Company	**JAMSTEC**
Well Name	**C0020A**
Field Name	**C0020**
Field Location	**Shimokita-oki**
UWID	
Engineer's Name	**Liu Jie, Harlow, Kang Youwei**
Date	**16-Sep-2012**
Report Date	**09-16-2012**
Prepared By	**Liu Jie**
Job Number	**Suite 2**
Run Number	**4**

Schlumberger

Modular Formation Dynamics Tester

Interpretation Report

DCS

Innovations in Formation Testing

InSitu Pro* 3.0.0

* Mark of Schlumberger

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1 Interpretation Summary

1.1 Comments

–

1.2 Pretest Summary Table

Table 1 C0020A

C0020A		Total
Pretest Type		
Volumetric Drawdown Pretest		29
Pretest Status		
Valid Test		28
Tight Test		1
Gauge		
PQQP2		29
Runs	**Color**	
4 (12-Sep-2012)		29
Formation Pressure Quality	**Color**	
NA		1
High		28
Drawdown Mobility Quality	**Color**	
NA		1
High		28

2 Well and Job Data

2.1 Well Header

Company: JAMSTEC
Well: C0020A
County: Aomori
Field: C0020
State:

MDT Pretest & Sampling

CGA-PO-PQ(QS)-PQ(XLD)-PO-IFA-MS-PC-GR

Station Log

Company:	JAMSTEC
Well:	C0020A
Field:	C0020
Pref:	Aomori

Latitude:	41*10.5983'N	UWID:	
Longitude :	142*12.0328'E	Rig Name:	Chikyu
		Rig Type:	Drilling Ship

FL:	Shimokita-oki
FL1:	X=600698.8M
FL2:	Y=4559060.5M

Acquisition Date:	16-Sep-2012
Print Interval:	
Index Types:	
Index Scales:	Station Log
Depth Source:	
Depth Sensor:	
Conveyance:	Wireline
Print Type:	

Other Services:

PEX-HRLA-HNGS
FMI-DSI-EMS-PPC
CMR-PPC
ZVSP

2.1.1 Well Header Table

Borehole Size/Casing/Tubing Record						
Bit						
Bit Size (in)	10.625					
Bottom Driller (m)	3674.5					
Bottom Logger (m)	3672					
Casing						
Size (in)	13.375					
Weight (kg/m)	68					
Inner Diameter (in)	12.5					
Grade						
Top Driller	2461.5					
Top Logger (m)	2461					
Bottom Driller (m)	3674.6					
Bottom Logger (m)	3672					
Comments						

Operational Run Summary						
Parameter (Unit)	**4**					
Date Log Started						
Time Log Started						
Date Log Finished	13 Sep 2012					
Time Log Finished	13/Sep/2012 12:00:00 AM					
Top Log Interval (m)	2488					
Bottom Log Interval (m)	3186.5					
Total Depth (m)	3174.5					
Max Hole Deviation (deg)	1.22					
Azimuth of Max Deviation (deg)						
Bit Size (in)	10.625					
Logging Unit Number	4803					
Logging Unit Location						
Recorded By	Liu Jie/Montague/ Kang Youwei					
Witnessed By	Mr.Yoshinori Sanada/Mr.Kyaw Moe					
Service Order Number						
Comments						

Borehole Fluids						
Parameter (Unit)	**4**					
Type Fluid	KNPPmud					
Max Recorded Temperature (degC)	47.78					
Source of Sample	Mud Pit					
Salinity (ppm)	60300					
Density (lbm/gal)	9.263					
Viscosity (s)	102					
Fluid Loss (cm3)	3.4					
pH	10.5					
Date/Time Circulation Stopped	12-Sep-2012 8:00					
Date Logger on Bottom	13 Sep 2012					
Time Logger on Bottom	1/1/1900 12:00:00 AM					

Source Rmf	Pressed					
Source Rmc	Pressed					
Rm@Meas Temp (ohm.m@degC)	0.08@24.6					
Rmf@Meas Temp (ohm.m@degC)	0.07@23.3					
Rmc@Meas Temp (ohm.m@degC)	0.09@25.6					
Rm @ BHT						
Rmf @ BHT						
Rmc @ BHT						
Comments						

Depth Summary

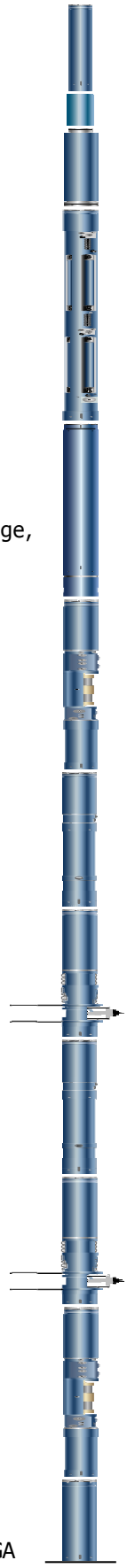
Depth Control Parameters	**subsequent**					
Rig Type	Offshore					
Depth Measured Device	**IDW**					
Type	IDW-JA					
Serial Number	6790					
Wheel Correction 1	**-3**					
Wheel Correction 2	**-2**					
Tension Device	**CMTD**					
Type	CMTD-BA					
Serial Number	2986					
Logging Cable	**7-46 ZV XXS**					
Type	**7-46 ZV XXS**					
Serial Number	F711011					
Logging Cable Length (m)	8050					
Comments						

Remarks

Run Name	**4**
Remark Line 1	-Logging objective: formation evaluation
Remark Line 2	-All wellsite information provided by client
Remark Line 3	-Toolstring combined as per tool sketch
Remark Line 4	-Large Diameter Probe is installed on the lower MRPQ
Remark Line 5	-Quicksilver Probe is installed on the upper MRPQ
Remark Line 6	-IFA is used to moniter the sampling fluid
Remark Line 7	-CGA is used to moniter the guard line fluid
Remark Line 8	-Six SPMCs are mounted in the MRMS
Remark Line 9	
Remark Line 10	
Remark Line 11	
Remark Line 12	
Remark Line 13	
Remark Line 14	
Remark Line 15	
Remark Line 16	
Remark Line 17	
Comments	

2.2 Tool String

Run: 4
Well Name: C0020A



EDTC-B			29.81 m
		⁄ 890.27 in	
EDTA-A		⁄ 866.27 in	27.83 m
MRPC			27.22 m
	PC	⁄ 806.52 in	
MRMS_1			25.71 m Sample Capture
		⁄ 648.27 in	
IFA_1			21.69 m
	DV-Rod Resistivity Sapphire Gauge, Optics Tension IFA		
		⁄ 528.6 in	
MRPO_UD			18.65 m XX High Pressure, 115cc
		⁄ 401.1 in	
MRHY_2			15.41 m
		⁄ 299.85 in	
MRPQ_2			12.84 m MPMP-AB(MRPQ) probe
	PQ-RES PQ-CQG-G	⁄ 212.05 in	
MRHY_1			10.1 m
		⁄ 90.79999 in	
MRPQ_1			7.53 m XLarge-Diameter probe
	PQ-RES PQ-CQG-G	— Tool Zero	
MRPO_UD_2			4.79 m XX High Pressure, 115cc
CFA			1.55 m
	Tension FA-GA		

TOOL BOTTOM
MAXIMUM STRING DIAMETER 5 in

Figure 1 Tool String (C0020A - 4)

3 Gradient Table

Table 2 Gradient Summary

Formation Gradient Summary

Well Name	Gradient	Top TVD	Bottom TVD	Top TVDSS	Bottom TVDSS	Density	Color	Gradient Comments	Density Statistical Error	Density Theoretical Error	R2	Chi2 Probability	STD	Primary Gauge	Repeatability	Contact Depth	Contact Depth SS	Contact Comments	Contact Statistical Error	Contact Theoretical Error
	psi/ft	m	m	m	m	g/cm3			g/cm3	g/cm3			psi		psi	m	m		m	m
C0020A		3186.49	3186.49	-3157.99	-3157.99	1.07		DV-Rod Dens.												
C0020A		3109.69	3109.69	-3081.19	-3081.19	1.07		DV-Rod Dens.												
C0020A		3052.53	3052.53	-3024.03	-3024.03	1.06		DV-Rod Dens.												
C0020A		3016.47	3016.47	-2987.97	-2987.97	1.04		DV-Rod Dens.												
C0020A		2697.78	2697.78	-2669.28	-2669.28	1.05		DV-Rod Dens.												
C0020A		2488.02	2488.02	-2459.52	-2459.52	1.05		DV-Rod Dens.												

Gradient Summary RTLAS

Well Name	Gradient	Top TVD	Bottom TVD	Top TVDSS	Bottom TVDSS	Density	Color	Gradient Comments	Density Statistical Error	Density Theoretical Error	R2	Chi2 Probability	STD	Primary Gauge	Repeatability	Contact Depth	Contact Depth SS	Contact Comments	Contact Statistical Error	Contact Theoretical Error
	psi/ft	m	m	m	m	g/cm3			g/cm3	g/cm3			psi		psi	m	m		m	m
C0020A		3186.49	3186.49	-3157.99	-3157.99	1.07		DV-Rod Dens.												
C0020A		3109.69	3109.69	-3081.19	-3081.19	1.07		DV-Rod Dens.												
C0020A		3052.53	3052.53	-3024.03	-3024.03	1.06		DV-Rod Dens.												
C0020A		3016.47	3016.47	-2987.97	-2987.97	1.04		DV-Rod Dens.												
C0020A		2697.78	2697.78	-2669.28	-2669.28	1.05		DV-Rod Dens.												
C0020A		2488.02	2488.02	-2459.52	-2459.52	1.05		DV-Rod Dens.												

Gradient Summary RMLAS

Well Name	Gradient	Top TVD	Bottom TVD	Top TVDSS	Bottom TVDSS	Density	Color	Gradient Comments	Density Statistical Error	Density Theoretical Error	R2	Chi2 Probability	STD	Primary Gauge	Repeatability	Contact Depth	Contact Depth SS	Contact Comments	Contact Statistical Error	Contact Theoretical Error
	psi/ft	m	m	m	m	g/cm3			g/cm3	g/cm3			psi		psi	m	m		m	m
C0020A		3186.49	3186.49	-3157.99	-3157.99	1.07		DV-Rod Dens.												
C0020A		3109.69	3109.69	-3081.19	-3081.19	1.07		DV-Rod Dens.												
C0020A		3052.53	3052.53	-3024.03	-3024.03	1.06		DV-Rod Dens.												
C0020A		3016.47	3016.47	-2987.97	-2987.97	1.04		DV-Rod Dens.												
C0020A		2697.78	2697.78	-2669.28	-2669.28	1.05		DV-Rod Dens.												
C0020A		2488.02	2488.02	-2459.52	-2459.52	1.05		DV-Rod Dens.												

Fluids Type Definition

Density From (g/cm3)	Density To (g/cm3)	Gradient From (psi/ft)	Gradient To (psi/ft)	Color	Probable Fluid Type
Less	0.0000	Less	0.0000		Negative Gradient
0.0000	0.5769	0.0000	0.2500		Gas
0.5769	0.9577	0.2500	0.4150		Oil
0.9577	1.1723	0.4150	0.5080		Water
1.1723	1.8642	0.5080	0.8078		Mud
1.8642	Higher	0.8078	Higher		Invalid

4 Test Point Table

Table 3 Pressure Related Results

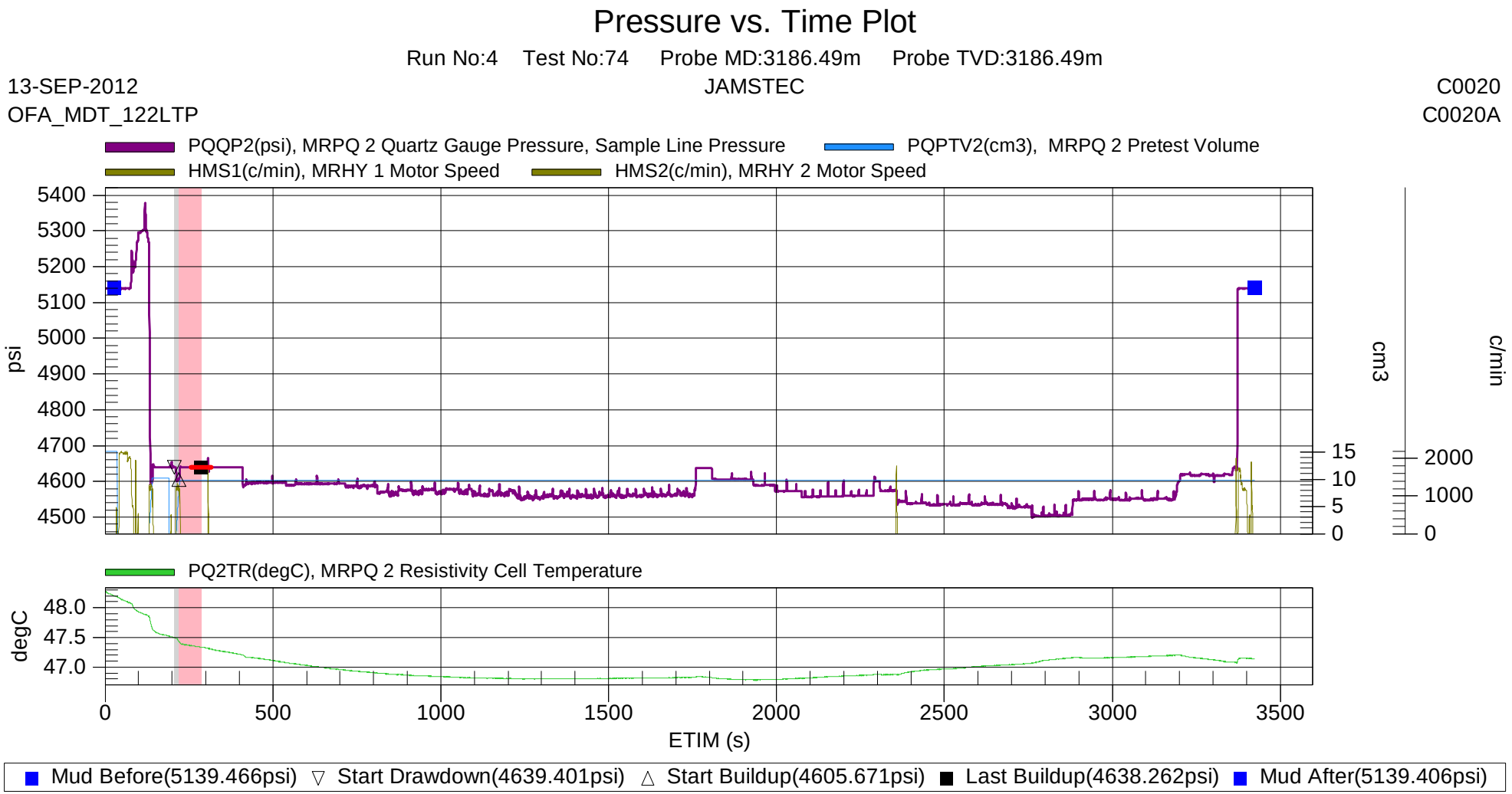
File No.	Test No.	Probe MD	Probe TVD	DD Mobility	Mud Pres. Before	Mud Pres. After	Last BU Pres.	Formation Pres.	Temp. After	Gauge Type	Packer/Probe Type	Pretest Type
		m	m	mD/cP	psi	psi	psi	psi	degC			
122	74	3186.49	3186.49	50.02	5139.466	5139.406	4638.262	4638.262	47.14	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
123	76	3151.98	3151.98	33.02	5082.549	5083.932	4588.025	4588.025	46.62	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
124	78	3151.48	3151.48	43.67	5083.151	5083.259	4586.550	4586.550	45.98	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
126	80	3150.96	3150.96	19.51	5083.796	5083.229	4586.635	4586.635	45.08	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
127	82	3135.95	3135.95	43.08	5058.174	5064.969	4564.152	4564.152	44.79	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
128	84	3136.47	3136.47	61.72	5058.954	5060.091	4565.037	4565.037	45.37	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
129	86	3136.50	3136.50	14.98	5059.534	5059.500	4565.566	4565.566	45.13	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
130	88	3136.67	3136.67	38.76	5060.444	5060.127	4565.557	4565.557	45.13	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
131	90	3136.12	3136.12	14.26	5059.098	5058.987	4565.615	4565.615	45.15	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
132	92	3136.45	3136.45	16.78	5059.321	5060.250	4565.337	4565.337	45.19	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
133	94	3136.98	3136.98	26.55	5059.858	5060.810	4566.035	4566.035	45.23	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
134	96	3135.79	3135.79	28.28	5058.927	5059.556	4564.306	4564.306	45.28	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
135	98	3151.98	3151.98	18.48	5086.225	5085.144	4587.792	4587.792	45.32	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
136	99	3151.46	3151.46	32.26	5082.967	4586.925	4587.078	4587.078	45.78	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
137	102	3151.49	3151.49	22.70	5083.038	5084.546	4587.381	4587.381	46.40	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
138	103	3151.49	3151.49	12.18	5082.133	5083.627	4612.996	4612.996	46.25	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
139	104	3151.19	3151.19	15.40	5082.889	5091.208	4586.566	4586.566	46.54	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
140	105	3150.48	3150.48	18.11	5080.931	5020.162	4585.627	4585.627	46.48	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
142	106	3112.9	3112.99	29.13	5021.180	5024.130	4532.284	4532.284	45.71	PQQP2	MPMP-	Volumetric

