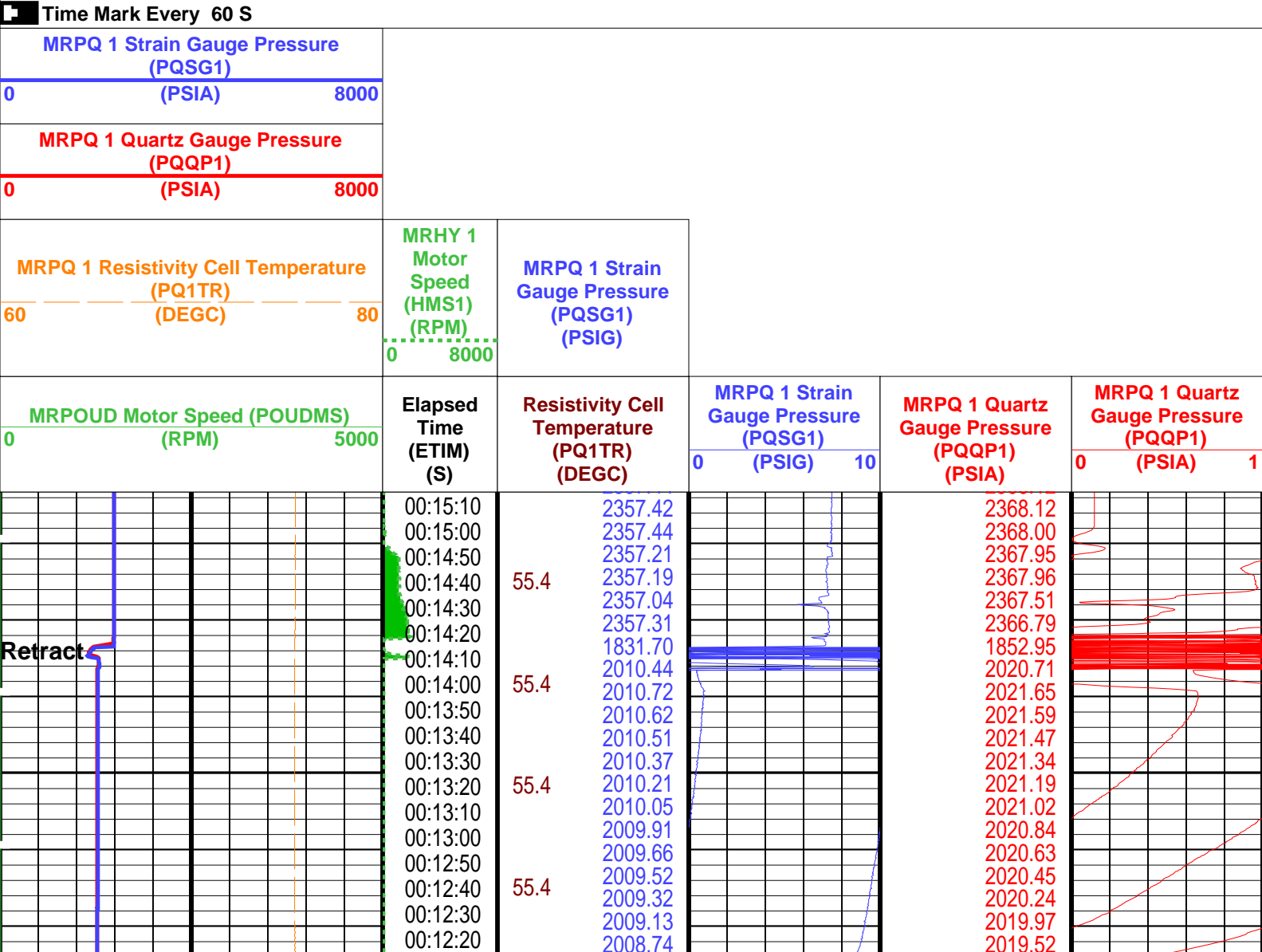


Output DLIS Files

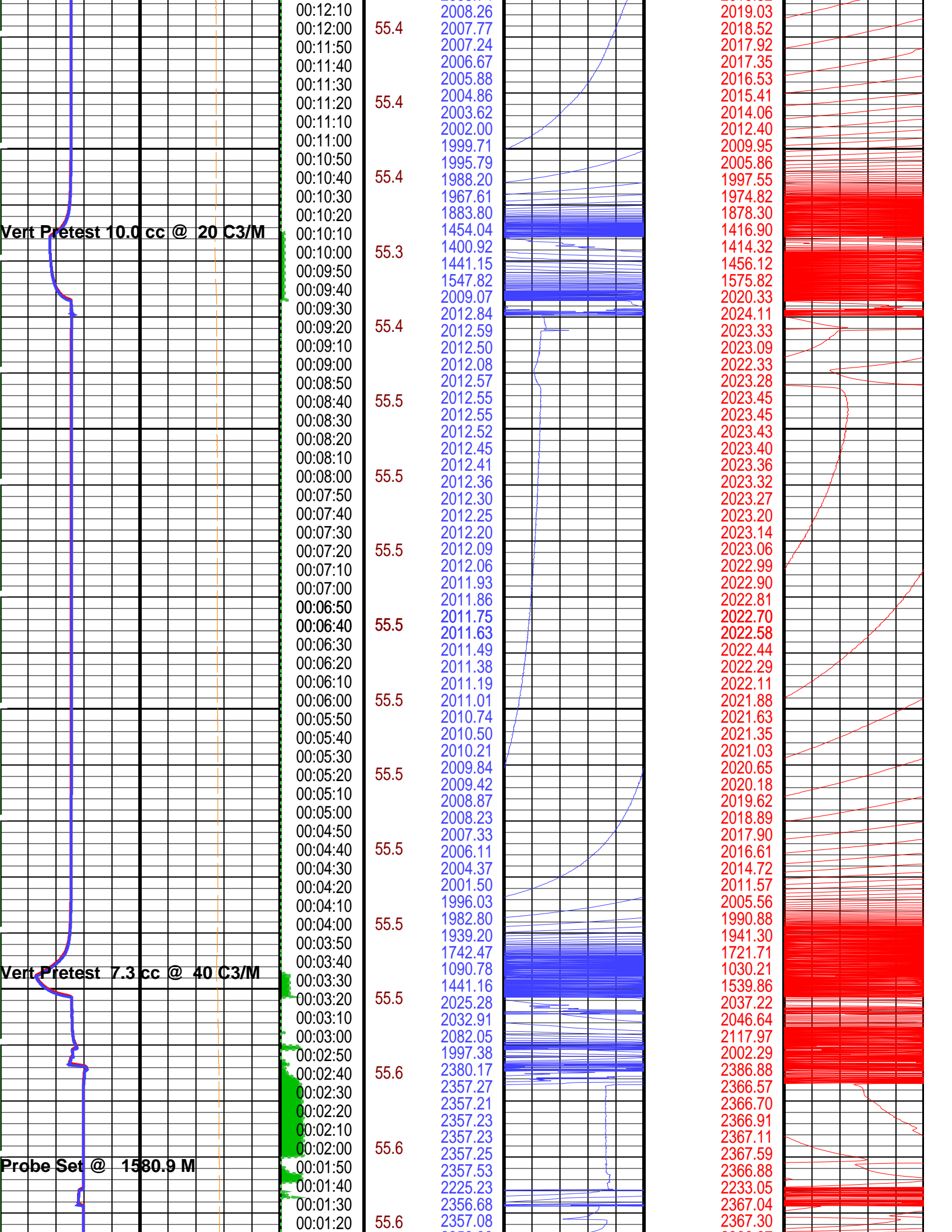
DEFAULT MDT\_OFA\_046LTP FN:67 PRODUCER 20-May-2008 18:45 1580.9 M 2.3 M

Elapsed Time (s)	Event Summary
856.5	Retract Quick Probe Module (MRPQ) 1
572.7	Vert Pretest 10.0 cc @ 20 C3/M Quick Probe Module (MRPQ) 1
199.2	Vert Pretest 7.3 cc @ 40 C3/M Quick Probe Module (MRPQ) 1
114.0	Probe Set @ 1580.9 M Quick Probe Module (MRPQ) 1
67.5	Initialize MDT Multi-Sample (MRMS) 1

PIP SUMMARY

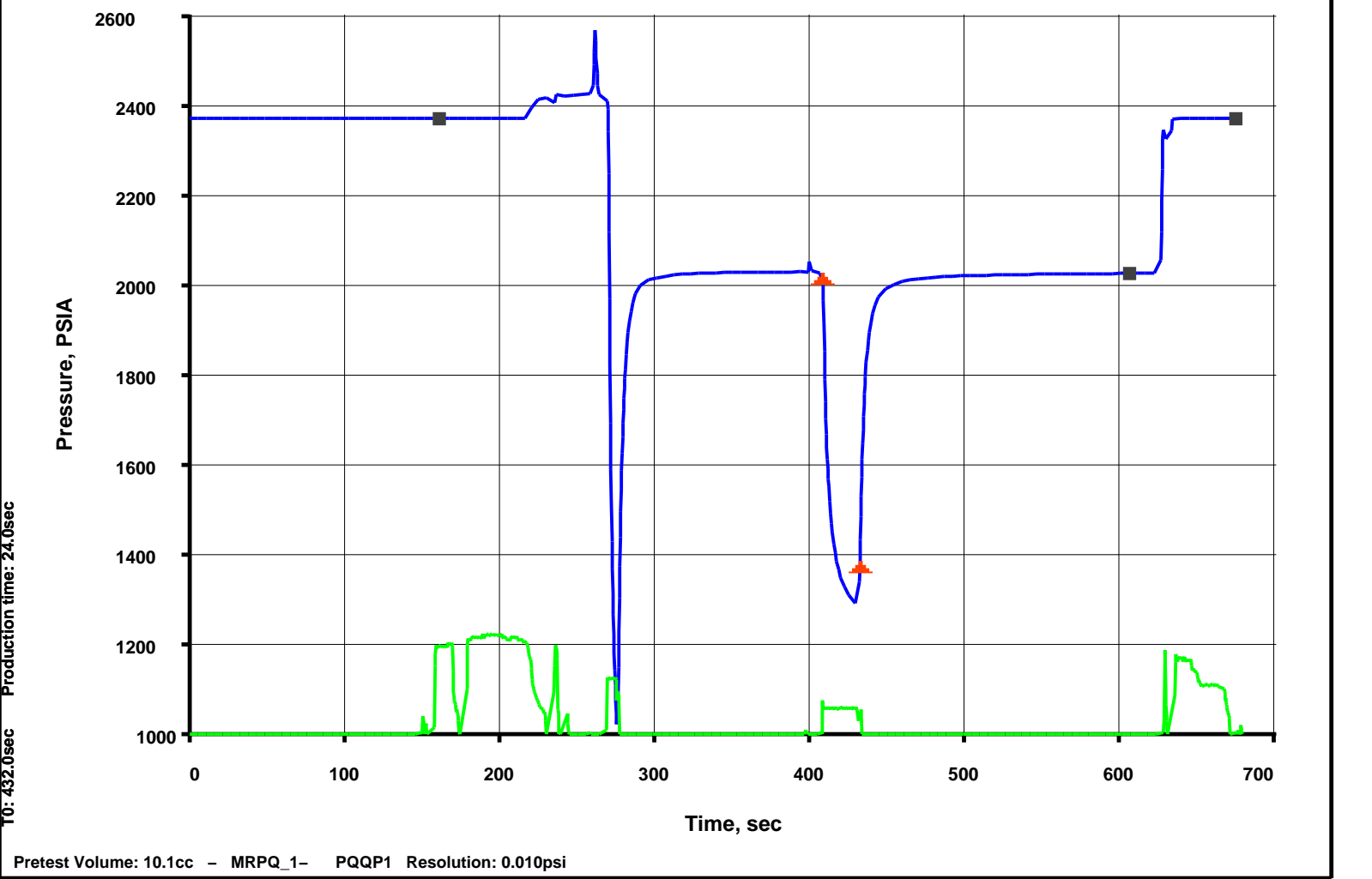








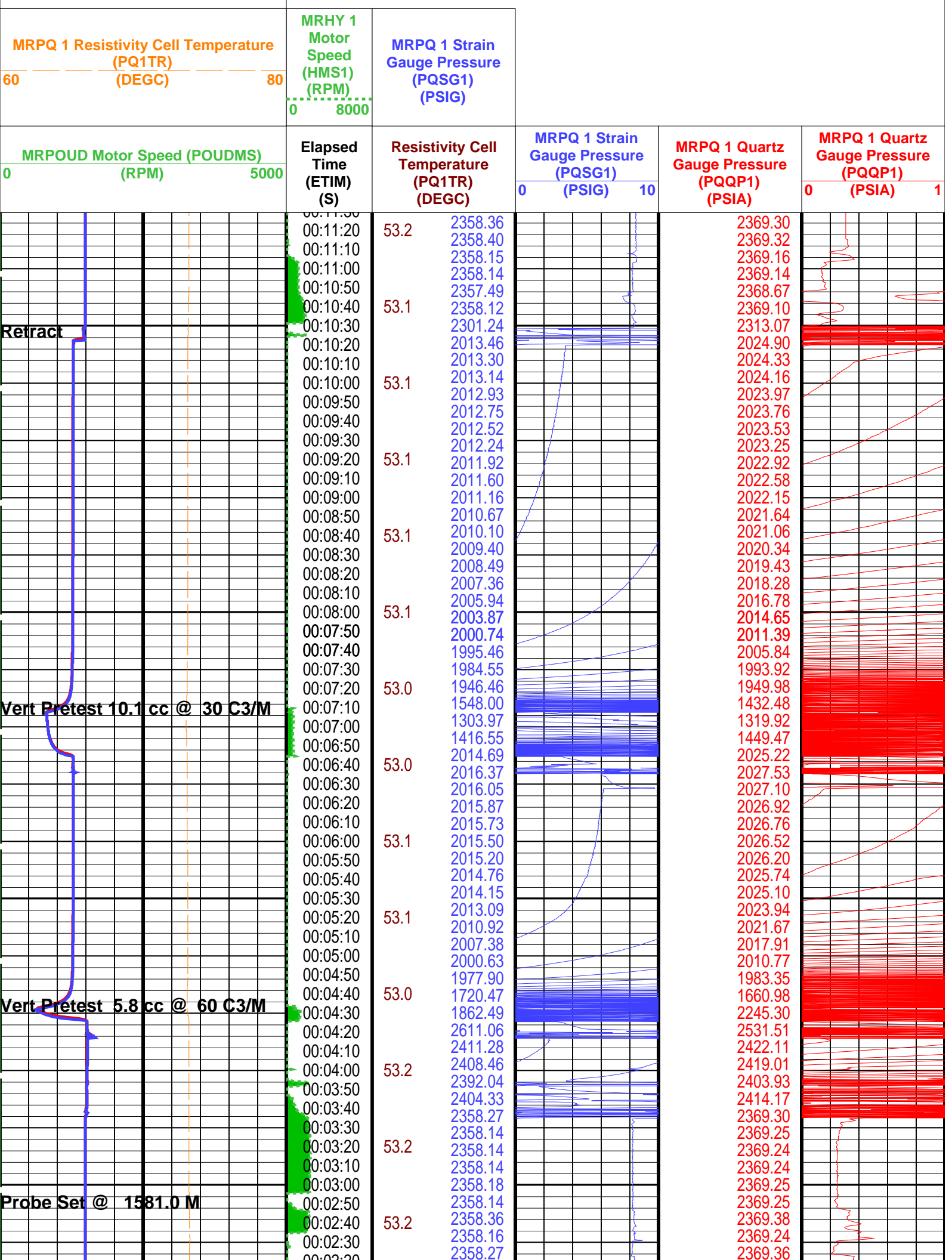




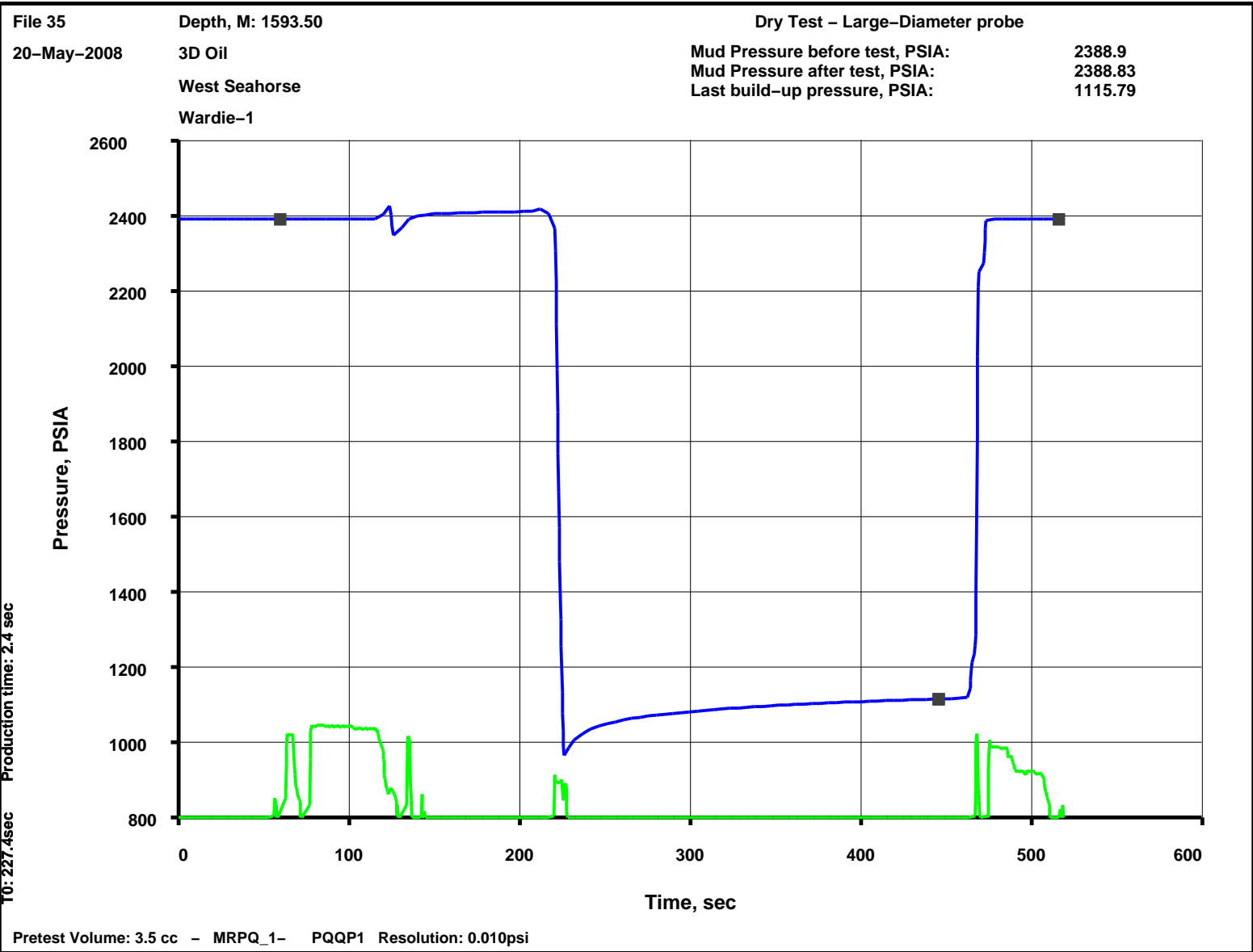
Output DLIS Files						
DEFAULT	MDT_OFA_027LTP	FN:48	PRODUCER	20-May-2008 13:13	1581.0 M	1.8 M

