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

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1.2 Sampling and Fluids Profiling Summary Table

Table 1 Sampling and Fluids Profiling Summary

No.	Well Name	Run No.	File No.	MD (m)	TVD (m)	Type	Bottle Module	Bottle Serial No.	Bottle Type	Bottle Volume (cm3)	Closing Pressure (psi)	Formation Pressure (psi)	Flowline Temperature (degC)	Maximum Drawdown Pressure (psi)	Pump Time (s)	Pump Volume (cm3)	Remarks
1	C0020A	4	122	3186.49	3186.49	Sampling	MS_1 B1	752.	SPMC	250	13169.87	4638.262	48.58	140.569	2586.9	11048.58	
2	C0020A	4	143	3109.69	3109.69	Sampling	MS_1 B2	753.	SPMC	250	14792.5	4524.998	46.34	245.227	2374.2	8670	
3	C0020A	4	145	3052.53	3052.53	Sampling	MS_1 B3	754.	SPMC	250	15027.5	4439.33	45.52	90.398	2050.8	8837.48	
4	C0020A	4	147	3016.47	3016.47	Sampling	MS_1 B4	755.	SPMC	250	15038.83	4384.733	44.93	37.144	2364.6	14812.65	
5	C0020A	4	153	2697.78	2697.78	Sampling	MS_1 B5	756.	SPMC	250	14617.91	3916.717	39.16	1778.785	2372.7	21274.97	
6	C0020A	4	158	2488.02	2488.02	Sampling	MS_1 B6	757.	SPMC	250	13922.28	3611.581	35.49	75.607	2417.7	18130.32	

1.3 Fluids Analysis Results Table

Table 2 Fluids Analysis Result Table

No.	Well Name	Run No.	File ID	MD (m)	TVD (m)	TVDss (m)	GOR	C1 (wt%)	C2 (wt%)	C3-C5 (wt%)	C2-C5 (wt%)	C6+ (wt%)	CO2 (wt%)	DV-Rod Dens. (g/cm3)	Contamination (%)	Water Frac.	Oil Frac.	pH	Fluorescence 0	Fluorescence 1	Fluorescence Ratio	Fluorescence Reflection
1	C0020A	4	OFA_MDT_122LTP	3186.49	3186.49	-3157.99								1.07		1	0		0.01	0	0.5	0.04
2	C0020A	4	OFA_MDT_143LTP	3109.69	3109.69	-3081.19								1.07		1	0		0.01	0.01	0.55	0.04
3	C0020A	4	OFA_MDT_145LTP	3052.53	3052.53	-3024.03								1.06		1	0		0.01	0	0.53	0.03
4	C0020A	4	OFA_MDT_147LTP	3016.47	3016.47	-2987.97								1.04		1	0		0.01	0	0.59	0.04
5	C0020A	4	OFA_MDT_153LTP	2697.78	2697.78	-2669.28								1.05		1	0		0.01	0	0.57	0.03
6	C0020A	4	OFA_MDT_158LTP	2488.02	2488.02	-2459.52								1.05		1	0		0.01	0	0.59	0.03

2 Well and Job Data

2.1 Well Header

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

Schlumberger

MDT Pretest & Sampling

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

Station Log

Company:	JAMSTEC
Well:	C0020A
Field:	C0020
State:	
County:	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 (lbm/ft)	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

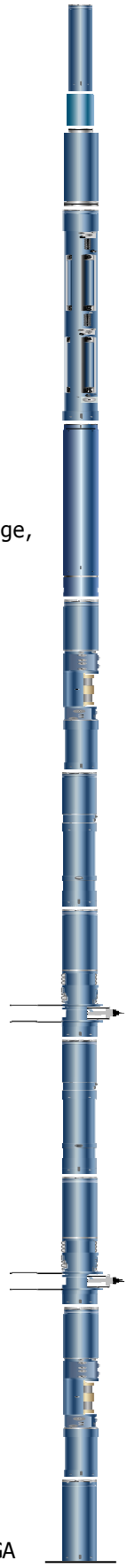
Depth Control Parameters	**subsequent**					
Rig Type	Offshore					
Depth Measured Device	**IDW**					
Type	IDW-JA					
Serial Number	6790					
Wheel Correction 1	**-3**					
Wheel Correction 2	**-2**					
Tension Device	**CMTD**					
Type	CMTD-BA					
Serial Number	2986					
Logging Cable	**7-46 ZV 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 3 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

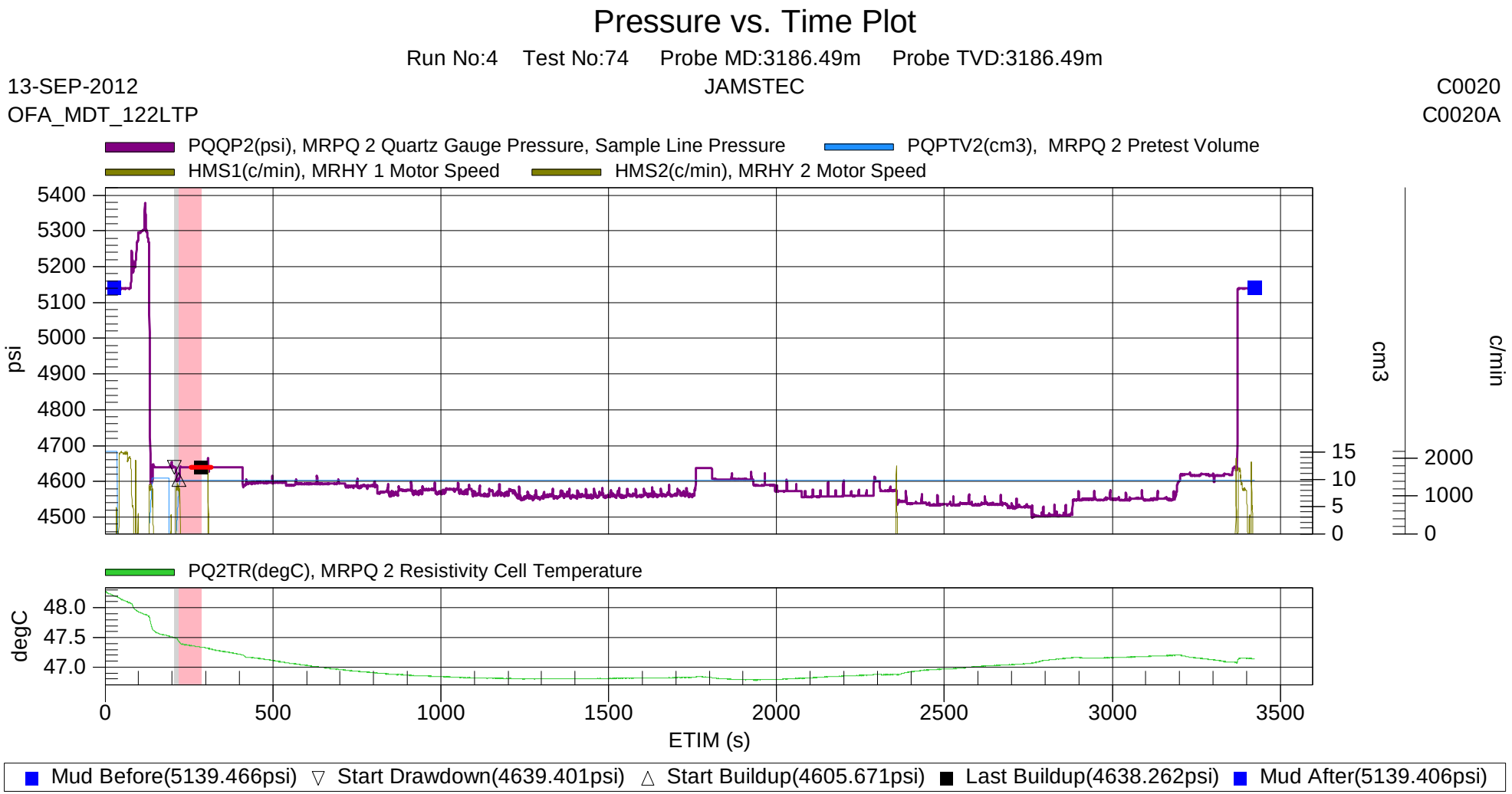
Table 4 Pressure Related Results

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
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
153	2	2697.78	2697.78	65.10	4357.004	4360.105	3916.717	3916.717	38.53	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:**	

5.1.2 Fluids Analysis

File Number	OFA_MDT_122LTP	Formation Pressure	4638.262 psi
MD	3186.49 m	Hydrostatic Pressure	5139.466 psi
TVD	3186.49 m	Formation Temperature	49.94 degC
Type	Sampling	Number of Samples	1

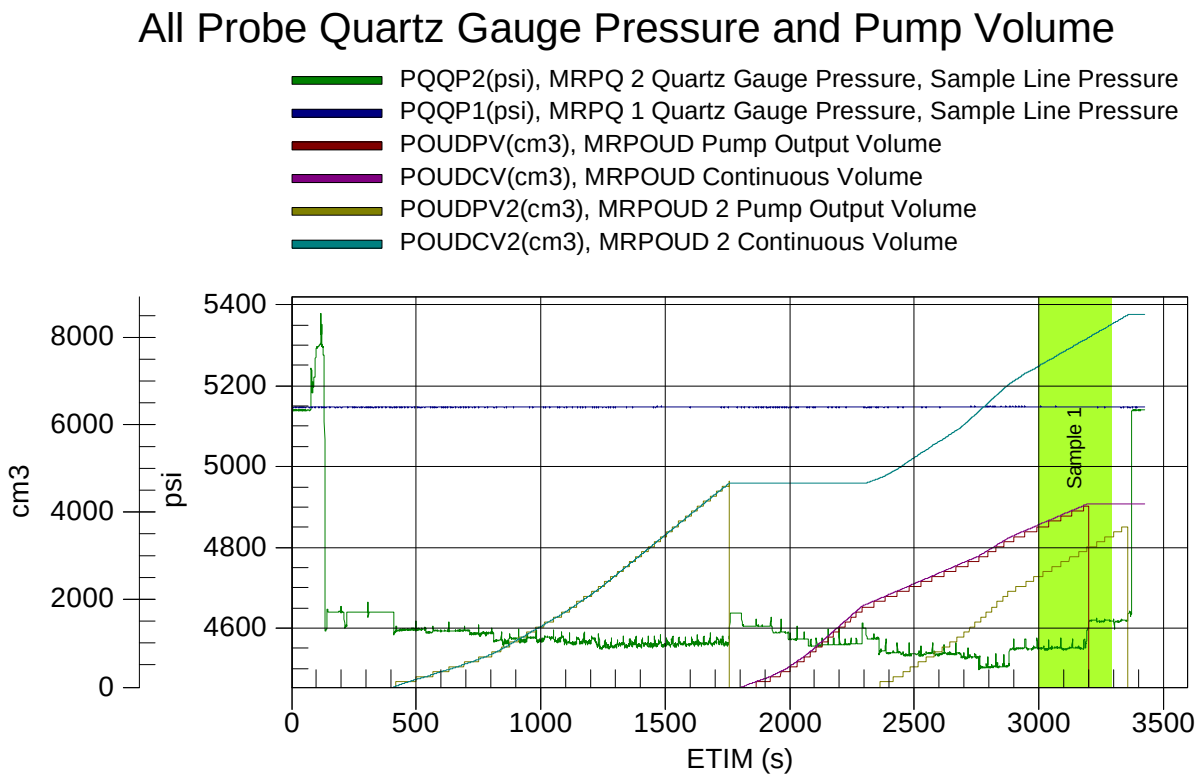


Figure 2 Summary Plot

Table 5 Event Table

ETIM (s)	Module	Description
0	CFA	Turn to Measure Mode
22.2	PQ_2	Recycle Pretest Pistons
36.6	PQ_2	Set Sequence
85.2	PQ_2	Automatic Reset Enabled
85.2	PQ_2	Close Isolation Valves
85.2	PQ_2	Probe Set
93	PQ_2	Open Bypass Valves
125.4	PQ_2	Pretest Start
144	PQ_2	Pretest End
191.1	PQ_2	Close Isolation Valves
206.4	PQ_2	Pretest Start
224.1	PQ_2	Pretest End
301.8	PQ_2	Open Isolation Valves
406.2	POUD_2	Start Pump Down
1758.6	POUD_2	Stop Pump Down 4715 cm3
1805.1	POUD	Start Pump Up
2306.4	POUD_2	Start Pump Down
2351.1	PQ_2	Close Bypass Valves
2977.5	MS_1	Command Open Bottle 1
2995.8	MS_1	Open Bottle 1
3086.1	MS_1	Close USV
3186	MS_1	Bottle 1 is Filled
3200.7	POUD	Stop Pump Up 4140 cm3
3277.8	MS_1	Command Close Bottle 1
3290.7	MS_1	Close Bottle 1
3302.7	MS_1	Open USV
3357	POUD_2	Stop Pump Down 3680 cm3

ETIM (s)	Module	Description
3362.7	PQ_2	Open Bypass Valves
3362.7	PQ_2	Open Isolation Valves
3369.9	PQ_2	Retracting
3408.6	PQ_1	Open Isolation Valves
3408.6	PQ_1	Open Bypass Valves