File No.	Test No.	Probe MD	Probe TVD	DD Mobility	Mud Pres. Before	Mud Pres. After	Last BU Pres.	Formation Pres.	Temp. After	Gauge Type	Packer/Probe Type	Pretest Type
		9									AB(MRPQ)	Drawdown
143	107	3109.69	3109.69	26.13	5015.334	5019.869	4524.998	4524.998	45.83	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
145	108	3052.53	3052.53	54.77	4924.309	4924.056	4439.330	4439.330	44.72	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
147	109	3016.47	3016.47	207.08	4865.391	4886.663	4384.733	4384.733	44.44	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
149	110	2696.92	2696.92	14.82	4355.320	4356.590	3915.219	3915.219	40.06	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
150	111	2696.68	2696.68	0.51	4354.863	4354.826	3918.082	3918.082	39.18	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
152	1	2697.29	2697.29	Dry	4356.447	4356.838	1914.888	1914.888	38.19	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
153	2	2697.78	2697.78	65.10	4357.004	4360.105	3916.717	3916.717	38.53	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
156	4	2487.49	2487.49	10.58	4018.940	4020.198	3610.881	3610.881	35.47	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
157	5	2487.24	2487.24	10.00	4019.893	4019.808	3610.557	3610.557	34.69	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown
158	6	2488.02	2488.02	318.94	4021.737	4026.377	3611.581	3611.581	34.62	PQQP2	MPMP-AB(MRPQ)	Volumetric Drawdown

5 Stations

5.1 OFA_MDT_122LTP

5.1.1 Pressure vs. Time Plot



Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4638.262 (psi)**
Last Read Buildup Pressure :	**4638.262 (psi)**	**Drawdown Mobility:**	**50.02 (mD/cP)**	**Mud Pressure Before:**	**5139.466 (psi)**
Mud Pressure After:	**5139.406 (psi)**	**Temperature Before:**	**48.2 (degC)**	**Temperature After:**	**47.14 (degC)**
Pretest Rate:	**0.6 (cm3/s)**	**Pretest Volume:**	**8.67 (cm3)**	**Comments:**	

5.2 OFA_MDT_123LTP

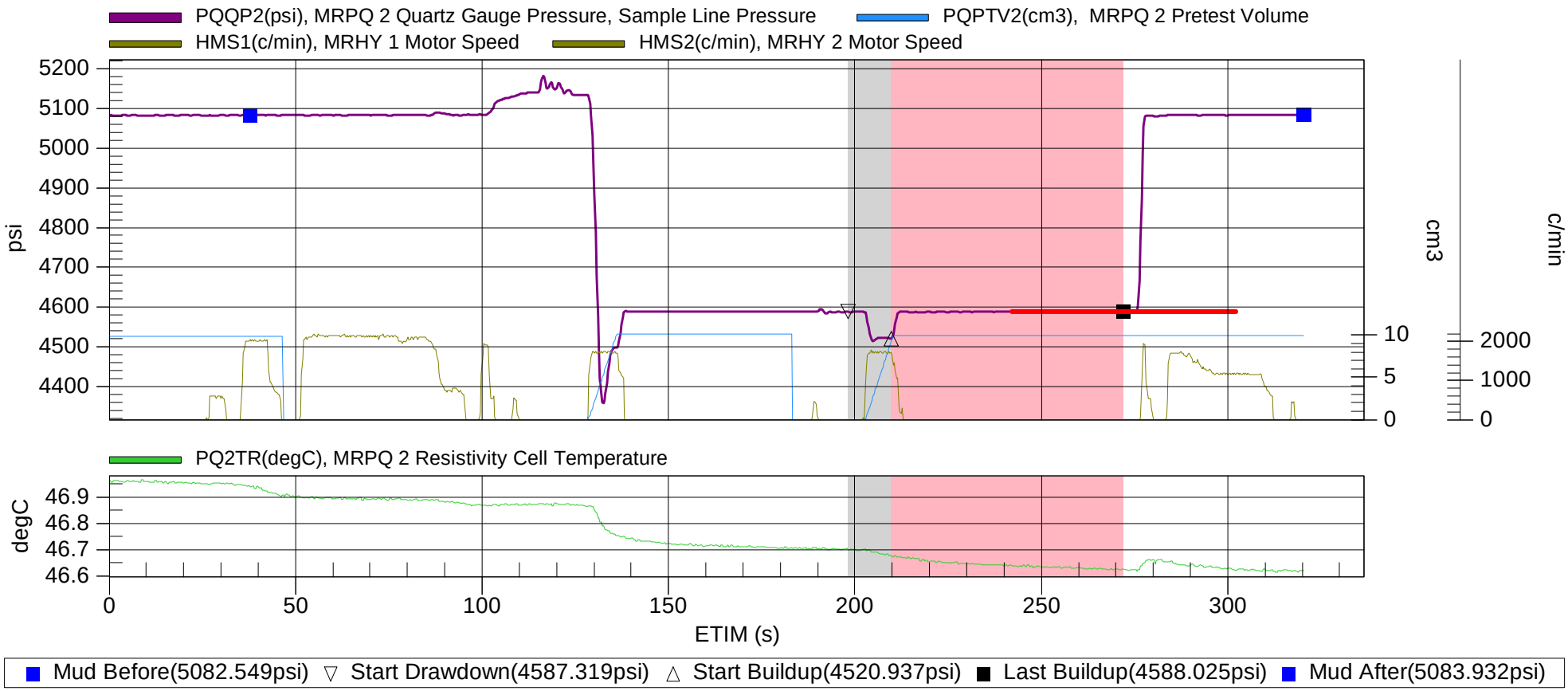
5.2.1 Pressure vs. Time Plot

Pressure vs. Time Plot

Run No:4 Test No:76 Probe MD:3151.98m Probe TVD:3151.98m

13-SEP-2012 JAMSTEC C0020

OFA_MDT_123LTP C0020A



■ Mud Before(5082.549psi) ▽ Start Drawdown(4587.319psi) △ Start Buildup(4520.937psi) ■ Last Buildup(4588.025psi) ■ Mud After(5083.932psi)

Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4588.025 (psi)**
Last Read Buildup Pressure :	**4588.025 (psi)**	**Drawdown Mobility:**	**33.02 (mD/cP)**	**Mud Pressure Before:**	**5082.549 (psi)**
Mud Pressure After:	**5083.932 (psi)**	**Temperature Before:**	**46.94 (degC)**	**Temperature After:**	**46.62 (degC)**
Pretest Rate:	**0.81 (cm3/s)**	**Pretest Volume:**	**9.24 (cm3)**	**Comments:**	

5.3 OFA_MDT_124LTP

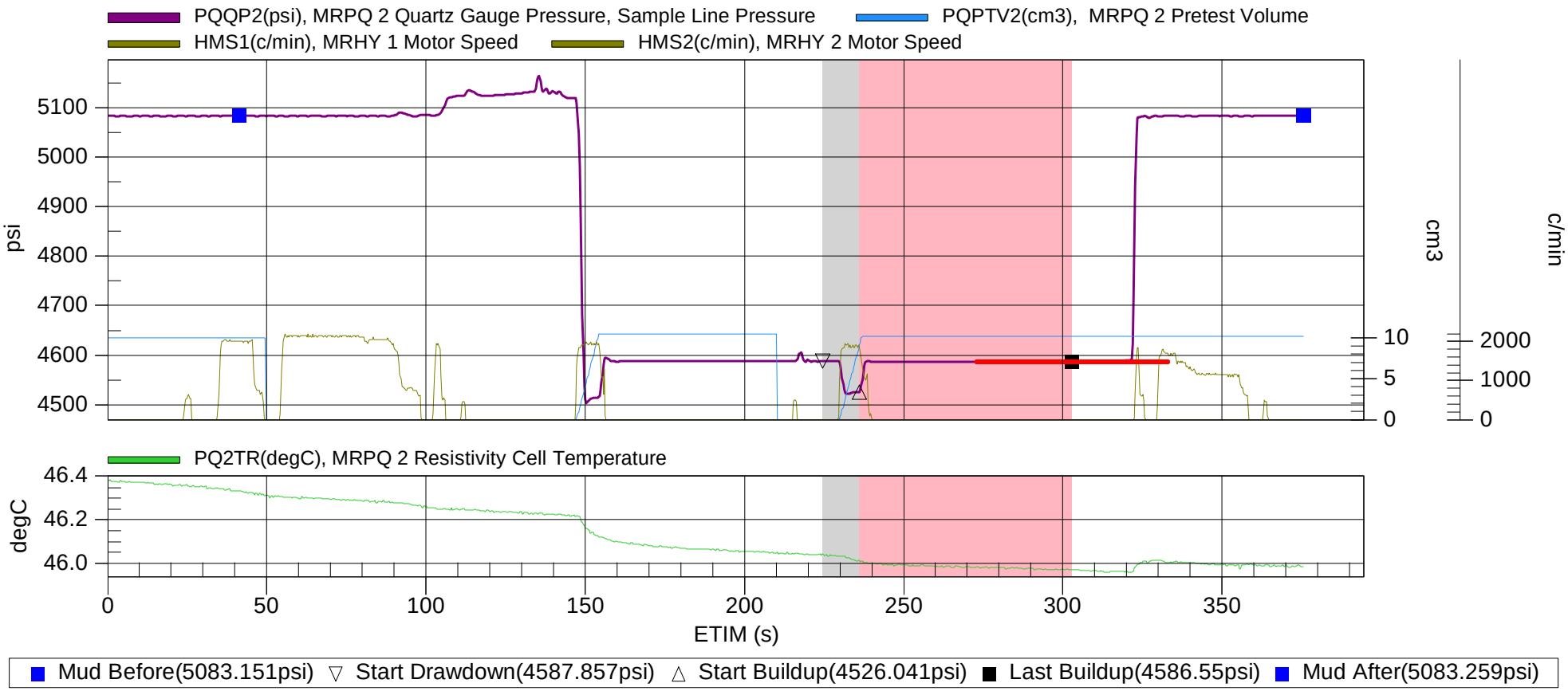
5.3.1 Pressure vs. Time Plot

Pressure vs. Time Plot

Run No:4 Test No:78 Probe MD:3151.48m Probe TVD:3151.48m

13-SEP-2012 JAMSTEC C0020

OFA_MDT_124LTP C0020A



Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4586.55 (psi)**
Last Read Buildup Pressure :	**4586.55 (psi)**	**Drawdown Mobility:**	**43.67 (mD/cP)**	**Mud Pressure Before:**	**5083.151 (psi)**
Mud Pressure After:	**5083.259 (psi)**	**Temperature Before:**	**46.34 (degC)**	**Temperature After:**	**45.98 (degC)**
Pretest Rate:	**0.8 (cm3/s)**	**Pretest Volume:**	**9.14 (cm3)**	**Comments:**	

5.4 OFA_MDT_126LTP

5.4.1 Pressure vs. Time Plot

Pressure vs. Time Plot

Run No:4 Test No:80 Probe MD:3150.96m Probe TVD:3150.96m

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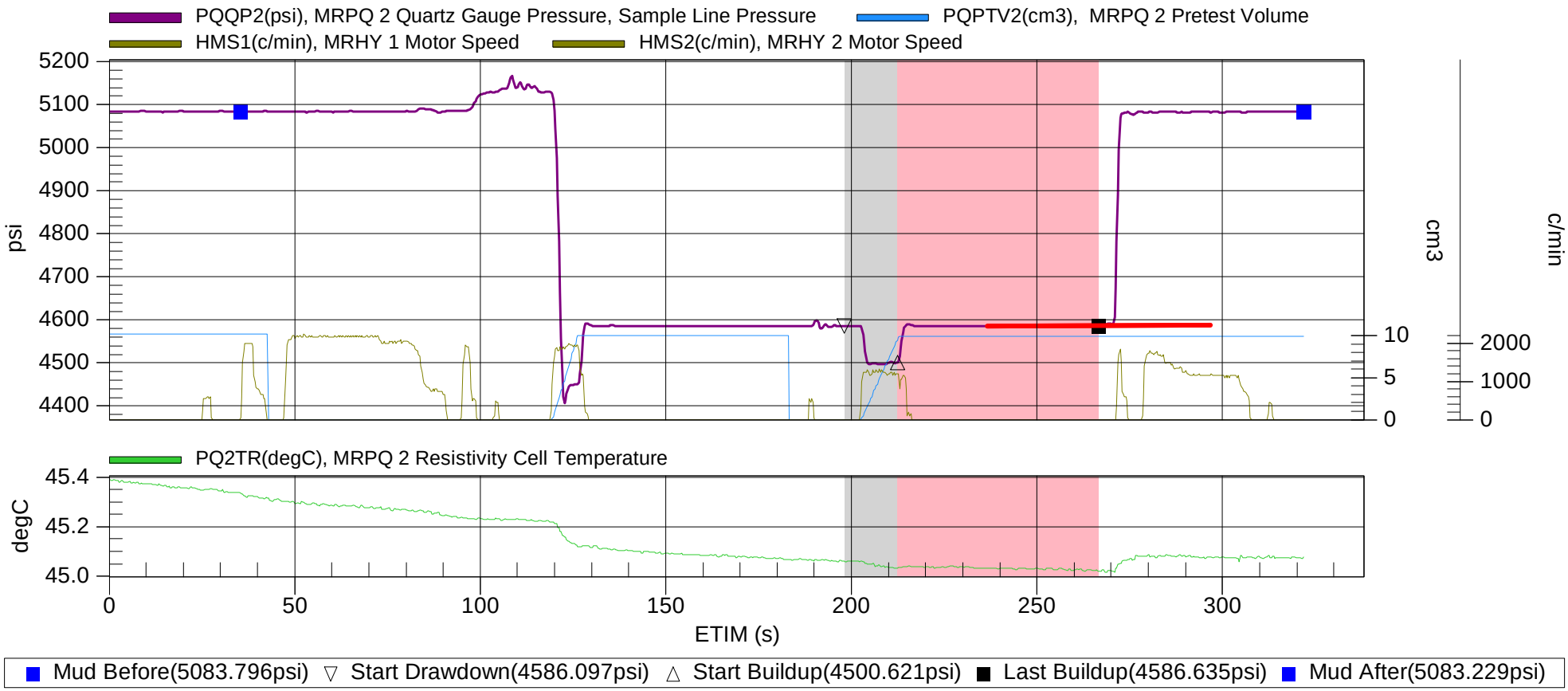
OFA_MDT_126LTP C0020A

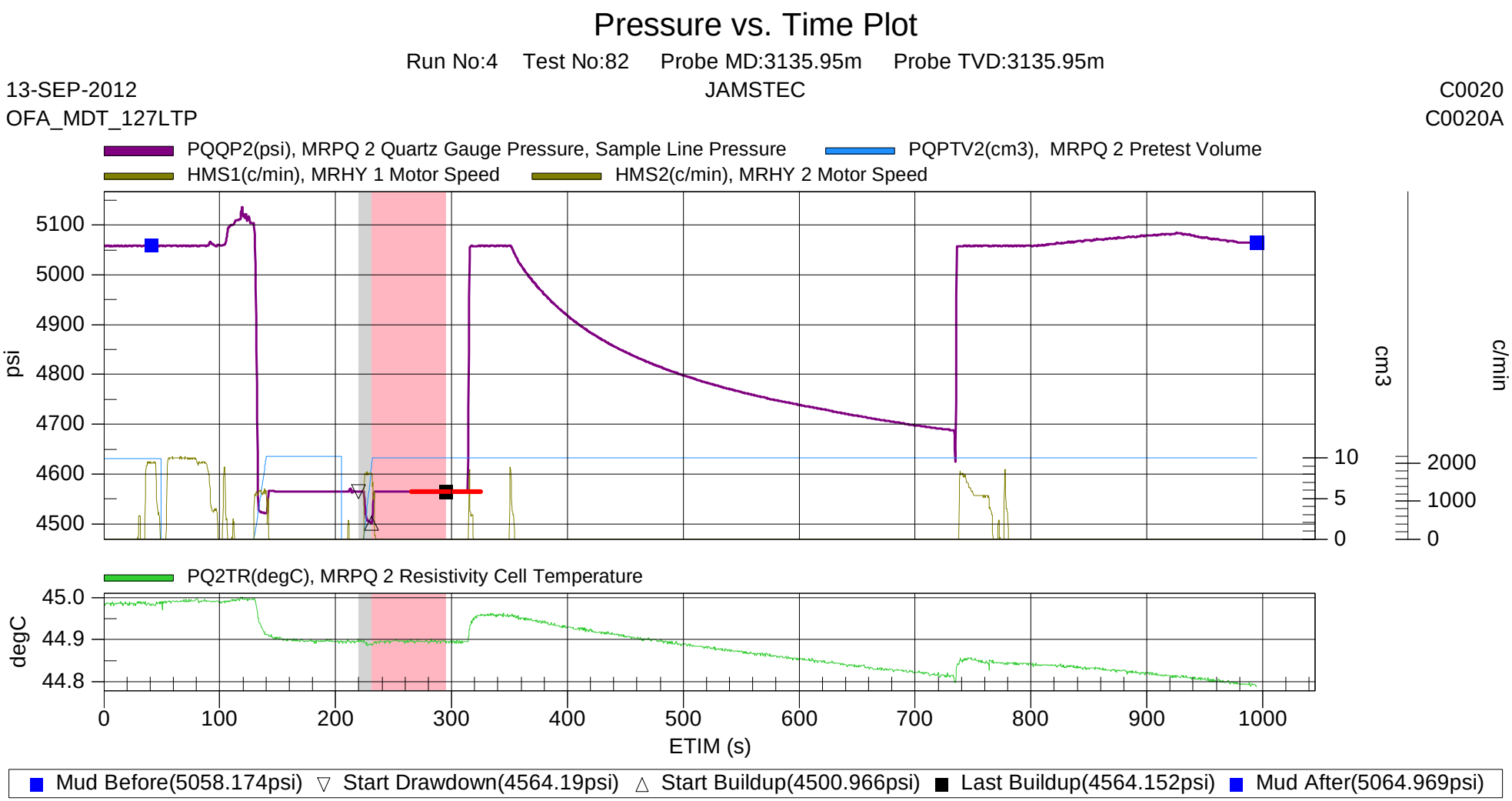


■ Mud Before(5083.796psi) ▽ Start Drawdown(4586.097psi) △ Start Buildup(4500.621psi) ■ Last Buildup(4586.635psi) ■ Mud After(5083.229psi)

Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4586.635 (psi)**
Last Read Buildup Pressure :	**4586.635 (psi)**	**Drawdown Mobility:**	**19.51 (mD/cP)**	**Mud Pressure Before:**	**5083.796 (psi)**
Mud Pressure After:	**5083.229 (psi)**	**Temperature Before:**	**45.33 (degC)**	**Temperature After:**	**45.08 (degC)**
Pretest Rate:	**0.65 (cm3/s)**	**Pretest Volume:**	**9.41 (cm3)**	**Comments:**	

5.5 OFA_MDT_127LTP

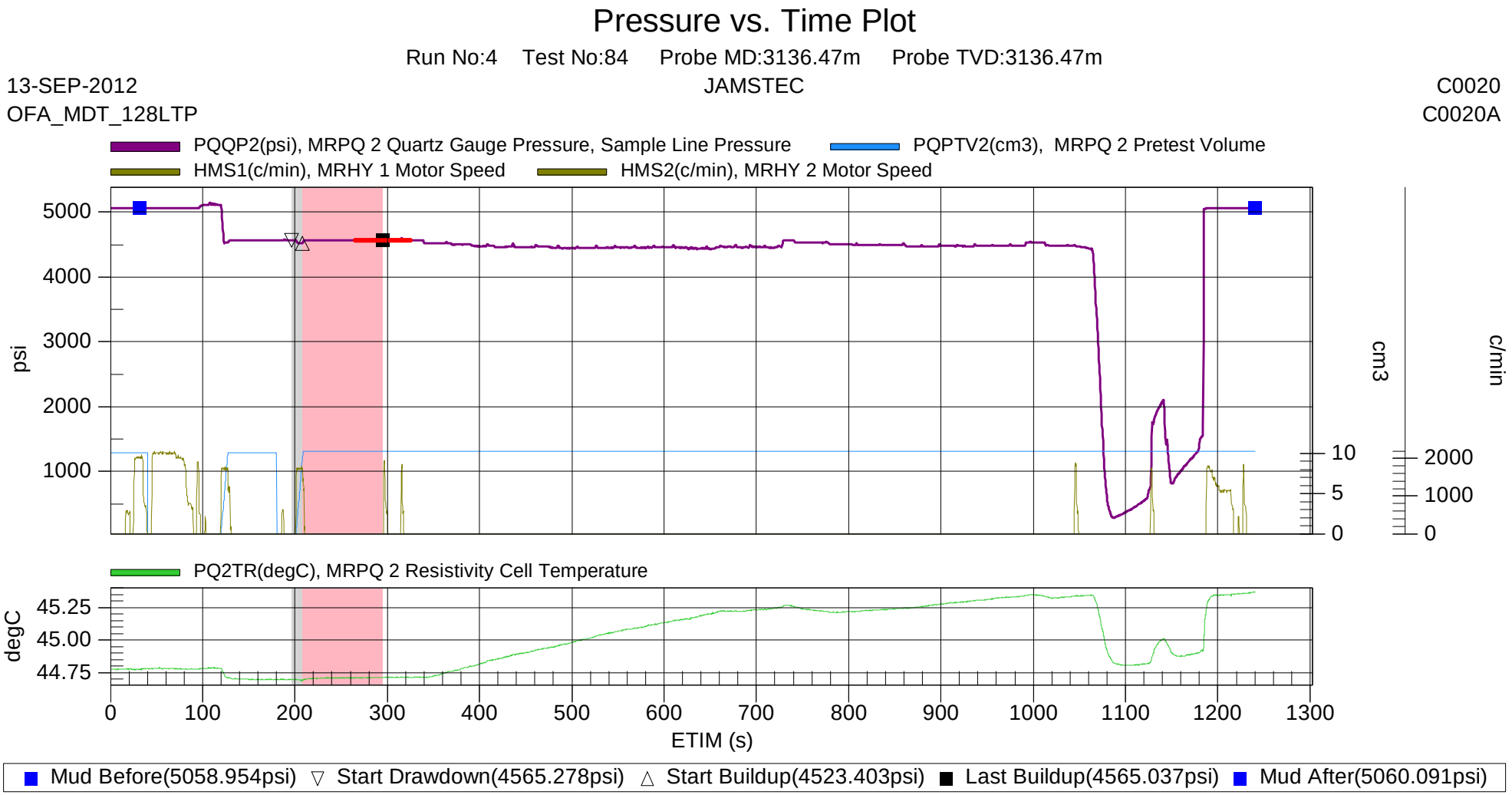
5.5.1 Pressure vs. Time Plot



Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4564.152 (psi)**
Last Read Buildup Pressure :	**4564.152 (psi)**	**Drawdown Mobility:**	**43.08 (mD/cP)**	**Mud Pressure Before:**	**5058.174 (psi)**
Mud Pressure After:	**5064.969 (psi)**	**Temperature Before:**	**44.98 (degC)**	**Temperature After:**	**44.79 (degC)**
Pretest Rate:	**0.8 (cm3/s)**	**Pretest Volume:**	**9.35 (cm3)**	**Comments:**	

5.6 OFA_MDT_128LTP

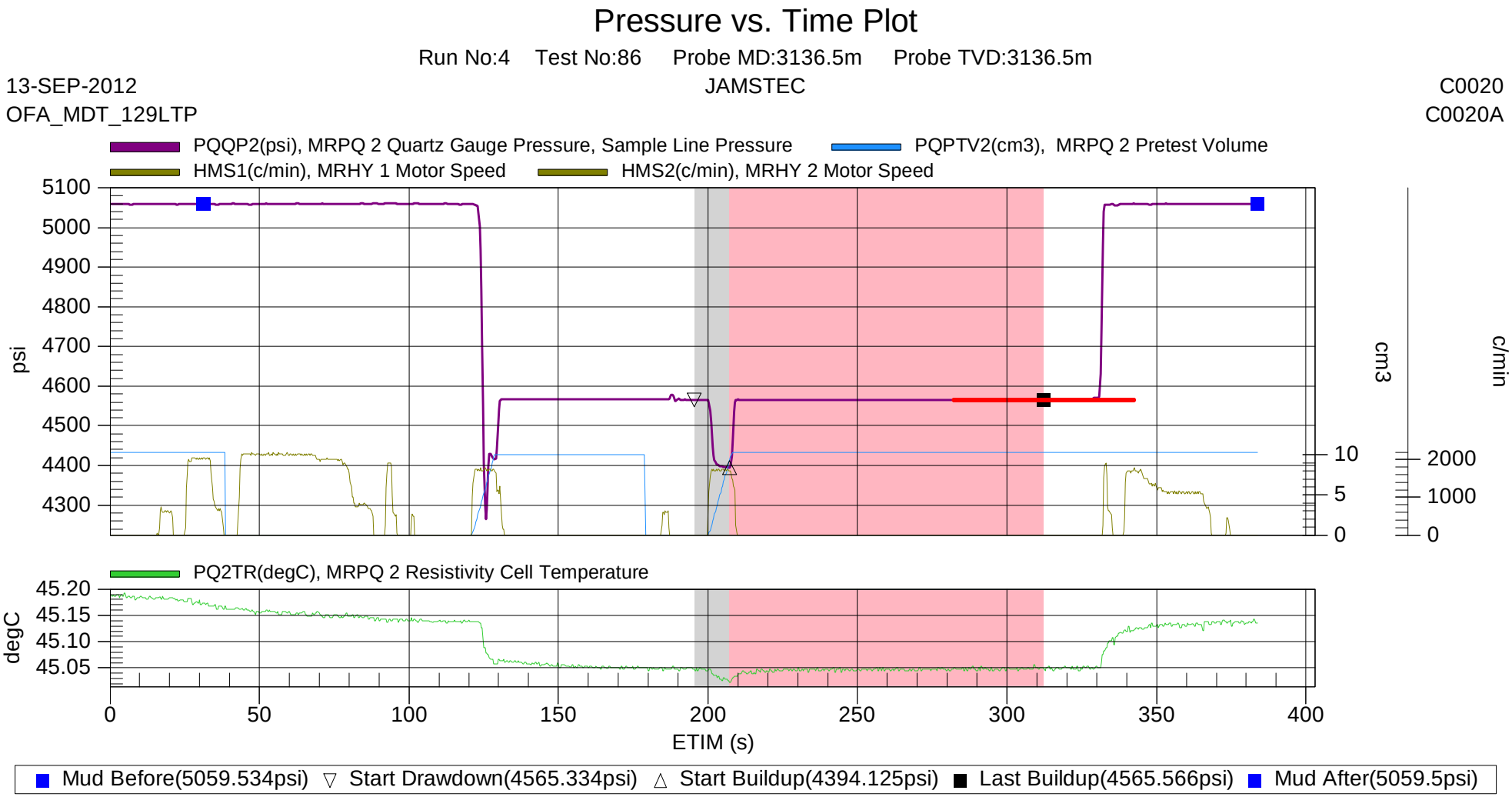
5.6.1 Pressure vs. Time Plot



Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4565.037 (psi)**
Last Read Buildup Pressure :	**4565.037 (psi)**	**Drawdown Mobility:**	**61.72 (mD/cP)**	**Mud Pressure Before:**	**5058.954 (psi)**
Mud Pressure After:	**5060.091 (psi)**	**Temperature Before:**	**44.77 (degC)**	**Temperature After:**	**45.37 (degC)**
Pretest Rate:	**0.8 (cm3/s)**	**Pretest Volume:**	**9.58 (cm3)**	**Comments:**	

5.7 OFA_MDT_129LTP

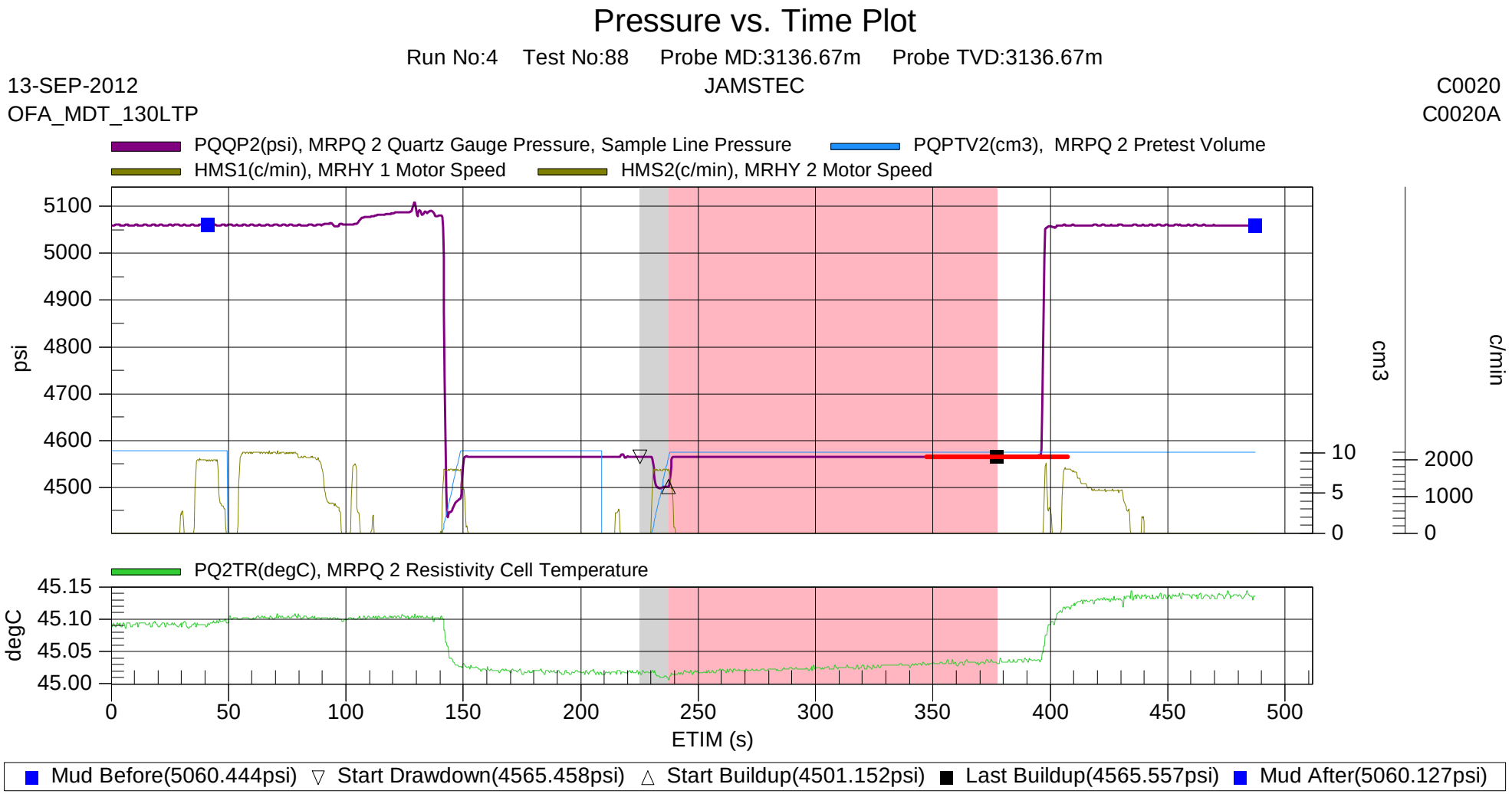
5.7.1 Pressure vs. Time Plot



Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4565.566 (psi)**
Last Read Buildup Pressure :	**4565.566 (psi)**	**Drawdown Mobility:**	**14.98 (mD/cP)**	**Mud Pressure Before:**	**5059.534 (psi)**
Mud Pressure After:	**5059.5 (psi)**	**Temperature Before:**	**45.17 (degC)**	**Temperature After:**	**45.13 (degC)**
Pretest Rate:	**0.78 (cm3/s)**	**Pretest Volume:**	**9.34 (cm3)**	**Comments:**	

5.8 OFA_MDT_130LTP

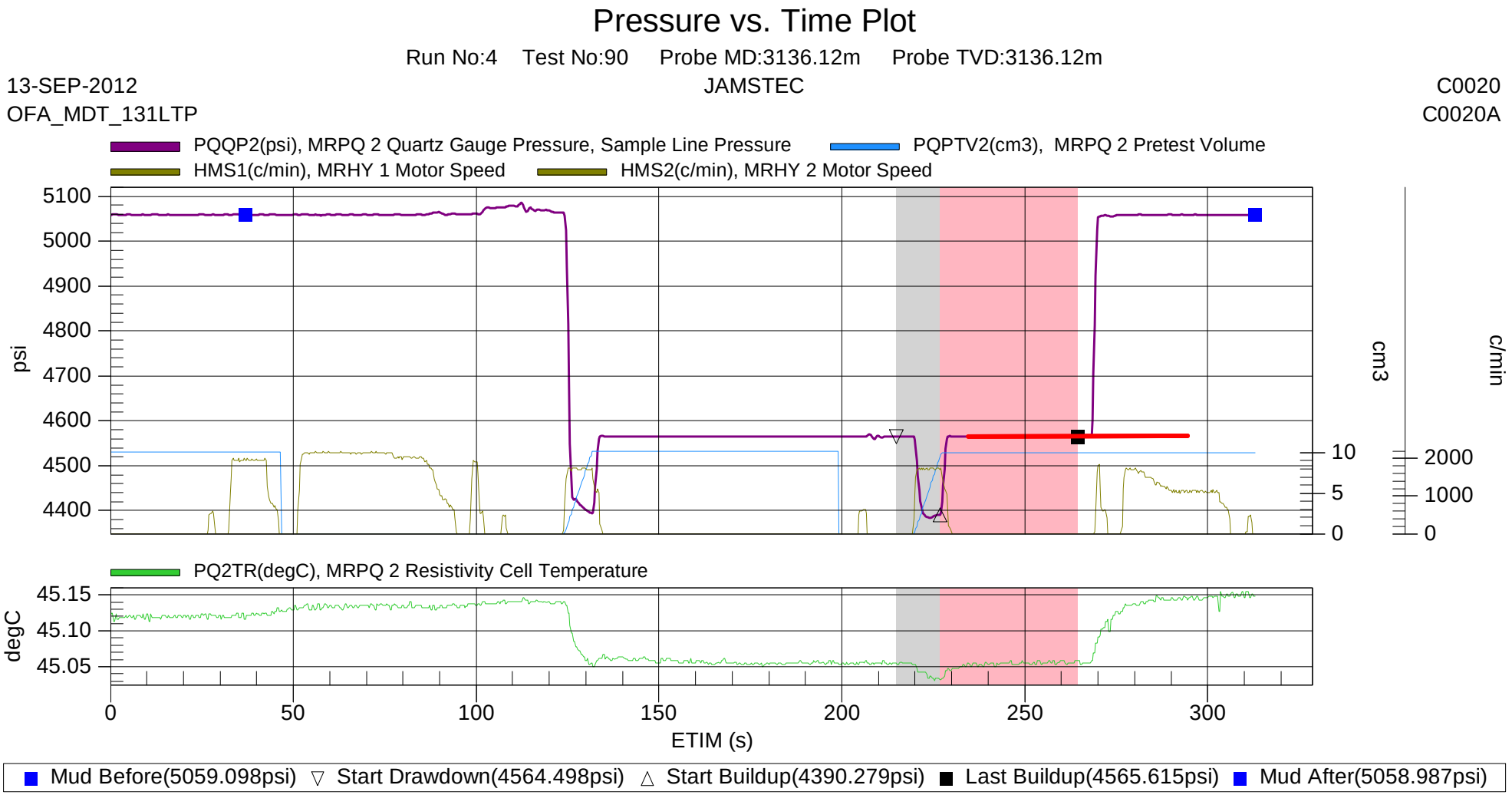
5.8.1 Pressure vs. Time Plot



Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4565.557 (psi)**
Last Read Buildup Pressure :	**4565.557 (psi)**	**Drawdown Mobility:**	**38.76 (mD/cP)**	**Mud Pressure Before:**	**5060.444 (psi)**
Mud Pressure After:	**5060.127 (psi)**	**Temperature Before:**	**45.09 (degC)**	**Temperature After:**	**45.13 (degC)**
Pretest Rate:	**0.78 (cm3/s)**	**Pretest Volume:**	**9.34 (cm3)**	**Comments:**	