Elapsed Time (s)	Event Summary
630.3	Retract Quick Probe Module (MRPQ) 1
403.2	Vert Pretest 10.1 cc @ 30 C3/M Quick Probe Module (MRPQ) 1
264.3	Vert Pretest 5.8 cc @ 60 C3/M Quick Probe Module (MRPQ) 1
174.3	Probe Set @ 1581.0 M Quick Probe Module (MRPQ) 1
120.6	Initialize MDT Multi-Sample (MRMS) 1

PIP SUMMARY		
Time Mark Every 60 S		
MRPQ 1 Strain Gauge Pressure (PQSG1)		
0	(PSIA)	8000
MRPQ 1 Quartz Gauge Pressure (PQQP1)		
0	(PSIA)	8000





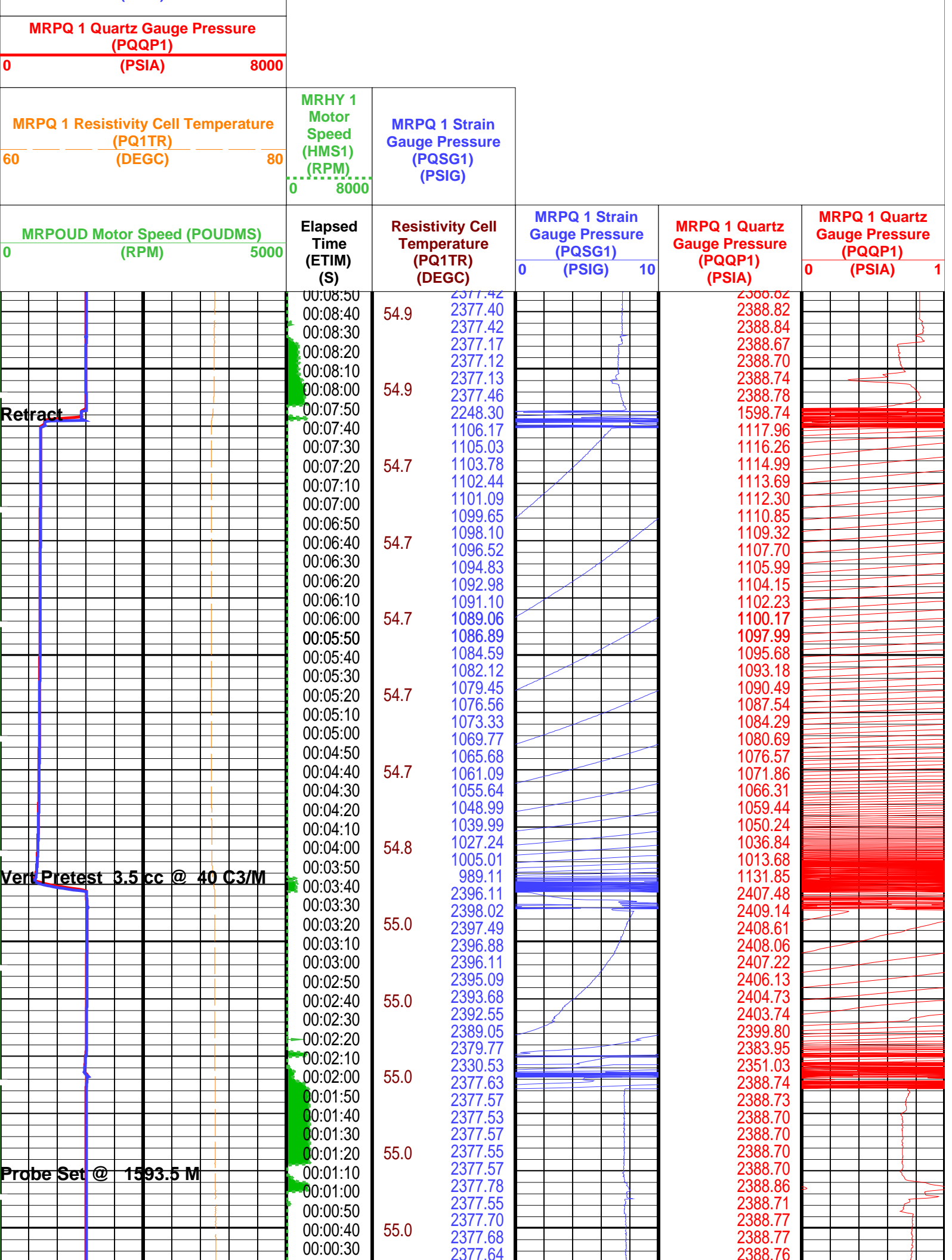


Output DLIS Files						
DEFAULT	MDT_OFA_035LTP	FN:56	PRODUCER	20-May-2008 15:33	1593.5 M	1.4 M

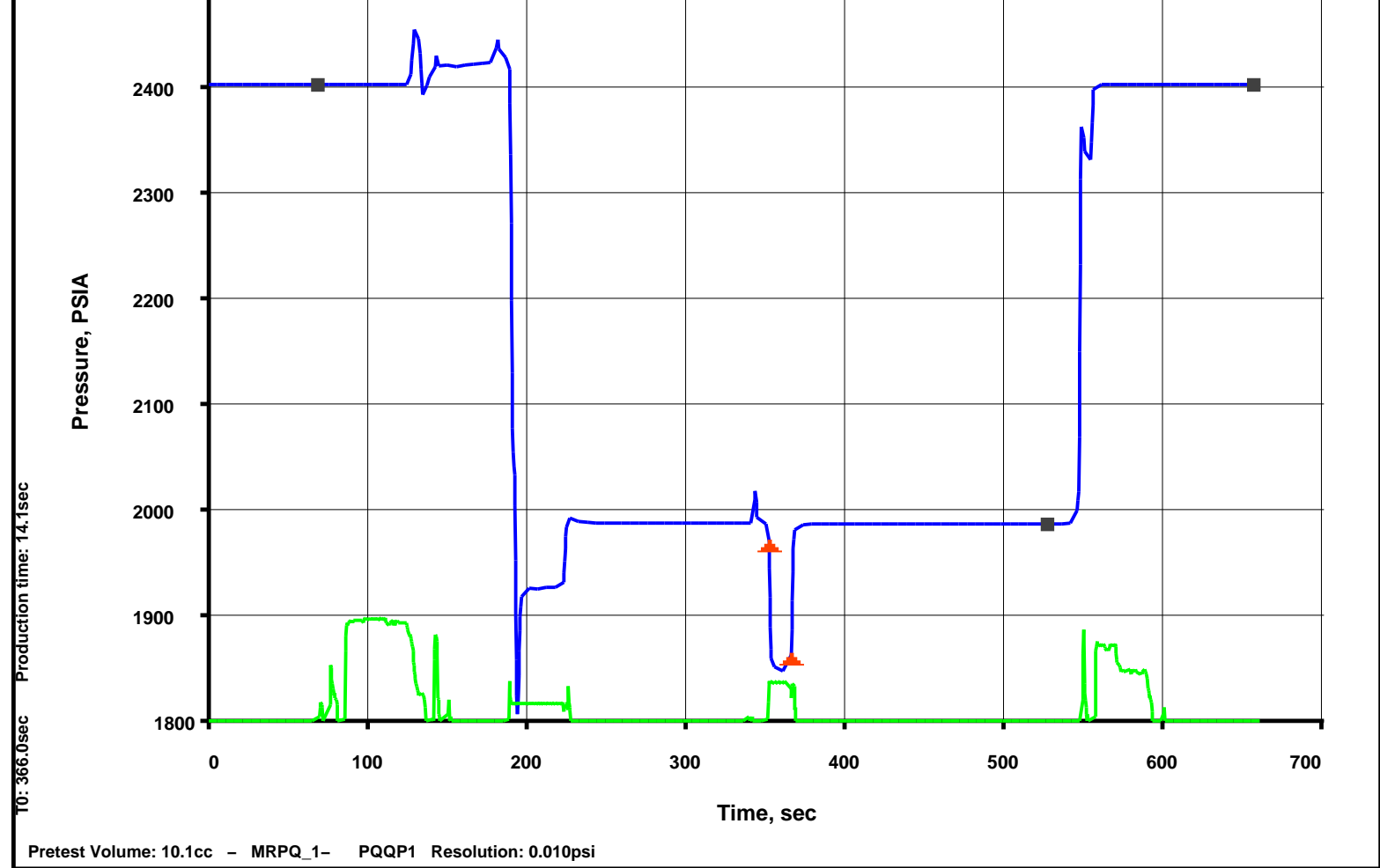
Elapsed Time (s)	Event Summary
470.7	Retract Quick Probe Module (MRPQ) 1
215.7	Vert Pretest 3.5 cc @ 40 C3/M Quick Probe Module (MRPQ) 1
72.9	Probe Set @ 1593.5 M Quick Probe Module (MRPQ) 1

PIP SUMMARY

Time Mark Every 60 S		
MRPQ 1 Strain Gauge Pressure (PQSG1)		
0	(PSIA)	8000







## Output DLIS Files

DEFAULT

MDT\_OFA\_036LTP

FN:57

PRODUCER

20-May-2008 15:47 1602.0 M

1.7 M

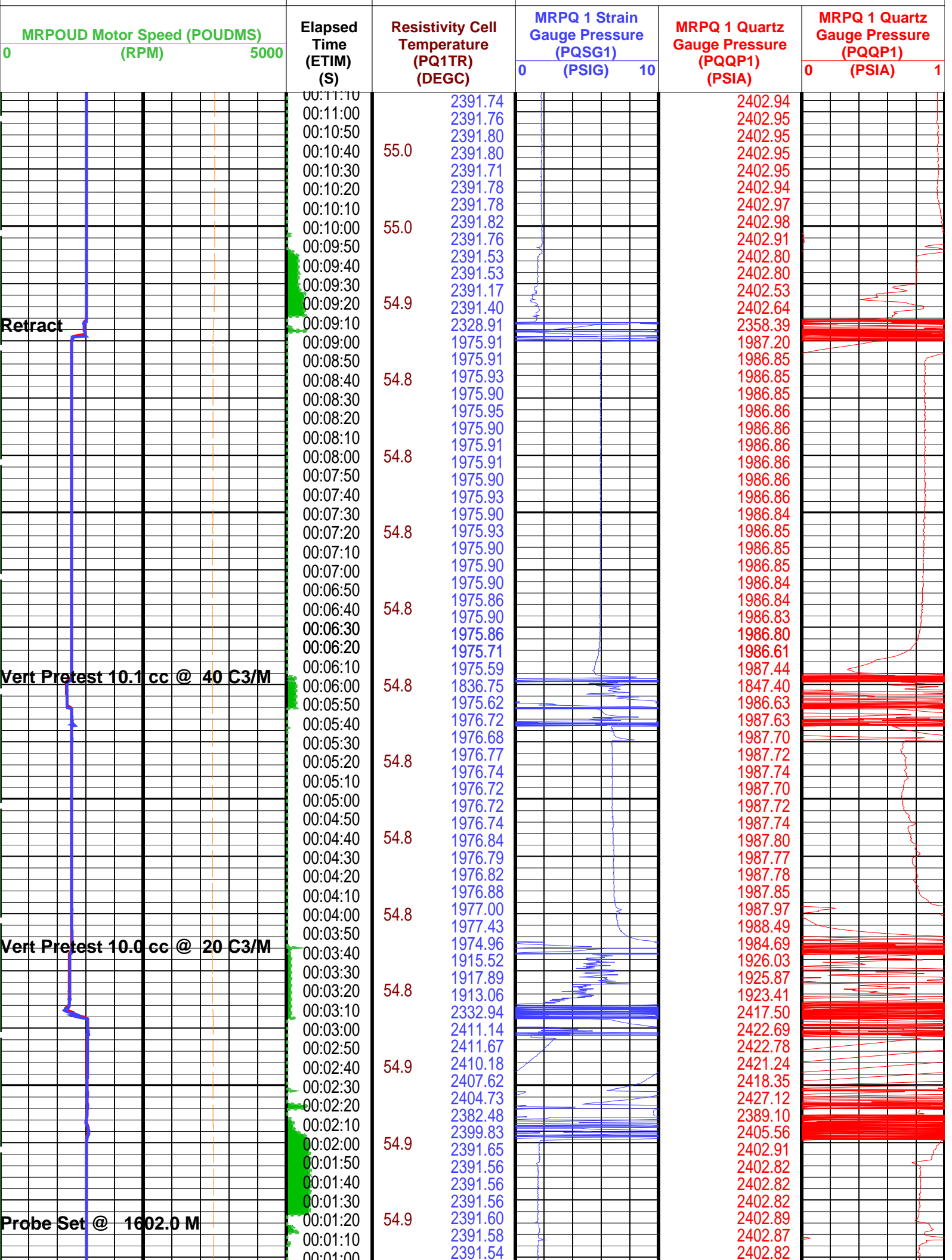
Elapsed Time (s)	Event Summary
552.3	Retract Quick Probe Module (MRPQ) 1
346.5	Vert Pretest 10.1 cc @ 40 C3/M Quick Probe Module (MRPQ) 1
184.5	Vert Pretest 10.0 cc @ 20 C3/M Quick Probe Module (MRPQ) 1
81.9	Probe Set @ 1602.0 M Quick Probe Module (MRPQ) 1

## PIP SUMMARY

Time Mark Every 60 S

MRPQ 1 Strain Gauge Pressure (PQSG1)		MRHY 1 Motor Speed (HMS1) (RPM)	MRPQ 1 Strain Gauge Pressure (PQSG1) (PSIG)
0	8000		
MRPQ 1 Quartz Gauge Pressure (PQQP1)		MRHY 1 Motor Speed (HMS1) (RPM)	MRPQ 1 Strain Gauge Pressure (PQSG1) (PSIG)
0	8000		
MRPQ 1 Resistivity Cell Temperature (PQ1TR) (DEGC)		0	8000







West Seahorse

Mud Pressure after test, PSIA:

2414.4

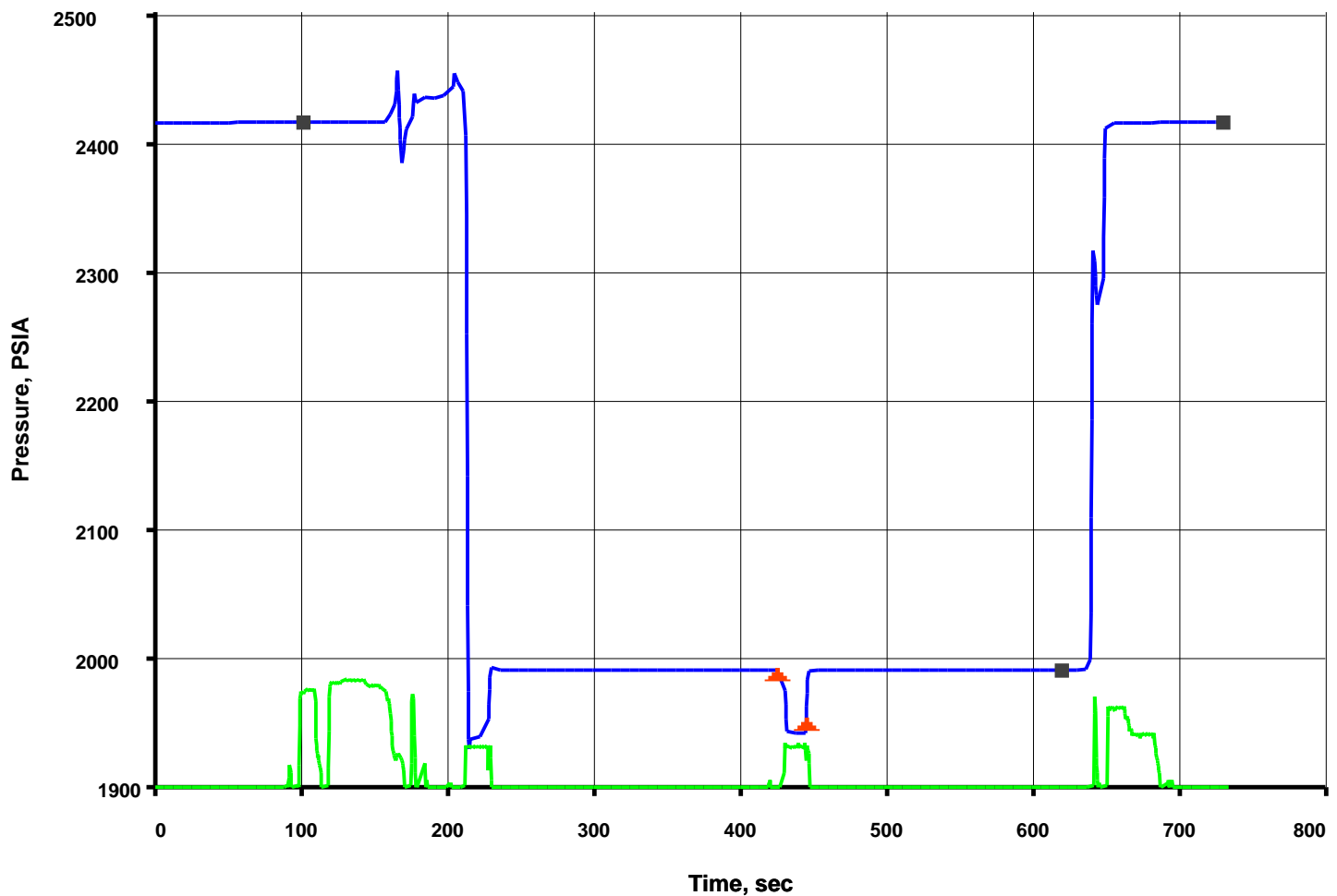
Last build-up pressure, PSIA:

1991.06

Draw-down mobility, md/cp:

34.7

Wardie-1



## Output DLIS Files

DEFAULT

MDT\_OFA\_037LTP

FN:58

PRODUCER

20-May-2008 16:03

1609.0 M

1.9 M

Elapsed  
Time (s)

## Event Summary

646.5

Retract Quick Probe Module (MRPQ) 1

425.4

Vert Pretest 10.2 cc @ 40 C3/M Quick Probe Module (MRPQ) 1

207.6

Vert Pretest 10.0 cc @ 40 C3/M Quick Probe Module (MRPQ) 1

114.6

Probe Set @ 1609.0 M Quick Probe Module (MRPQ) 1

## PIP SUMMARY

Time Mark Every 60 S

MRPQ 1 Strain Gauge Pressure  
(PQSG1)

0 (PSIA) 8000

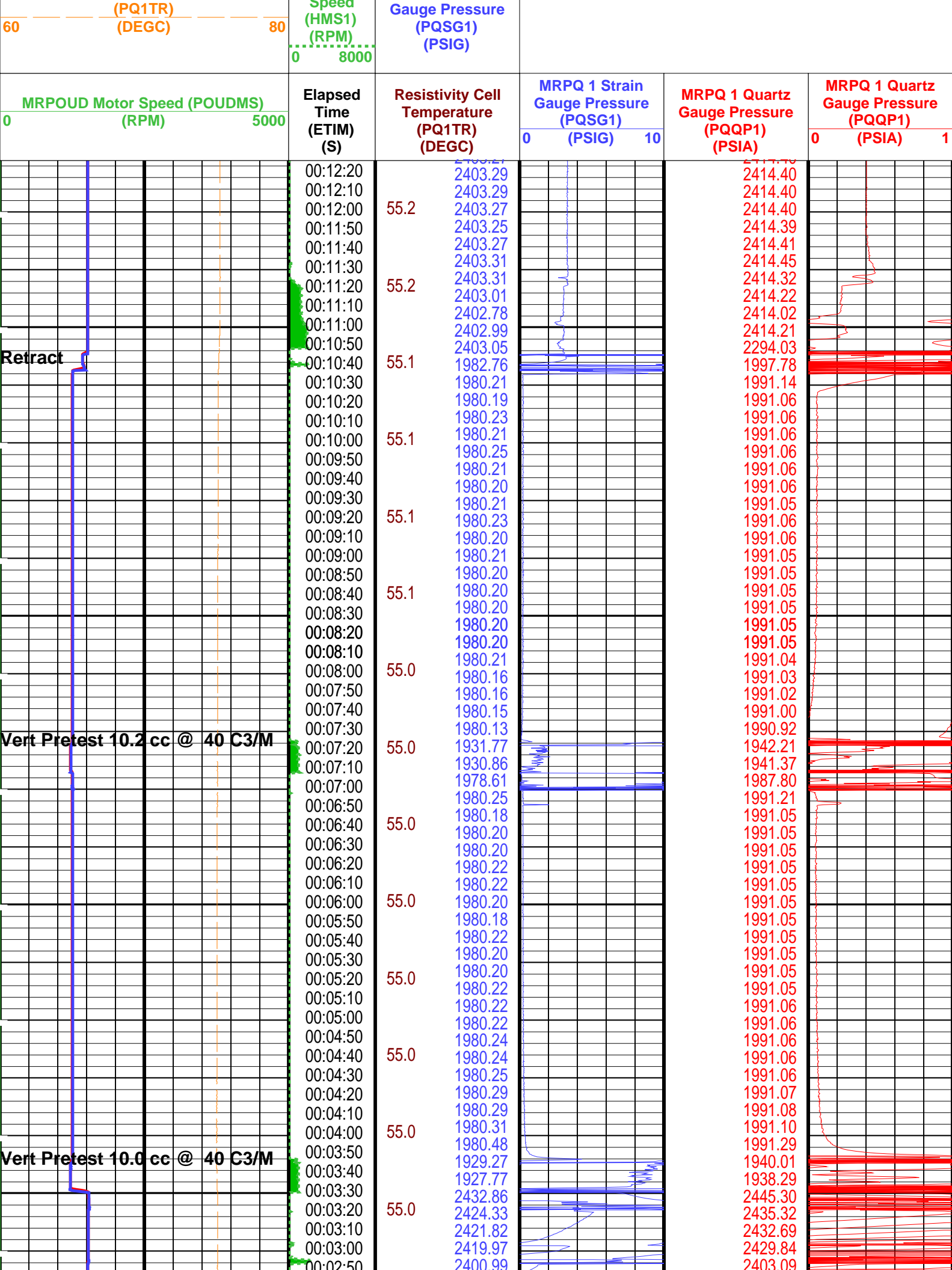
MRPQ 1 Quartz Gauge Pressure  
(PQQP1)

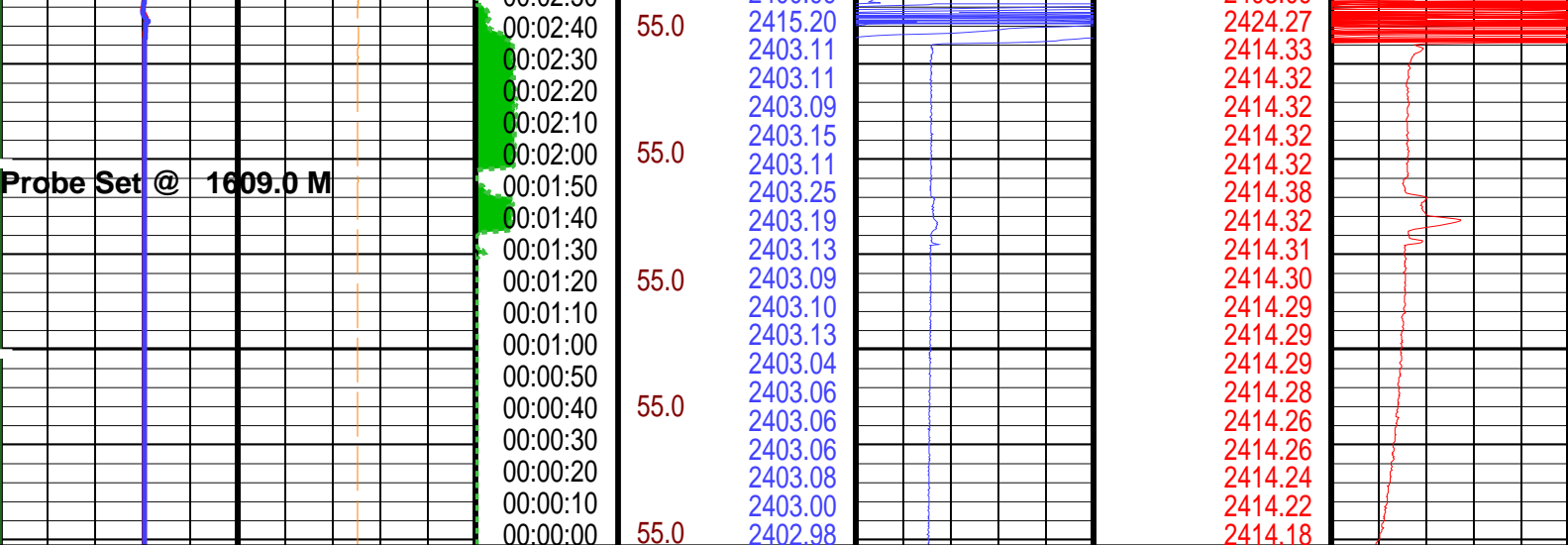
0 (PSIA) 8000

MRPQ 1 Resistivity Cell Temperature

MRHY 1  
Motor  
Speed

MRPQ 1 Strain





<div>MRPOUD Motor Speed (POUDMS)</div> <div>0 (RPM) 5000</div>	<div>Elapsed Time (ETIM) (S)</div>	<div>Resistivity Cell Temperature (PQ1TR) (DEGC)</div>	<div>MRPQ 1 Strain Gauge Pressure (PQSG1)</div> <div>0 (PSIG) 10</div>	<div>MRPQ 1 Quartz Gauge Pressure (PQQP1) (PSIA)</div>	<div>MRPQ 1 Quartz Gauge Pressure (PQQP1) (PSIA)</div> <div>0 1</div>
<div>MRPQ 1 Resistivity Cell Temperature (PQ1TR) (DEGC)</div> <div>60 80</div>			<div>MRHY 1 Motor Speed (HMS1) (RPM)</div> <div>0 8000</div>		<div>MRPQ 1 Strain Gauge Pressure (PQSG1) (PSIG)</div>
<div>MRPQ 1 Quartz Gauge Pressure (PQQP1)</div> <div>0 (PSIA) 8000</div>					
<div>MRPQ 1 Strain Gauge Pressure (PQSG1)</div> <div>0 (PSIA) 8000</div>					

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
MRPQ_1: Quick Probe Module (MRPQ) 1			
QGCA	Quartz Gauge Pressure Correction Applied	BOTH	
QGDA	Quartz Gauge Deviation Angle	12	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
AFA: Advanced Fluid Analyzer			
PDCO	Probe Depth Correction Offset	0	M
MRPC: Power Cartridge			
PDCO	Probe Depth Correction Offset	0	M

Format: MRPQ\_Prestest    Vertical Scale: 1" per 60S    Graphics File Created: 20-May-2008 16:03

OP System Version: 15C0-309  
MCM

MRPQ_1	15C0-309	MRHY_1	15C0-309
MRPO_UD	15C0-309	AFA	15C0-309
MRMS_1	15C0-309	MRPC	15C0-309
SGT-L	15C0-309	TCC-BF	15C0-309

Output DLIS Files

DEFAULT	MDT_OFA_037LTP	FN:58	PRODUCER	20-May-2008 16:03
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## MAXIS Field Log

File 38

Depth, M: 1613.49

Volumetric Limited draw-down – Large-Diameter probe

20-May-2008

3D Oil

Mud Pressure before test, PSIA:

2421.65

West Seahorse

Mud Pressure after test, PSIA:

2421.64

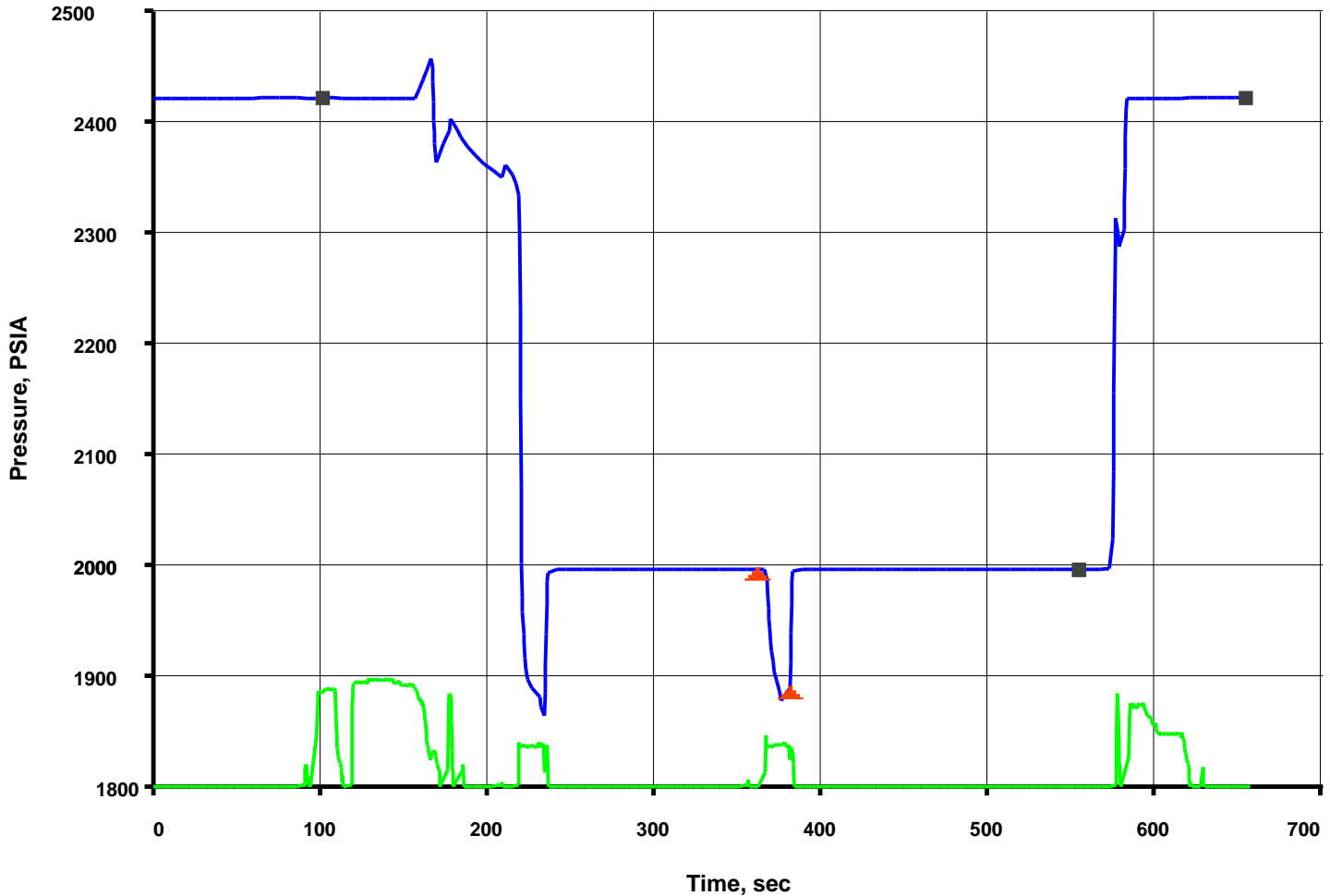
Wardie-1

Last build-up pressure, PSIA:

1996.45

Draw-down mobility, md/cp:

17.1



## Output DLIS Files

DEFAULT

MDT\_OFA\_038LTP

FN:59

PRODUCER

20-May-2008 16:20 1613.5 M

1.7 M

Elapsed  
Time (s)

## Event Summary

579.3

Retract Quick Probe Module (MRPQ) 1

361.5

Vert Pretest 10.1 cc @ 40 C3/M Quick Probe Module (MRPQ) 1

214.2

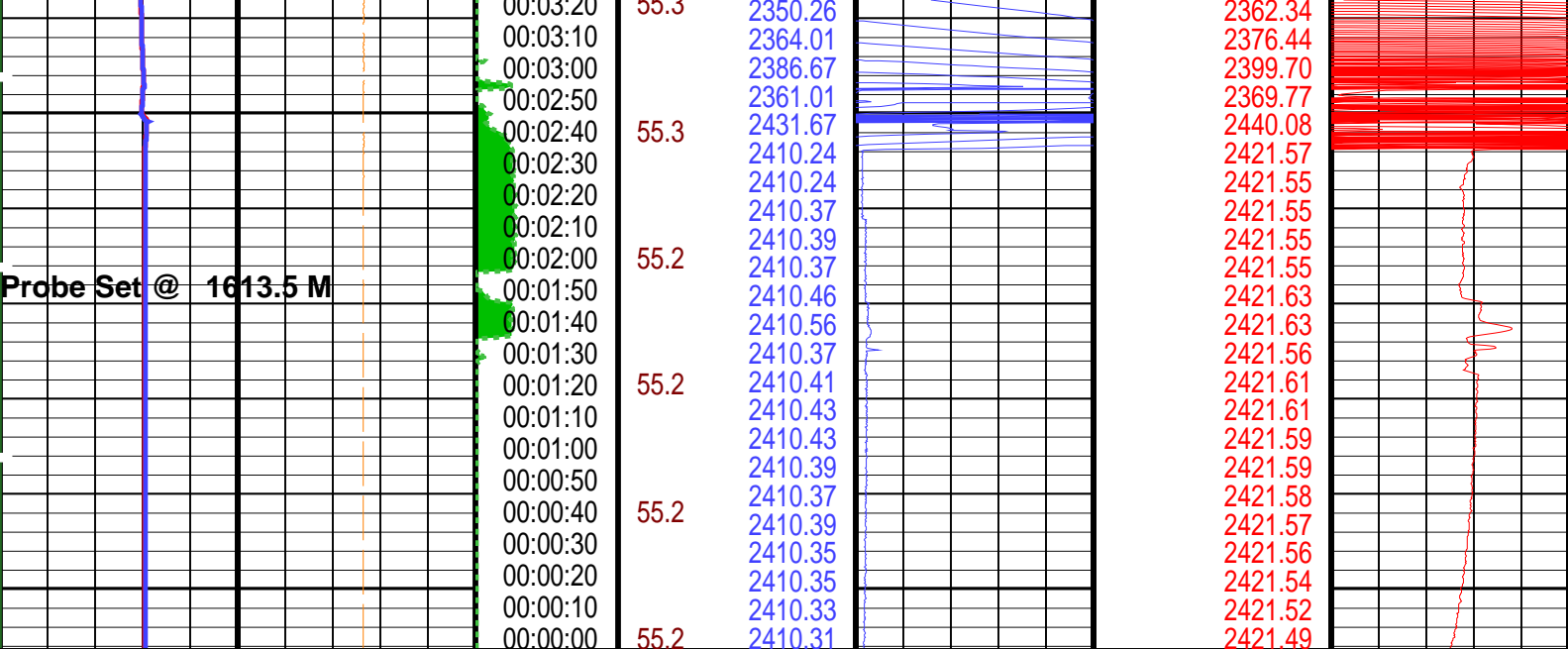
Vert Pretest 10.0 cc @ 40 C3/M Quick Probe Module (MRPQ) 1