5.1.2.1 IFA_1 Log Analysis

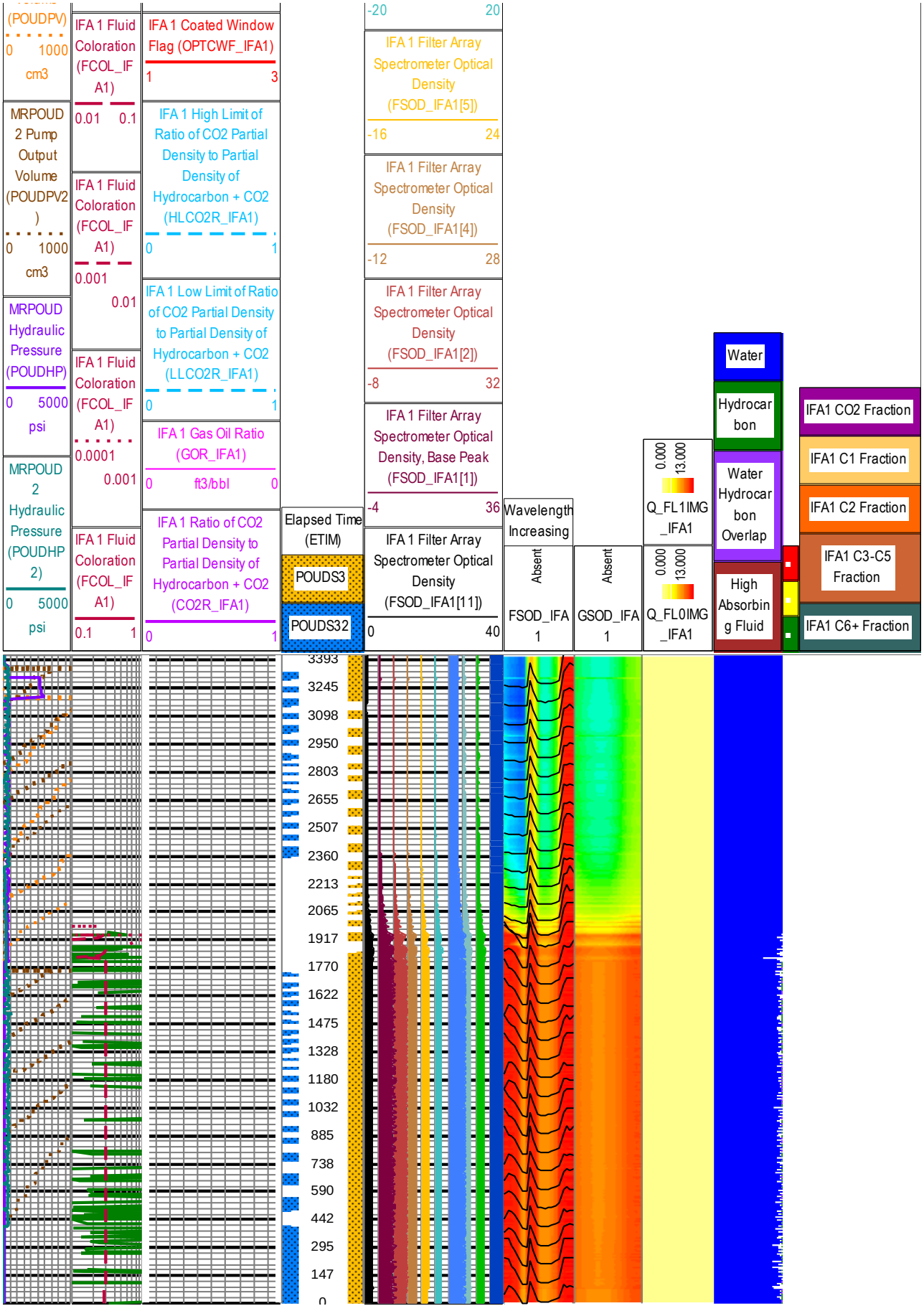


Figure 3 IFA_1 Log Plot

5.1.2.2 CFA Log Analysis

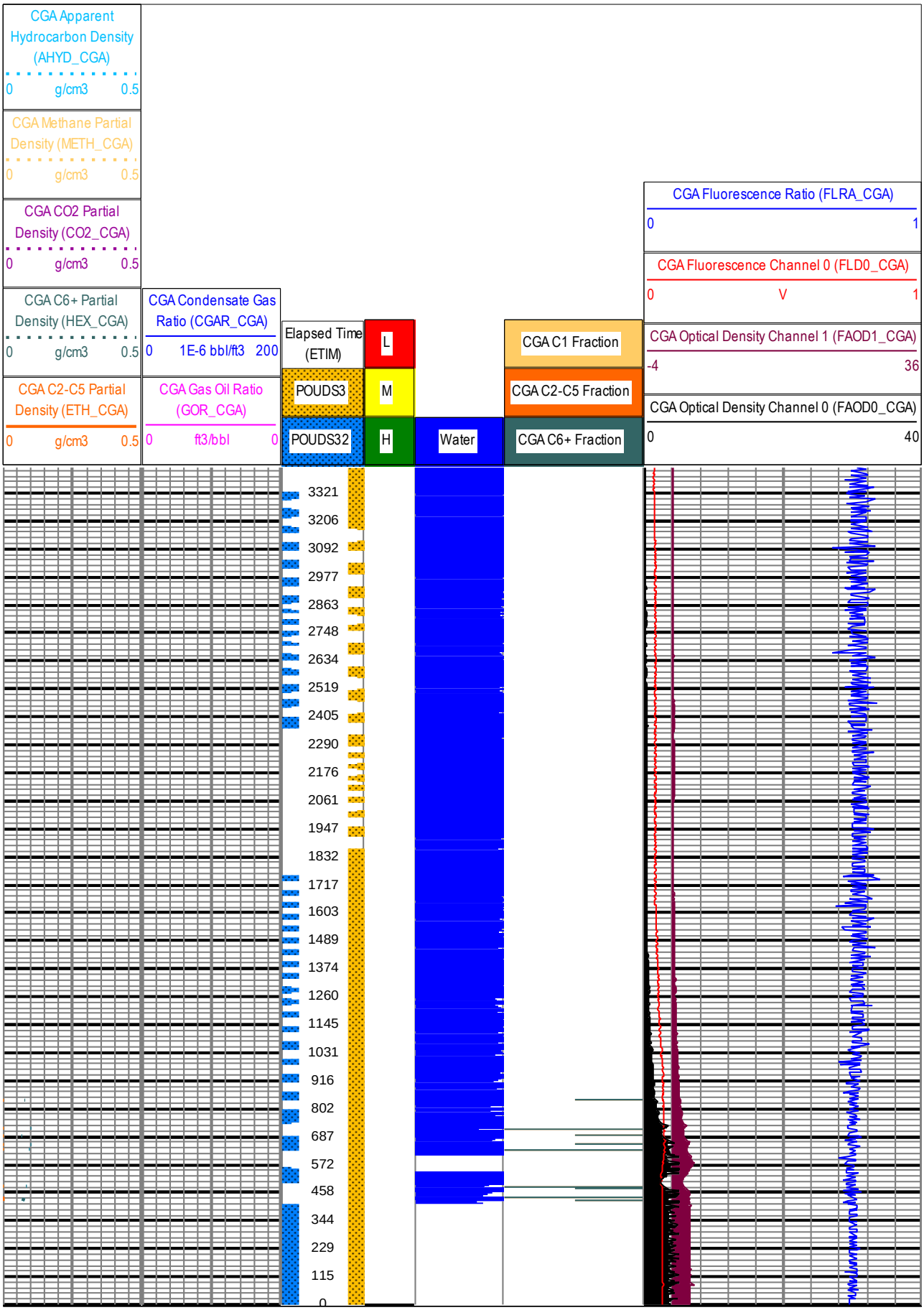


Figure 4 CFA Log Plot

5.1.2.3 Sample 1 Analysis (2995.8 s - 3290.7 s)

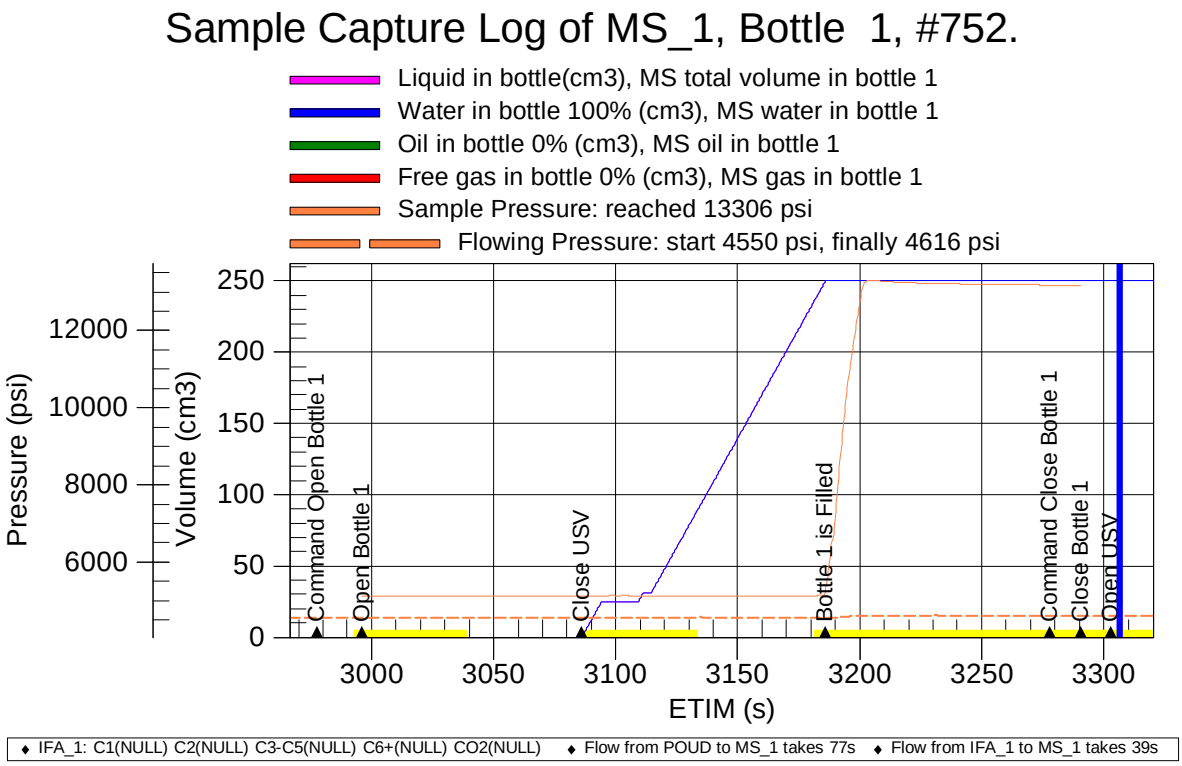


Figure 5 Sample Capture Plot

Identification			
Date	13-SEP-2012	Predicted Fluids Type	WATER
Time	12:56:45	Transfer Date	
File ID	OFA_MDT_122LTP	Transfer Time	
Run Number	4	Bottle Type	SPMC 250 cc
MD	3186.49 m	Bottle Serial No	752.
TVD	3186.49 m	Formation Name	
Sample Volume	250 cc	RDC Name	
Conditions			
Pump Out Time	2586.9 s	Sample Begin	2995.8 s
Pump Out Volume	11048.58 cm3	Sample End	3290.7 s
Bottle Open Pressure	5119.362 psi	Bottle Close Pressure	13169.872 psi
Properties			
Resistivity	0.06 ohm.m	Temperature	48.58 degC
Density	1.07 g/cm3 (IFA_1)	OCM Contamination	
Viscosity	108.3 cP (IFA_1)	GOR	
Hydrocarbon Composition			
C1		C6+	
C2		CO2	
C3-C5		C2-C5	
Volume Fraction			
Water Fraction	1	Hydrocarbon Fraction	0
High Absorbing Fraction	0		
Formation Condition			
Formation Pressure	4638.262 psi	Max. Drawdown Pressure	140.569 psi
Formation Temperature	49.94 degC	DD Pressure before Sample	88.516 psi

5.1.2.4 IFA_1 DV-Rod Cross Plot (0 s - 3423.9 s)

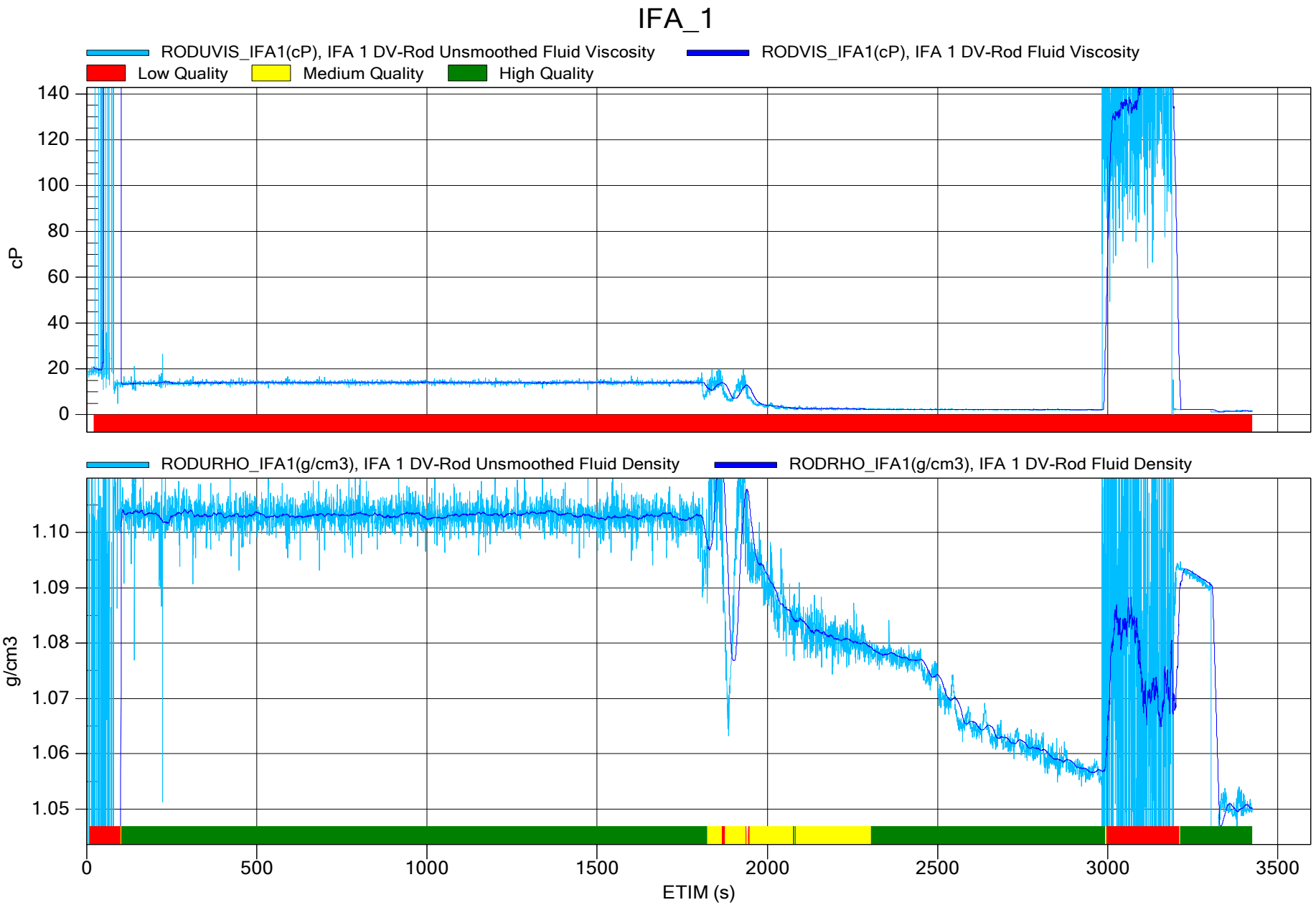
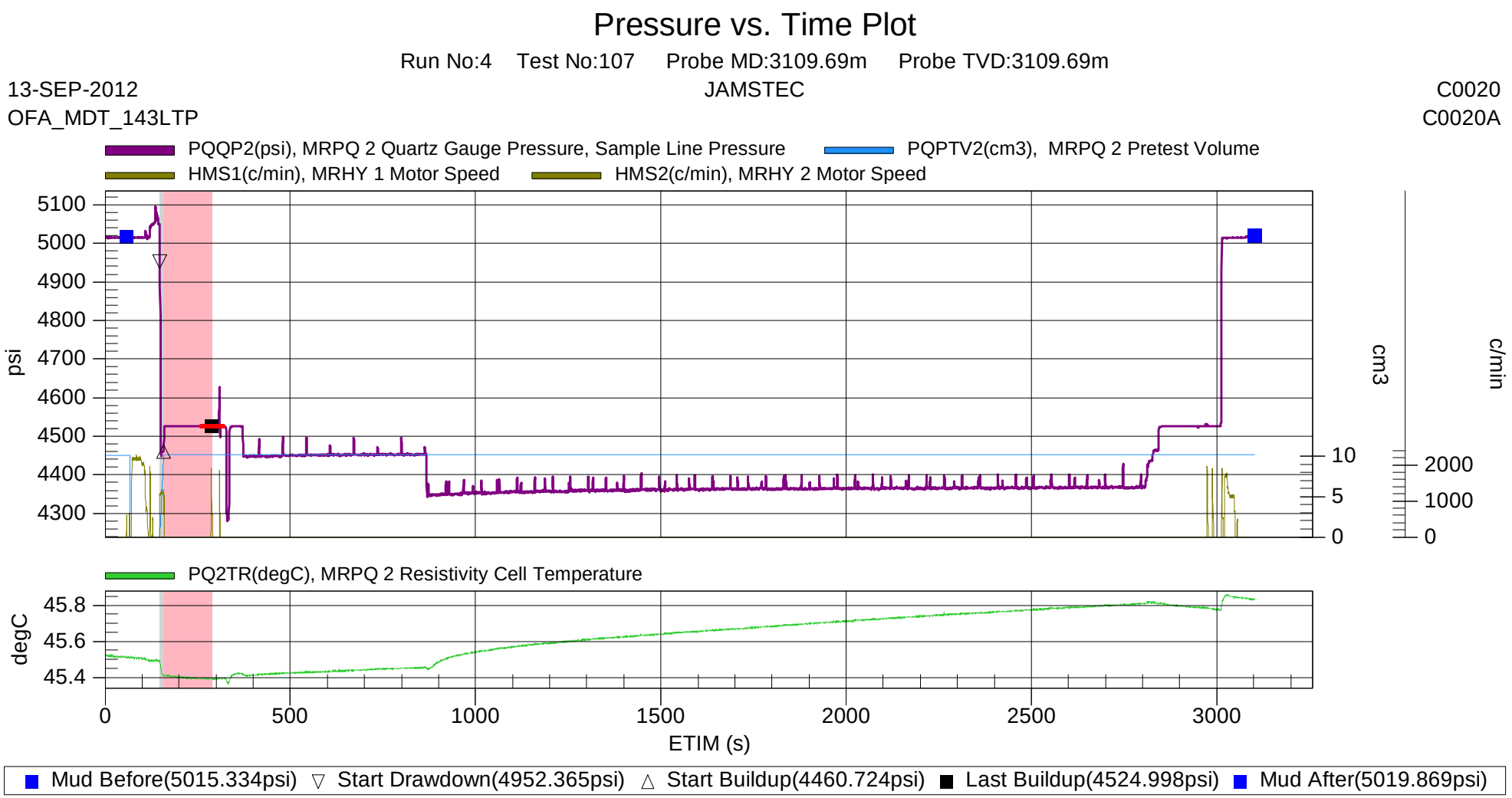