5.9 OFA_MDT_131LTP

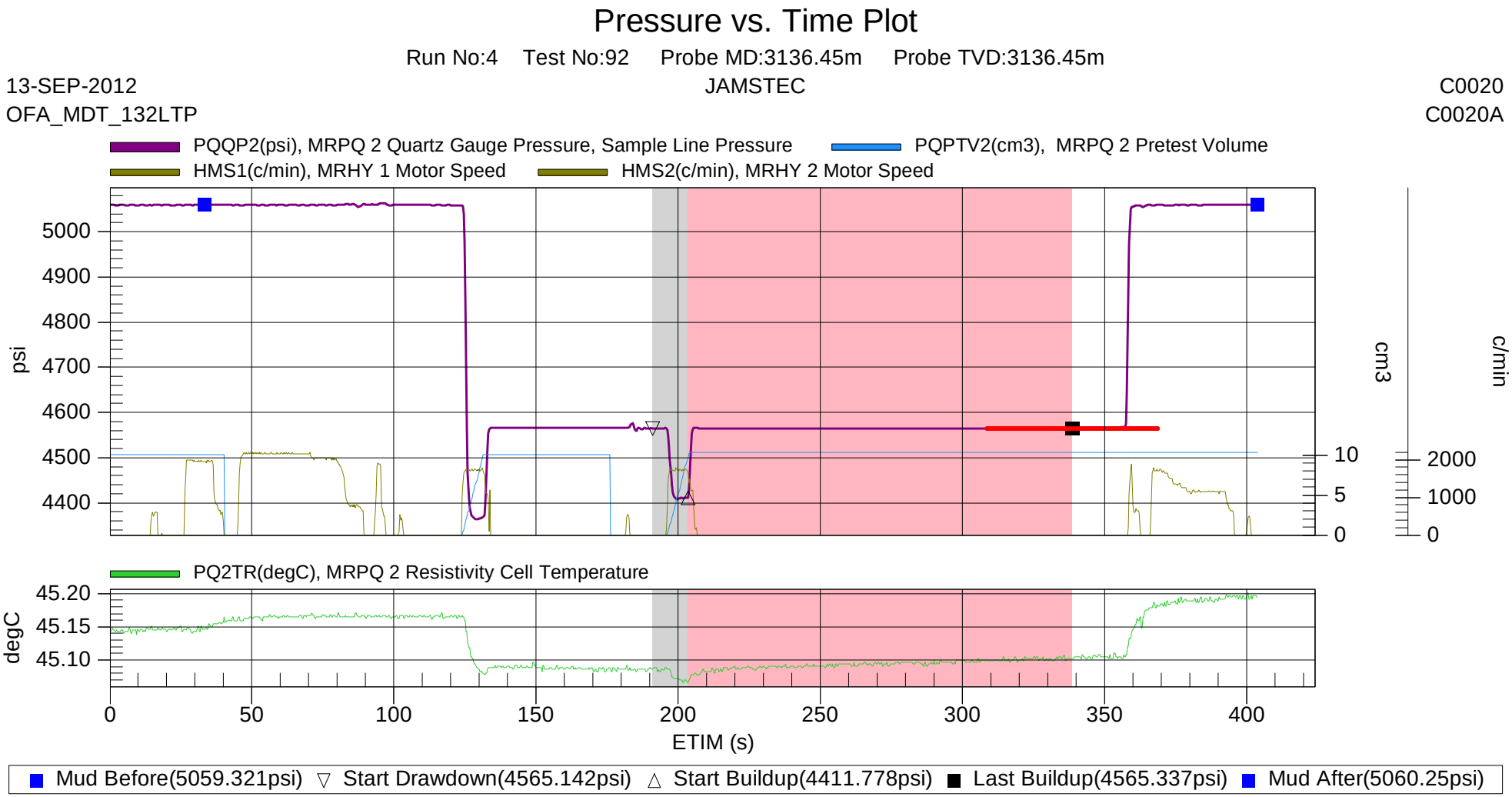
5.9.1 Pressure vs. Time Plot



Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4565.615 (psi)**
Last Read Buildup Pressure :	**4565.615 (psi)**	**Drawdown Mobility:**	**14.26 (mD/cP)**	**Mud Pressure Before:**	**5059.098 (psi)**
Mud Pressure After:	**5058.987 (psi)**	**Temperature Before:**	**45.12 (degC)**	**Temperature After:**	**45.15 (degC)**
Pretest Rate:	**0.79 (cm3/s)**	**Pretest Volume:**	**9.52 (cm3)**	**Comments:**	

5.10 OFA_MDT_132LTP

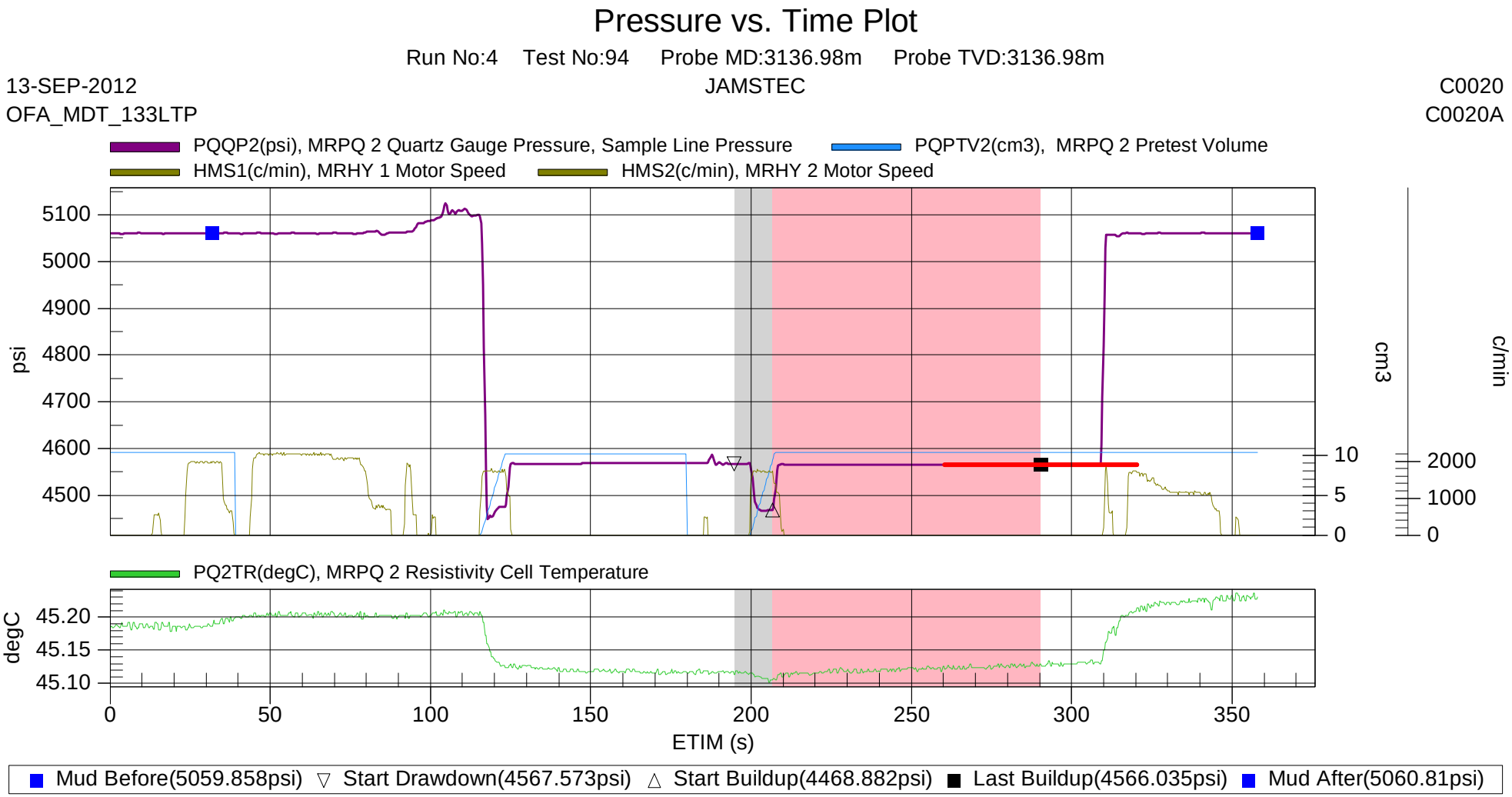
5.10.1 Pressure vs. Time Plot



Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4565.337 (psi)**
Last Read Buildup Pressure :	**4565.337 (psi)**	**Drawdown Mobility:**	**16.78 (mD/cP)**	**Mud Pressure Before:**	**5059.321 (psi)**
Mud Pressure After:	**5060.25 (psi)**	**Temperature Before:**	**45.15 (degC)**	**Temperature After:**	**45.19 (degC)**
Pretest Rate:	**0.79 (cm3/s)**	**Pretest Volume:**	**9.65 (cm3)**	**Comments:**	

5.11 OFA_MDT_133LTP

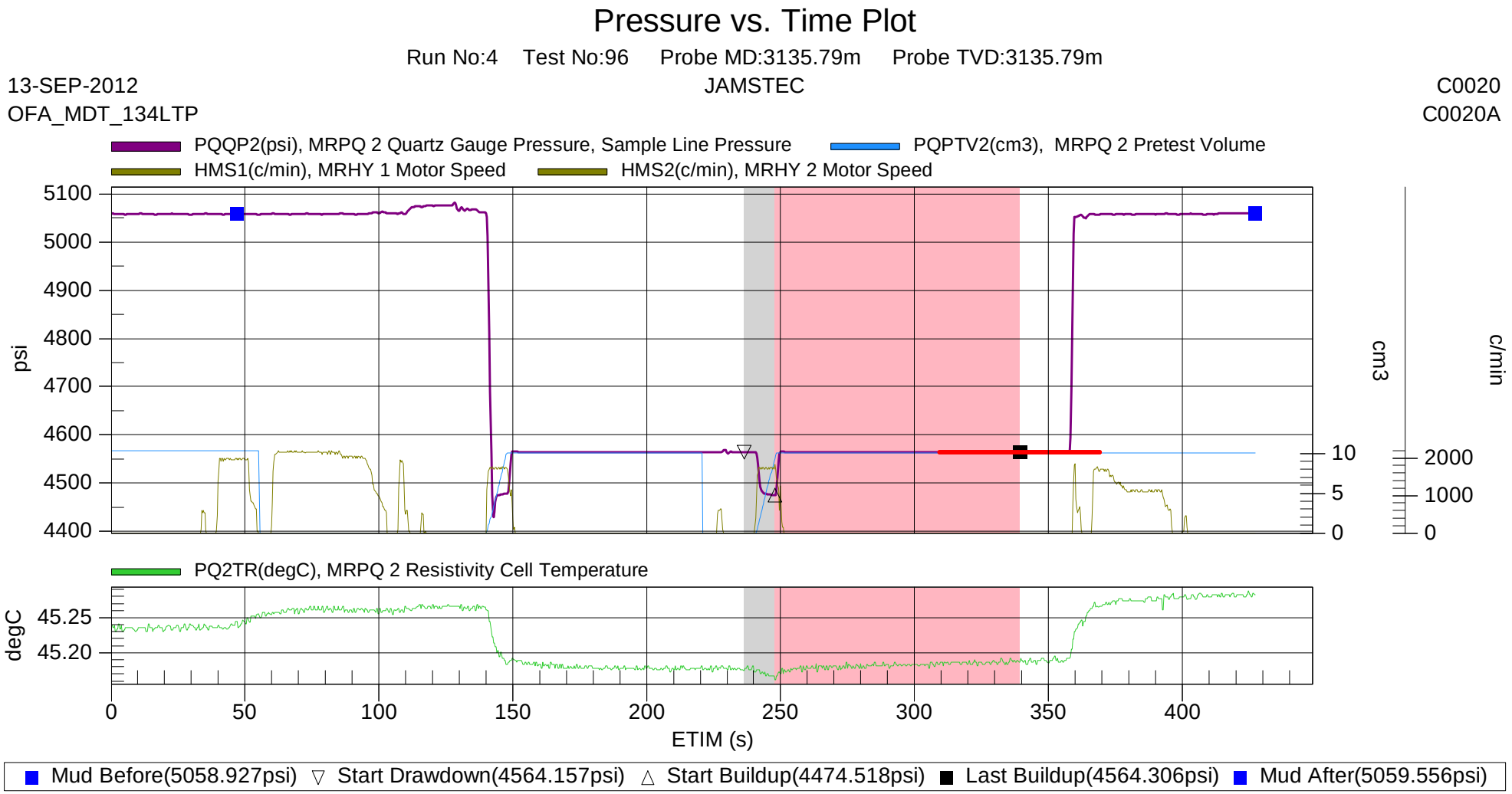
5.11.1 Pressure vs. Time Plot



Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4566.035 (psi)**
Last Read Buildup Pressure :	**4566.035 (psi)**	**Drawdown Mobility:**	**26.55 (mD/cP)**	**Mud Pressure Before:**	**5059.858 (psi)**
Mud Pressure After:	**5060.81 (psi)**	**Temperature Before:**	**45.19 (degC)**	**Temperature After:**	**45.23 (degC)**
Pretest Rate:	**0.78 (cm3/s)**	**Pretest Volume:**	**9.4 (cm3)**	**Comments:**	

5.12 OFA_MDT_134LTP

5.12.1 Pressure vs. Time Plot



Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4564.306 (psi)**
Last Read Buildup Pressure :	**4564.306 (psi)**	**Drawdown Mobility:**	**28.28 (mD/cP)**	**Mud Pressure Before:**	**5058.927 (psi)**
Mud Pressure After:	**5059.556 (psi)**	**Temperature Before:**	**45.24 (degC)**	**Temperature After:**	**45.28 (degC)**
Pretest Rate:	**0.81 (cm3/s)**	**Pretest Volume:**	**9.24 (cm3)**	**Comments:**	

5.13 OFA_MDT_135LTP

5.13.1 Pressure vs. Time Plot

Pressure vs. Time Plot

Run No:4 Test No:98 Probe MD:3151.98m Probe TVD:3151.98m

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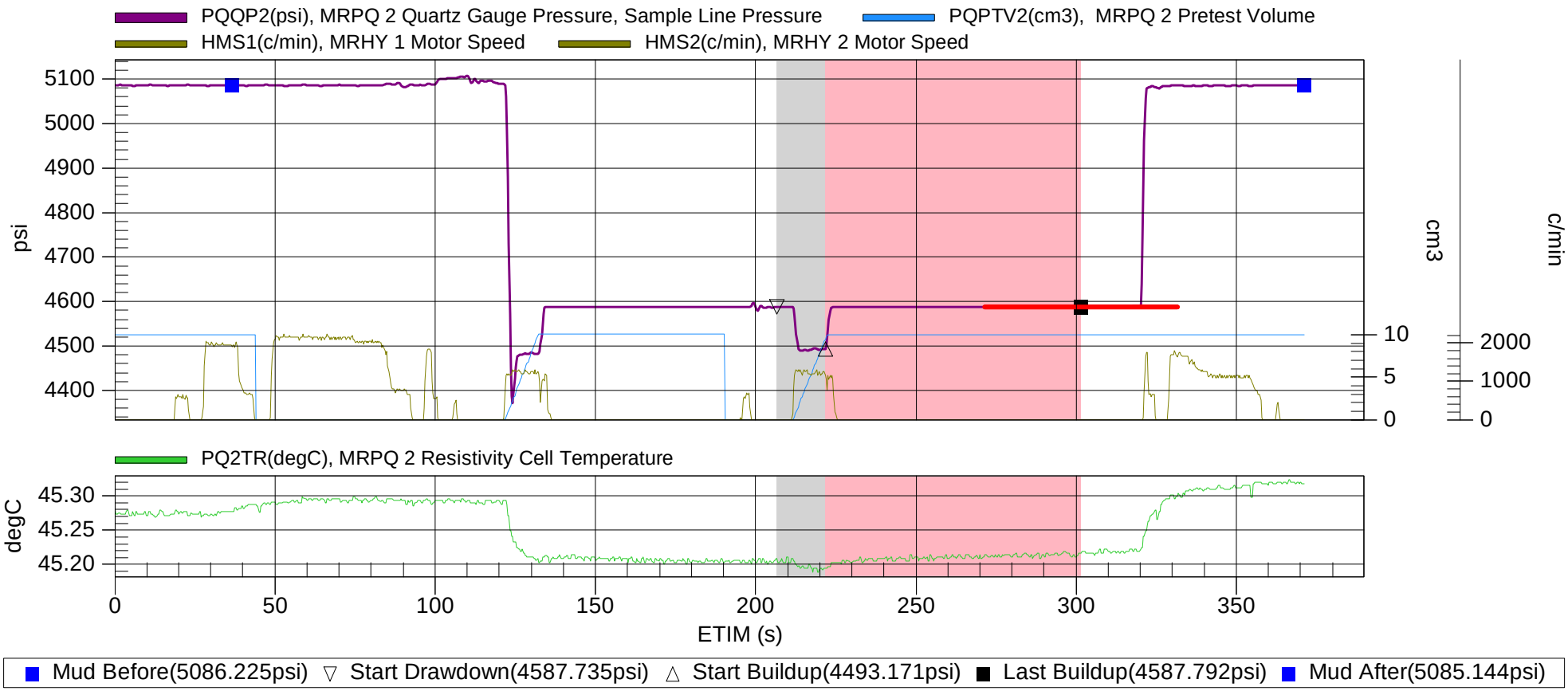
OFA_MDT_135LTP C0020A