114.6

Probe Set @ 1613.5 M Quick Probe Module (MRPQ) 1

Time	Pressure (psi)	Flow Rate (cc/min)	Pressure (psi)	Flow Rate (cc/min)
00:11:00	2410.38	2410.38	2421.64	2421.64
00:10:50	2410.38	2410.38	2421.65	2421.65
00:10:40	55.4	2410.38	2421.65	2421.65
00:10:30	2410.36	2410.36	2421.66	2421.66
00:10:20	2410.01	2410.01	2421.57	2421.57
00:10:10	55.4	2410.15	2421.49	2421.49
00:10:00	2410.15	2410.15	2421.49	2421.49
00:09:50	2410.17	2410.17	2421.55	2421.55
00:09:40	2410.26	2410.26	2421.37	2421.37
00:09:30	2302.12	2302.12	2313.80	2313.80
00:09:20	55.3	1985.48	1996.66	1996.66
00:09:10	1985.48	1985.48	1996.46	1996.46
00:09:00	1985.46	1985.46	1996.46	1996.46
00:08:50	1985.46	1985.46	1996.45	1996.45
00:08:40	55.3	1985.50	1996.46	1996.46
00:08:30	1985.48	1985.48	1996.46	1996.46
00:08:20	1985.50	1985.50	1996.46	1996.46
00:08:10	1985.47	1985.47	1996.45	1996.45
00:08:00	55.3	1985.47	1996.46	1996.46
00:07:50	1985.45	1985.45	1996.46	1996.46
00:07:40	1985.47	1985.47	1996.46	1996.46
00:07:30	55.3	1985.45	1996.45	1996.45
00:07:20	1985.50	1985.50	1996.46	1996.46
00:07:10	1985.47	1985.47	1996.46	1996.46
00:07:00	1985.47	1985.47	1996.45	1996.45
00:06:50	1985.45	1985.45	1996.45	1996.45
00:06:40	55.3	1985.49	1996.45	1996.45
00:06:30	1985.49	1985.49	1996.46	1996.46
00:06:20	1985.50	1985.50	1996.38	1996.38
00:06:10	1859.07	1859.07	1873.04	1873.04
00:06:00	55.2	1914.02	1936.77	1936.77
00:05:50	1985.43	1985.43	1996.19	1996.19
00:05:40	1985.50	1985.50	1996.45	1996.45
00:05:30	1985.59	1985.59	1996.55	1996.55
00:05:20	55.2	1985.59	1996.55	1996.55
00:05:10	1985.61	1985.61	1996.61	1996.61
00:05:00	1985.64	1985.64	1996.57	1996.57
00:04:50	1985.66	1985.66	1996.62	1996.62
00:04:40	55.2	1985.66	1996.64	1996.64
00:04:30	1985.63	1985.63	1996.61	1996.61
00:04:20	1985.63	1985.63	1996.64	1996.64
00:04:10	1985.68	1985.68	1996.58	1996.58
00:04:00	55.2	1985.68	1996.63	1996.63
00:03:50	1985.75	1985.75	1996.59	1996.59
00:03:40	1850.76	1850.76	1996.66	1996.66
00:03:30	1878.40	1878.40	1864.46	1864.46
00:03:20	2334.63	2334.63	1892.74	1892.74
00:03:10	2340.25	2340.25	2347.48	2347.48
00:03:00	55.2	2340.25	2352.24	2352.24





<div>MRPOUD Motor Speed (POUDMS)</div> <div>0 (RPM) 5000</div>		<div>Elapsed Time (ETIM) (S)</div>	<div>Resistivity Cell Temperature (PQ1TR) (DEGC)</div>	<div>MRPQ 1 Strain Gauge Pressure (PQSG1)</div> <div>0 (PSIG) 10</div>		<div>MRPQ 1 Quartz Gauge Pressure (PQQP1) (PSIA)</div>	<div>MRPQ 1 Quartz Gauge Pressure (PQQP1) (PSIA)</div> <div>0 (PSIA) 1</div>	
<div>MRPQ 1 Resistivity Cell Temperature (PQ1TR) (DEGC)</div> <div>60 (DEGC) 80</div>		<div>MRHY 1 Motor Speed (HMS1) (RPM)</div> <div>0 8000</div>	<div>MRPQ 1 Strain Gauge Pressure (PQSG1) (PSIG)</div>					
<div>MRPQ 1 Quartz Gauge Pressure (PQQP1)</div>								
<div>0 (PSIA) 8000</div>								
<div>MRPQ 1 Strain Gauge Pressure (PQSG1)</div>								
<div>0 (PSIA) 8000</div>								

PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
MRPQ_1: Quick Probe Module (MRPQ) 1		
QGCA	Quartz Gauge Pressure Correction Applied	BOTH
QGDA	Quartz Gauge Deviation Angle	12 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
AFA: Advanced Fluid Analyzer		
PDCO	Probe Depth Correction Offset	0 M
MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0 M

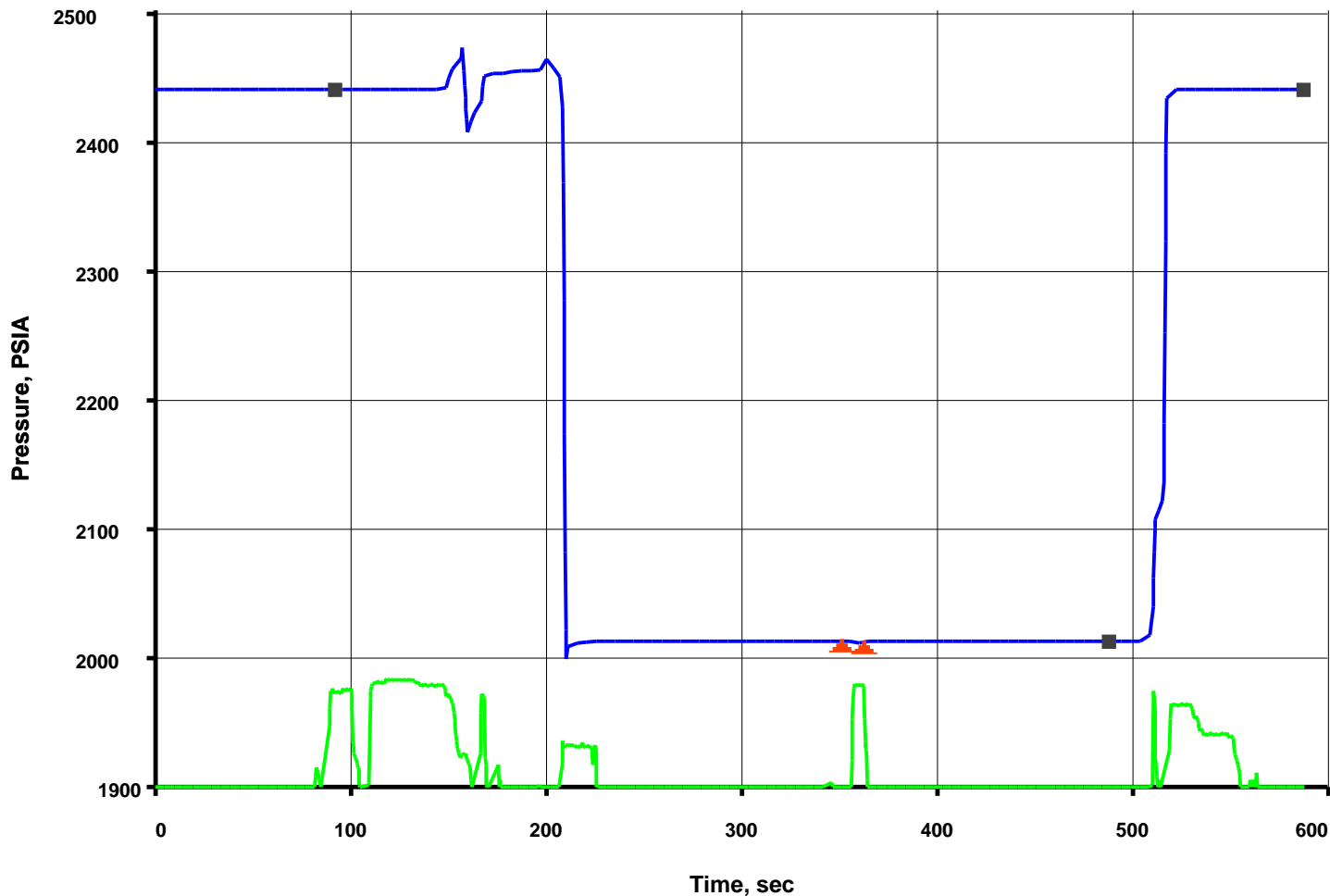
Format: MRPQ\_Prestest Vertical Scale: 1" per 60S Graphics File Created: 20-May-2008 16:20

OP System Version: 15C0-309			
MCM			
MRPQ_1	15C0-309	MRHY_1	15C0-309
MRPO_UD	15C0-309	AFA	15C0-309
MRMS_1	15C0-309	MRPC	15C0-309
SGT-L	15C0-309	TCC-BF	15C0-309

Output DLIS Files			
DEFAULT	MDT_OFA_038LTP	FN:59	PRODUCER 20-May-2008 16:20



File 39      Depth, M: 1623.99      Volumetric Limited draw-down – Large-Diameter probe  
20-May-2008      3D Oil      Mud Pressure before test, PSIA: 2438.77  
West Seahorse      Mud Pressure after test, PSIA: 2438.77  
Wardie-1      Last build-up pressure, PSIA: 2012.74  
Draw-down mobility, md/cp: 3155.9



Pretest Volume: 10.3cc - MRPQ\_1- PQQP1 Resolution: 0.010psi

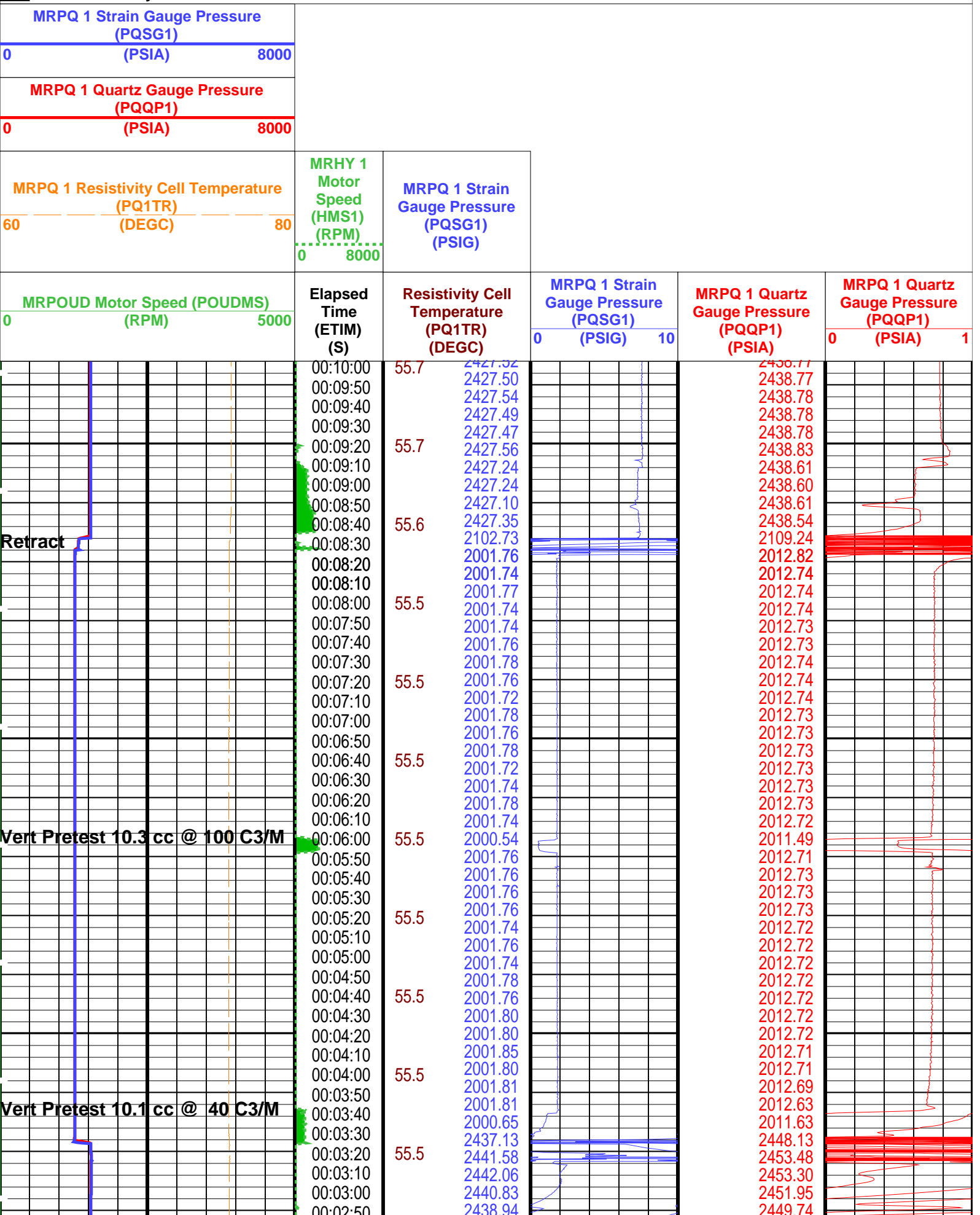
### Output DLIS Files

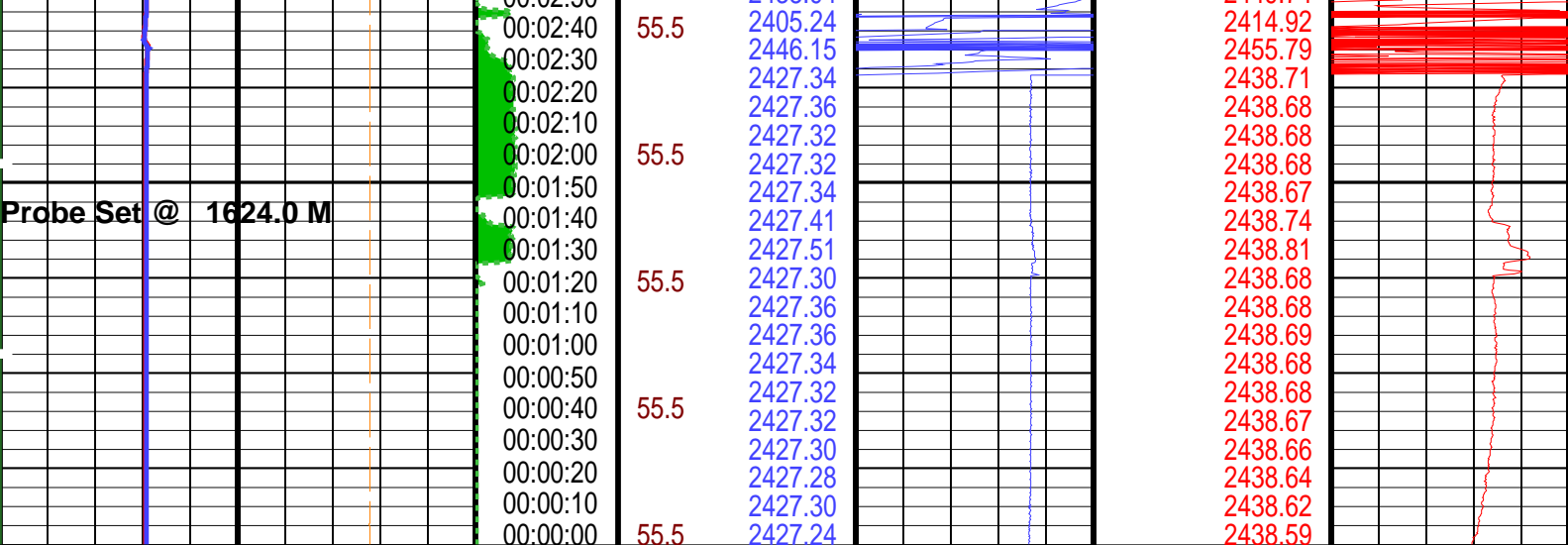
DEFAULT      MDT\_OFA\_039LTP      FN:60      PRODUCER      20-May-2008 16:37      1624.0 M      1.5 M

Elapsed Time (s)	Event Summary
514.8	Retract Quick Probe Module (MRPQ) 1
351.6	Vert Pretest 10.3 cc @ 100 C3/M Quick Probe Module (MRPQ) 1
203.4	Vert Pretest 10.1 cc @ 40 C3/M Quick Probe Module (MRPQ) 1
105.3	Probe Set @ 1624.0 M Quick Probe Module (MRPQ) 1