Figure 6 IFA_1 DV-Rod Cross Plot (0 s - 3423.9 s)

5.2 OFA_MDT_143LTP

5.2.1 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:**	**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:**	

5.2.2 Fluids Analysis

File Number	OFA_MDT_143LTP	Formation Pressure	4524.998 psi
MD	3109.69 m	Hydrostatic Pressure	5015.334 psi
TVD	3109.69 m	Formation Temperature	46.38 degC
Type	Sampling	Number of Samples	1

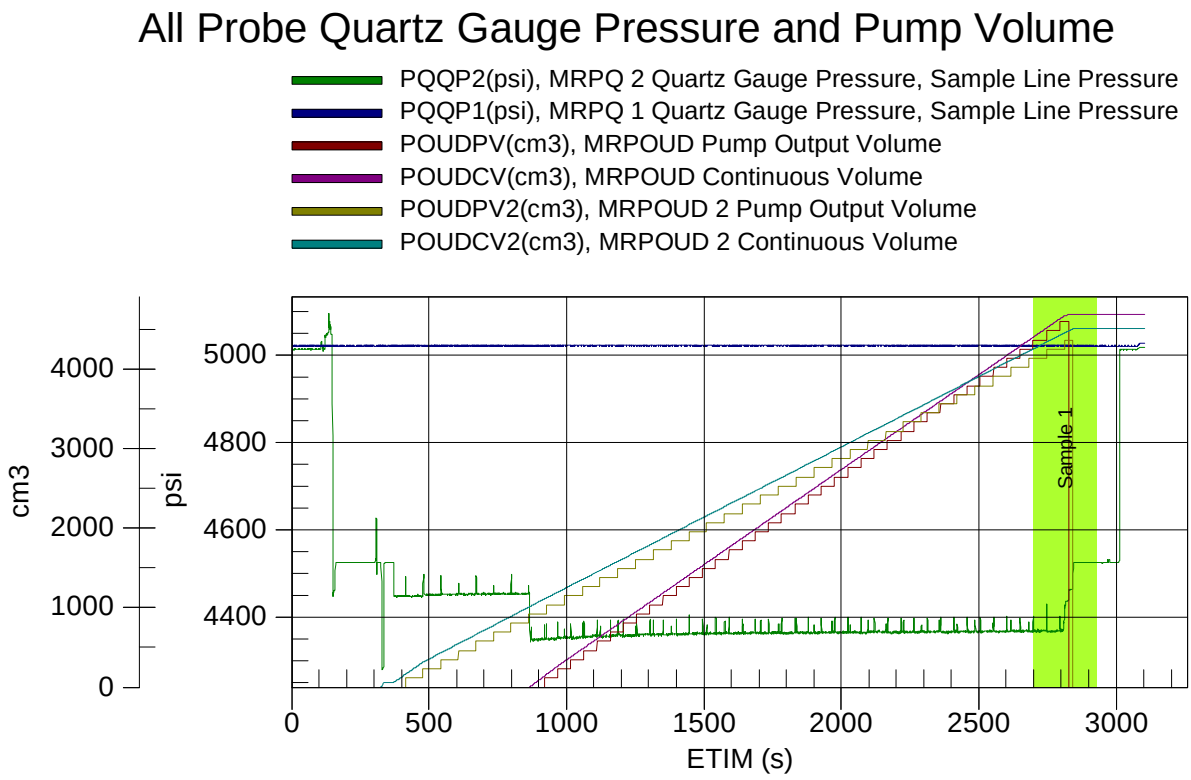


Figure 7 Summary Plot

Table 6 Event Table

ETIM (s)	Module	Description
0	CFA	Turn to Measure Mode
52.8	PQ_2	Open Bypass Valves
52.8	PQ_2	Open Isolation Valves
59.1	PQ_2	Recycle Pretest Pistons
67.5	PQ_2	Set Sequence
115.5	PQ_2	Probe Set
115.5	PQ_2	Close Isolation Valves
115.5	PQ_2	Automatic Reset Enabled
123.6	PQ_2	Open Bypass Valves
143.1	PQ_2	Pretest Start
160.8	PQ_2	Pretest End
280.5	PQ_1	Close Isolation Valves
303.6	PQ_2	Open Isolation Valves
325.2	POUD_2	Start Pump Down
336.6	POUD_2	Stop Pump Down 0 cm3
369.9	POUD_2	Start Pump Down
865.2	POUD	Start Pump Up
2681.1	MS_1	Command Open Bottle 2
2700.6	MS_1	Open Bottle 2
2706	MS_1	Close USV
2807.4	MS_1	Bottle 2 is Filled
2826.6	POUD	Stop Pump Up 4600 cm3
2842.8	POUD_2	Stop Pump Down 4370 cm3
2916.6	MS_1	Command Close Bottle 2
2928.9	MS_1	Close Bottle 2
2948.7	MS_1	Open USV
2968.5	PQ_2	Close Isolation Valves

ETIM (s)	Module	Description
2982.9	PQ_1	Open Isolation Valves
3009.3	PQ_2	Open Bypass Valves
3009.3	PQ_2	Open Isolation Valves
3016.5	PQ_2	Retracting