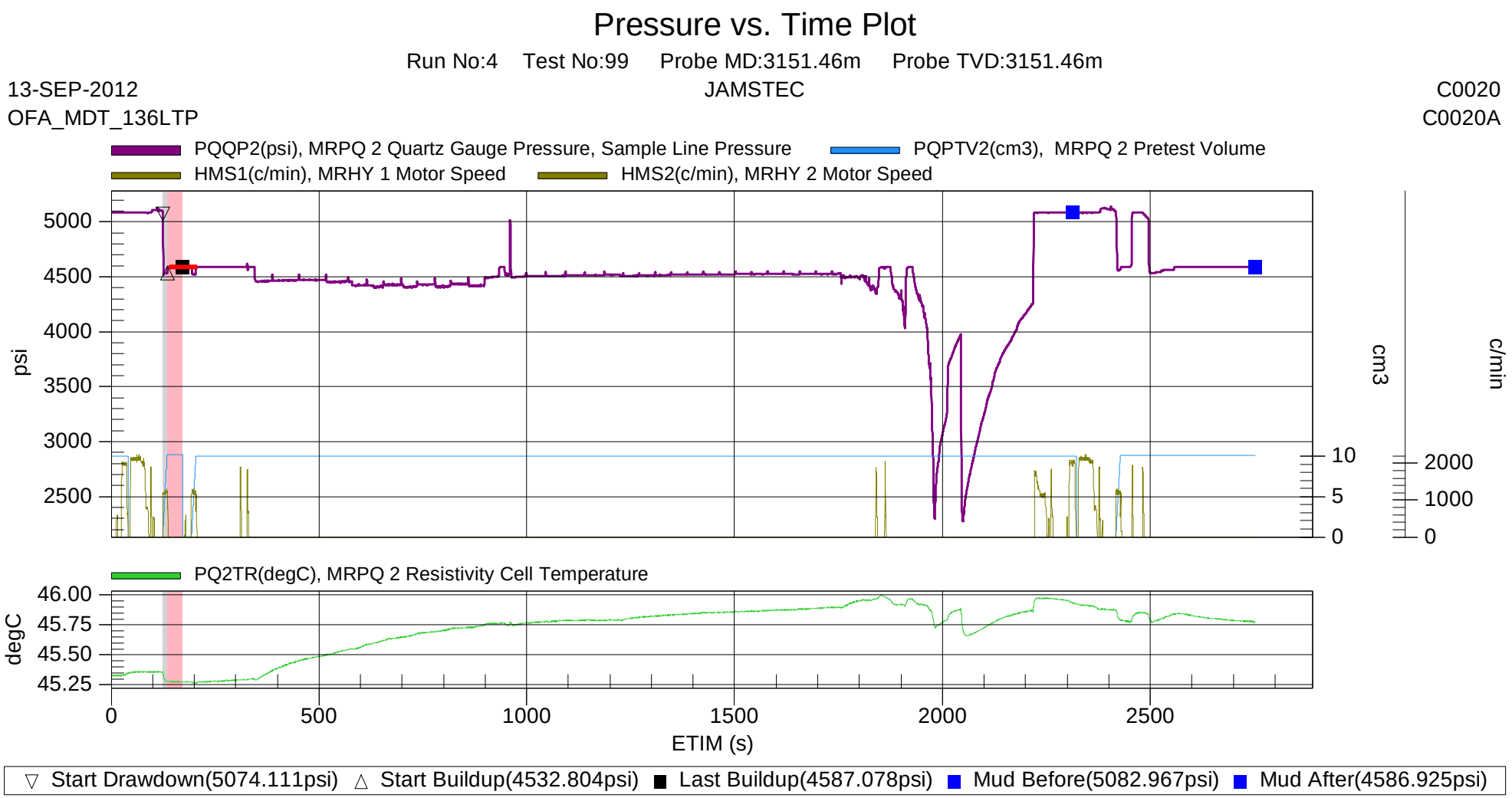


■ Mud Before(5086.225psi) ▽ Start Drawdown(4587.735psi) △ Start Buildup(4493.171psi) ■ Last Buildup(4587.792psi) ■ Mud After(5085.144psi)

Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4587.792 (psi)**
Last Read Buildup Pressure :	**4587.792 (psi)**	**Drawdown Mobility:**	**18.48 (mD/cP)**	**Mud Pressure Before:**	**5086.225 (psi)**
Mud Pressure After:	**5085.144 (psi)**	**Temperature Before:**	**45.28 (degC)**	**Temperature After:**	**45.32 (degC)**
Pretest Rate:	**0.63 (cm3/s)**	**Pretest Volume:**	**9.44 (cm3)**	**Comments:**	

5.14 OFA_MDT_136LTP

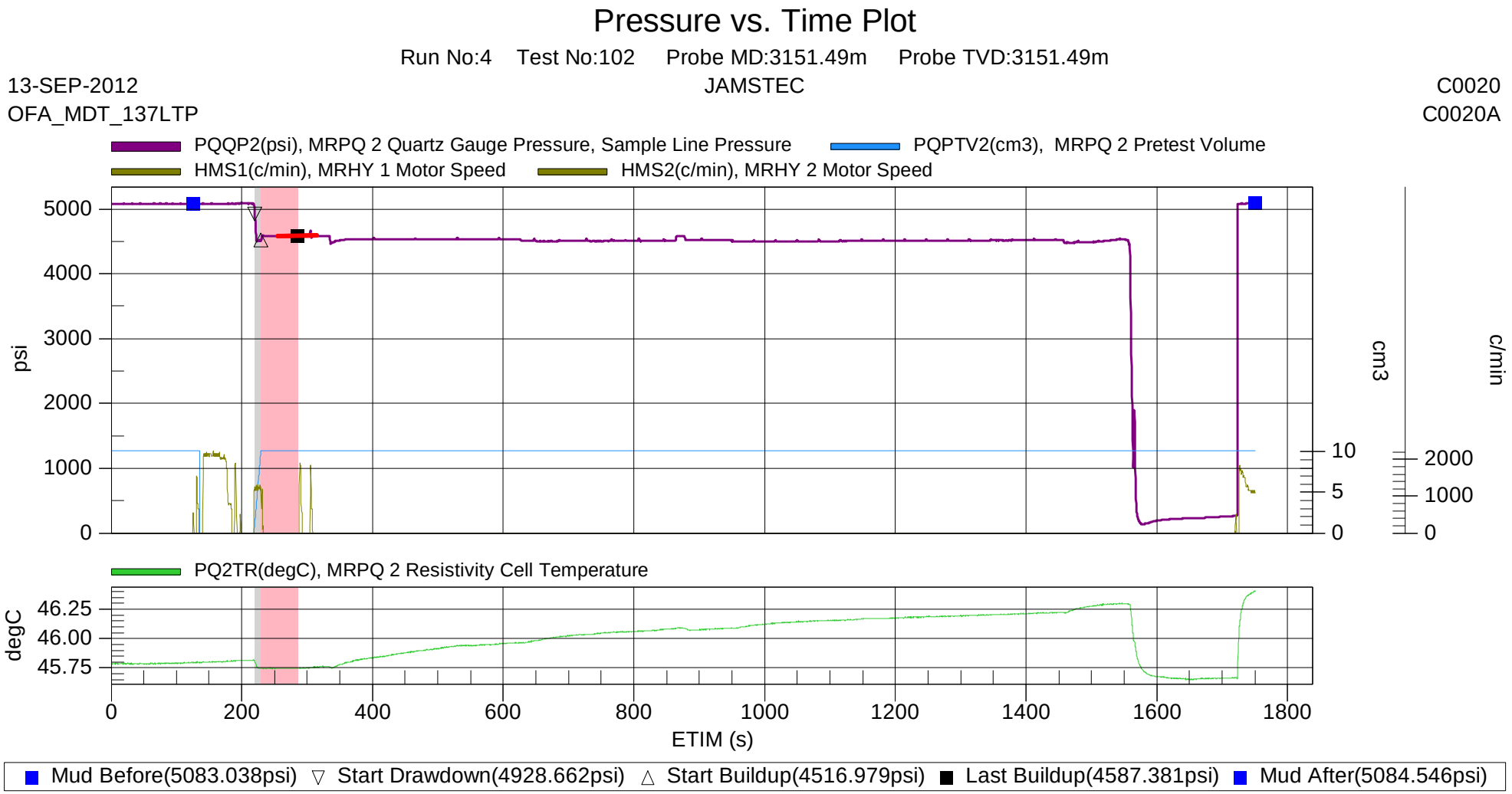
5.14.1 Pressure vs. Time Plot



Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4587.078 (psi)**
Last Read Buildup Pressure :	**4587.078 (psi)**	**Drawdown Mobility:**	**32.26 (mD/cP)**	**Mud Pressure Before:**	**5082.967 (psi)**
Mud Pressure After:	**4586.925 (psi)**	**Temperature Before:**	**45.93 (degC)**	**Temperature After:**	**45.78 (degC)**
Pretest Rate:	**0.93 (cm3/s)**	**Pretest Volume:**	**9.8 (cm3)**	**Comments:**	

5.15 OFA_MDT_137LTP

5.15.1 Pressure vs. Time Plot



Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4587.381 (psi)**
Last Read Buildup Pressure :	**4587.381 (psi)**	**Drawdown Mobility:**	**22.7 (mD/cP)**	**Mud Pressure Before:**	**5083.038 (psi)**
Mud Pressure After:	**5084.546 (psi)**	**Temperature Before:**	**45.8 (degC)**	**Temperature After:**	**46.4 (degC)**
Pretest Rate:	**0.94 (cm3/s)**	**Pretest Volume:**	**8.71 (cm3)**	**Comments:**	

5.16 OFA_MDT_138LTP

5.16.1 Pressure vs. Time Plot

Pressure vs. Time Plot

Run No:4 Test No:103 Probe MD:3151.49m Probe TVD:3151.49m

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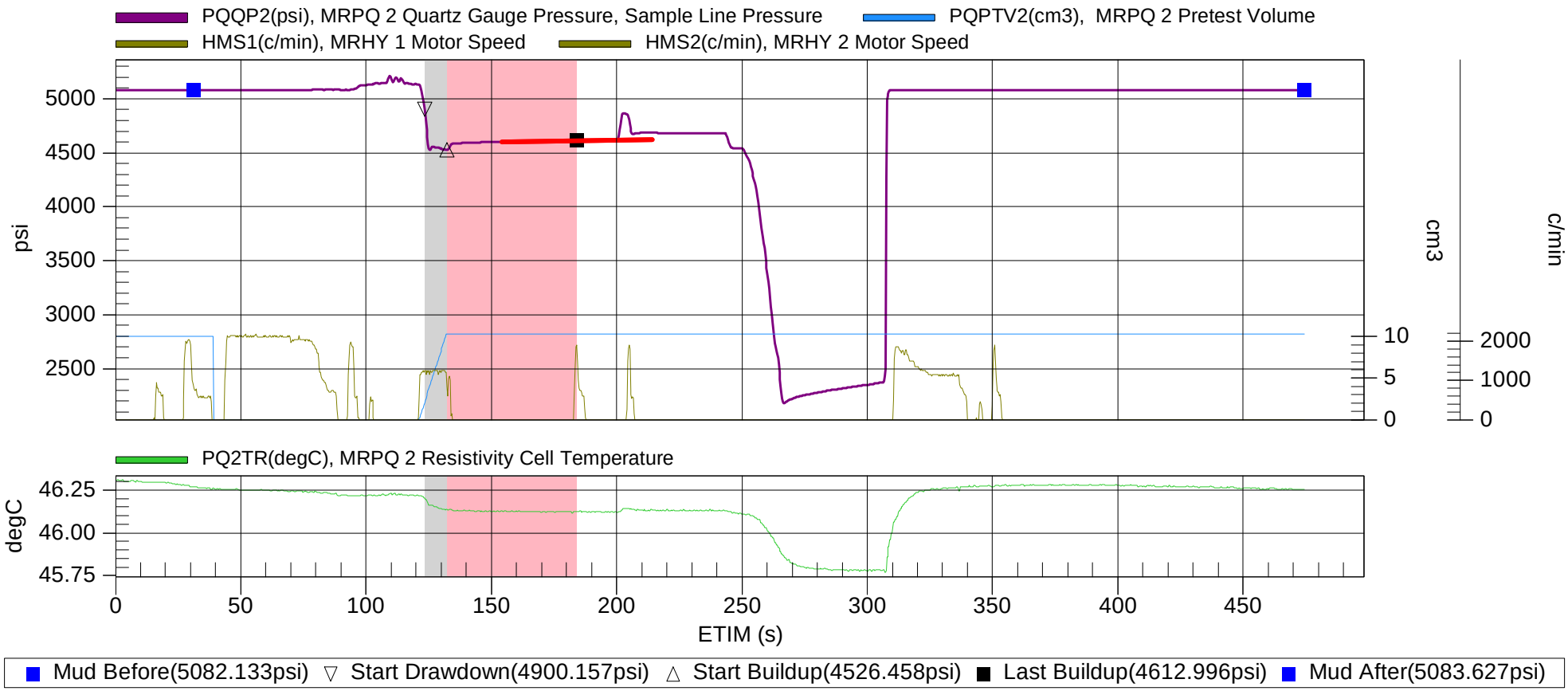
OFA_MDT_138LTP C0020A



■ Mud Before(5082.133psi) ▽ Start Drawdown(4900.157psi) △ Start Buildup(4526.458psi) ■ Last Buildup(4612.996psi) ■ Mud After(5083.627psi)

Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4612.996 (psi)**
Last Read Buildup Pressure :	**4612.996 (psi)**	**Drawdown Mobility:**	**12.18 (mD/cP)**	**Mud Pressure Before:**	**5082.133 (psi)**
Mud Pressure After:	**5083.627 (psi)**	**Temperature Before:**	**46.27 (degC)**	**Temperature After:**	**46.25 (degC)**
Pretest Rate:	**0.93 (cm3/s)**	**Pretest Volume:**	**8.36 (cm3)**	**Comments:**	

Pressure vs. Time Plot

Run No:4 Test No:104 Probe MD:3151.19m Probe TVD:3151.19m

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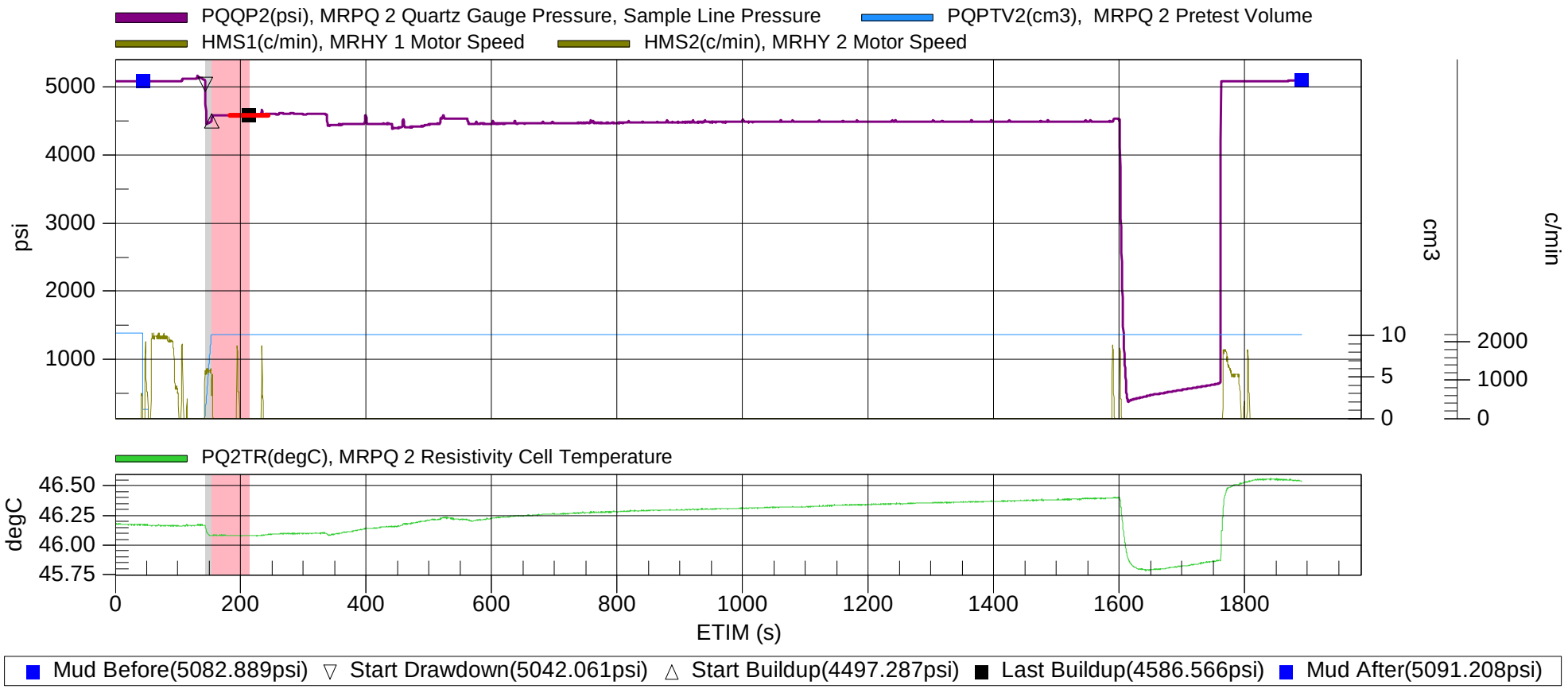
OFA_MDT_139LTP C0020A



Mud Before(5082.889psi) ▽ Start Drawdown(5042.061psi) △ Start Buildup(4497.287psi) ■ Last Buildup(4586.566psi) ■ Mud After(5091.208psi)

Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4586.566 (psi)**
Last Read Buildup Pressure :	**4586.566 (psi)**	**Drawdown Mobility:**	**15.4 (mD/cP)**	**Mud Pressure Before:**	**5082.889 (psi)**
Mud Pressure After:	**5091.208 (psi)**	**Temperature Before:**	**46.17 (degC)**	**Temperature After:**	**46.54 (degC)**
Pretest Rate:	**0.95 (cm3/s)**	**Pretest Volume:**	**9.44 (cm3)**	**Comments:**	

5.18 OFA_MDT_140LTP

5.18.1 Pressure vs. Time Plot

Pressure vs. Time Plot

Run No:4 Test No:105 Probe MD:3150.48m Probe TVD:3150.48m

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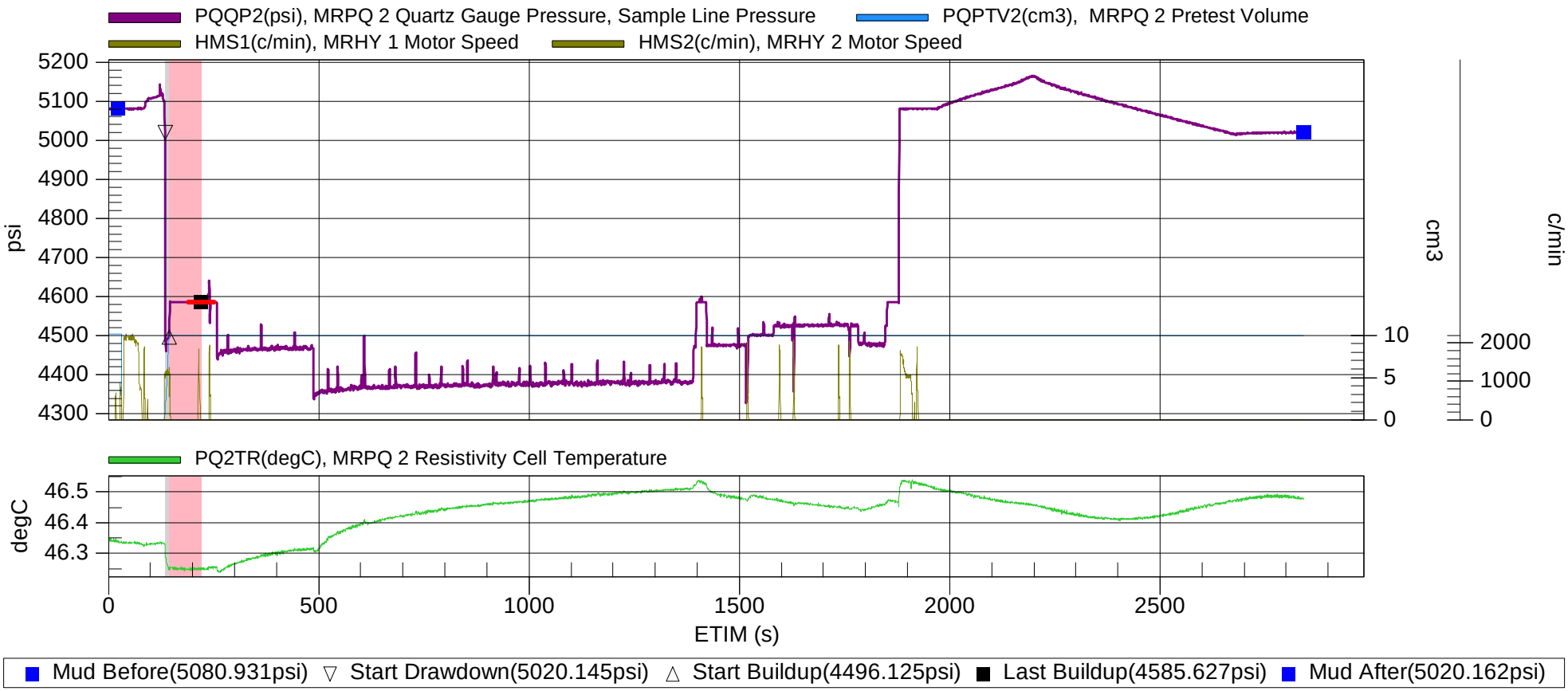
OFA_MDT_140LTP C0020A

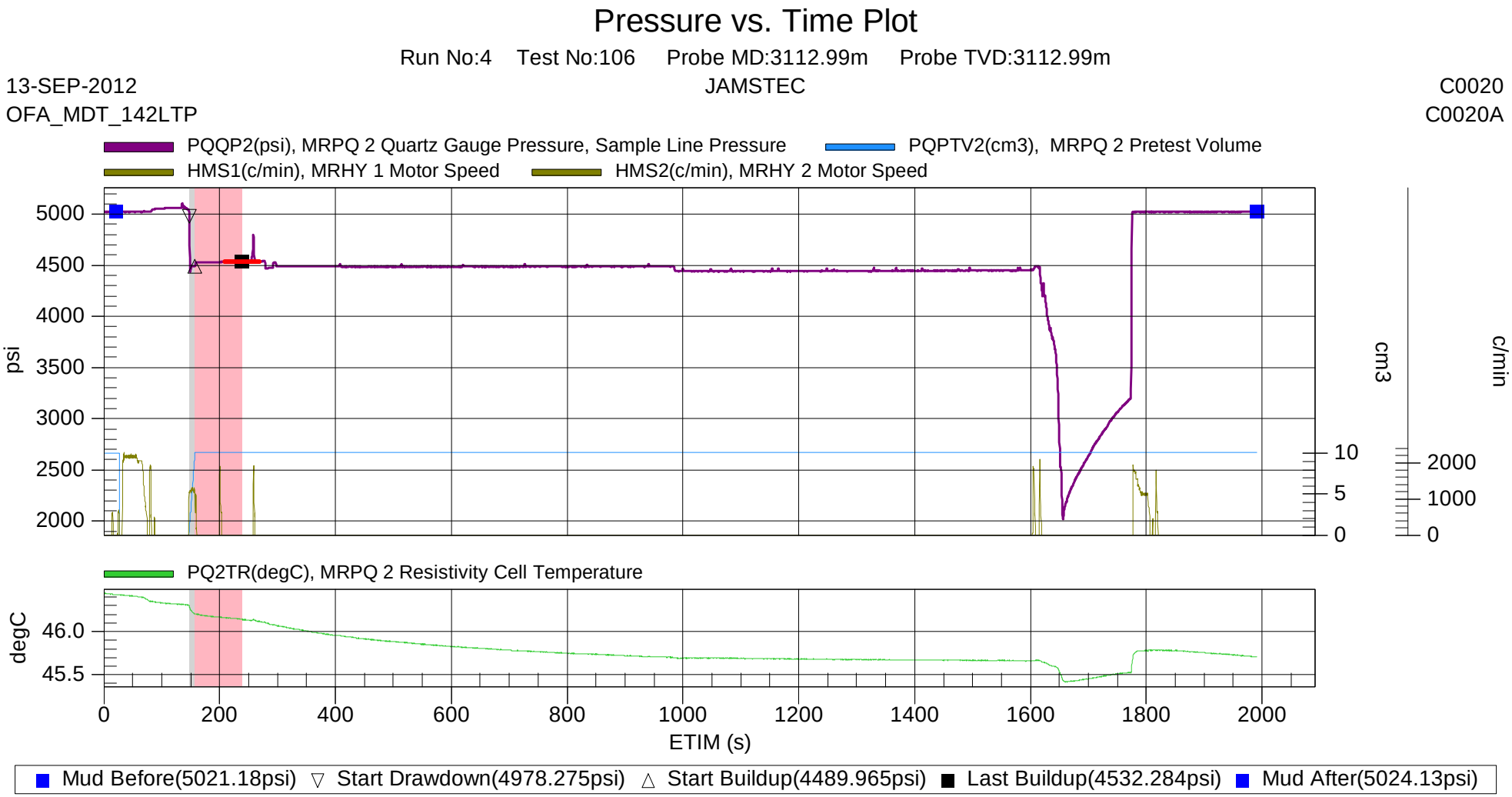


■ Mud Before(5080.931psi) ▽ Start Drawdown(5020.145psi) △ Start Buildup(4496.125psi) ■ Last Buildup(4585.627psi) ■ Mud After(5020.162psi)

Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4585.627 (psi)**
Last Read Buildup Pressure :	**4585.627 (psi)**	**Drawdown Mobility:**	**18.11 (mD/cP)**	**Mud Pressure Before:**	**5080.931 (psi)**
Mud Pressure After:	**5020.162 (psi)**	**Temperature Before:**	**46.34 (degC)**	**Temperature After:**	**46.48 (degC)**
Pretest Rate:	**0.94 (cm3/s)**	**Pretest Volume:**	**9.28 (cm3)**	**Comments:**	

5.19 OFA_MDT_142LTP

5.19.1 Pressure vs. Time Plot



Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4532.284 (psi)**
Last Read Buildup Pressure :	**4532.284 (psi)**	**Drawdown Mobility:**	**29.13 (mD/cP)**	**Mud Pressure Before:**	**5021.18 (psi)**
Mud Pressure After:	**5024.13 (psi)**	**Temperature Before:**	**46.43 (degC)**	**Temperature After:**	**45.71 (degC)**
Pretest Rate:	**0.96 (cm3/s)**	**Pretest Volume:**	**9.55 (cm3)**	**Comments:**	

5.20 OFA_MDT_143LTP

5.20.1 Pressure vs. Time Plot

Pressure vs. Time Plot

Run No:4 Test No:107 Probe MD:3109.69m Probe TVD:3109.69m

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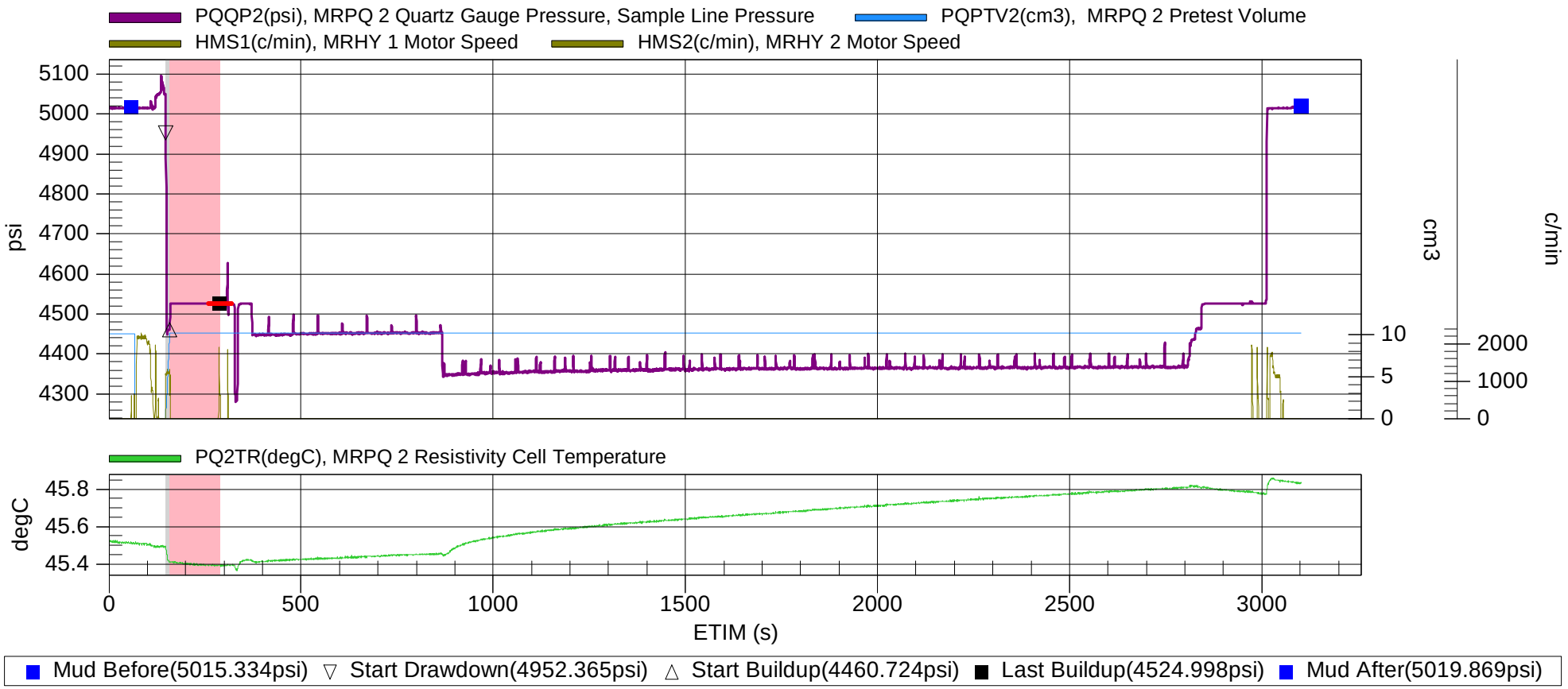
OFA_MDT_143LTP C0020A

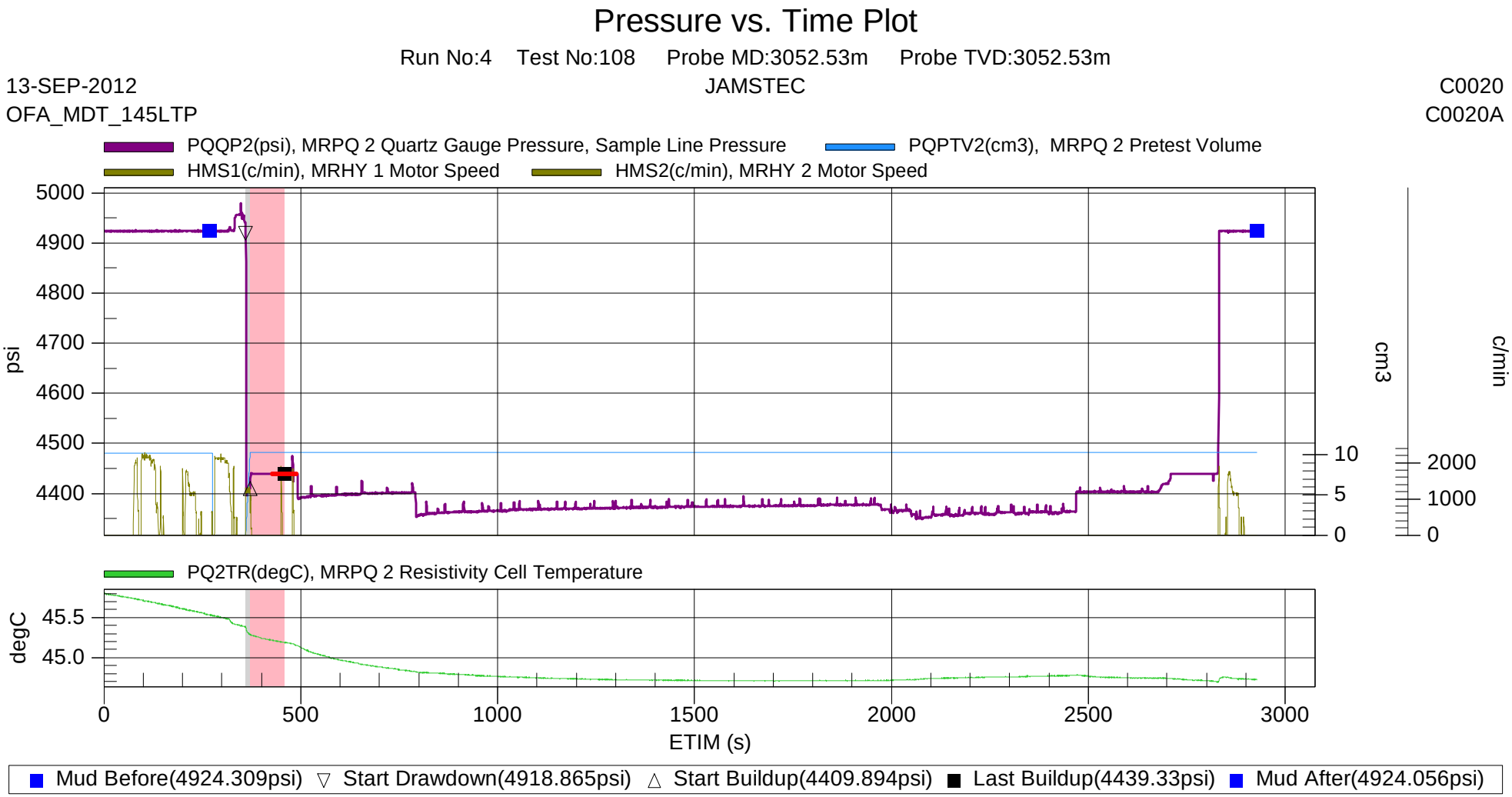


■ Mud Before(5015.334psi) ▽ Start Drawdown(4952.365psi) △ Start Buildup(4460.724psi) ■ Last Buildup(4524.998psi) ■ Mud After(5019.869psi)

Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4524.998 (psi)**
Last Read Buildup Pressure :	**4524.998 (psi)**	**Drawdown Mobility:**	**26.13 (mD/cP)**	**Mud Pressure Before:**	**5015.334 (psi)**
Mud Pressure After:	**5019.869 (psi)**	**Temperature Before:**	**45.51 (degC)**	**Temperature After:**	**45.83 (degC)**
Pretest Rate:	**0.96 (cm3/s)**	**Pretest Volume:**	**9.52 (cm3)**	**Comments:**	