# PIP SUMMARY

Time Mark Every 60 S





MRPOUD Motor Speed (POUDMS) 0 (RPM) 5000		Elapsed Time (ETIM) (S)	Resistivity Cell Temperature (PQ1TR) (DEGC)	MRPQ 1 Strain Gauge Pressure (PQSG1) 0 (PSIG) 10		MRPQ 1 Quartz Gauge Pressure (PQQP1) (PSIA)	MRPQ 1 Quartz Gauge Pressure (PQQP1) (PSIA) 0 1	
MRPQ 1 Resistivity Cell Temperature (PQ1TR) (DEGC) 60 80		MRHY 1 Motor Speed (HMS1) (RPM) 0 8000	MRPQ 1 Strain Gauge Pressure (PQSG1) (PSIG)					
MRPQ 1 Quartz Gauge Pressure (PQQP1) 0 8000								
MRPQ 1 Strain Gauge Pressure (PQSG1) 0 8000								

PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
MRPQ_1: Quick Probe Module (MRPQ) 1		
QGCA	Quartz Gauge Pressure Correction Applied	BOTH
QGDA	Quartz Gauge Deviation Angle	12 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
AFA: Advanced Fluid Analyzer		
PDCO	Probe Depth Correction Offset	0 M
MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0 M

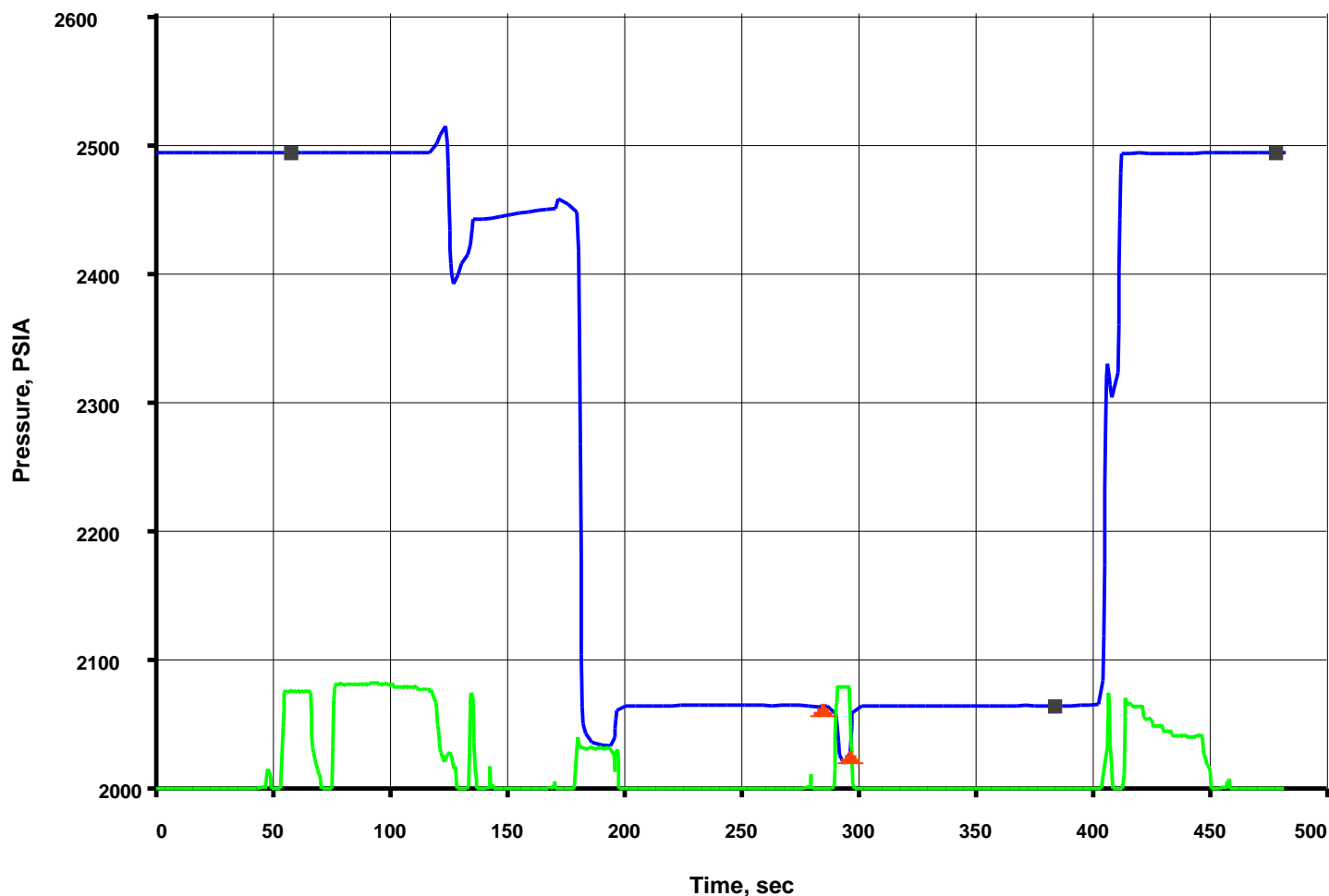
Format: MRPQ\_Prestest Vertical Scale: 1" per 60S Graphics File Created: 20-May-2008 16:37

OP System Version: 15C0-309			
MCM			
MRPQ_1	15C0-309	MRHY_1	15C0-309
MRPO_UD	15C0-309	AFA	15C0-309
MRMS_1	15C0-309	MRPC	15C0-309
SGT-L	15C0-309	TCC-BF	15C0-309

Output DLIS Files	
DEFAULT	MDT_OFA_039LTP FN:60 PRODUCER 20-May-2008 16:37

## MAXIS Field Log

File 40      Depth, M: 1656.48      Volumetric Limited draw-down – Large-Diameter probe  
20-May-2008      3D Oil      Mud Pressure before test, PSIA: 2491.85  
West Seahorse      Mud Pressure after test, PSIA: 2491.81  
Wardie-1      Last build-up pressure, PSIA: 2064.46  
Draw-down mobility, md/cp: 92.8

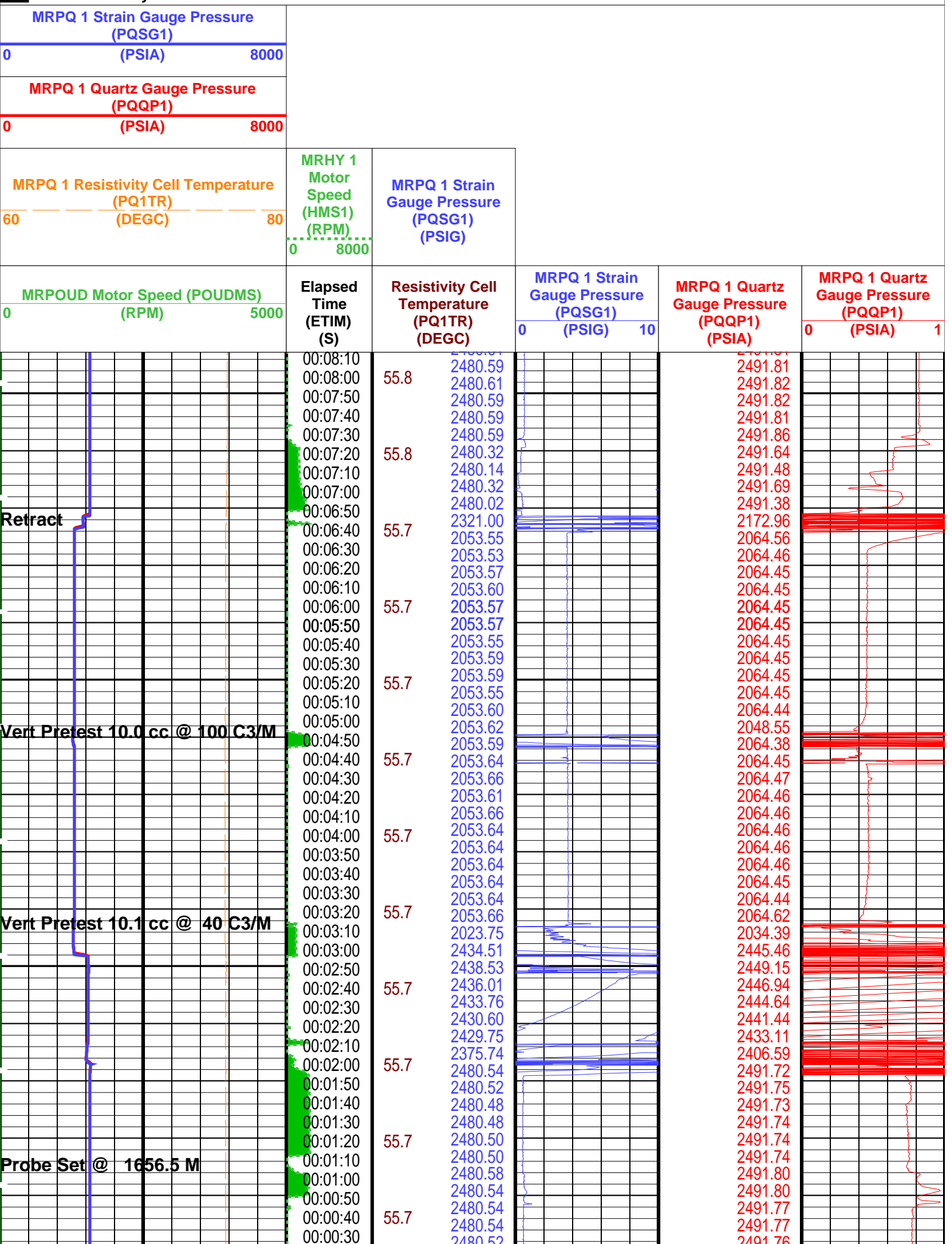


## Output DLIS Files

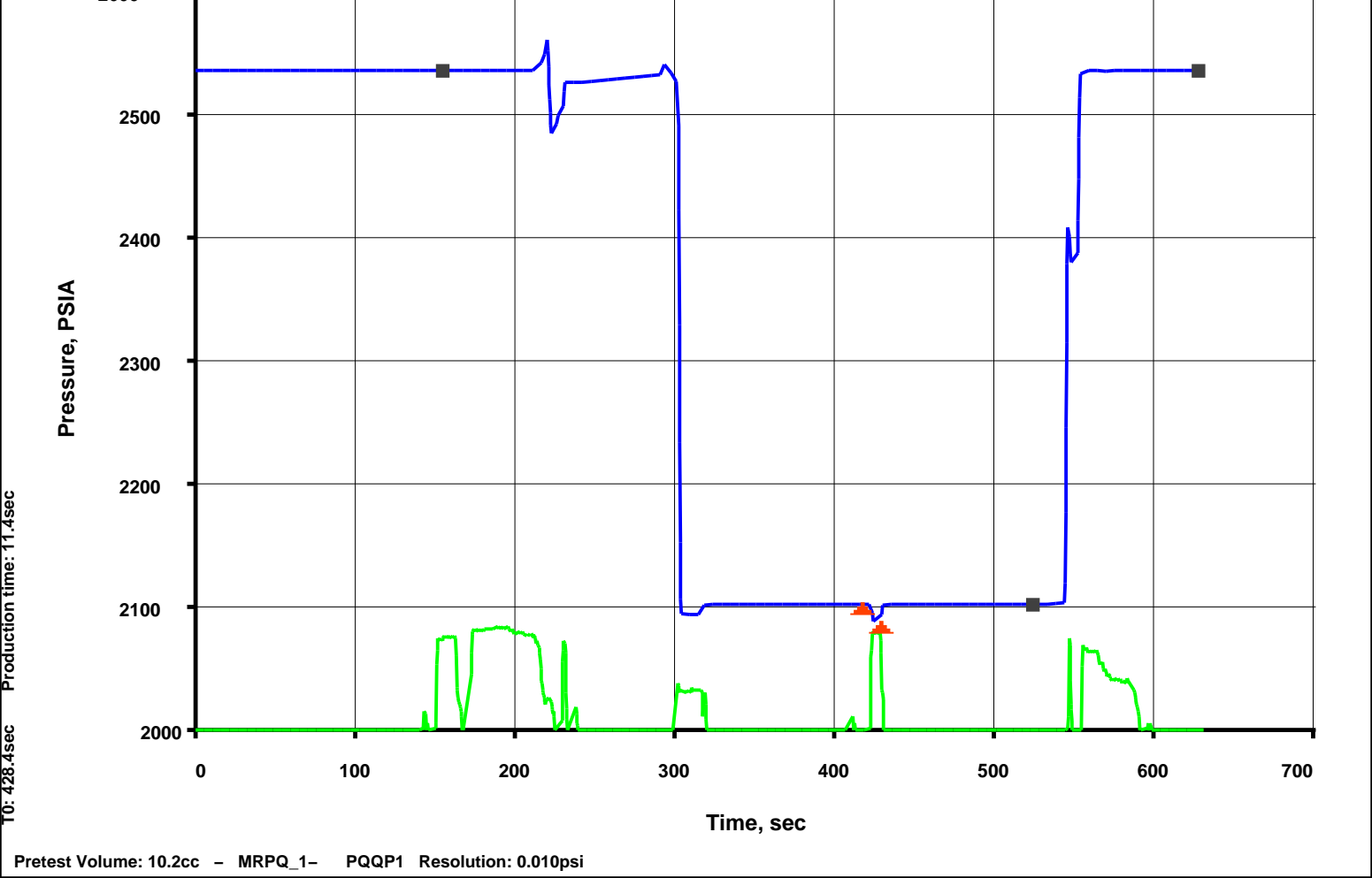
DEFAULT      MDT\_OFA\_040LTP      FN:61    PRODUCER    20-May-2008 16:55    1656.5 M      1.3 M

Elapsed Time (s)	Event Summary
409.2	Retract Quick Probe Module (MRPQ) 1
285.0	Vert Pretest 10.0 cc @ 100 C3/M Quick Probe Module (MRPQ) 1
175.5	Vert Pretest 10.1 cc @ 40 C3/M Quick Probe Module (MRPQ) 1
71.1	Probe Set @ 1656.5 M Quick Probe Module (MRPQ) 1

Time Mark Every 60 S



[illegible]



Output DLIS Files

DEFAULT MDT\_OFA\_041LTP FN:62 PRODUCER 20-May-2008 17:09 1681.5 M 1.6 M

Elapsed Time (s)	Event Summary
549.6	Retract Quick Probe Module (MRPQ) 1
417.0	Vert Pretest 10.2 cc @ 100 C3/M Quick Probe Module (MRPQ) 1
296.4	Vert Pretest 10.1 cc @ 40 C3/M Quick Probe Module (MRPQ) 1
168.0	Probe Set @ 1681.5 M Quick Probe Module (MRPQ) 1

PIP SUMMARY

Time Mark Every 60 S

MRPQ 1 Strain Gauge Pressure (PQSG1)		
0 (PSIA) 8000		
MRPQ 1 Quartz Gauge Pressure (PQQP1)		
0 (PSIA) 8000		
MRPQ 1 Resistivity Cell Temperature (PQ1TR) (DEGC)	MRHY 1 Motor Speed (HMS1) (RPM)	MRPQ 1 Strain Gauge Pressure (PQSG1) (PSIG)
60 80	0 8000	

MRPOUD Motor Speed (POUDMS) (RPM)		Elapsed Time (ETIM) (S)	Resistivity Cell Temperature (PQ1TR) (DEGC)		MRPQ 1 Strain Gauge Pressure (PQSG1) (PSIG)		MRPQ 1 Quartz Gauge Pressure (PQQP1) (PSIA)		MRPQ 1 Quartz Gauge Pressure (PQQP1) (PSIA)	
0	5000				0	10			0	1
		00:10:40	56.4	2521.94				2533.02		
		00:10:30		2521.96				2533.02		
		00:10:20		2521.92				2533.02		
		00:10:10		2521.90				2533.02		
		00:10:00	56.4	2521.92				2533.01		
		00:09:50		2521.94				2533.04		
		00:09:40		2521.69				2532.87		
		00:09:30		2521.67				2532.86		
		00:09:20	56.3	2521.57				2532.55		
		00:09:10		2521.76				2532.90		
Retract		00:09:00		2364.39				2374.61		
		00:08:50		2091.17				2102.37		
		00:08:40	56.2	2091.17				2101.90		
		00:08:30		2091.13				2101.91		
		00:08:20		2091.19				2101.91		
		00:08:10		2091.13				2101.91		
		00:08:00	56.2	2091.15				2101.90		
		00:07:50		2091.19				2101.90		
		00:07:40		2091.14				2101.90		
		00:07:30		2091.17				2101.90		
		00:07:20	56.2	2091.16				2101.91		
		00:07:10		2091.21				2101.90		
Vert Pretest 10.2 cc @ 100 C3/M		00:07:00		2091.19				2101.90		
		00:06:50		2074.14				2091.14		
		00:06:40	56.1	2091.25				2102.26		
		00:06:30		2091.21				2101.93		
		00:06:20		2091.21				2101.91		
		00:06:10		2091.23				2101.91		
		00:06:00	56.1	2091.23				2101.90		
		00:05:50		2091.23				2101.90		
		00:05:40		2091.25				2101.91		
		00:05:30		2091.27				2101.90		
Vert Pretest 10.1 cc @ 40 C3/M		00:05:20	56.1	2091.27				2101.89		
		00:05:10		2083.17				2101.88		
		00:05:00		2082.22				2093.74		
		00:04:50		2517.36				2093.34		
		00:04:40	56.1	2518.55				2530.94		
		00:04:30		2517.52				2529.48		
		00:04:20		2516.39				2528.43		
		00:04:10		2515.28				2527.30		
		00:04:00	56.1	2514.19				2526.19		
		00:03:50		2512.94				2525.04		
		00:03:40		2512.41				2523.81		
		00:03:30		2476.85				2523.43		
		00:03:20	56.0	2531.53				2487.29		
		00:03:10		2521.90				2539.04		
		00:03:00		2521.90				2533.02		
		00:02:50		2521.88				2532.99		
Probe Set @ 1681.5 M		00:02:40	56.0	2521.88				2533.00		
		00:02:30		2521.94				2533.00		
		00:02:20		2522.04				2533.01		
		00:02:10		2522.18				2533.09		
		00:02:00	55.9	2522.00				2533.24		
		00:01:50		2521.96				2533.06		
		00:01:40		2521.96				2533.07		
		00:01:30		2521.96				2533.08		
		00:01:20	55.9	2521.98				2533.08		
		00:01:10		2521.94				2533.09		
		00:01:00		2521.98				2533.10		
		00:00:50		2521.95				2533.11		
		00:00:40	55.9	2521.97				2533.13		
		00:00:30		2521.99				2533.14		
		00:00:20		2522.01				2533.16		
		00:00:10		2522.01				2533.18		
		00:00:00		2522.03				2533.20		