5.2.1.1 IFA_1 Log Analysis

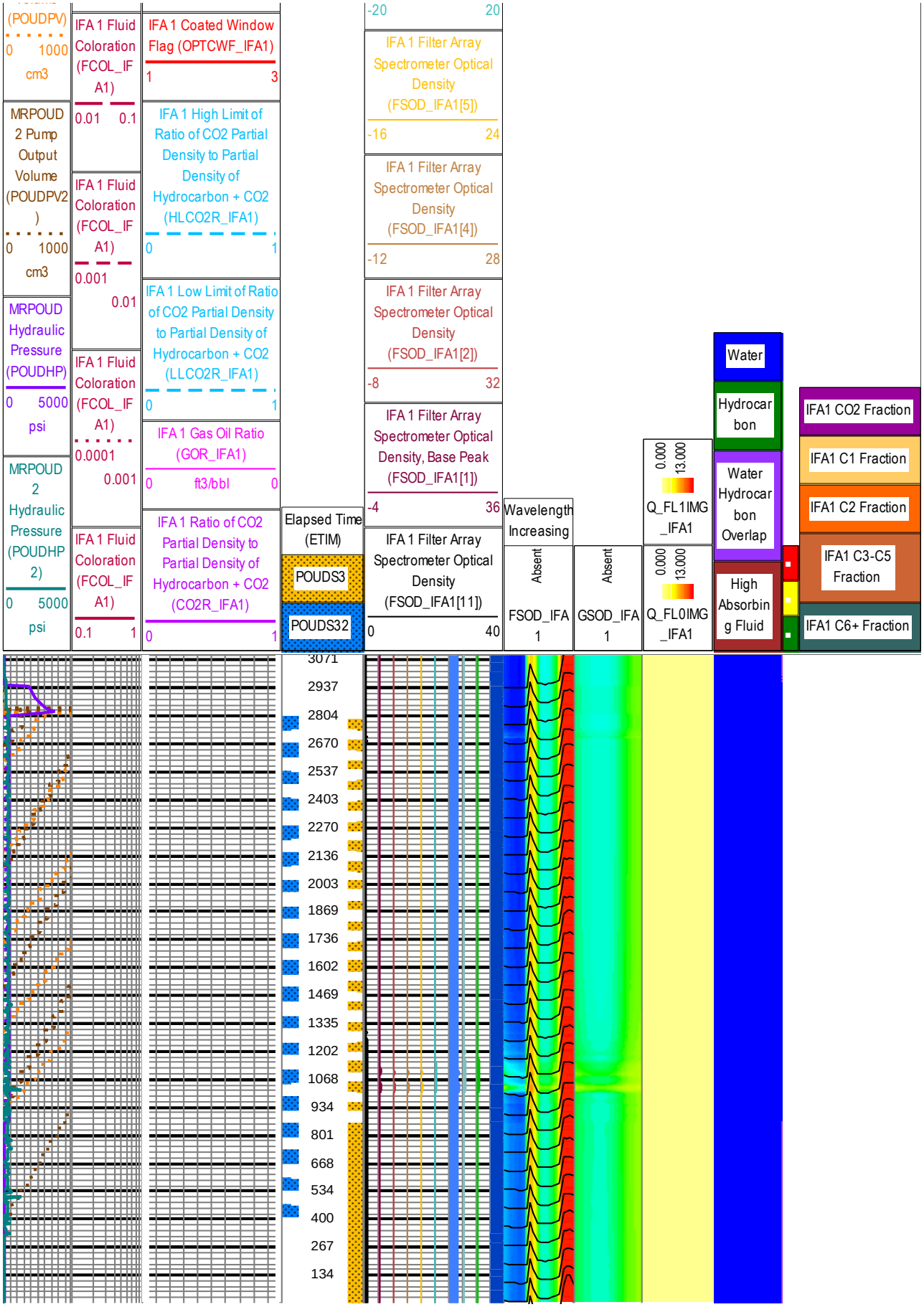


Figure 8 IFA_1 Log Plot

5.2.2.2 CFA Log Analysis

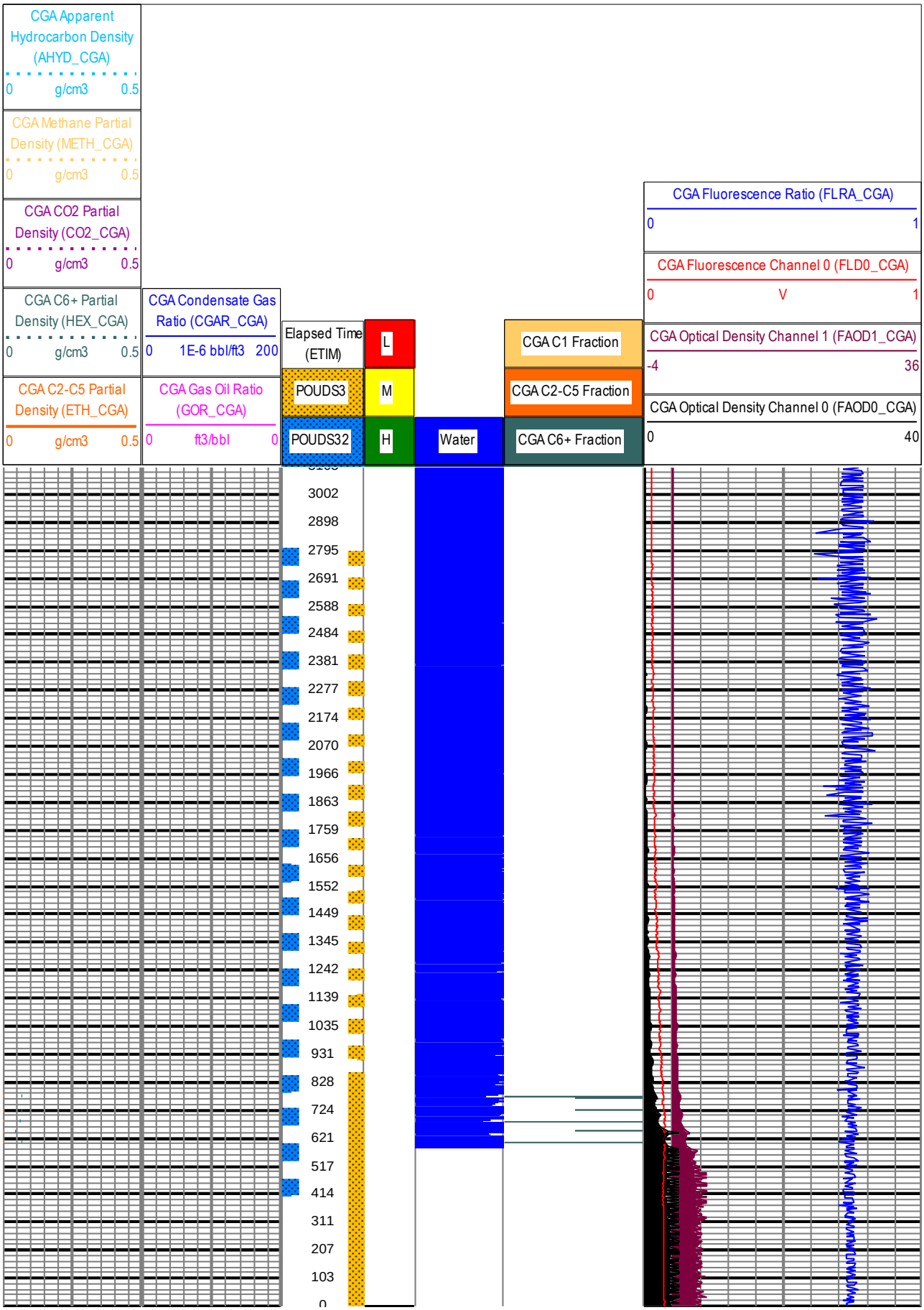


Figure 9 CFA Log Plot

5.2.2.3 Sample 1 Analysis (2700.6 s - 2928.9 s)

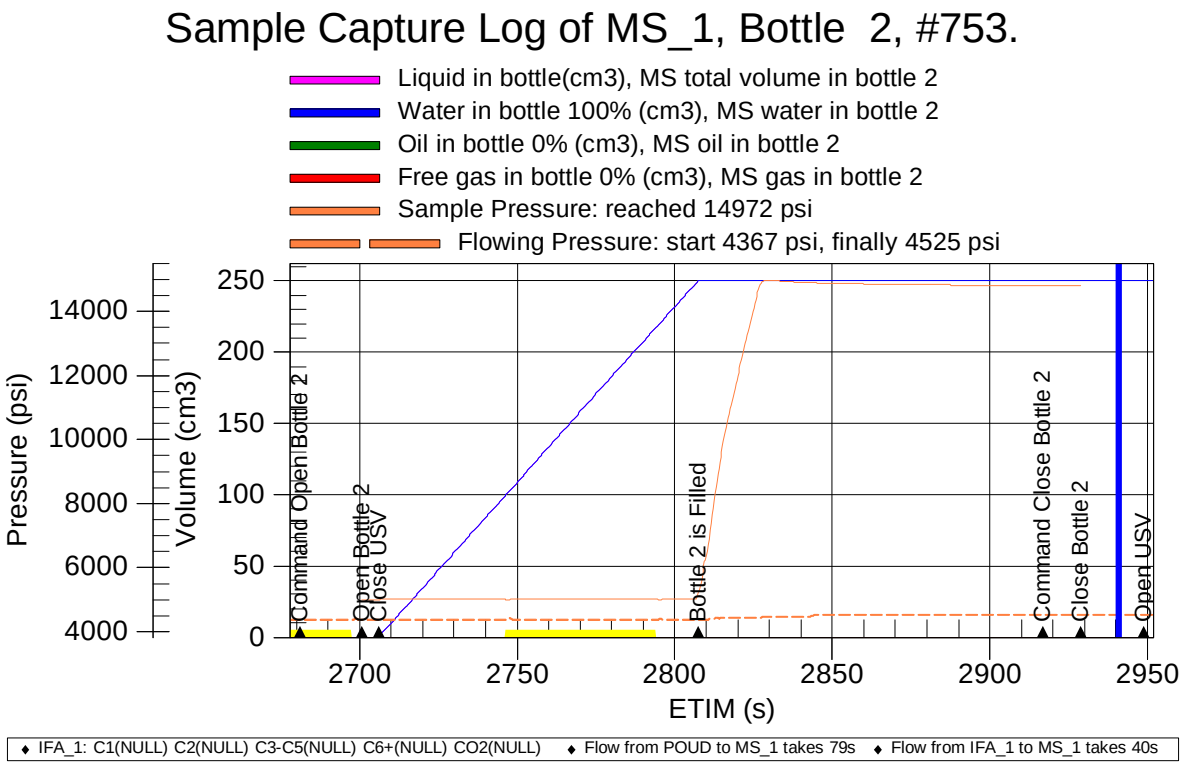


Figure 10 Sample Capture Plot

Identification			
Date	13-SEP-2012	Predicted Fluids Type	WATER
Time	20:28:39	Transfer Date	
File ID	OFA_MDT_143LTP	Transfer Time	
Run Number	4	Bottle Type	SPMC 250 cc
MD	3109.69 m	Bottle Serial No	753.
TVD	3109.69 m	Formation Name	
Sample Volume	250 cc	RDC Name	
Conditions			
Pump Out Time	2374.2 s	Sample Begin	2700.6 s
Pump Out Volume	8670 cm3	Sample End	2928.9 s
Bottle Open Pressure	4993.743 psi	Bottle Close Pressure	14792.497 psi
Properties			
Resistivity	0.04 ohm.m	Temperature	46.34 degC
Density	1.07 g/cm3 (IFA_1)	OCM Contamination	
Viscosity	1.7 cP (IFA_1)	GOR	
Hydrocarbon Composition			
C1		C6+	
C2		CO2	
C3-C5		C2-C5	
Volume Fraction			
Water Fraction	1	Hydrocarbon Fraction	0
High Absorbing Fraction	0		
Formation Condition			
Formation Pressure	4524.998 psi	Max. Drawdown Pressure	245.227 psi
Formation Temperature	46.38 degC	DD Pressure before Sample	158.269 psi

5.2.2.4 IFA_1 DV-Rod Cross Plot (0 s - 3102.6 s)

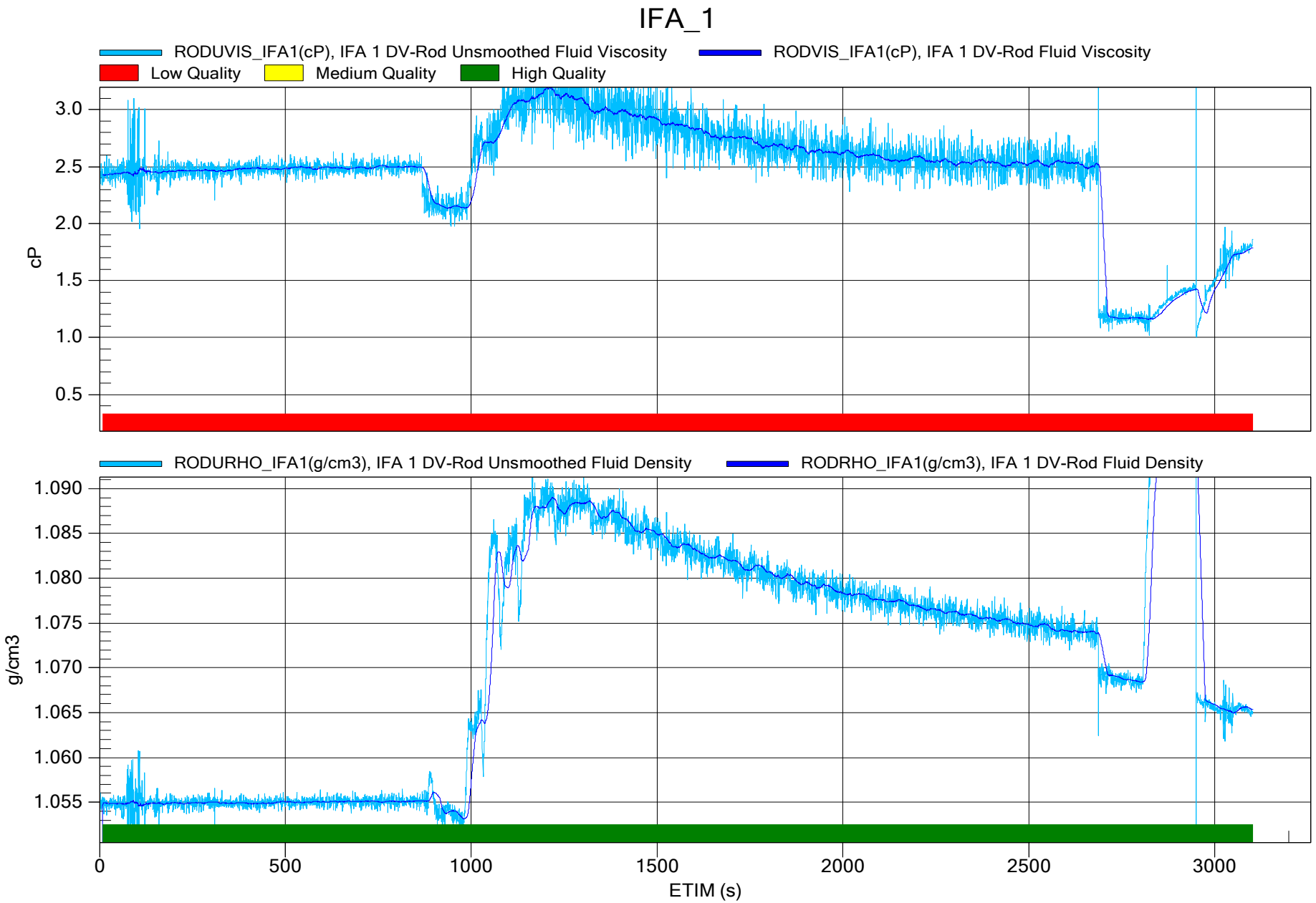
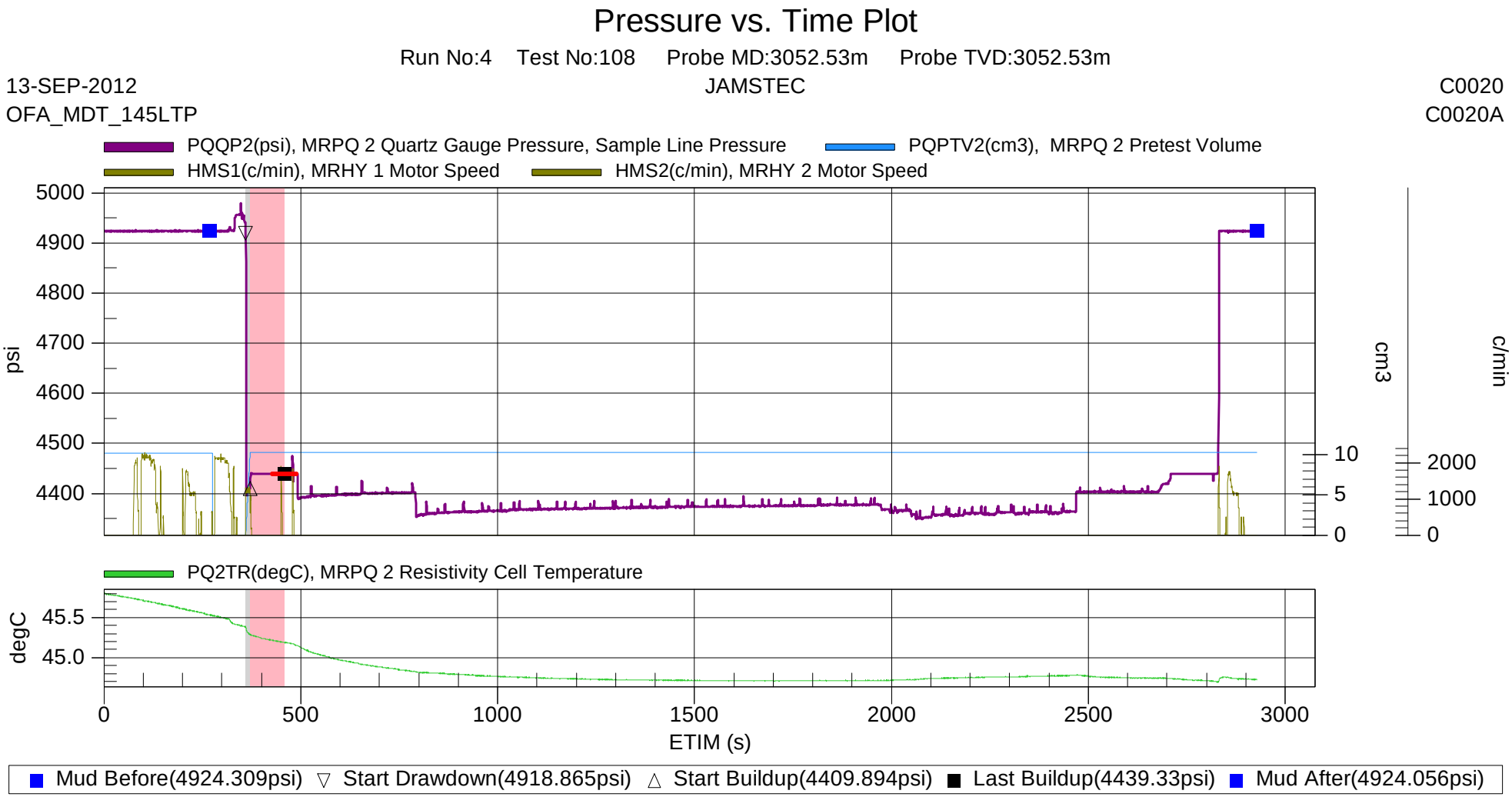


Figure 11 IFA_1 DV-Rod Cross Plot (0 s - 3102.6 s)

5.3 OFA_MDT_145LTP

5.3.1 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:**	

5.3.2 *Fluids Analysis*

File Number	OFA_MDT_145LTP	Formation Pressure	4439.33 psi
MD	3052.53 m	Hydrostatic Pressure	4924.309 psi
TVD	3052.53 m	Formation Temperature	45.96 degC
Type	Sampling	Number of Samples	1