5.21 OFA_MDT_145LTP

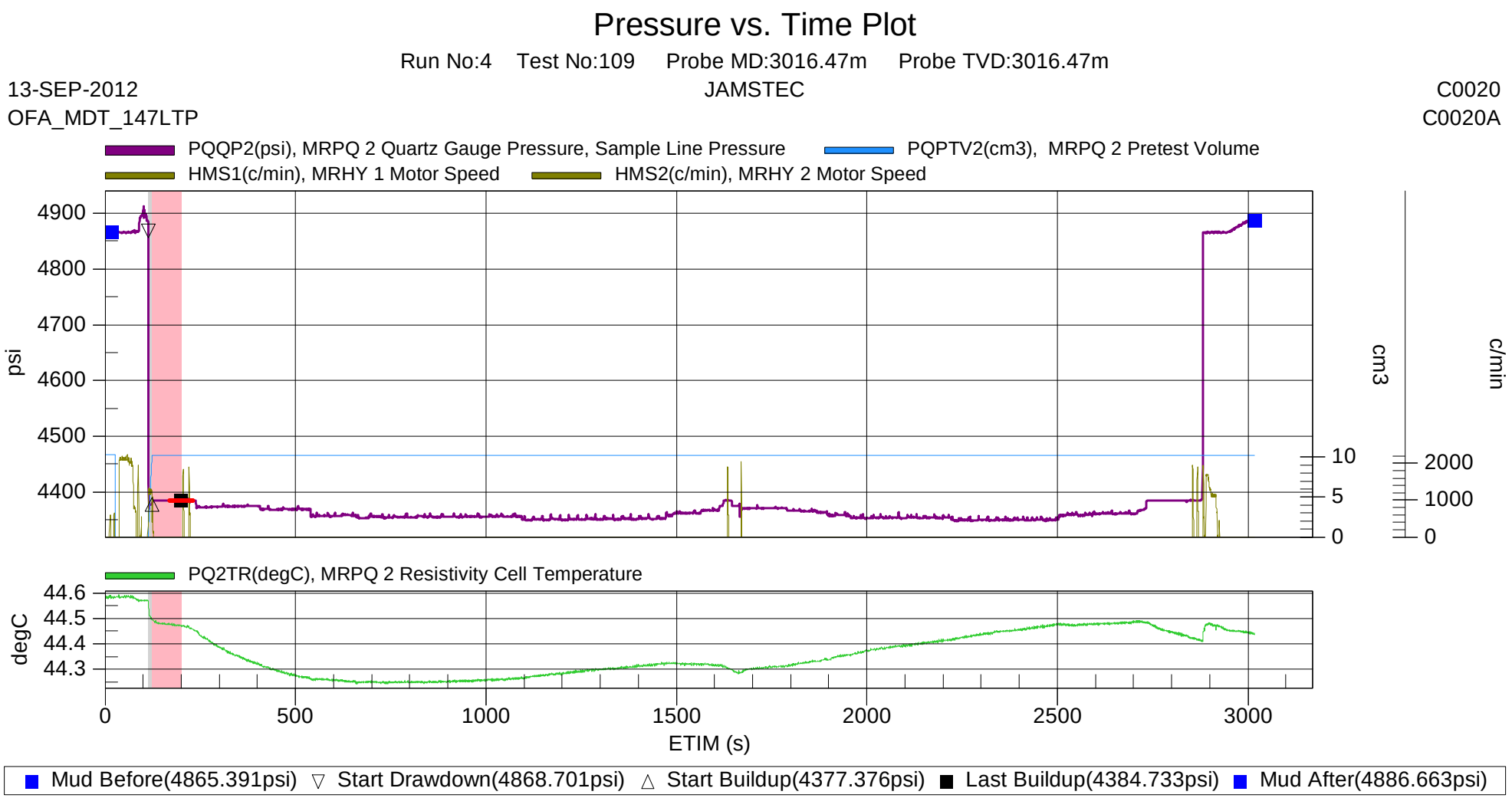
5.21.1 Pressure vs. Time Plot



Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4439.33 (psi)**
Last Read Buildup Pressure :	**4439.33 (psi)**	**Drawdown Mobility:**	**54.77 (mD/cP)**	**Mud Pressure Before:**	**4924.309 (psi)**
Mud Pressure After:	**4924.056 (psi)**	**Temperature Before:**	**45.54 (degC)**	**Temperature After:**	**44.72 (degC)**
Pretest Rate:	**0.96 (cm3/s)**	**Pretest Volume:**	**10.09 (cm3)**	**Comments:**	

5.22 OFA_MDT_147LTP

5.22.1 Pressure vs. Time Plot



Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**4384.733 (psi)**
Last Read Buildup Pressure :	**4384.733 (psi)**	**Drawdown Mobility:**	**207.08 (mD/cP)**	**Mud Pressure Before:**	**4865.391 (psi)**
Mud Pressure After:	**4886.663 (psi)**	**Temperature Before:**	**44.59 (degC)**	**Temperature After:**	**44.44 (degC)**
Pretest Rate:	**0.96 (cm3/s)**	**Pretest Volume:**	**10.04 (cm3)**	**Comments:**	

5.23 OFA_MDT_149LTP

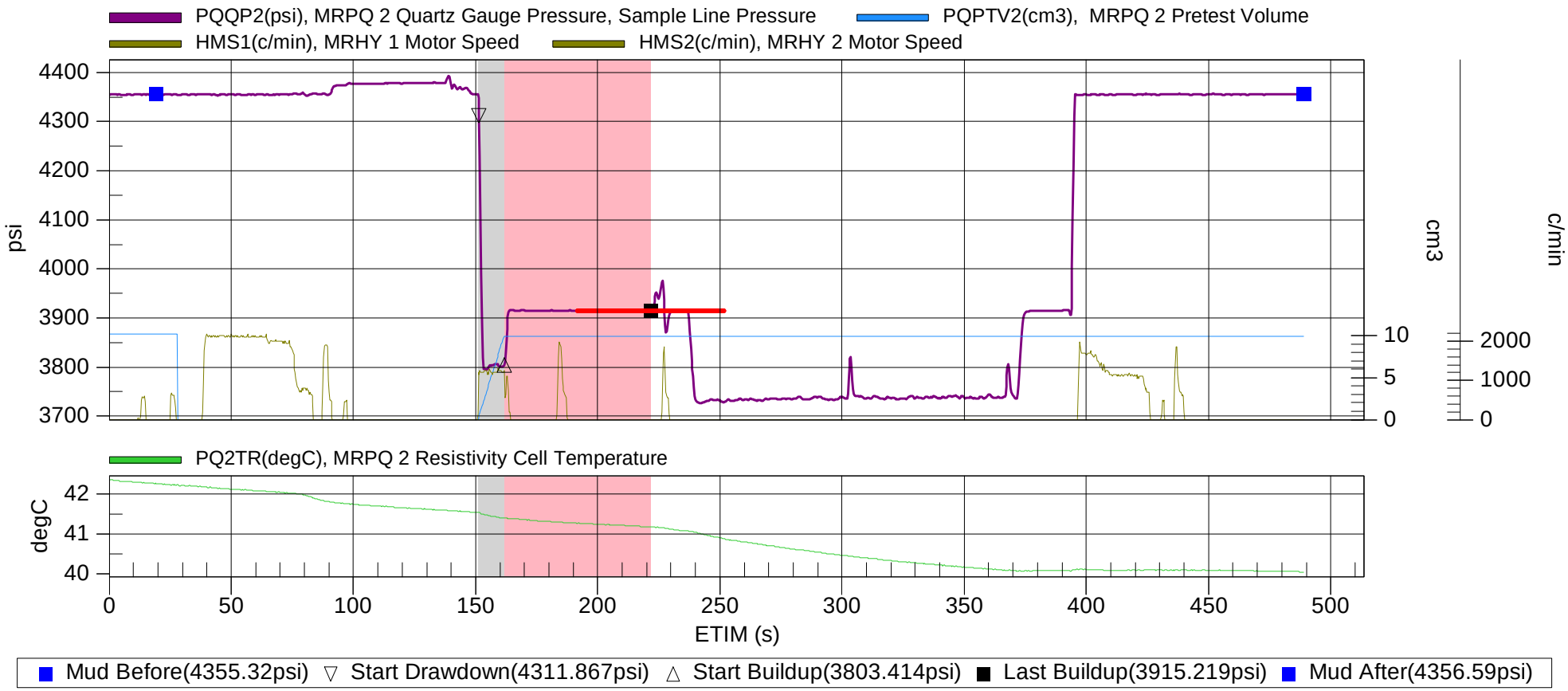
5.23.1 Pressure vs. Time Plot

Pressure vs. Time Plot

Run No:4 Test No:110 Probe MD:2696.92m Probe TVD:2696.92m

13-SEP-2012 JAMSTEC C0020

OFA_MDT_149LTP C0020A

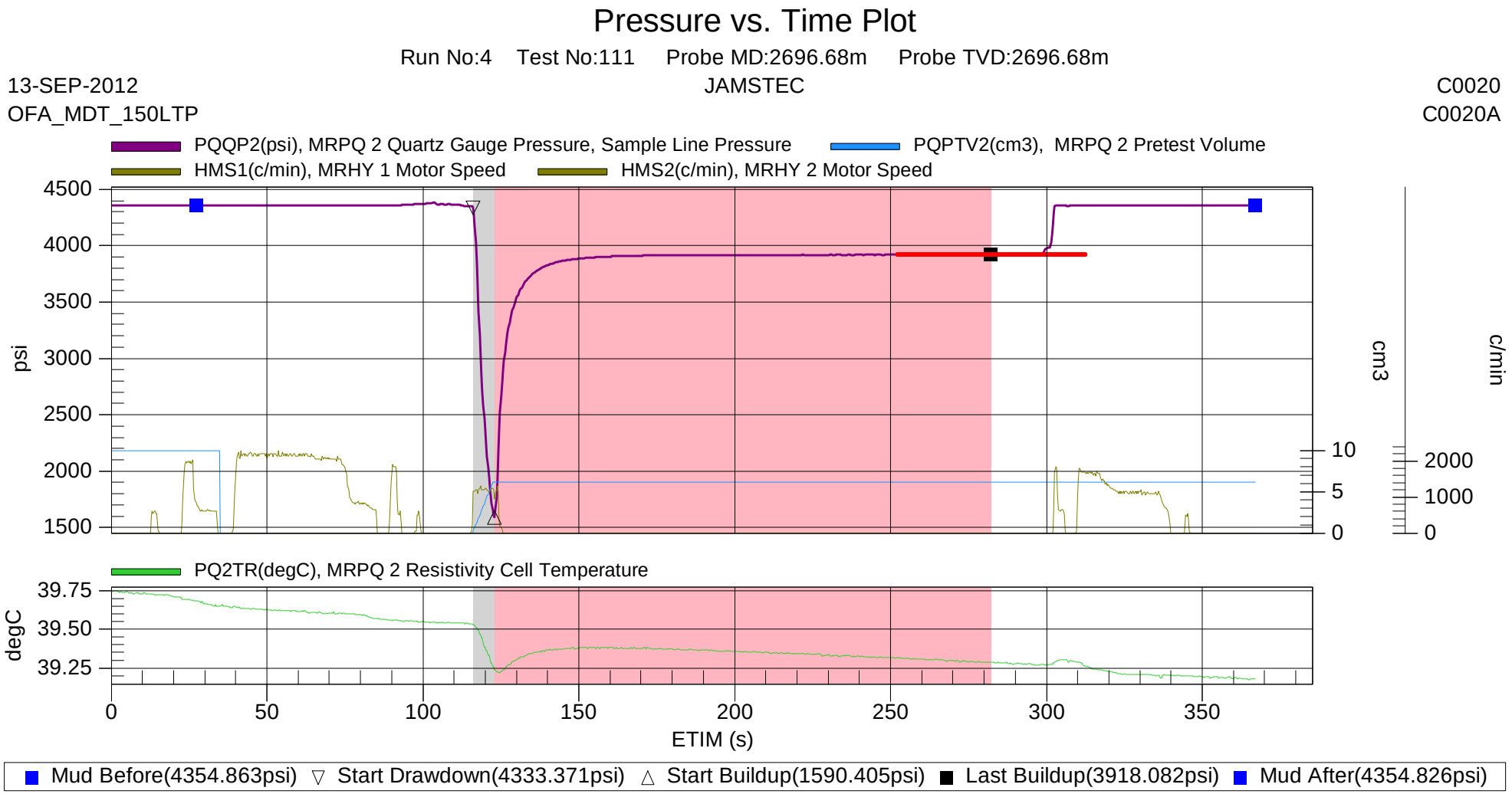


■ Mud Before(4355.32psi) ▽ Start Drawdown(4311.867psi) △ Start Buildup(3803.414psi) ■ Last Buildup(3915.219psi) ■ Mud After(4356.59psi)

Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**3915.219 (psi)**
Last Read Buildup Pressure :	**3915.219 (psi)**	**Drawdown Mobility:**	**14.82 (mD/cP)**	**Mud Pressure Before:**	**4355.32 (psi)**
Mud Pressure After:	**4356.59 (psi)**	**Temperature Before:**	**42.27 (degC)**	**Temperature After:**	**40.06 (degC)**
Pretest Rate:	**0.93 (cm3/s)**	**Pretest Volume:**	**9.45 (cm3)**	**Comments:**	

5.24 OFA_MDT_150LTP

5.24.1 Pressure vs. Time Plot



Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**3918.082 (psi)**
Last Read Buildup Pressure :	**3918.082 (psi)**	**Drawdown Mobility:**	**0.51 (mD/cP)**	**Mud Pressure Before:**	**4354.863 (psi)**
Mud Pressure After:	**4354.826 (psi)**	**Temperature Before:**	**39.68 (degC)**	**Temperature After:**	**39.18 (degC)**
Pretest Rate:	**0.86 (cm3/s)**	**Pretest Volume:**	**5.94 (cm3)**	**Comments:**	

5.25 OFA_MDT_152LTP

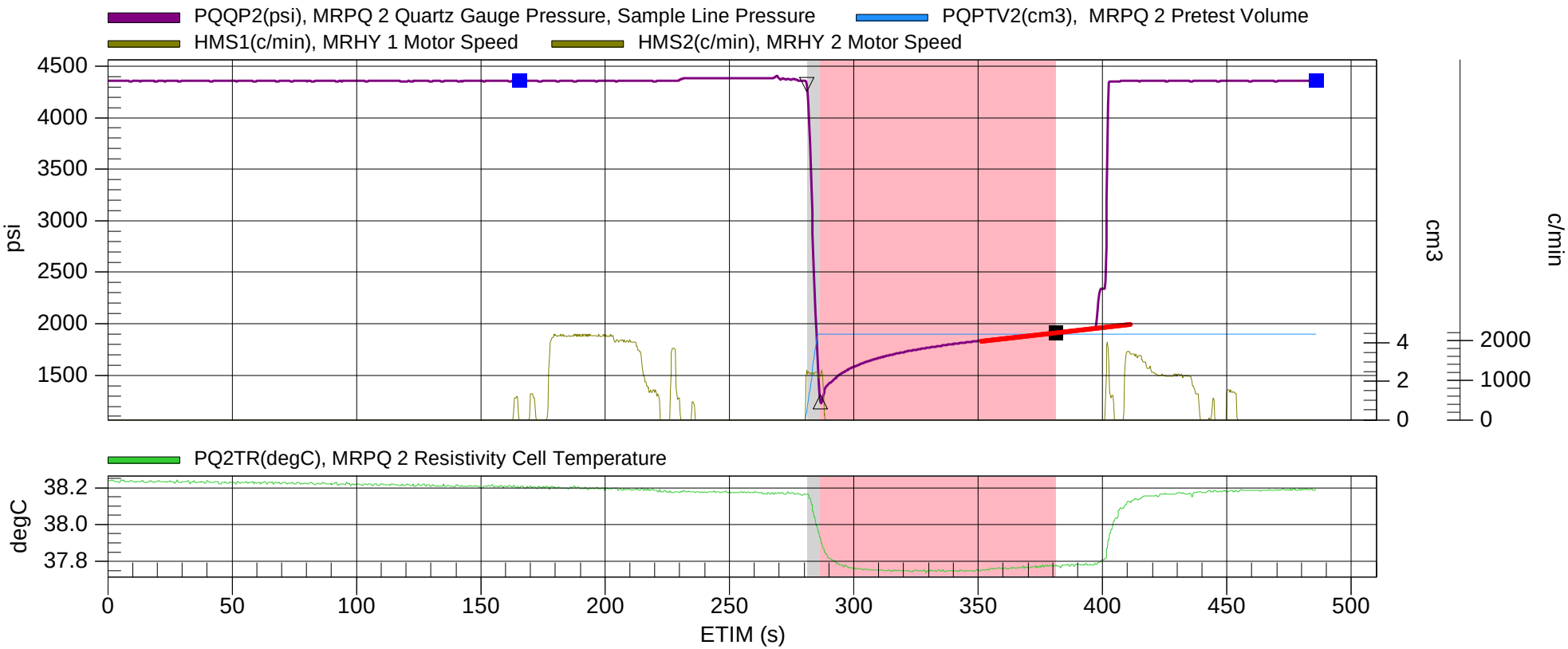
5.25.1 Pressure vs. Time Plot

Pressure vs. Time Plot

Run No:4 Test No:1 Probe MD:2697.29m Probe TVD:2697.29m

14-SEP-2012 JAMSTEC C0020

OFA_MDT_152LTP C0020A



Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Tight Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	
Last Read Buildup Pressure :	**1914.888 (psi)**	**Drawdown Mobility:**		**Mud Pressure Before:**	**4356.447 (psi)**
Mud Pressure After:	**4356.838 (psi)**	**Temperature Before:**	**38.2 (degC)**	**Temperature After:**	**38.19 (degC)**
Pretest Rate:	**0.75 (cm3/s)**	**Pretest Volume:**	**4.04 (cm3)**	**Comments:**	