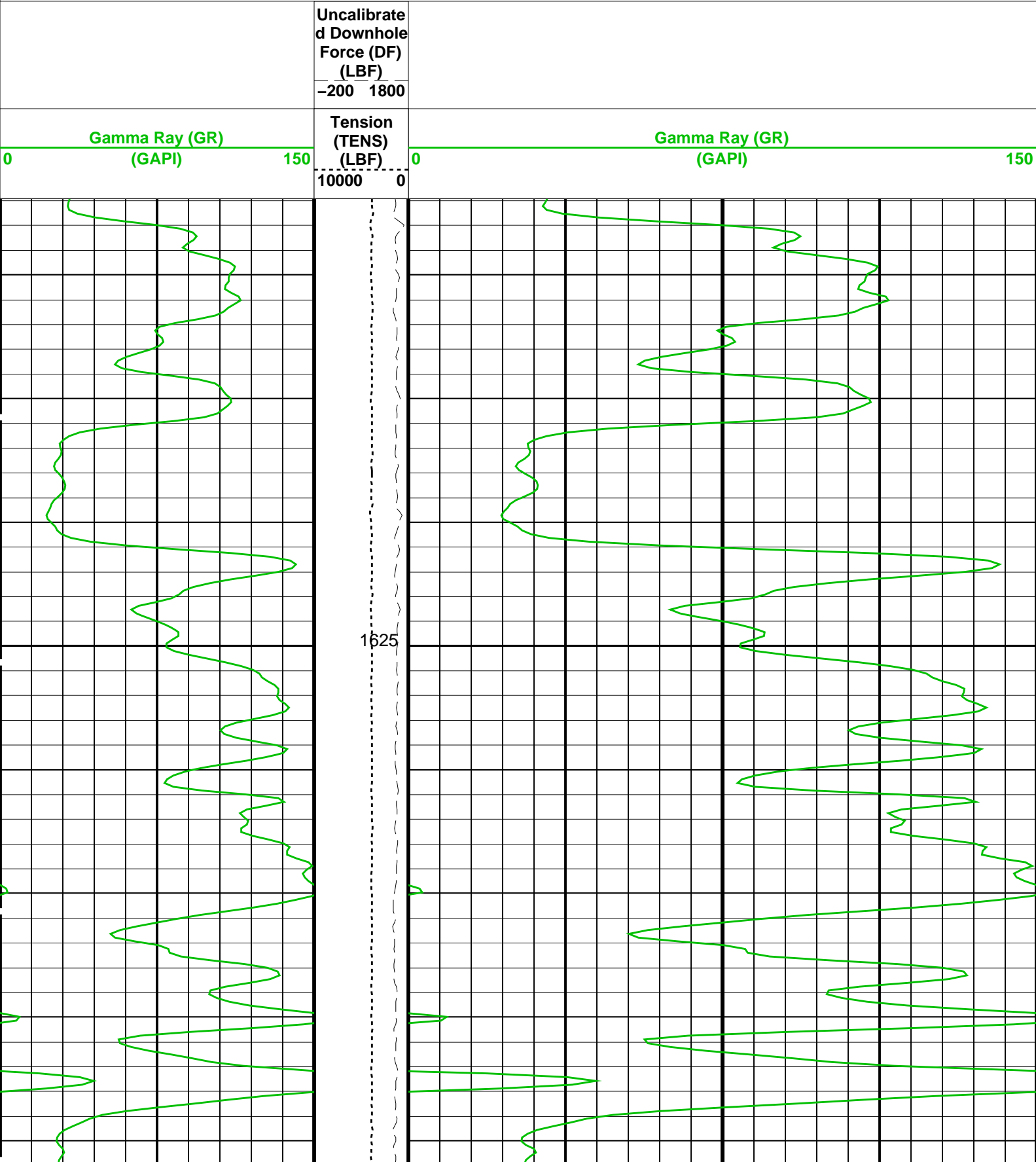
OP System Version: 15C0-309  
MCM

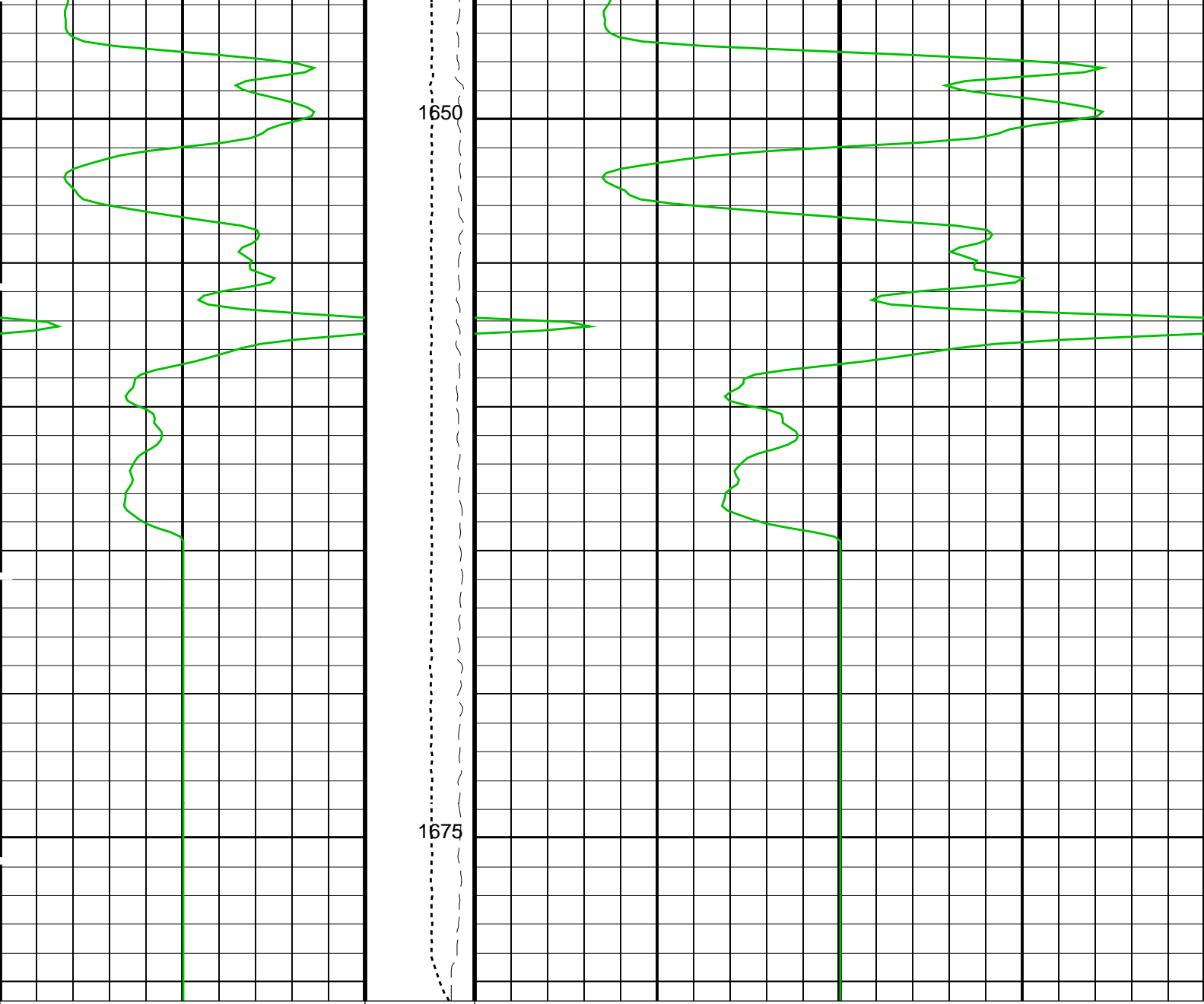
MRPQ\_1 15C0-309  
MRPO\_UD 15C0-309  
MRMS\_1 15C0-309  
SGT-L 15C0-309

MRHY\_1 15C0-309  
AFA 15C0-309  
MRPC 15C0-309  
TCC-BF 15C0-309

PIP SUMMARY

Time Mark Every 60 S





Gamma Ray (GR) (GAPI)		Tension (TENS) (LBF)	Gamma Ray (GR) (GAPI)	
0	150	10000 0	0	150
		Uncalibrated Downhole Force (DF) (LBF)		
		-200 1800		

PIP SUMMARY

☒ Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
PDCO	AFA: Advanced Fluid Analyzer Probe Depth Correction Offset	0 M
PDCO	MRPC: Power Cartridge Probe Depth Correction Offset	0 M

Format: Correlation    Vertical Scale: 1:200    Graphics File Created: 20-May-2008 10:34

MRPO_UD	15C0-309	AFA	15C0-309
MRMS_1	15C0-309	MRPC	15C0-309
SGT-L	15C0-309	TCC-BF	15C0-309

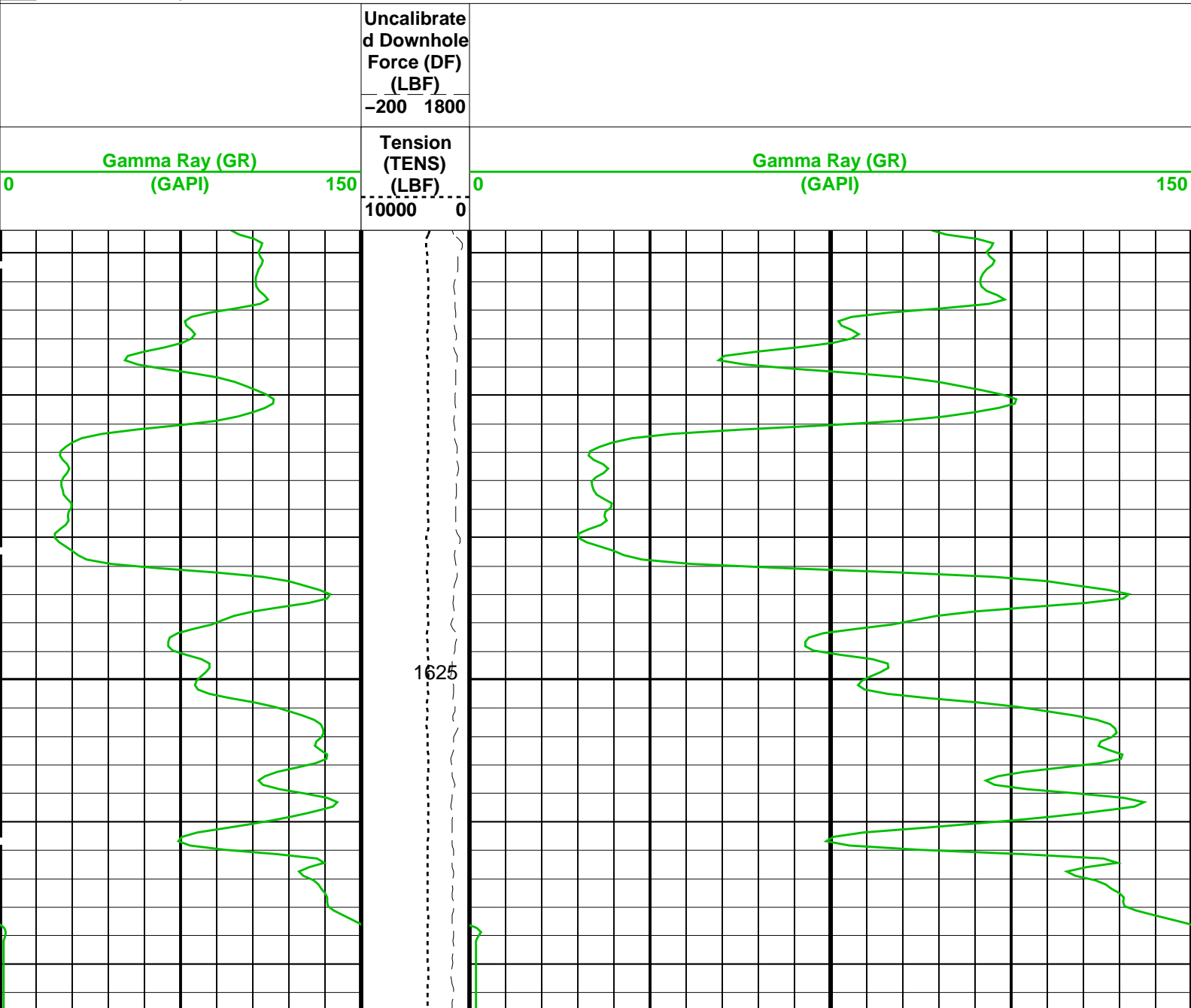
Output DLIS Files					
DEFAULT	MDT_OFA_023LUP	FN:44	PRODUCER	20-May-2008 10:34	

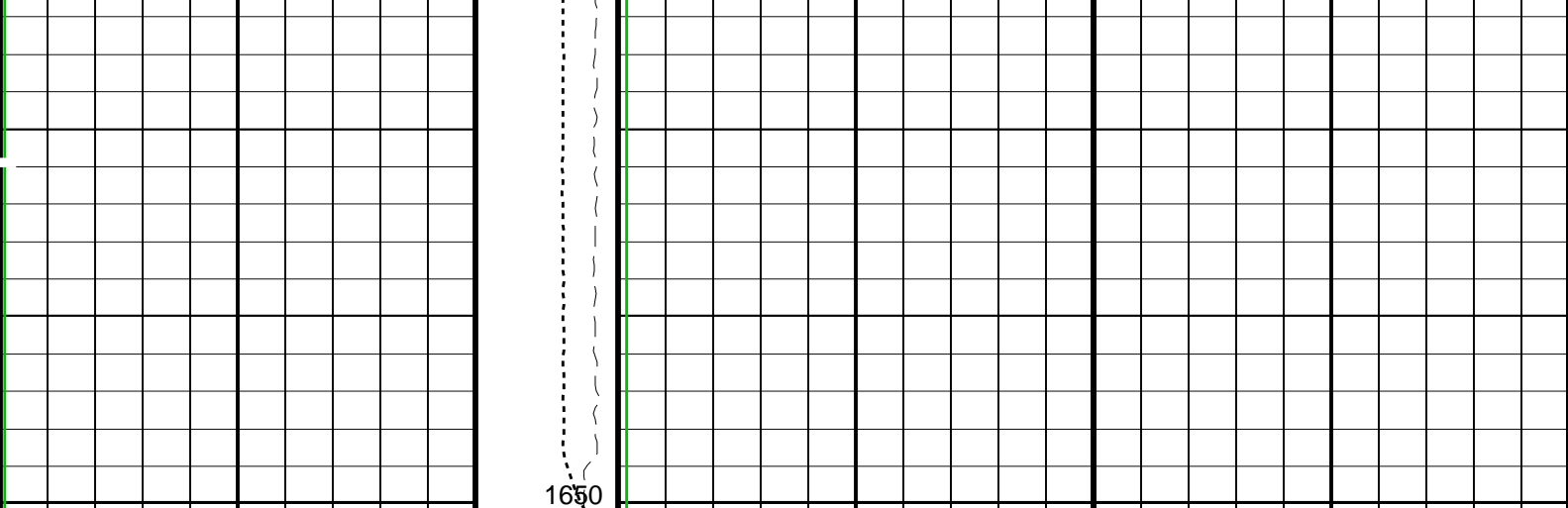
Company: 3D Oil	Well: Wardie-1
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Output DLIS Files					
DEFAULT	MDT_OFA_033LUP	FN:54	PRODUCER	20-May-2008 15:18	1650.2 M

OP System Version: 15C0-309					
MCM					
MRPQ_1	15C0-309	MRHY_1	15C0-309		
MRPO_UD	15C0-309	AFA	15C0-309		
MRMS_1	15C0-309	MRPC	15C0-309		
SGT-L	15C0-309	TCC-BF	15C0-309		

PIP SUMMARY	
 Time Mark Every 60 S	





Gamma Ray (GR) (GAPI)		150	Tension (TENS) (LBF)	0	Gamma Ray (GR) (GAPI)	150
0			10000	0		
			Uncalibrated Downhole Force (DF) (LBF)			
			-200 1800			

PIP SUMMARY						
Time Mark Every 60 S						

Parameters						
DLIS Name		Description			Value	
PDCO		AFA: Advanced Fluid Analyzer Probe Depth Correction Offset			0	M
PDCO		MRPC: Power Cartridge Probe Depth Correction Offset			0	M

Format: Correlation	Vertical Scale: 1:200	Graphics File Created: 20-May-2008 15:18
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OP System Version: 15C0-309					
MCM					
MRPQ_1	15C0-309	MRHY_1	15C0-309		
MRPO_UD	15C0-309	AFA	15C0-309		
MRMS_1	15C0-309	MRPC	15C0-309		
SGT-L	15C0-309	TCC-BF	15C0-309		