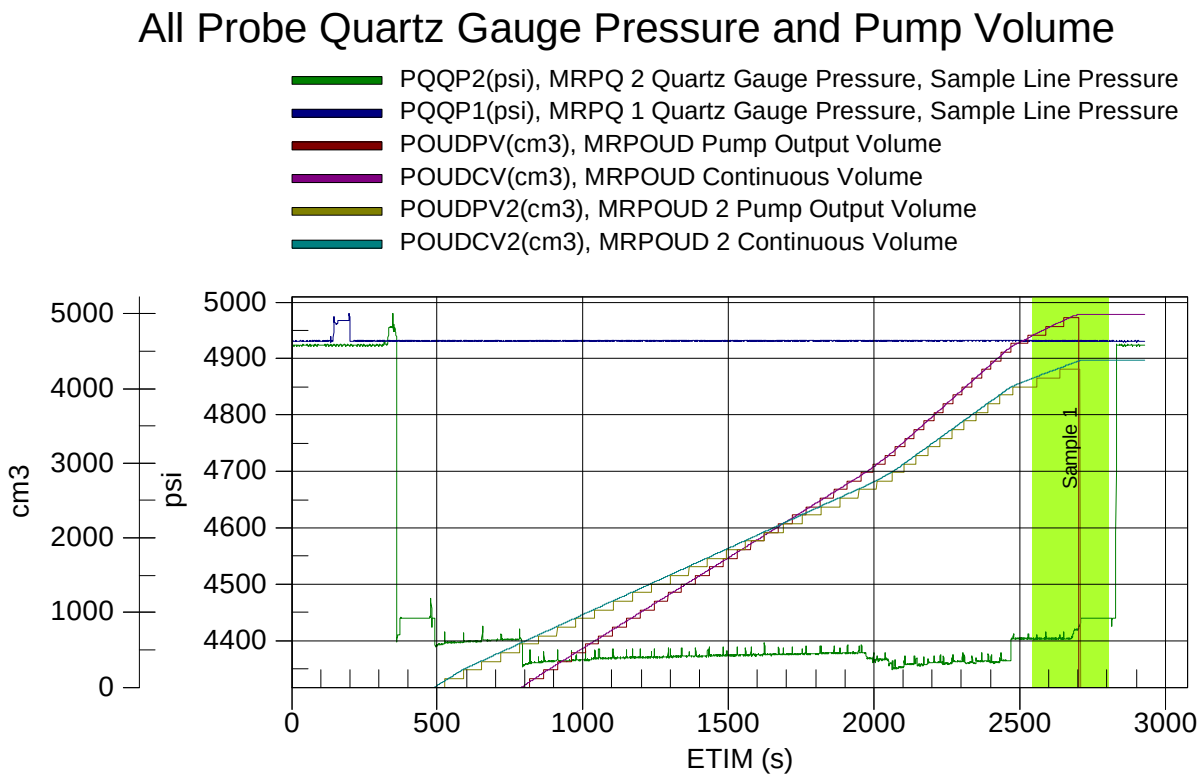


Figure 12 Summary Plot

Table 7 Event Table

ETIM (s)	Module	Description
0	CFA	Turn to Measure Mode
71.4	PQ_1	Recycle Pretest Pistons
89.4	PQ_1	Set Sequence
138	PQ_1	Close Isolation Valves
138	PQ_1	Automatic Reset Enabled
138	PQ_1	Probe Set
145.8	PQ_1	Open Bypass Valves
195.3	PQ_1	Open Bypass Valves
195.3	PQ_1	Open Isolation Valves
202.5	PQ_1	Retracting
241.2	PQ_2	Open Isolation Valves
241.2	PQ_2	Open Bypass Valves
269.1	PQ_2	Recycle Pretest Pistons
276.9	PQ_2	Set Sequence
324	PQ_2	Automatic Reset Enabled
324	PQ_2	Close Isolation Valves
324	PQ_2	Probe Set
332.1	PQ_2	Open Bypass Valves
355.8	PQ_2	Pretest Start
374.4	PQ_2	Pretest End
444.6	PQ_1	Close Isolation Valves
474	PQ_2	Open Isolation Valves
490.8	POUD_2	Start Pump Down
790.2	POUD	Start Pump Up
2527.8	MS_1	Command Open Bottle 3
2542.2	MS_1	Open Bottle 3
2550	MS_1	Close USV

ETIM (s)	Module	Description
2677.5	MS_1	Bottle 3 is Filled
2702.4	POUD	Stop Pump Up 4945 cm3
2707.5	POUD_2	Stop Pump Down 4255 cm3
2789.7	MS_1	Command Close Bottle 3
2805.9	MS_1	Close Bottle 3
2816.4	MS_1	Open USV
2826	PQ_1	Open Isolation Valves
2843.7	PQ_2	Open Isolation Valves
2843.7	PQ_2	Open Bypass Valves
2849.4	PQ_2	Retracting
2889	PQ_1	Open Isolation Valves
2889	PQ_1	Open Bypass Valves