5.26 OFA_MDT_153LTP

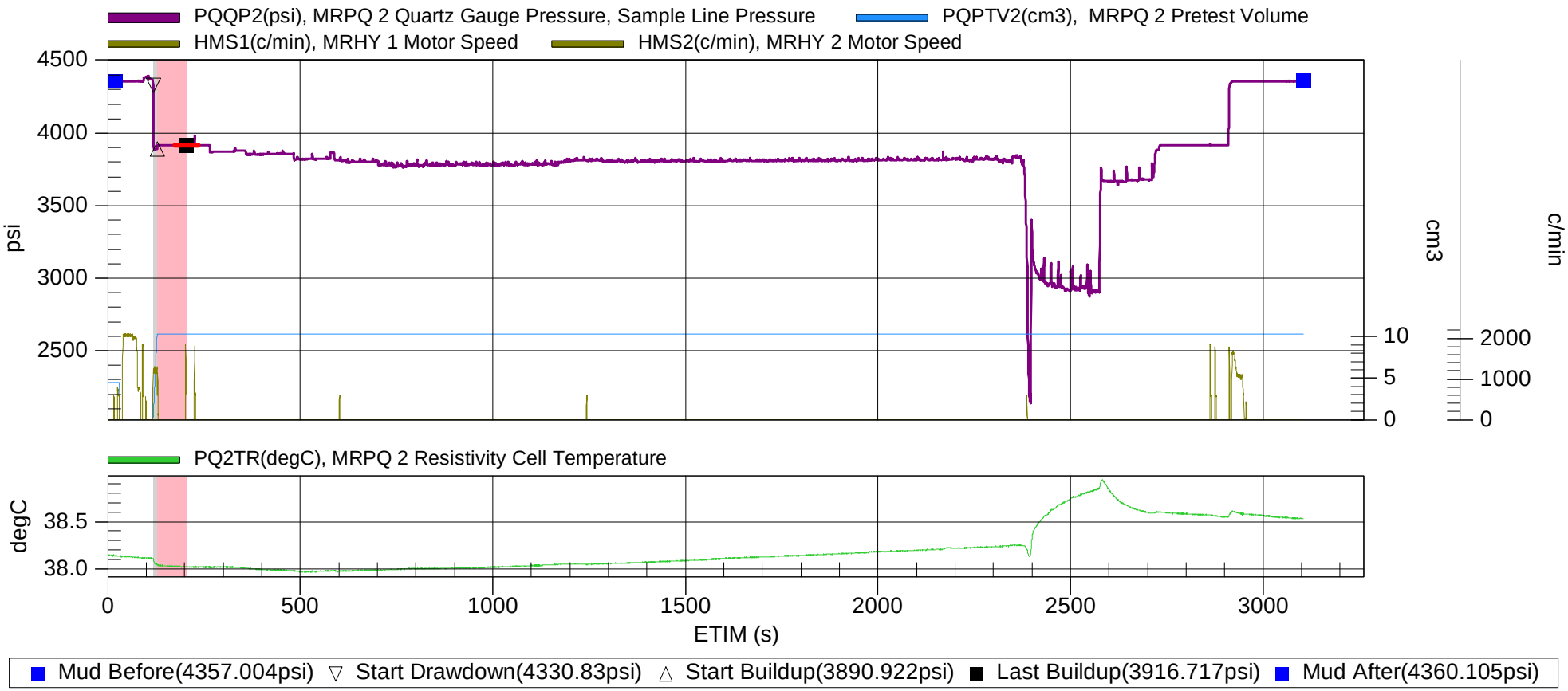
5.26.1 Pressure vs. Time Plot

Pressure vs. Time Plot

Run No:4 Test No:2 Probe MD:2697.78m Probe TVD:2697.78m

14-SEP-2012 JAMSTEC C0020

OFA_MDT_153LTP C0020A



■ Mud Before(4357.004psi) ▽ Start Drawdown(4330.83psi) △ Start Buildup(3890.922psi) ■ Last Buildup(3916.717psi) ■ Mud After(4360.105psi)

Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**3916.717 (psi)**
Last Read Buildup Pressure :	**3916.717 (psi)**	**Drawdown Mobility:**	**65.1 (mD/cP)**	**Mud Pressure Before:**	**4357.004 (psi)**
Mud Pressure After:	**4360.105 (psi)**	**Temperature Before:**	**38.14 (degC)**	**Temperature After:**	**38.53 (degC)**
Pretest Rate:	**0.95 (cm3/s)**	**Pretest Volume:**	**10.01 (cm3)**	**Comments:**	

5.27 OFA_MDT_156LTP

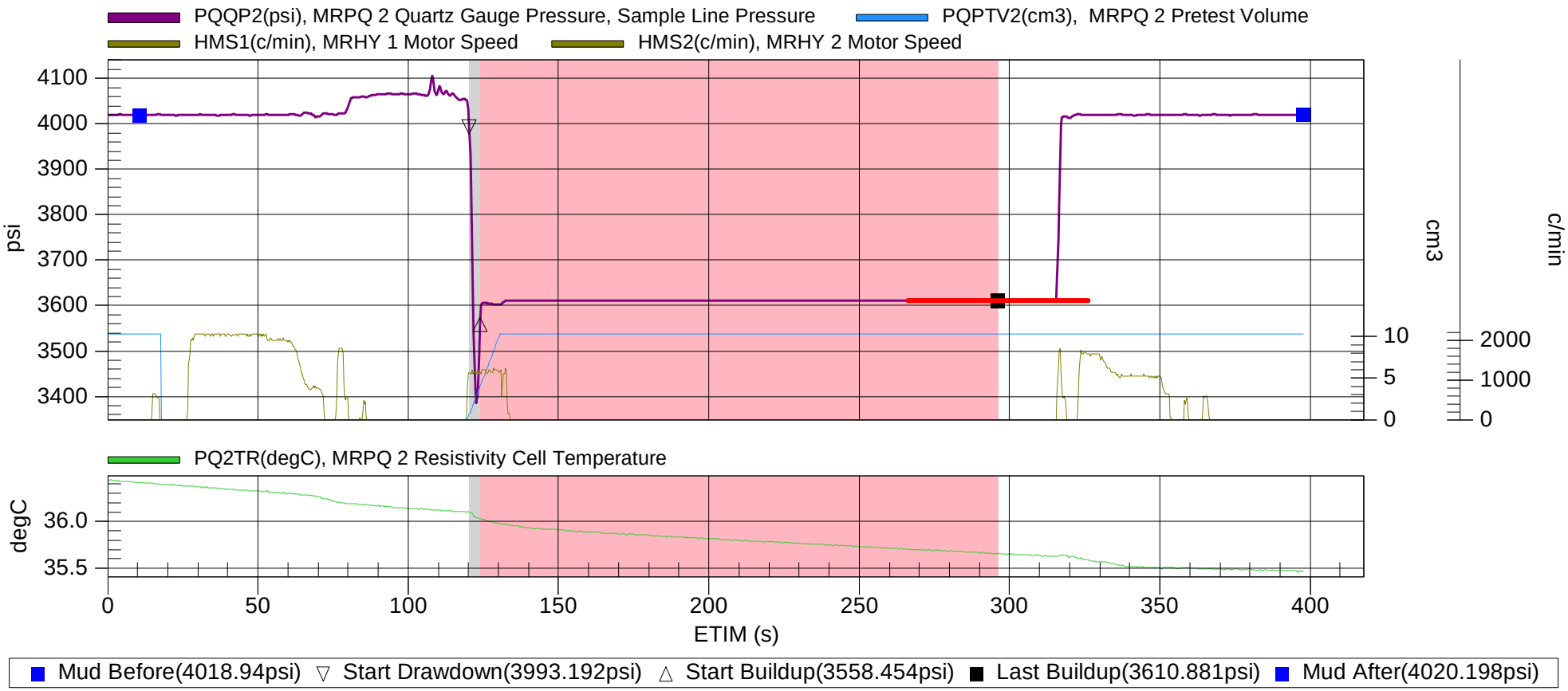
5.27.1 Pressure vs. Time Plot

Pressure vs. Time Plot

Run No:4 Test No:4 Probe MD:2487.49m Probe TVD:2487.49m

14-SEP-2012 JAMSTEC C0020

OFA_MDT_156LTP C0020A



■ Mud Before(4018.94psi) ▽ Start Drawdown(3993.192psi) △ Start Buildup(3558.454psi) ■ Last Buildup(3610.881psi) ■ Mud After(4020.198psi)

Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**3610.881 (psi)**
Last Read Buildup Pressure :	**3610.881 (psi)**	**Drawdown Mobility:**	**10.58 (mD/cP)**	**Mud Pressure Before:**	**4018.94 (psi)**
Mud Pressure After:	**4020.198 (psi)**	**Temperature Before:**	**36.41 (degC)**	**Temperature After:**	**35.47 (degC)**
Pretest Rate:	**0.93 (cm3/s)**	**Pretest Volume:**	**3.36 (cm3)**	**Comments:**	

5.28 OFA_MDT_157LTP

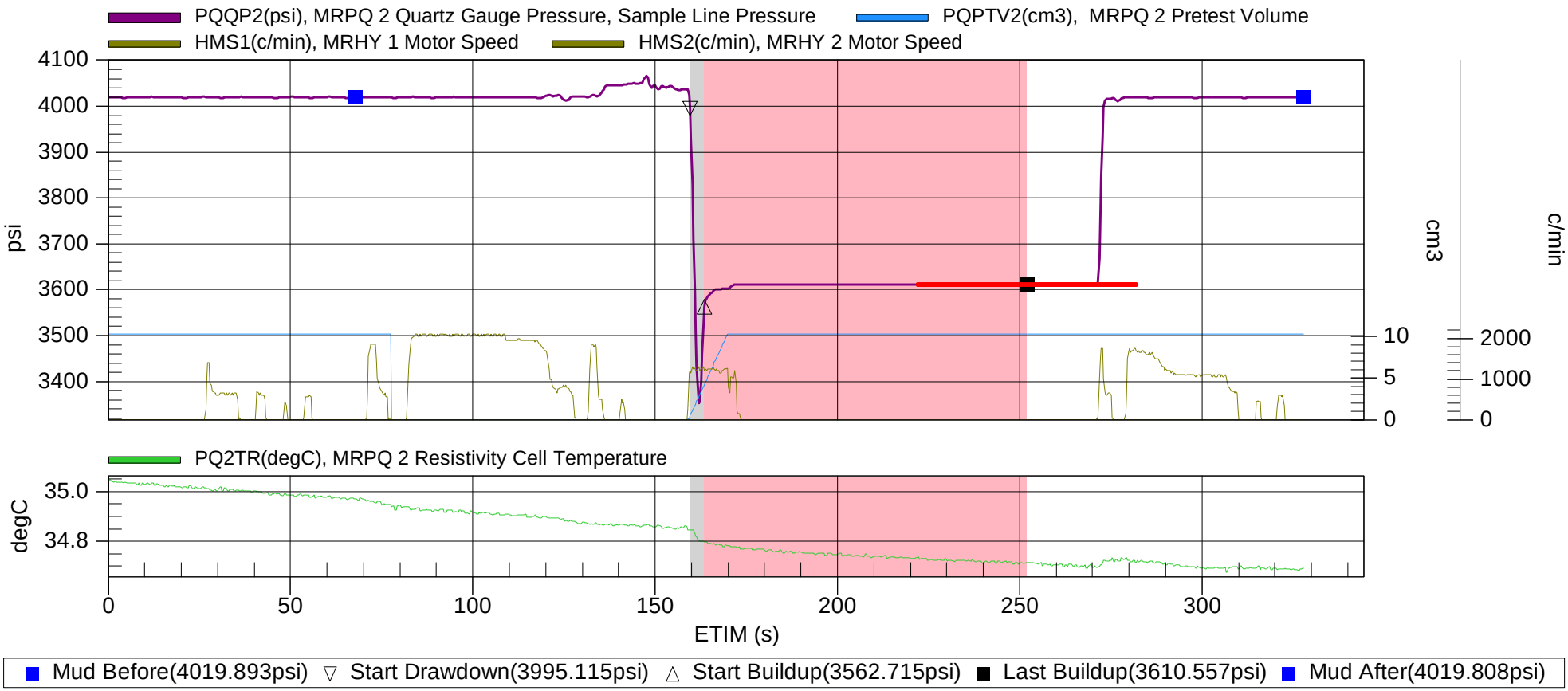
5.28.1 Pressure vs. Time Plot

Pressure vs. Time Plot

Run No:4 Test No:5 Probe MD:2487.24m Probe TVD:2487.24m

14-SEP-2012 JAMSTEC C0020

OFA_MDT_157LTP C0020A

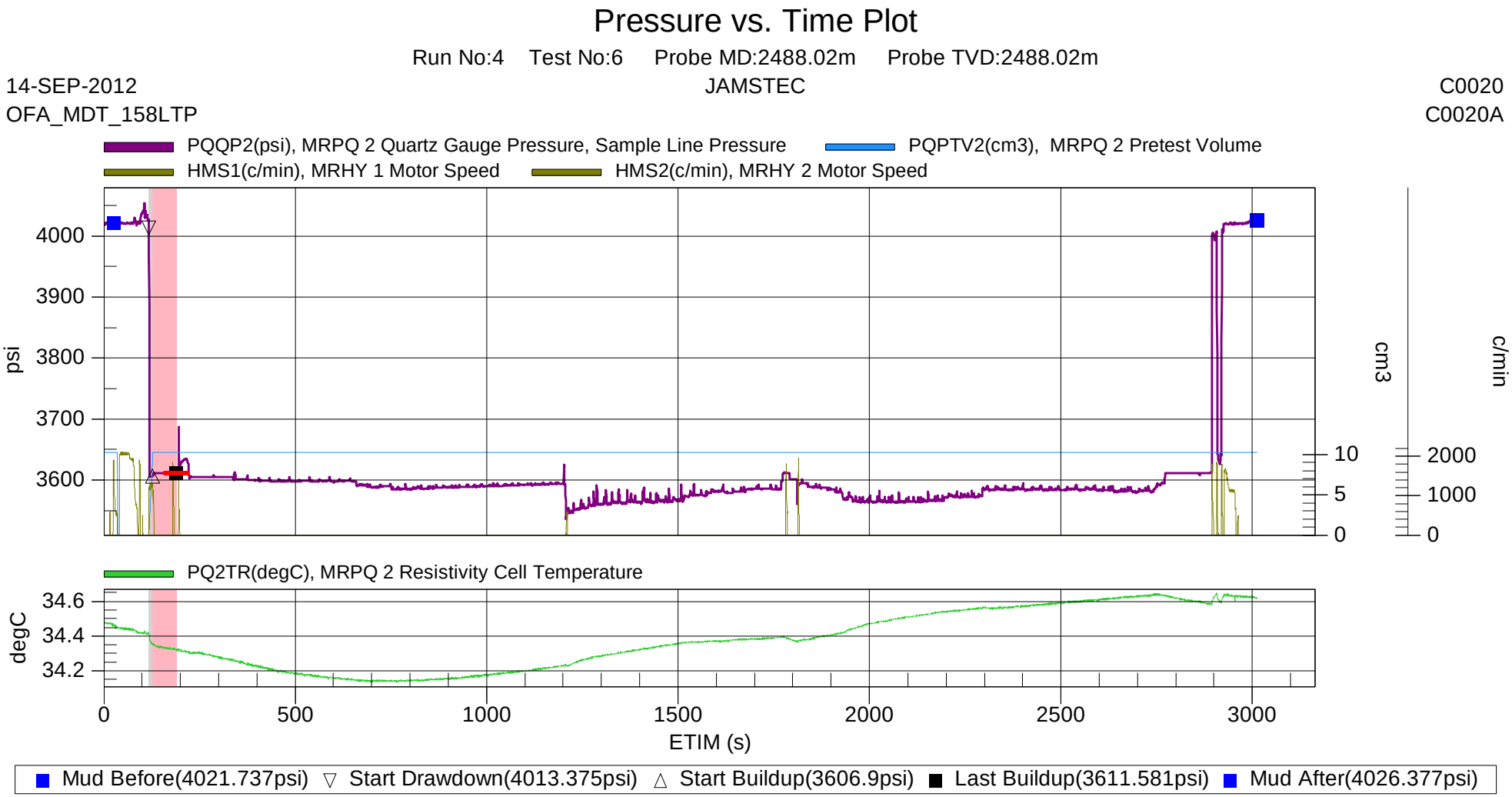


■ Mud Before(4019.893psi) ▽ Start Drawdown(3995.115psi) △ Start Buildup(3562.715psi) ■ Last Buildup(3610.557psi) ■ Mud After(4019.808psi)

Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**3610.557 (psi)**
Last Read Buildup Pressure :	**3610.557 (psi)**	**Drawdown Mobility:**	**10 (mD/cP)**	**Mud Pressure Before:**	**4019.893 (psi)**
Mud Pressure After:	**4019.808 (psi)**	**Temperature Before:**	**34.97 (degC)**	**Temperature After:**	**34.69 (degC)**
Pretest Rate:	**0.93 (cm3/s)**	**Pretest Volume:**	**3.64 (cm3)**	**Comments:**	

5.29 OFA_MDT_158LTP

5.29.1 Pressure vs. Time Plot



Tool Type:	**MDT**	**Pretest Type:**	**Volumetric Drawdown Pretest**	**Pretest Status:**	**Valid Test**
Packer/Probe Type:	**MPMP-AB(MRPQ) probe**	**Primary Gauge:**	**PQQP2**	**Formation Pressure:**	**3611.581 (psi)**
Last Read Buildup Pressure :	**3611.581 (psi)**	**Drawdown Mobility:**	**318.94 (mD/cP)**	**Mud Pressure Before:**	**4021.737 (psi)**
Mud Pressure After:	**4026.377 (psi)**	**Temperature Before:**	**34.46 (degC)**	**Temperature After:**	**34.62 (degC)**
Pretest Rate:	**0.97 (cm3/s)**	**Pretest Volume:**	**9.88 (cm3)**	**Comments:**	