Output DLIS Files					
DEFAULT	MDT_OFA_033LUP	FN:54	PRODUCER	20-May-2008 15:18	

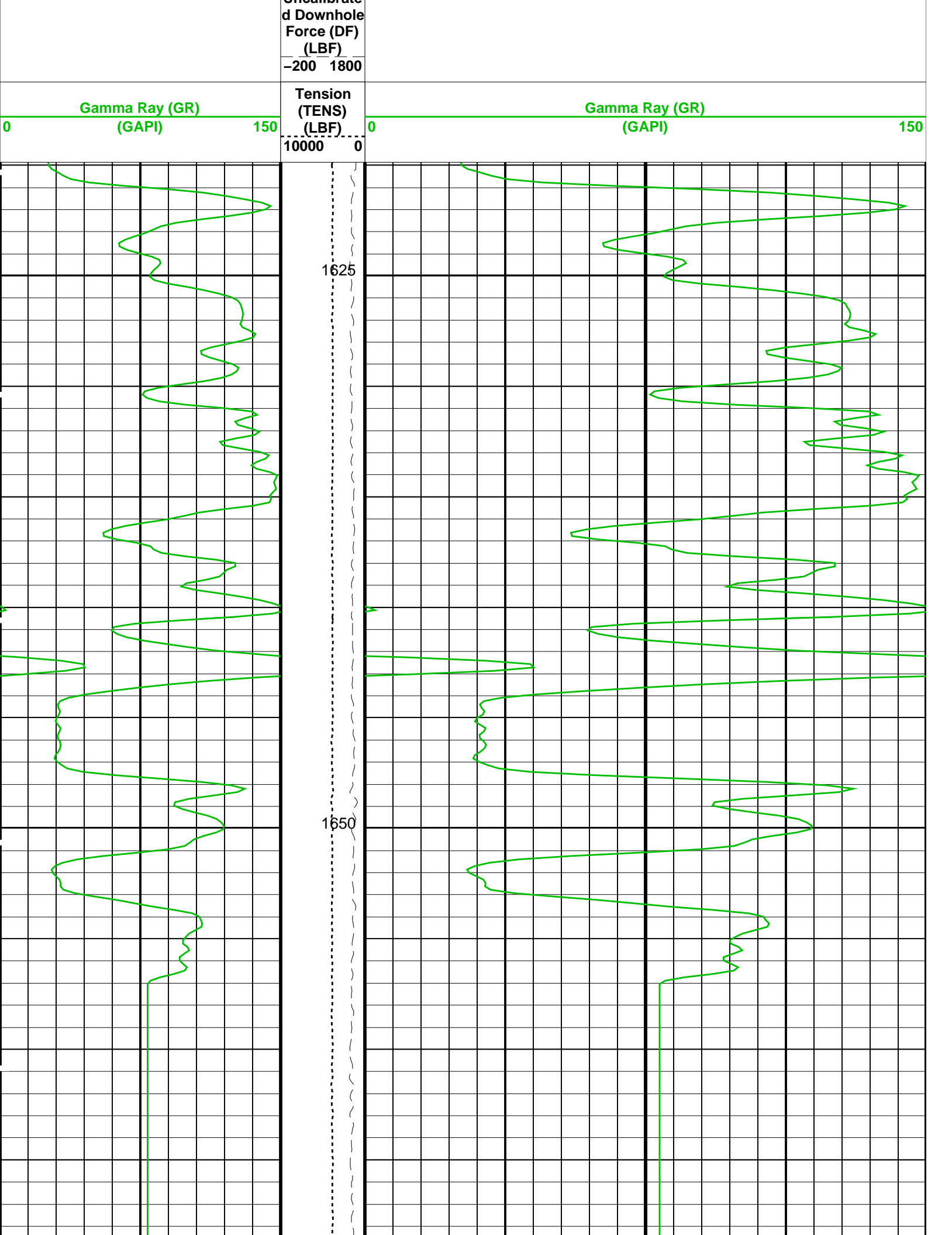
Company: 3D Oil	Well: Wardie-1
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Output DLIS Files						
DEFAULT	MDT_OFA_043LUP	FN:64	PRODUCER	20-May-2008 17:29	1673.2 M	1619.7 M

OP System Version: 15C0-309					
MCM					
MRPQ_1	15C0-309	MRHY_1	15C0-309		
MRPO_UD	15C0-309	AFA	15C0-309		
MRMS_1	15C0-309	MRPC	15C0-309		
SGT-L	15C0-309	TCC-BF	15C0-309		

PIP SUMMARY						
Time Mark Every 60 S						

Uncalibrated



<b>Gamma Ray (GR)</b> (GAPI)										<b>Gamma Ray (GR)</b> (GAPI)									
0 150										0 150									
<b>Tension (TENS)</b> (LBF)										<b>Uncalibrated Downhole Force (DF)</b> (LBF)									
10000 0										-200 1800									

Pressure CRC: C7C0  
 Temperature Model:  $T=F(Fb,Fc)$   
 Temperature Matrix: 66  
 Temperature CRC: DB57  
 Clock Comment: :  
 Clock Serial Number: 492  
 Clock Calibration Date (DDMMYY): 040707  
 Clock Model:  $Fclk=F(Fb'-Fc')$   
 Clock Matrix: 16  
 Clock CRC: ADC0  
 Fc Offset: +.514400000000E+07 Hz  
 Fb Offset: +.558800000000E+07 Hz  
 R Offset: +.470000000000E+06 Hz

#### Pressure Coefficients

	Fb**0	Fb**1	Fb**2	Fb**3
Fc**0	+.759000232755E+0	+.224263005573E-0	-.196320567066E-0	-.796574135443E-1
Fc**1	-.107224695347E+0	-.129467349666E-0	-.978180496459E-1	-.174374598097E-1
Fc**2	+.111192981807E-0	+.448342904368E-1	+.858709445641E-1	+.574883481443E-1
Fc**3	+.460145587408E-1	-.114626730041E-1	-.819054046814E-1	+.275105668528E-2
Fc**4	+.178772578010E-1	+.410527426287E-1	+.145729169473E-2	-.117444805339E-2
Fc**5	-.746704221725E-2	+.239719608176E-2	+.128494656481E-2	+.452233121298E-3
	Fb**4	Fb**5		
Fc**0	-.148076621784E-1	-.309178296706E-1		
Fc**1	-.326677433537E-2	+.160370560822E-2		
Fc**2	+.130902803720E-2	-.262968792444E-2		
Fc**3	+.680532348295E-2	-.959838976971E-3		
Fc**4	-.110045110030E-3	+.789384628156E-3		
Fc**5	-.909916455089E-3	-.376238838482E-3		

#### Temperature Coefficients

	Fc**0	Fc**1	Fc**2	Fc**3
Fb**0	+.114550322131E+0	-.348978635188E-0	+.636862825069E-0	+.452651744819E-1
Fb**1	-.601351727535E-0	+.177582017386E-0	+.154294055615E-1	-.124687202313E-1
Fb**2	-.317542882336E-0	+.354720150656E-1	+.739008177883E-1	-.662039424282E-2
Fb**3	-.270770249313E-1	-.284730991897E-1	-.245724934823E-2	+.518298771294E-2
Fb**4	-.345439066126E-1	+.164667039865E-2	-.392966509256E-2	+.166039876085E-2
Fb**5	-.124014535755E-2	+.645278280662E-2	+.125392906032E-2	-.357806354661E-3
	Fc**4	Fc**5		
Fb**0	+.233018229174E-1	-.191259582622E-2		
Fb**1	+.262757309219E-2	+.209933477387E-2		
Fb**2	-.127896832180E-2	-.140186856219E-2		
Fb**3	+.182591078187E-2	-.933368003600E-3		
Fb**4	+.108842688944E-2	+.426444048164E-3		



Fb**4	+1.108042698014E-3	+4.496111948164E-3
Fb**5	-.324039362817E-3	+6.43198076331E-4

Clock Coefficients

F'b/F'c**0	+517500080517E+0
F'b/F'c**1	+361070646957E-0
F'b/F'c**2	+807500655310E-0
F'b/F'c**3	-.644591216741E-1
F'b/F'c**4	-.511163139151E-1
F'b/F'c**5	+476490872944E-2

Vert Strain Gauge ( Quick Probe Module 1 )

Serial Number: 128849  
Range: 10K  
Calibration Date: 12/04/07  
Mean Quadratic Deviation: 0.9759  
Offset: 0.0000 PSI  
Calibration Pressure Unit: PSI  
Calibration Temperature Unit: DEGC

	G	H	I	J
0	-3.626346e+002	1.005073e+000	-9.304764e-007	4.341833e-011
1	-3.038875e-001	-6.983775e-005	1.301790e-008	-5.847315e-013
2	2.115399e-003	8.117094e-007	-9.362194e-011	2.922926e-015
3	-2.258954e-006	-3.066218e-009	1.753665e-013	0.000000e+000

Calibration and Check Summary							
Measurement	Nominal	Master	Before	After	Change	Limit	Units
Advanced Fluid Analyzer Wellsite Calibration – Spectrometer Channels							
Master: 29-Apr-2008 9:13 Before: 20-May-2008 9:19							
Dark Mode – 0	0.02500	0.02984	0.02994	N/A	N/A	N/A	V
Dark Mode – 1	0.02500	0.02967	0.02979	N/A	N/A	N/A	V
Dark Mode – 2	0.02500	0.02923	0.02935	N/A	N/A	N/A	V
Dark Mode – 3	0.02500	0.02947	0.02965	N/A	N/A	N/A	V
Dark Mode – 4	0.02500	0.02957	0.02969	N/A	N/A	N/A	V
Dark Mode – 5	0.02500	0.02934	0.02952	N/A	N/A	N/A	V
Dark Mode – 6	0.02500	0.02960	0.02966	N/A	N/A	N/A	V
Dark Mode – 7	0.02500	0.02945	0.02965	N/A	N/A	N/A	V
Dark Mode – 8	0.02500	0.02955	0.02970	N/A	N/A	N/A	V
Dark Mode – 9	0.02500	0.02910	0.02919	N/A	N/A	N/A	V
Source Mode – 0	1.700	1.094	1.079	N/A	N/A	N/A	V
Source Mode – 1	1.700	0.9662	0.9181	N/A	N/A	N/A	V
Source Mode – 2	1.700	1.125	1.079	N/A	N/A	N/A	V
Source Mode – 3	1.700	1.196	1.154	N/A	N/A	N/A	V
Source Mode – 4	1.700	0.6301	0.6123	N/A	N/A	N/A	V
Source Mode – 5	1.700	0.7815	0.7628	N/A	N/A	N/A	V

Source Mode – 5	1.700	0.7845	0.7629	N/A	N/A	N/A	V
Source Mode – 6	1.700	1.077	1.054	N/A	N/A	N/A	V
Source Mode – 7	1.700	1.253	1.230	N/A	N/A	N/A	V
Source Mode – 8	1.700	1.582	1.557	N/A	N/A	N/A	V
Source Mode – 9	1.700	2.010	1.986	N/A	N/A	N/A	V

#### Advanced Fluid Analyzer Wellsite Calibration – Gas Detector Channels

Master: 29–Apr–2008 9:13 Before: 20–May–2008 9:19

Dark Mode – 0	0.02500	0.02973	0.02994	N/A	N/A	N/A	V
Dark Mode – 1	0.02500	0.02953	0.02965	N/A	N/A	N/A	V
Dark Mode – 2	0.02500	0.02947	0.02963	N/A	N/A	N/A	V
Dark Mode – 3	0.02500	0.02934	0.02942	N/A	N/A	N/A	V
Dark Mode – 4	0.02500	0.02935	0.02939	N/A	N/A	N/A	V
Dark Mode – 5	0.02500	0.02908	0.02928	N/A	N/A	N/A	V

#### Advanced Fluid Analyzer Wellsite Calibration – Gas Detector Source Intensity

Master: 29–Apr–2008 9:13 Before: 20–May–2008 9:19

Source Intensity Dark Mode	0.02600	0.02948	0.02963	N/A	N/A	N/A	V
Source Intensity Source Mode	0.2500	0.2787	0.2782	N/A	N/A	N/A	V

#### Advanced Fluid Analyzer Master Calibration – Spectrometer

Master: 29–Apr–2008 9:13

Dry Dark Mode – 0	0.02500	0.02984	---	---	---	---	V
Dry Dark Mode – 1	0.02500	0.02967	---	---	---	---	V
Dry Dark Mode – 2	0.02500	0.02923	---	---	---	---	V
Dry Dark Mode – 3	0.02500	0.02947	---	---	---	---	V
Dry Dark Mode – 4	0.02500	0.02957	---	---	---	---	V
Dry Dark Mode – 5	0.02500	0.02934	---	---	---	---	V
Dry Dark Mode – 6	0.02500	0.02960	---	---	---	---	V
Dry Dark Mode – 7	0.02500	0.02945	---	---	---	---	V
Dry Dark Mode – 8	0.02500	0.02955	---	---	---	---	V
Dry Dark Mode – 9	0.02500	0.02910	---	---	---	---	V
Dry Source Mode – 0	1.700	1.094	---	---	---	---	V
Dry Source Mode – 1	1.700	0.9662	---	---	---	---	V
Dry Source Mode – 2	1.700	1.125	---	---	---	---	V
Dry Source Mode – 3	1.700	1.196	---	---	---	---	V
Dry Source Mode – 4	1.700	0.6301	---	---	---	---	V
Dry Source Mode – 5	1.700	0.7845	---	---	---	---	V
Dry Source Mode – 6	1.700	1.077	---	---	---	---	V
Dry Source Mode – 7	1.700	1.253	---	---	---	---	V
Dry Source Mode – 8	1.700	1.582	---	---	---	---	V
Dry Source Mode – 9	1.700	2.010	---	---	---	---	V
Dry Measure Mode – 0	2.700	2.640	---	---	---	---	V
Dry Measure Mode – 1	2.700	2.241	---	---	---	---	V
Dry Measure Mode – 2	2.700	2.675	---	---	---	---	V
Dry Measure Mode – 3	2.700	2.703	---	---	---	---	V
Dry Measure Mode – 4	2.700	2.753	---	---	---	---	V
Dry Measure Mode – 5	2.700	2.730	---	---	---	---	V
Dry Measure Mode – 6	2.700	2.772	---	---	---	---	V
Dry Measure Mode – 7	2.700	2.740	---	---	---	---	V
Dry Measure Mode – 8	2.700	2.638	---	---	---	---	V
Dry Measure Mode – 9	2.700	2.609	---	---	---	---	V
Oil Dark Mode – 0	0.02500	0.02988	---	---	---	---	V
Oil Dark Mode – 1	0.02500	0.02969	---	---	---	---	V
Oil Dark Mode – 2	0.02500	0.02927	---	---	---	---	V
Oil Dark Mode – 3	0.02500	0.02952	---	---	---	---	V
Oil Dark Mode – 4	0.02500	0.02960	---	---	---	---	V
Oil Dark Mode – 5	0.02500	0.02936	---	---	---	---	V
Oil Dark Mode – 6	0.02500	0.02967	---	---	---	---	V
Oil Dark Mode – 7	0.02500	0.02951	---	---	---	---	V
Oil Dark Mode – 8	0.02500	0.02961	---	---	---	---	V
Oil Dark Mode – 9	0.02500	0.02914	---	---	---	---	V
Oil Source Mode – 0	1.700	1.090	---	---	---	---	V
Oil Source Mode – 1	1.700	0.9612	---	---	---	---	V
Oil Source Mode – 2	1.700	1.121	---	---	---	---	V
Oil Source Mode – 3	1.700	1.192	---	---	---	---	V
Oil Source Mode – 4	1.700	0.6251	---	---	---	---	V
Oil Source Mode – 5	1.700	0.7793	---	---	---	---	V
Oil Source Mode – 6	1.700	1.071	---	---	---	---	V
Oil Source Mode – 7	1.700	1.248	---	---	---	---	V
Oil Source Mode – 8	1.700	1.575	---	---	---	---	V
Oil Source Mode – 9	1.700	2.007	---	---	---	---	V
Oil Measure Mode – 0	1.000	2.485	---	---	---	---	V
Oil Measure Mode – 1	1.000	2.486	---	---	---	---	V
Oil Measure Mode – 2	1.000	3.150	---	---	---	---	V
Oil Measure Mode – 3	1.000	3.190	---	---	---	---	V
Oil Measure Mode – 4	1.000	3.246	---	---	---	---	V
Oil Measure Mode – 5	1.000	3.140	---	---	---	---	V
Oil Measure Mode – 6	1.000	2.802	---	---	---	---	V
Oil Measure Mode – 7	1.000	3.063	---	---	---	---	V
Oil Measure Mode – 8	1.000	0.4603	---	---	---	---	V
Oil Measure Mode – 9	1.000	1.952	---	---	---	---	V

Water Dark Mode – 0	0.02500	0.02986	--	--	--	--	V
Water Dark Mode – 1	0.02500	0.02970	--	--	--	--	V
Water Dark Mode – 2	0.02500	0.02927	--	--	--	--	V
Water Dark Mode – 3	0.02500	0.02949	--	--	--	--	V
Water Dark Mode – 4	0.02500	0.02957	--	--	--	--	V
Water Dark Mode – 5	0.02500	0.02938	--	--	--	--	V
Water Dark Mode – 6	0.02500	0.02963	--	--	--	--	V
Water Dark Mode – 7	0.02500	0.02951	--	--	--	--	V
Water Dark Mode – 8	0.02500	0.02958	--	--	--	--	V
Water Dark Mode – 9	0.02500	0.02914	--	--	--	--	V
Water Source Mode – 0	1.700	1.088	--	--	--	--	V
Water Source Mode – 1	1.700	0.9628	--	--	--	--	V
Water Source Mode – 2	1.700	1.121	--	--	--	--	V
Water Source Mode – 3	1.700	1.193	--	--	--	--	V
Water Source Mode – 4	1.700	0.6257	--	--	--	--	V
Water Source Mode – 5	1.700	0.7780	--	--	--	--	V
Water Source Mode – 6	1.700	1.067	--	--	--	--	V
Water Source Mode – 7	1.700	1.244	--	--	--	--	V
Water Source Mode – 8	1.700	1.576	--	--	--	--	V
Water Source Mode – 9	1.700	2.006	--	--	--	--	V
Water Measure Mode – 0	1.000	0.8535	--	--	--	--	V
Water Measure Mode – 1	1.000	2.547	--	--	--	--	V
Water Measure Mode – 2	1.000	3.049	--	--	--	--	V
Water Measure Mode – 3	1.000	3.081	--	--	--	--	V
Water Measure Mode – 4	1.000	3.046	--	--	--	--	V
Water Measure Mode – 5	1.000	2.376	--	--	--	--	V
Water Measure Mode – 6	1.000	0.03516	--	--	--	--	V
Water Measure Mode – 7	1.000	0.6276	--	--	--	--	V
Water Measure Mode – 8	1.000	0.7929	--	--	--	--	V
Water Measure Mode – 9	1.000	0.02955	--	--	--	--	V