5.3.2.1 IFA_1 Log Analysis

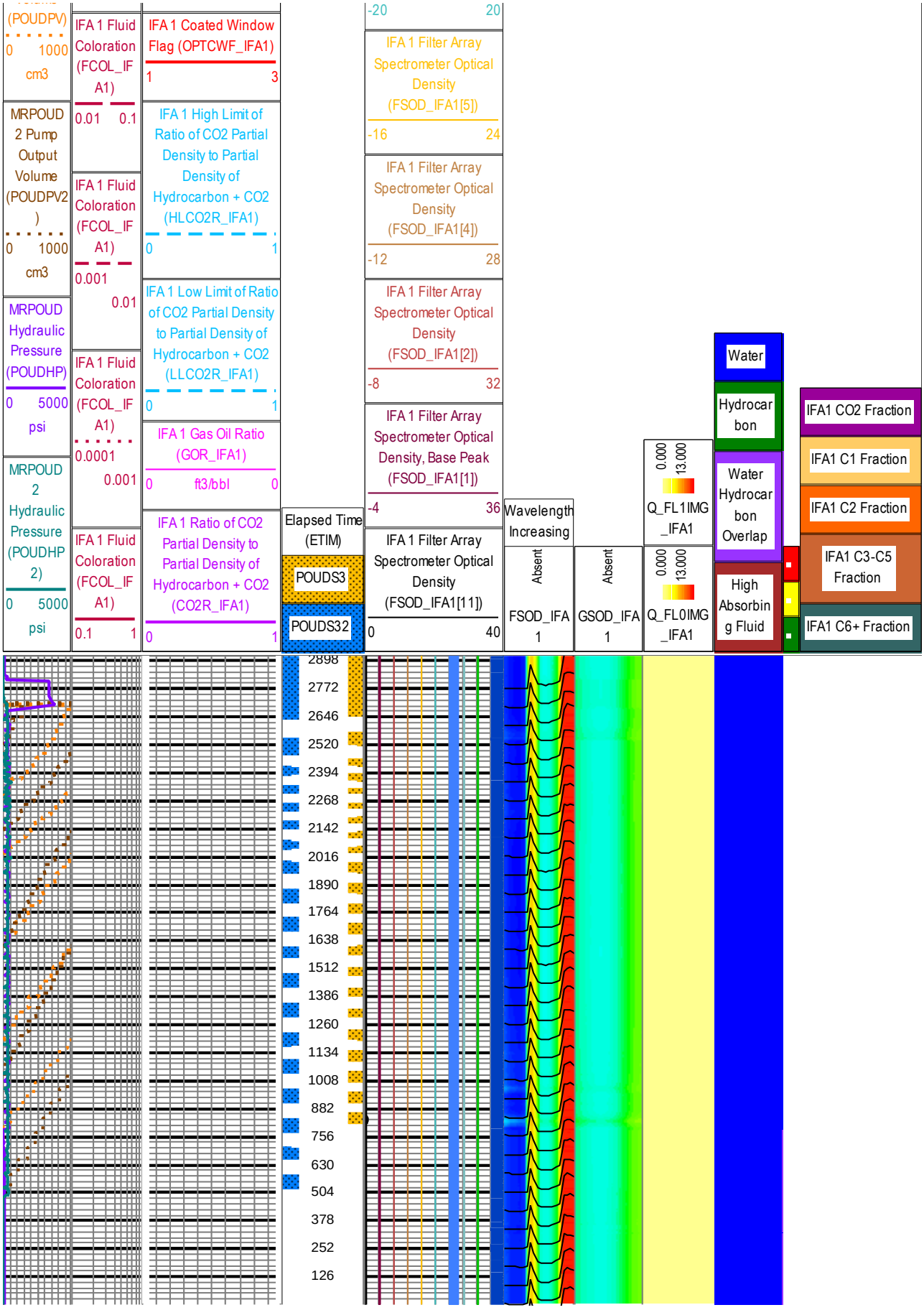


Figure 13 IFA_1 Log Plot

5.3.2.2 CFA Log Analysis

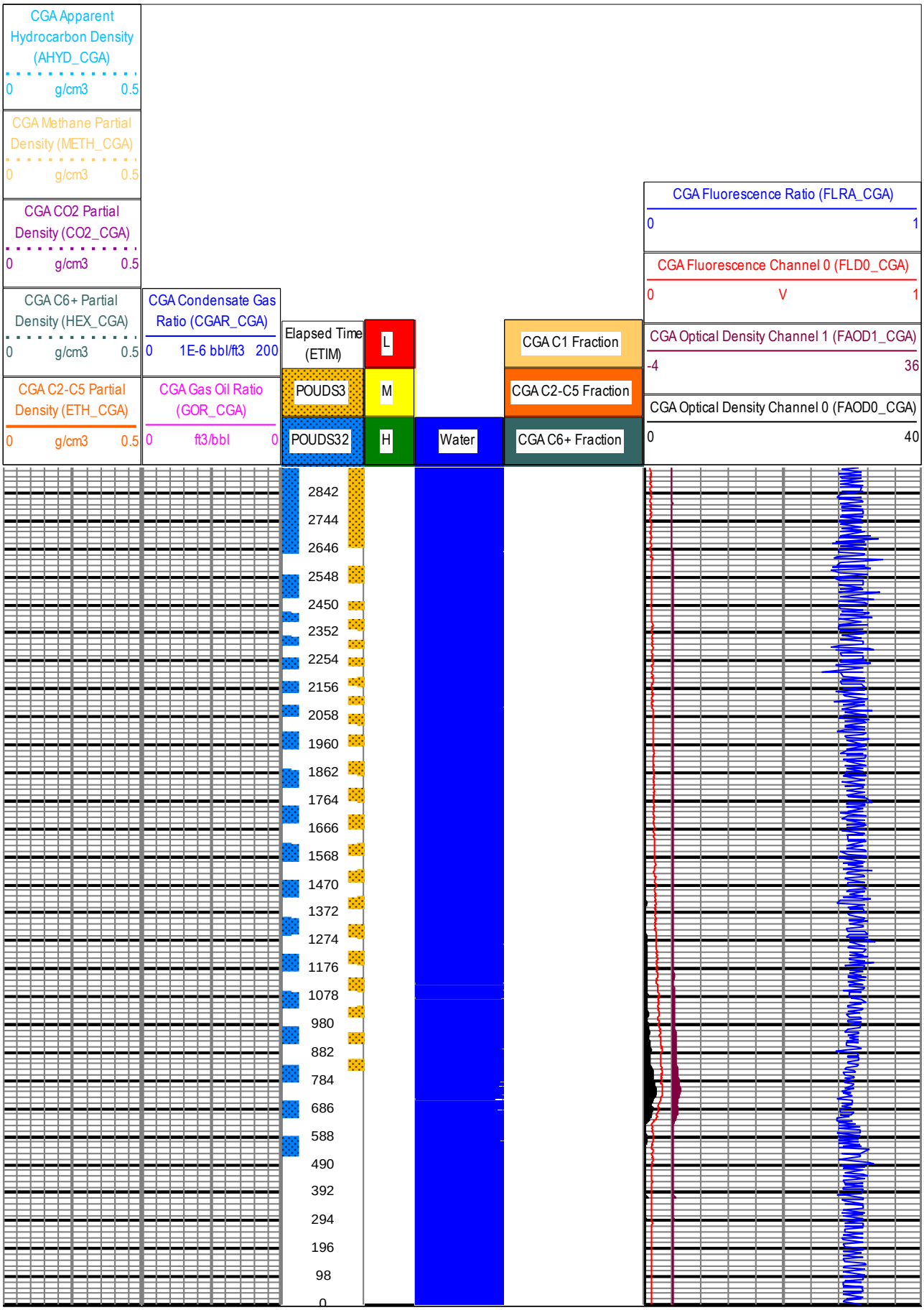


Figure 14 CFA Log Plot

5.3.2.3 Sample 1 Analysis (2542.2 s - 2805.9 s)

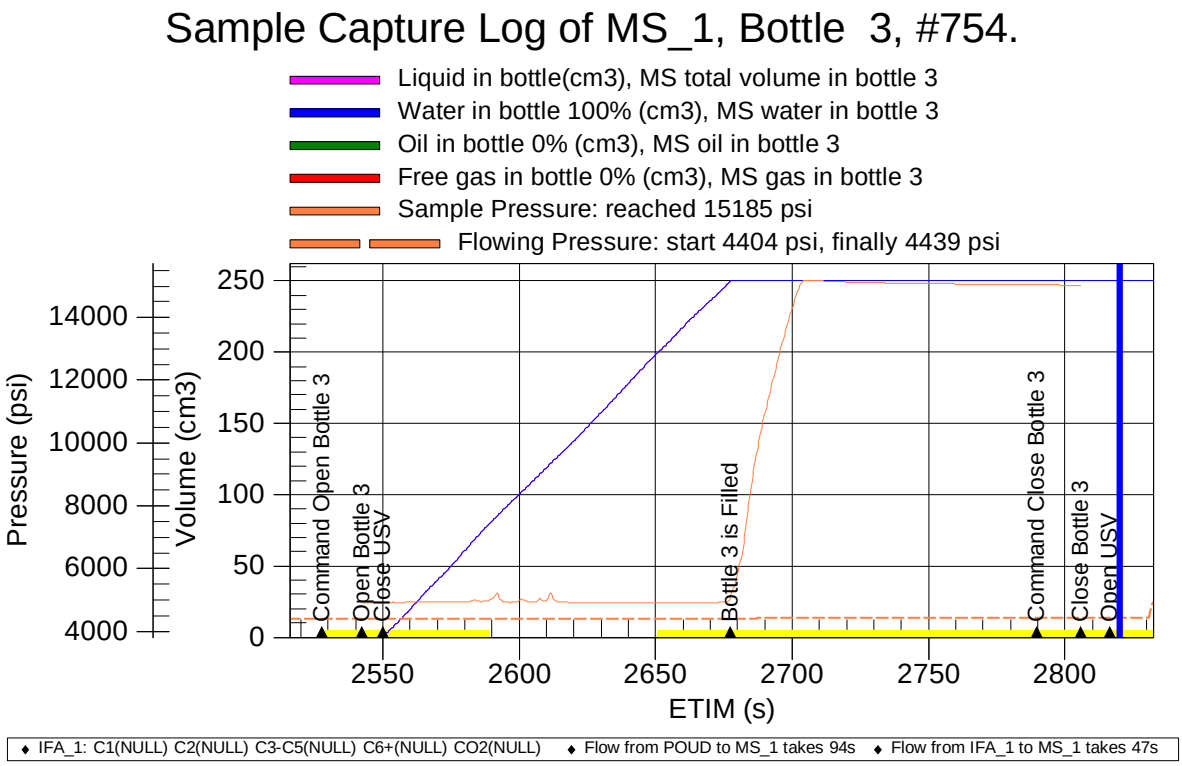


Figure 15 Sample Capture Plot

Identification			
Date	13-SEP-2012	Predicted Fluids Type	WATER
Time	21:39:9	Transfer Date	
File ID	OFA_MDT_145LTP	Transfer Time	
Run Number	4	Bottle Type	SPMC 250 cc
MD	3052.53 m	Bottle Serial No	754.
TVD	3052.53 m	Formation Name	
Sample Volume	250 cc	RDC Name	
Conditions			
Pump Out Time	2050.8 s	Sample Begin	2542.2 s
Pump Out Volume	8837.48 cm3	Sample End	2805.9 s
Bottle Open Pressure	4901.686 psi	Bottle Close Pressure	15027.505 psi
Properties			
Resistivity	0.04 ohm.m	Temperature	45.52 degC
Density	1.06 g/cm3 (IFA_1)	OCM Contamination	
Viscosity	1 cP (IFA_1)	GOR	
Hydrocarbon Composition			
C1		C6+	
C2		CO2	
C3-C5		C2-C5	
Volume Fraction			
Water Fraction	1	Hydrocarbon Fraction	0
High Absorbing Fraction	0		
Formation Condition			
Formation Pressure	4439.33 psi	Max. Drawdown Pressure	90.398 psi
Formation Temperature	45.96 degC	DD Pressure before Sample	35.443 psi

5.3.2.4 IFA_1 DV-Rod Cross Plot (0 s - 2928.3 s)

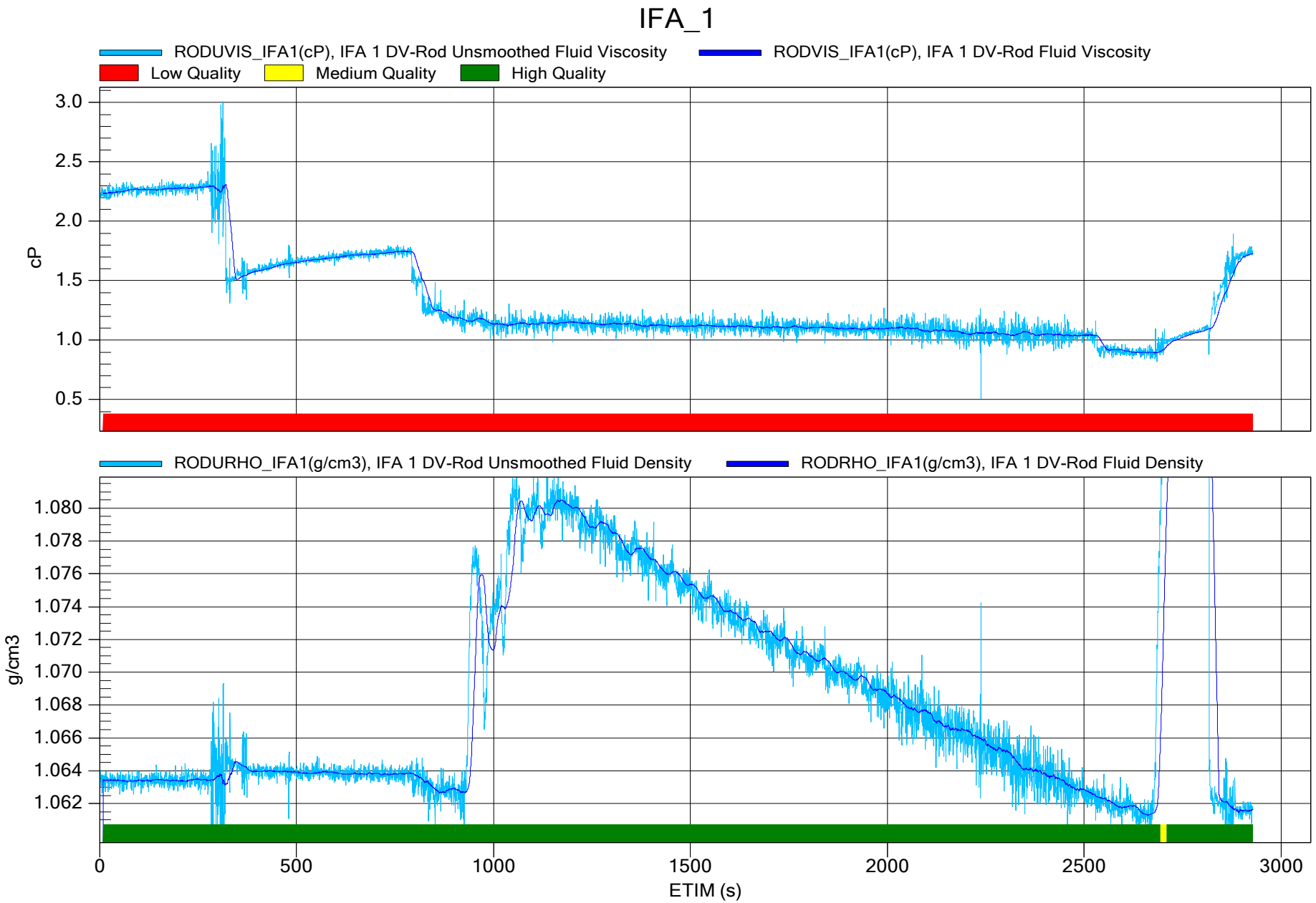
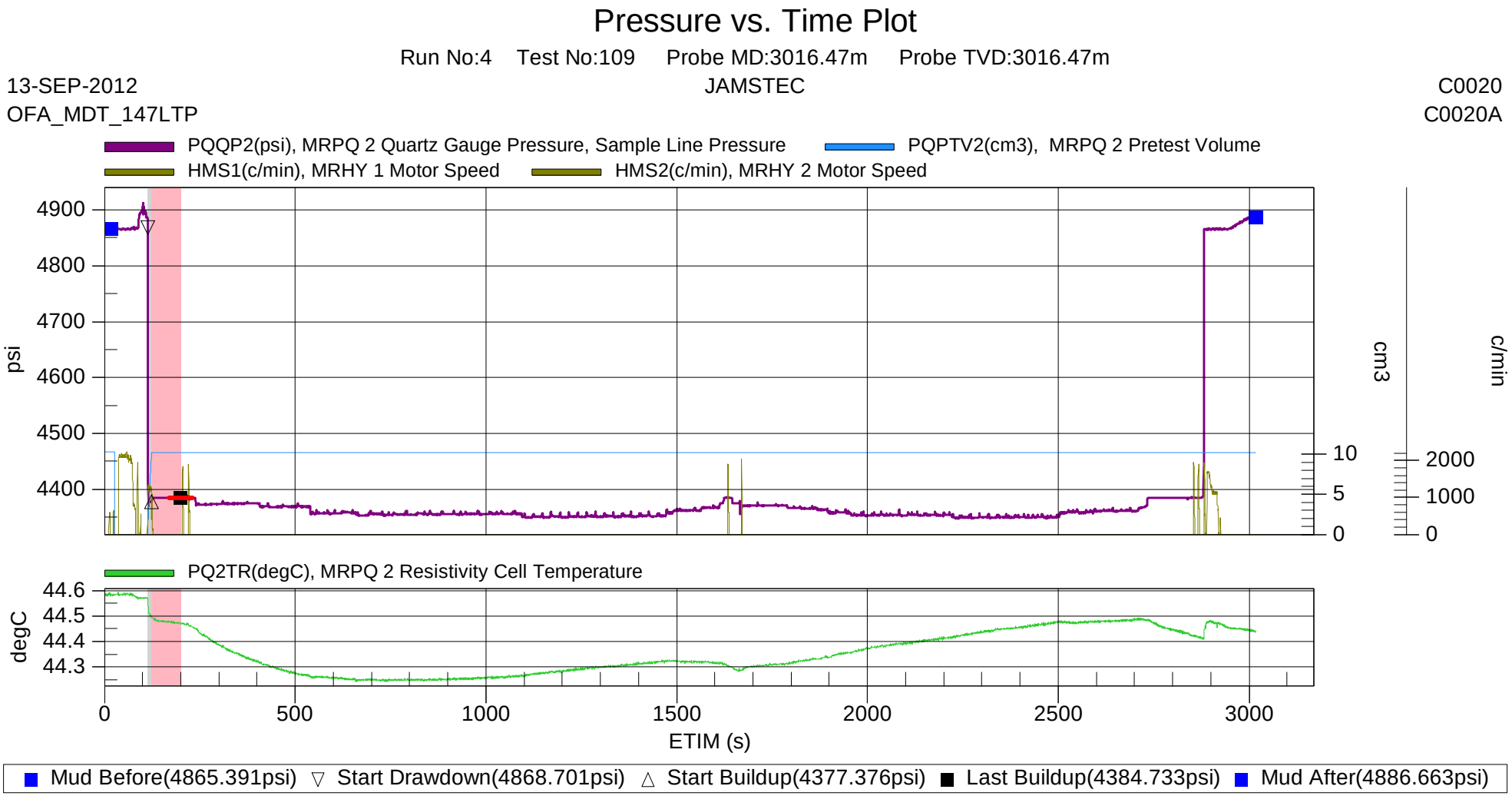


Figure 16 IFA_1 DV-Rod Cross Plot (0 s - 2928.3 s)

5.4 OFA_MDT_147LTP

5.4.1 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:**	

5.4.2 Fluids Analysis

File Number	OFA_MDT_147LTP	Formation Pressure	4384.733 psi
MD	3016.47 m	Hydrostatic Pressure	4865.391 psi
TVD	3016.47 m	Formation Temperature	45.12 degC
Type	Sampling	Number of Samples	1

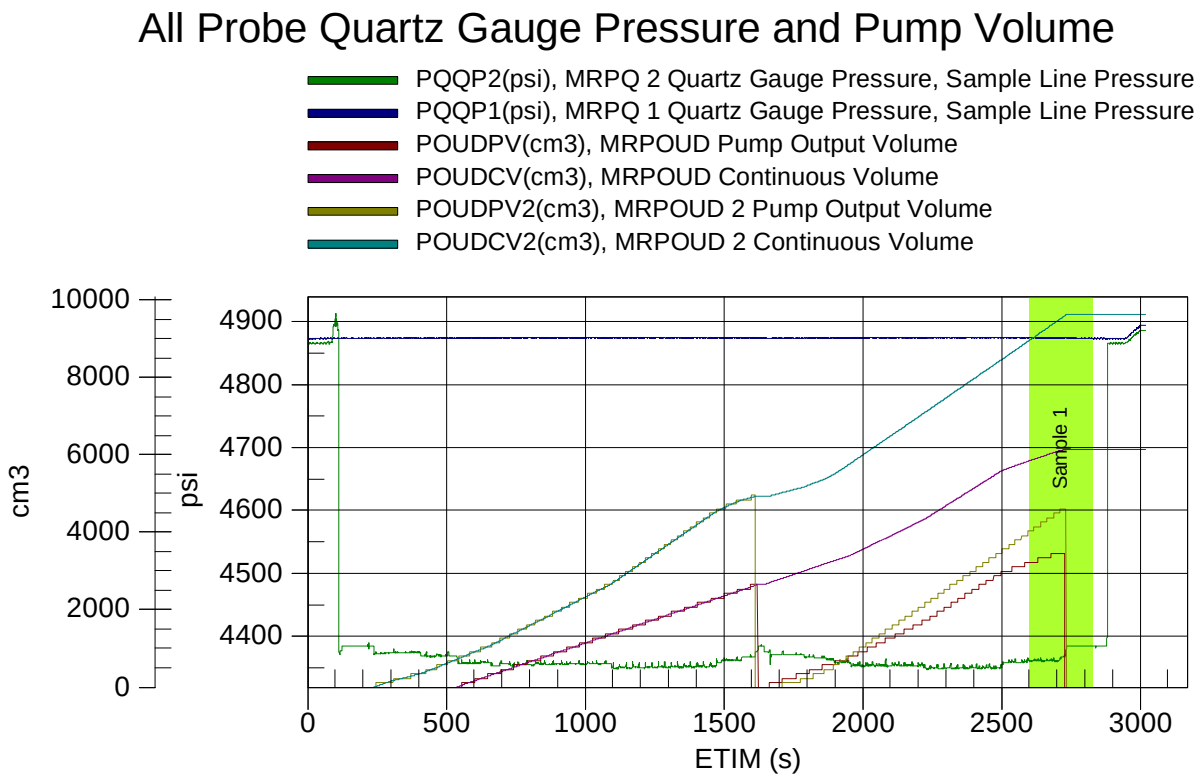


Figure 17 Summary Plot

Table 8 Event Table

ETIM (s)	Module	Description
0	CFA	Turn to Measure Mode
5.1	PQ_2	Open Bypass Valves
5.1	PQ_2	Open Isolation Valves
14.4	PQ_2	Recycle Pretest Pistons
26.7	PQ_2	Set Sequence
81.6	PQ_2	Probe Set
81.6	PQ_2	Close Isolation Valves
81.6	PQ_2	Automatic Reset Enabled
89.7	PQ_2	Open Bypass Valves
108	PQ_2	Pretest Start
126.9	PQ_2	Pretest End
199.8	PQ_1	Close Isolation Valves
215.4	PQ_2	Open Isolation Valves
237.3	POUD_2	Start Pump Down
537.6	POUD	Start Pump Up
1611.9	POUD_2	Stop Pump Down 4945 cm3
1622.1	POUD	Stop Pump Up 2645 cm3
1628.7	PQ_2	Close Bypass Valves
1643.4	POUD	Start Pump Up
1659.9	POUD_2	Start Pump Down
1664.7	PQ_2	Open Bypass Valves
2586	MS_1	Command Open Bottle 4
2603.1	MS_1	Open Bottle 4
2609.1	MS_1	Close USV
2708.1	MS_1	Bottle 4 is Filled
2727.3	MS_1	Bottle 4 is Over-Pressured
2728.5	POUD	Stop Pump Up 3450 cm3

ETIM (s)	Module	Description
2733.3	POUD_2	Stop Pump Down 4600 cm3
2812.2	MS_1	Command Close Bottle 4
2828.1	MS_1	Close Bottle 4
2838.6	MS_1	Open USV
2849.1	PQ_2	Close Isolation Valves
2862	PQ_1	Open Isolation Valves
2877.9	PQ_2	Open Bypass Valves
2877.9	PQ_2	Open Isolation Valves
2885.1	PQ_2	Retracting

5.4.2.1 IFA_1 Log Analysis

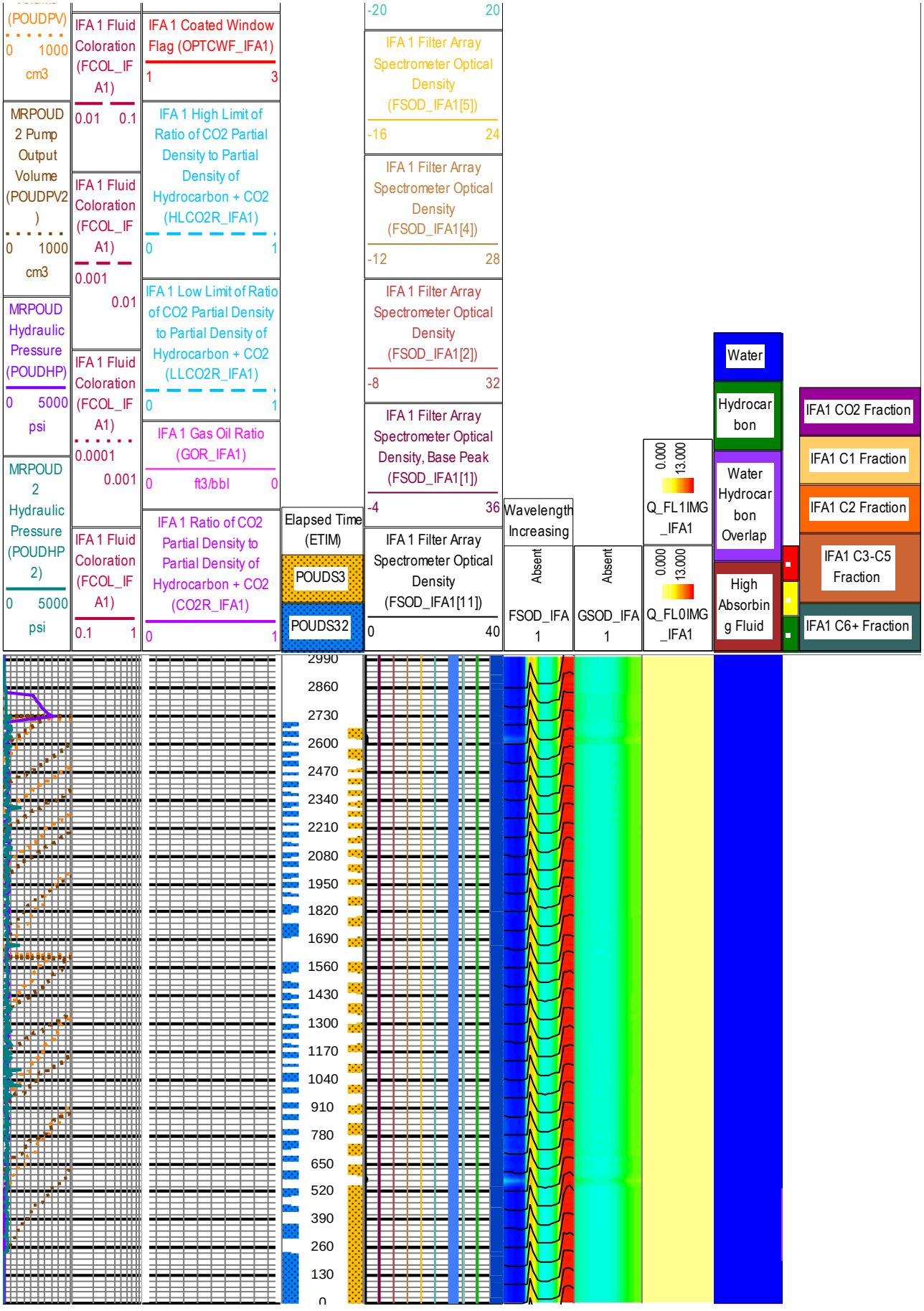


Figure 18 IFA_1 Log Plot

5.4.2.2 CFA Log Analysis

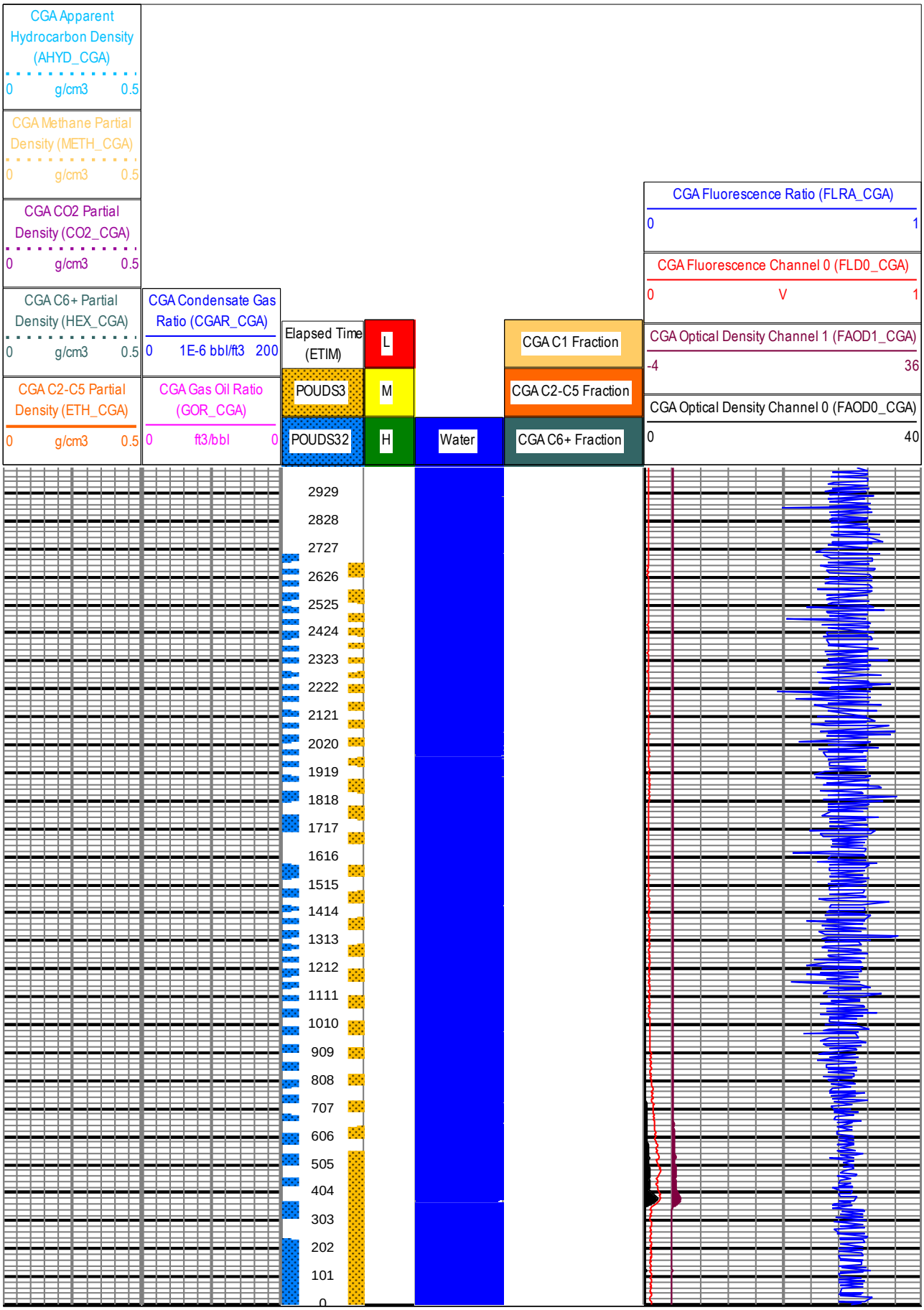


Figure 19 CFA Log Plot

5.4.2.3 Sample 1 Analysis (2603.1 s - 2828.1 s)

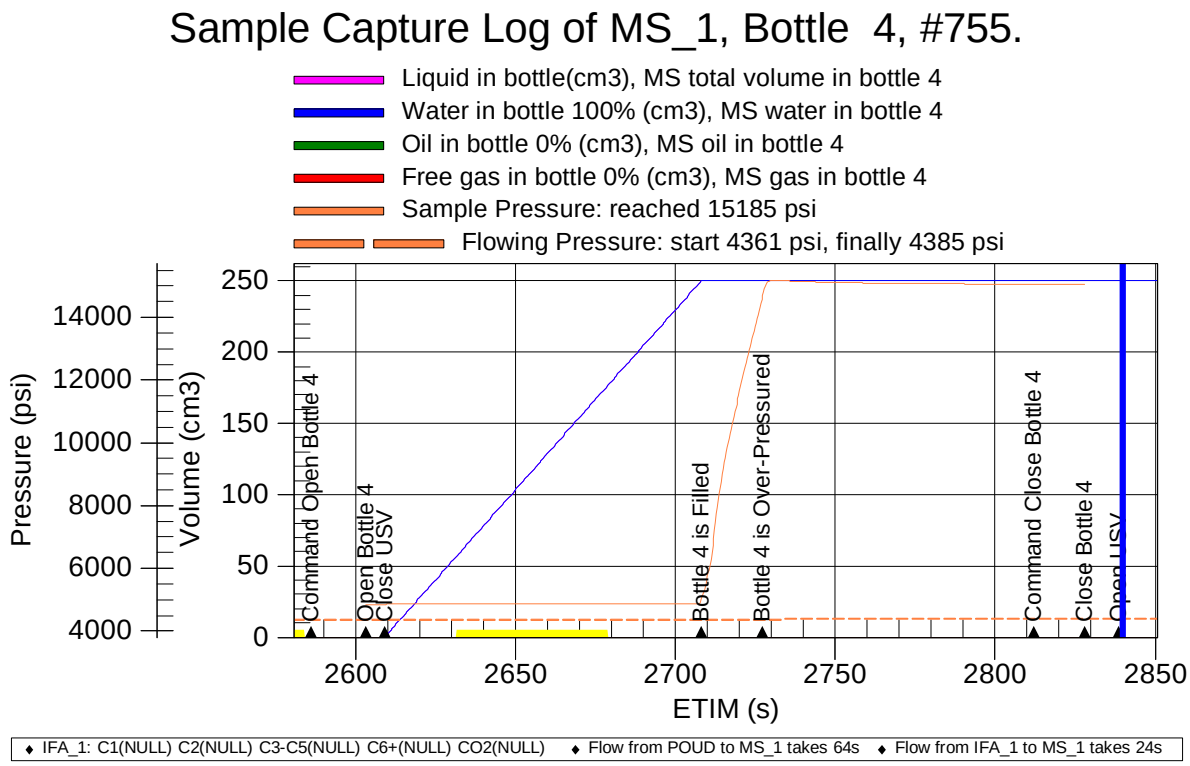


Figure 20 Sample Capture Plot

Identification			
Date	13-SEP-2012	Predicted Fluids Type	WATER
Time	22:38:46	Transfer Date	
File ID	OFA_MDT_147LTP	Transfer Time	
Run Number	4	Bottle Type	SPMC 250 cc
MD	3016.47 m	Bottle Serial No	755.
TVD	3016.47 m	Formation Name	
Sample Volume	250 cc	RDC Name	
Conditions			
Pump Out Time	2364.6 s	Sample Begin	2603.1 s
Pump Out Volume	14812.65 cm3	Sample End	2828.1 s
Bottle Open Pressure	4845.567 psi	Bottle Close Pressure	15038.832 psi
Properties			
Resistivity	0.07 ohm.m	Temperature	44.93 degC
Density	1.04 g/cm3 (IFA_1)	OCM Contamination	
Viscosity	0.9 cP (IFA_1)	GOR	
Hydrocarbon Composition			
C1		C6+	
C2		CO2	
C3-C5		C2-C5	
Volume Fraction			
Water Fraction	1	Hydrocarbon Fraction	0
High Absorbing Fraction	0		
Formation Condition			
Formation Pressure	4384.733 psi	Max. Drawdown Pressure	37.144 psi
Formation Temperature	45.12 degC	DD Pressure before Sample	24.175 psi