#### Advanced Fluid Analyzer Master Calibration – Gas Detector

Master: 29-Apr-2008 9:13

Dry Dark Mode – 0	0.02500	0.02973	--	--	--	--	V
Dry Dark Mode – 1	0.02500	0.02953	--	--	--	--	V
Dry Dark Mode – 2	0.02500	0.02947	--	--	--	--	V
Dry Dark Mode – 3	0.02500	0.02934	--	--	--	--	V
Dry Dark Mode – 4	0.02500	0.02935	--	--	--	--	V
Dry Dark Mode – 5	0.02500	0.02908	--	--	--	--	V
Dry Measure Mode – 0	0	0.08634	--	--	--	--	V
Dry Measure Mode – 1	0	0.1814	--	--	--	--	V
Dry Measure Mode – 2	0	0.3657	--	--	--	--	V
Dry Measure Mode – 3	0	0.3723	--	--	--	--	V
Dry Measure Mode – 4	0	0.3787	--	--	--	--	V
Dry Measure Mode – 5	0	0.3315	--	--	--	--	V
Dry Normalized – 0	0	0.1651	--	--	--	--	V
Dry Normalized – 1	0	0.4430	--	--	--	--	V
Dry Normalized – 2	0	0.9804	--	--	--	--	V
Dry Normalized – 3	0	1.000	--	--	--	--	V
Dry Normalized – 4	0	1.019	--	--	--	--	V
Dry Normalized – 5	0	0.8819	--	--	--	--	V
Water Dark Mode – 0	0.02500	0.02978	--	--	--	--	V
Water Dark Mode – 1	0.02500	0.02961	--	--	--	--	V
Water Dark Mode – 2	0.02500	0.02949	--	--	--	--	V
Water Dark Mode – 3	0.02500	0.02940	--	--	--	--	V
Water Dark Mode – 4	0.02500	0.02937	--	--	--	--	V
Water Dark Mode – 5	0.02500	0.02914	--	--	--	--	V
Water Measure Mode – 0	1.000	0.07891	--	--	--	--	V
Water Measure Mode – 1	1.000	0.05887	--	--	--	--	V
Water Measure Mode – 2	1.000	0.04290	--	--	--	--	V
Water Measure Mode – 3	1.000	0.04078	--	--	--	--	V
Water Measure Mode – 4	1.000	0.05188	--	--	--	--	V
Water Measure Mode – 5	1.000	0.08549	--	--	--	--	V

#### Advanced Fluid Analyzer Master Calibration – Gas Detector Source Intensity

Master: 29-Apr-2008 9:13

Source Intensity Dark Mode	0.02600	0.02948	--	--	--	--	V
Source Intensity Source Mode	0.2500	0.2787	--	--	--	--	V

#### Advanced Fluid Analyzer Master Calibration – Absorption Coefficients

Master: 29-Apr-2008 9:18

Oil Absorption Coefficient – 0	0	0.02651	--	--	--	--	V
Oil Absorption Coefficient – 1	0	-0.04560	--	--	--	--	V
Oil Absorption Coefficient – 2	0	-0.07165	--	--	--	--	V
Oil Absorption Coefficient – 3	0	-0.07270	--	--	--	--	V
Oil Absorption Coefficient – 4	0	-0.07221	--	--	--	--	V
Oil Absorption Coefficient – 5	0	-0.06144	--	--	--	--	V
Oil Absorption Coefficient – 6	0	-0.004719	--	--	--	--	V
Oil Absorption Coefficient – 7	0	-0.04883	--	--	--	--	V
Oil Absorption Coefficient – 8	0	0.7822	--	--	--	--	V
Oil Absorption Coefficient – 9	0	0.1276	--	--	--	--	V
Water Absorption Coefficient – 0	0	0.5822	--	--	--	--	V

Water Absorption Coeff - 0	0	0.5009	---	---	---	---	V
Water Absorption Coeff - 1	0	-0.05622	---	---	---	---	V
Water Absorption Coeff - 2	0	-0.05747	---	---	---	---	V
Water Absorption Coeff - 3	0	-0.05745	---	---	---	---	V
Water Absorption Coeff - 4	0	-0.04436	---	---	---	---	V
Water Absorption Coeff - 5	0	0.06109	---	---	---	---	V
Water Absorption Coeff - 6	0	2.695	---	---	---	---	V
Water Absorption Coeff - 7	0	0.6563	---	---	---	---	V
Water Absorption Coeff - 8	0	0.5336	---	---	---	---	V
Water Absorption Coeff - 9	0	3.801	---	---	---	---	V

Scintillation Gamma-Ray – L Wellsite Calibration – Detector Calibration

Before: 18-May-2008 9:41











Gamma Ray Background	30.00	N/A	52.73	N/A	N/A	N/A	GAPI
Gamma Ray (Jig – Bkg)	166.6	N/A	166.6	N/A	N/A	15.15	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI





Advanced Fluid Analyzer / Equipment Identification





























































Primary Equipment:		MRFA – FA	8552
Advanced Fluid Analyzer			
Auxiliary Equipment:			

Advanced Fluid Analyzer Wellsite Calibration							
Spectrometer Channels							
Idx	Phase	Dark Mode V	Value	Idx	Phase	Source Mode V	Value
0	Master		0.02984	0	Master		1.094
	Before		0.02994		Before		1.079
1	Master		0.02967	1	Master		0.9662
	Before		0.02979		Before		0.9181
2	Master		0.02923	2	Master		1.125
	Before		0.02935		Before		1.079
3	Master		0.02947	3	Master		1.196
	Before		0.02965		Before		1.154
4	Master		0.02957	4	Master		0.6301
	Before		0.02969		Before		0.6123
5	Master		0.02934	5	Master		0.7845
	Before		0.02952		Before		0.7629
6	Master		0.02960	6	Master		1.077
	Before		0.02966		Before		1.054
7	Master		0.02945	7	Master		1.253
	Before		0.02965		Before		1.230
8	Master		0.02955	8	Master		1.582
	Before		0.02970		Before		1.557
9	Master		0.02910	9	Master		2.010
	Before		0.02919		Before		1.986
0.01700 (Minimum)			0.02500 (Nominal)	0.03300 (Maximum)			
				0.2000 (Minimum)			1.700 (Nominal)
							3.200 (Maximum)
Master: 29-Apr-2008 9:13				Before: 20-May-2008 9:19			

Advanced Fluid Analyzer Wellsite Calibration			
Gas Detector Channels			
Idx	Phase	Dark Mode V	Value
0	Master		0.02973
	Before		0.02994

1	Master		0.02953
	Before		0.02965
2	Master		0.02947
	Before		0.02963
3	Master		0.02934
	Before		0.02942
4	Master		0.02935
	Before		0.02939
5	Master		0.02908
	Before		0.02928
		0.01700 (Minimum) 0.02500 (Nominal) 0.03300 (Maximum)	
Master: 29-Apr-2008 9:13			
Before: 20-May-2008 9:19			

Advanced Fluid Analyzer Wellsite Calibration					
Gas Detector Source Intensity					
Phase	Source Intensity Dark Mode V	Value	Phase	Source Intensity Source Mode V	Value
Master		0.02948	Master		0.2787
Before		0.02963	Before		0.2782
		0.01700 (Minimum) 0.02600 (Nominal) 0.03500 (Maximum)			0.1900 (Minimum) 0.2500 (Nominal) 0.3100 (Maximum)
Master: 29-Apr-2008 9:13			Before: 20-May-2008 9:19		

Advanced Fluid Analyzer Master Calibration											
Spectrometer											
Idx	Dry Dark Mode V		Value	Idx	Dry Source Mode V		Value	Idx	Dry Measure Mode V		Value
0			0.02984	0			1.094	0			2.640
1			0.02967	1			0.9662	1			2.241
2			0.02923	2			1.125	2			2.675
3			0.02947	3			1.196	3			2.703
4			0.02957	4			0.6301	4			2.753
5			0.02934	5			0.7845	5			2.730
6			0.02960	6			1.077	6			2.772
7			0.02945	7			1.253	7			2.740
8			0.02955	8			1.582	8			2.638
9			0.02910	9			2.010	9			2.609
0.01700 (Minimum) 0.02500 (Nominal) 0.03300 (Maximum)				0.2000 (Minimum) 1.700 (Nominal) 3.200 (Maximum)				1.350 (Minimum) 2.700 (Nominal) 3.200 (Maximum)			
Idx	Oil Dark Mode V		Value	Idx	Oil Source Mode V		Value	Idx	Oil Measure Mode V		Value
0			0.02988	0			1.090	0			2.485
1			0.02969	1			0.9612	1			2.486
2			0.02927	2			1.121	2			3.150
3			0.02952	3			1.192	3			3.190
4			0.02960	4			0.6251	4			3.246
5			0.02936	5			0.7793	5			3.140
6			0.02967	6			1.071	6			2.802
7			0.02951	7			1.248	7			3.063
8			0.02961	8			1.575	8			0.4603
9			0.02914	9			2.007	9			1.952
0.01700 (Minimum) 0.02500 (Nominal) 0.03300 (Maximum)				0.2000 (Minimum) 1.700 (Nominal) 3.200 (Maximum)				0 (Minimum) 1.000 (Nominal) 4.500 (Maximum)			

Idx	Water Dark Mode V	Value	Idx	Water Source Mode V	Value	Idx	Water Measure Mode V	Value					
0		0.02986	0		1.088	0		0.8535					
1		0.02970	1		0.9628	1		2.547					
2		0.02927	2		1.121	2		3.049					
3		0.02949	3		1.193	3		3.081					
4		0.02957	4		0.6257	4		3.046					
5		0.02938	5		0.7780	5		2.376					
6		0.02963	6		1.067	6		0.03516					
7		0.02951	7		1.244	7		0.6276					
8		0.02958	8		1.576	8		0.7929					
9		0.02914	9		2.006	9		0.02955					
0.01700 (Minimum)		0.02500 (Nominal)	0.03300 (Maximum)		0.2000 (Minimum)		1.700 (Nominal)	3.200 (Maximum)	0 (Minimum)		1.000 (Nominal)	4.500 (Maximum)	
Master: 29-Apr-2008 9:13													

Advanced Fluid Analyzer Master Calibration												
Gas Detector												
Idx	Dry Dark Mode V		Value	Idx	Dry Measure Mode V		Value	Idx	Dry Normalized V		Value	
0			0.02973	0			0.08634	0			0.1651	
1			0.02953	0	(Minimum)	0.5000 (Nominal)	1.000 (Maximum)	0.1000 (Minimum)	0.2400 (Nominal)	0.5000 (Maximum)		
2			0.02947	1			0.1814	1			0.4430	
3			0.02934	0	(Minimum)	0.5000 (Nominal)	1.000 (Maximum)	0.2000 (Minimum)	0.4600 (Nominal)	0.8000 (Maximum)		
4			0.02935	2			0.3657	2			0.9804	
5			0.02908	0	(Minimum)	0.5000 (Nominal)	1.000 (Maximum)	0.7000 (Minimum)	1.010 (Nominal)	1.300 (Maximum)		
0.01700 (Minimum)			0.02500 (Nominal)	0.03300 (Maximum)	3			0.3723	3			1.000
Idx	Water Dark Mode V		Value	0.3000 (Minimum)		0.5000 (Nominal)	1.000 (Maximum)	1.000 (Minimum)		1.000 (Nominal)	1.000 (Maximum)	
0			0.02978	4			0.3787	4			1.019	
1			0.02961	0	(Minimum)	0.5000 (Nominal)	1.000 (Maximum)	0.6000 (Minimum)	0.9200 (Nominal)	1.200 (Maximum)		
2			0.02949	5			0.3315	5			0.8819	
3			0.02940	0	(Minimum)	0.5000 (Nominal)	1.000 (Maximum)	0.4000 (Minimum)	0.7500 (Nominal)	1.000 (Maximum)		
4			0.02937	Idx		Water Measure Mode V		Value				
5			0.02914	0			0.07891					
0.01700 (Minimum)			0.02500 (Nominal)	0.03300 (Maximum)	1			0.05887				
					2			0.04290				
					3			0.04078				
					4			0.05188				
					5			0.08549				
					0	1.000 (Nominal)	4.500 (Maximum)					
					Master: 29-Apr-2008 9:13							

Advanced Fluid Analyzer Master Calibration							
Gas Detector Source Intensity							
Source Intensity Dark Mode V			Value	Source Intensity Source Mode V			Value
			0.02948				0.2787
0.01700 (Minimum)	0.02600 (Nominal)	0.03500 (Maximum)		0.1900 (Minimum)	0.2500 (Nominal)	0.3100 (Maximum)	
Master: 29-Apr-2008 9:13							

Advanced Fluid Analyzer Master Calibration							
Absorption Coefficients							
Idx	Oil Absorption Coefficients V		Value	Idx	Water Absorption Coefficients V		Value

			0.02651	0		0.5009
0 (Minimum)	0.05500 (Nominal)	0.1100 (Maximum)		0.4300 (Minimum)	0.4800 (Nominal)	0.5300 (Maximum)
1			-0.04560	1		-0.05622
-0.1000 (Minimum)	-0.06000 (Nominal)	-0.02000 (Maximum)		-0.09000 (Minimum)	-0.05000 (Nominal)	-0.010000 (Maximum)
2			-0.07165	2		-0.05747
-0.1000 (Minimum)	-0.06500 (Nominal)	-0.03000 (Maximum)		-0.09000 (Minimum)	-0.05500 (Nominal)	-0.02000 (Maximum)
3			-0.07270	3		-0.05745
-0.1000 (Minimum)	-0.06000 (Nominal)	-0.02000 (Maximum)		-0.09000 (Minimum)	-0.05500 (Nominal)	-0.02000 (Maximum)
4			-0.07221	4		-0.04436
-0.1000 (Minimum)	-0.06000 (Nominal)	-0.02000 (Maximum)		-0.07000 (Minimum)	-0.03500 (Nominal)	0 (Maximum)
5			-0.06144	5		0.06109
-0.08000 (Minimum)	-0.04500 (Nominal)	-0.010000 (Maximum)		0.02000 (Minimum)	0.06000 (Nominal)	0.1000 (Maximum)
6			-0.004719	6		2.695
-0.03000 (Minimum)	-0.005000 (Nominal)	0.02000 (Maximum)		2.520 (Minimum)	2.660 (Nominal)	2.800 (Maximum)
7			-0.04883	7		0.6563
-0.08000 (Minimum)	-0.04000 (Nominal)	0 (Maximum)		0.5500 (Minimum)	0.6200 (Nominal)	0.6900 (Maximum)
8			0.7822	8		0.5336
0.6600 (Minimum)	0.7500 (Nominal)	0.8400 (Maximum)		0.4700 (Minimum)	0.5150 (Nominal)	0.5600 (Maximum)
9			0.1276	9		3.801
0.08000 (Minimum)	0.1300 (Nominal)	0.1800 (Maximum)		2.500 (Minimum)	3.850 (Nominal)	50.00 (Maximum)

Master: 29-Apr-2008 9:18

### Scintillation Gamma-Ray – L / Equipment Identification

#### Primary Equipment:

Scintillation Gamma Cartridge  
Scintillation Gamma Detector

SGC – SA 735  
SGD – TAA

#### Auxiliary Equipment:

Scintillation Gamma Housing  
Gamma Source Radioactive

SGH – K 403  
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			52.73	Before			166.6	Before			165.0
0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		151.5 (Minimum)	166.6 (Nominal)	181.8 (Maximum)		150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)	

Before: 18-May-2008 9:41

**Schlumberger**

**Inclination Data**

## WFTI INCLINOMETRY LIST

Meas. Tie Depth : 703.8 M True Vert. Tie Depth: 667.9 M |

Measured Depth (M )	Deviation (DEG)	Azimuth Depth (DEG)	True Vertical Depth (M )
703.8	34.90	240.07	667.9
722.5	34.35	239.86	683.3
802.8	32.02	241.09	750.5
831.5	30.76	239.33	775.0
861.5	31.64	238.19	800.6
891.2	31.39	236.51	826.0
920.2	31.58	236.01	850.7
949.8	31.70	236.73	875.8
979.8	31.37	237.60	901.4
1009.2	31.56	240.47	926.5
1039.0	31.64	239.79	951.9
1066.6	31.64	241.83	975.4
1096.5	32.01	242.11	1000.8
1125.9	32.34	242.75	1025.7
1155.7	32.17	242.53	1050.9
1184.6	32.35	243.98	1075.3
1214.8	32.18	244.06	1100.9
1244.9	30.73	243.07	1126.5
1274.2	29.50	243.74	1151.9
1303.8	28.32	243.43	1177.8
1333.2	26.97	243.84	1203.9
1363.3	25.76	244.51	1230.8
1392.3	24.64	245.10	1257.1
1421.7	23.41	245.94	1283.9
1451.5	21.93	245.34	1311.4
1481.2	19.28	245.06	1339.2
1511.2	16.74	243.33	1367.7
1540.8	14.49	240.57	1396.3
1570.2	12.40	236.98	1424.8
1599.8	10.35	236.26	1453.8
1630.2	9.46	236.73	1483.7
1659.9	8.81	235.87	1513.1
1689.4	8.19	235.45	1542.3
1718.8	7.67	235.27	1571.4
1745.7	7.36	234.18	1598.0
1766.0	7.36	234.18	1618.2



Field: **Exploration**  
Rig: **West Triton**  
Country: **Australia**

MDT-GR  
PRETEST  
Suite 1 Run 2