5.4.2.4 IFA_1 DV-Rod Cross Plot (0 s - 3018 s)

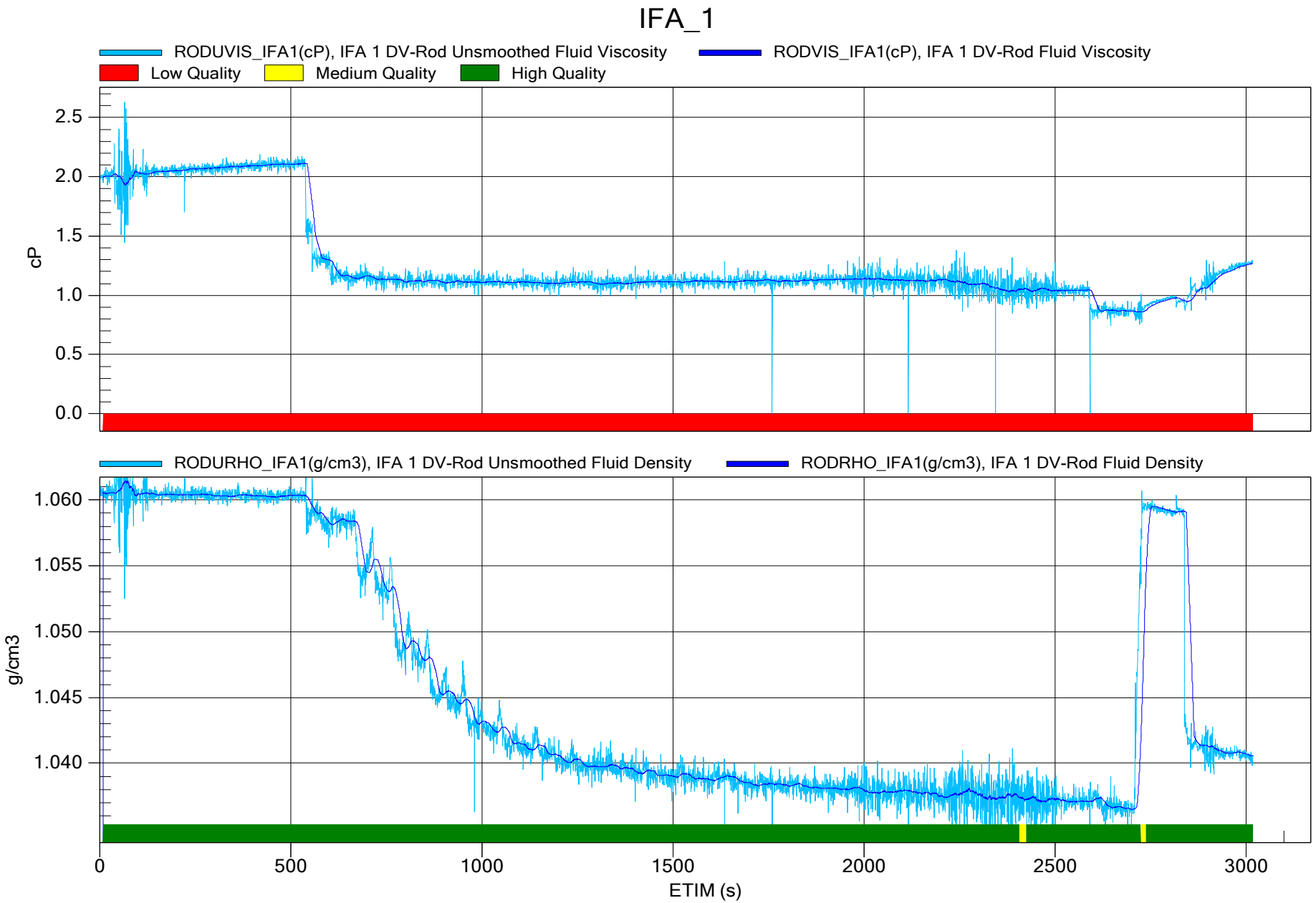


Figure 21 IFA_1 DV-Rod Cross Plot (0 s - 3018 s)

5.5 OFA_MDT_153LTP

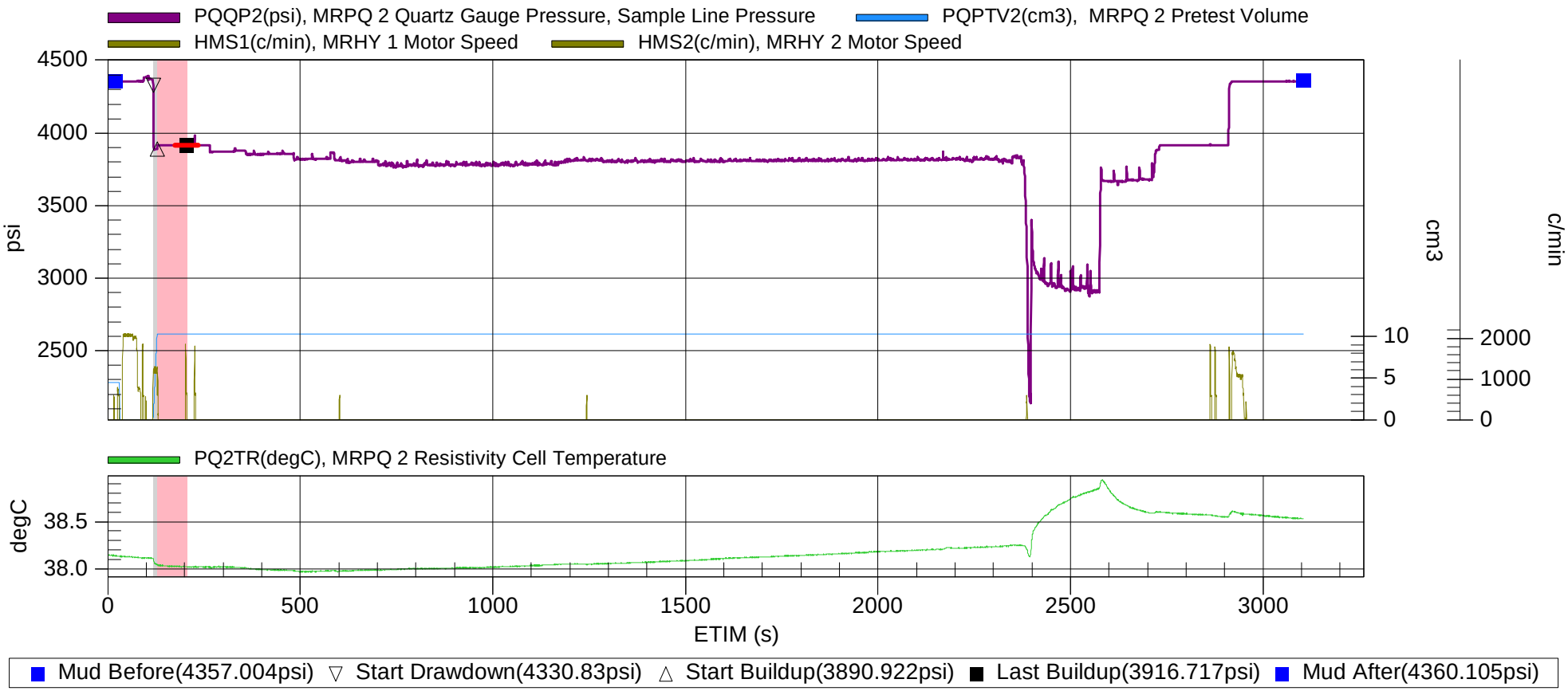
5.5.1 Pressure vs. Time Plot

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:**	

5.5.2 Fluids Analysis

File Number	OFA_MDT_153LTP	Formation Pressure	3916.717 psi
MD	2697.78 m	Hydrostatic Pressure	4357.004 psi
TVD	2697.78 m	Formation Temperature	39.72 degC
Type	Sampling	Number of Samples	1

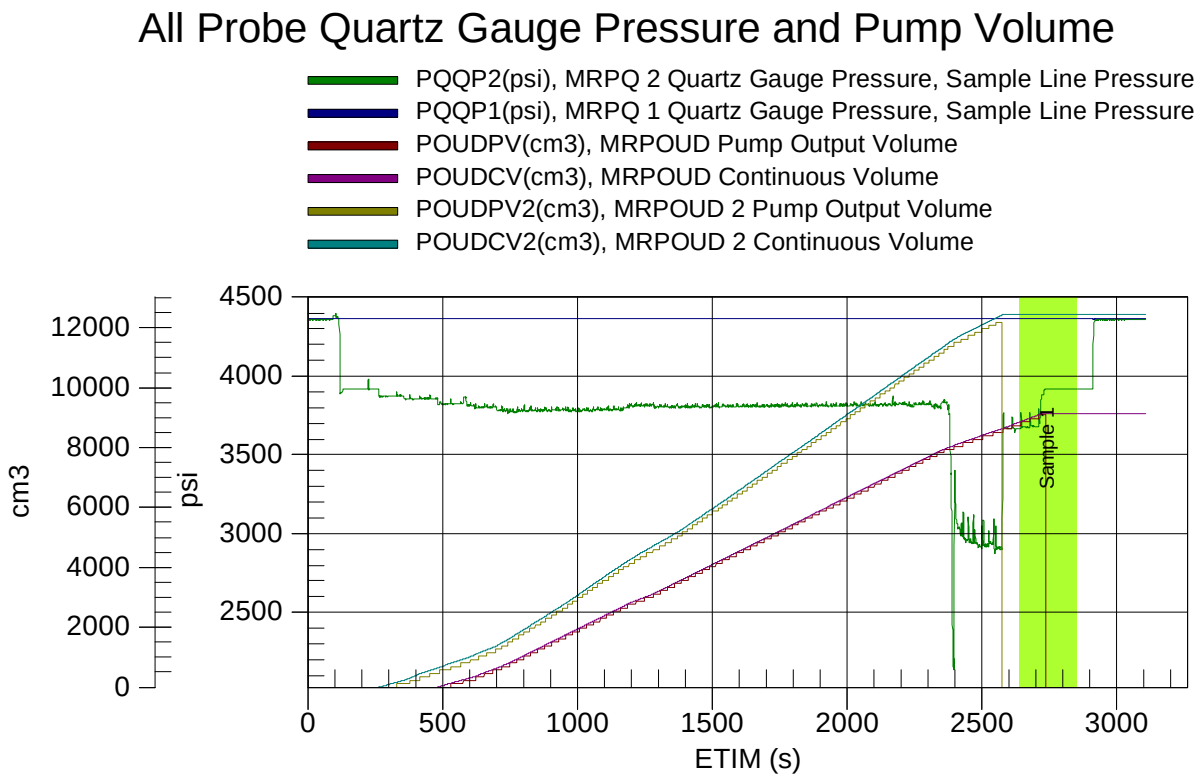


Figure 22 Summary Plot

Table 9 Event Table

ETIM (s)	Module	Description
0	CFA	Calibration
5.7	PQ_2	Open Bypass Valves
5.7	PQ_2	Open Isolation Valves
9	CFA	Turn to Measure Mode
16.5	PQ_2	Recycle Pretest Pistons
31.2	PQ_2	Set Sequence
85.2	PQ_2	Probe Set
85.2	PQ_2	Close Isolation Valves
85.2	PQ_2	Automatic Reset Enabled
93.3	PQ_2	Open Bypass Valves
113.1	PQ_2	Pretest Start
131.1	PQ_2	Pretest End
196.5	PQ_1	Close Isolation Valves
220.5	PQ_2	Open Isolation Valves
264	POUD_2	Start Pump Down
481.5	POUD	Start Pump Up
596.4	PQ_2	Automatic Reset
1238.1	PQ_2	Automatic Reset
2380.5	PQ_2	Automatic Reset
2574.9	POUD_2	Stop Pump Down 12190 cm3
2617.2	MS_1	Command Open Bottle 5
2637.9	MS_1	Open Bottle 5
2644.8	MS_1	Close USV
2714.4	MS_1	Bottle 5 is Filled
2728.8	MS_1	Bottle 5 is Over-Pressured
2736	POUD	Stop Pump Up 9085 cm3
2837.1	MS_1	Command Close Bottle 5

ETIM (s)	Module	Description
2850	MS_1	Close Bottle 5
2857.2	PQ_2	Close Isolation Valves
2869.8	PQ_1	Open Isolation Valves
2888.7	MS_1	Open USV
2907.3	PQ_2	Open Isolation Valves
2907.3	PQ_2	Open Bypass Valves
2914.2	PQ_2	Retracting

5.5.2.1 IFA_1 Log Analysis

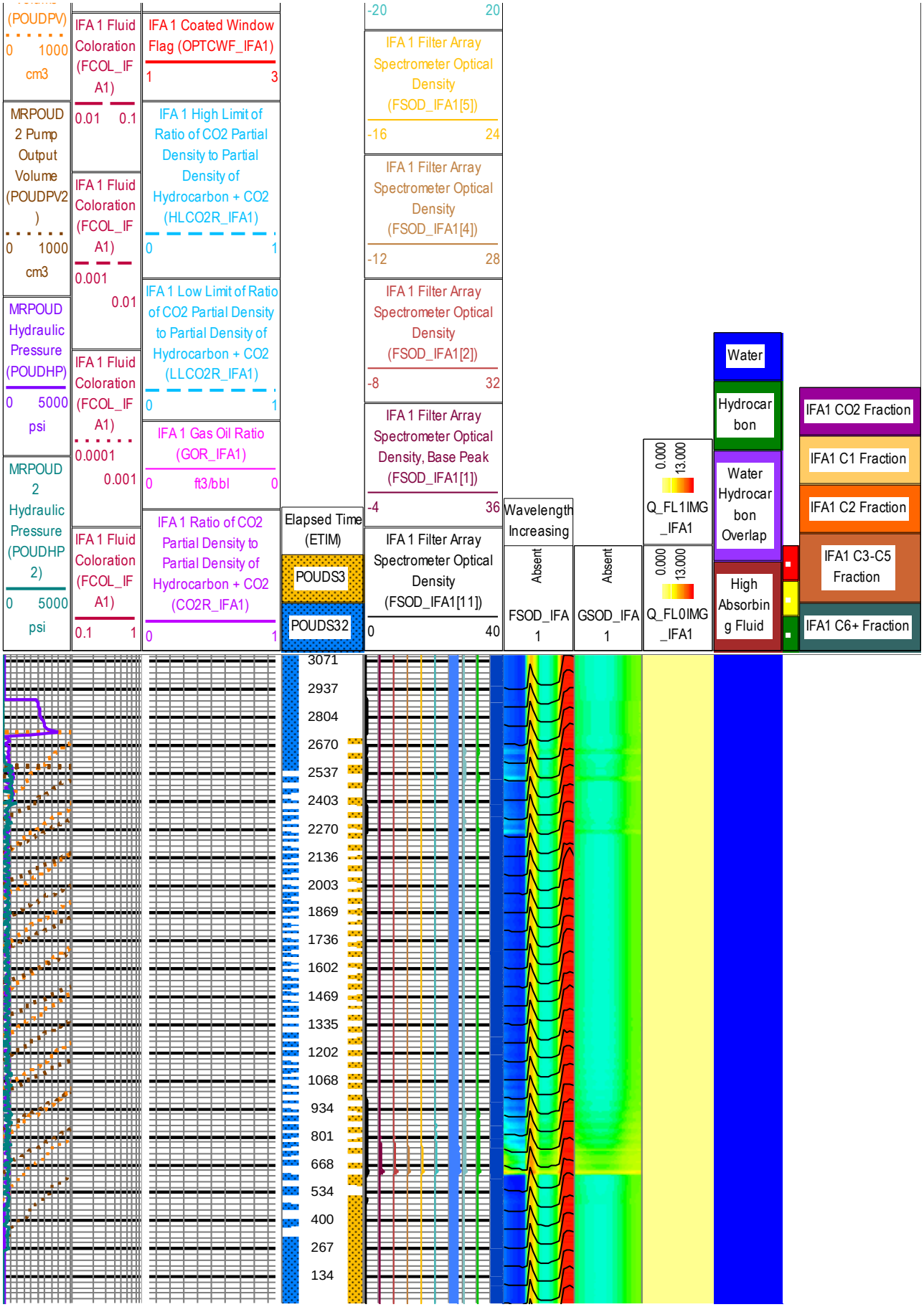


Figure 23 IFA_1 Log Plot

5.5.2.2 CFA Log Analysis

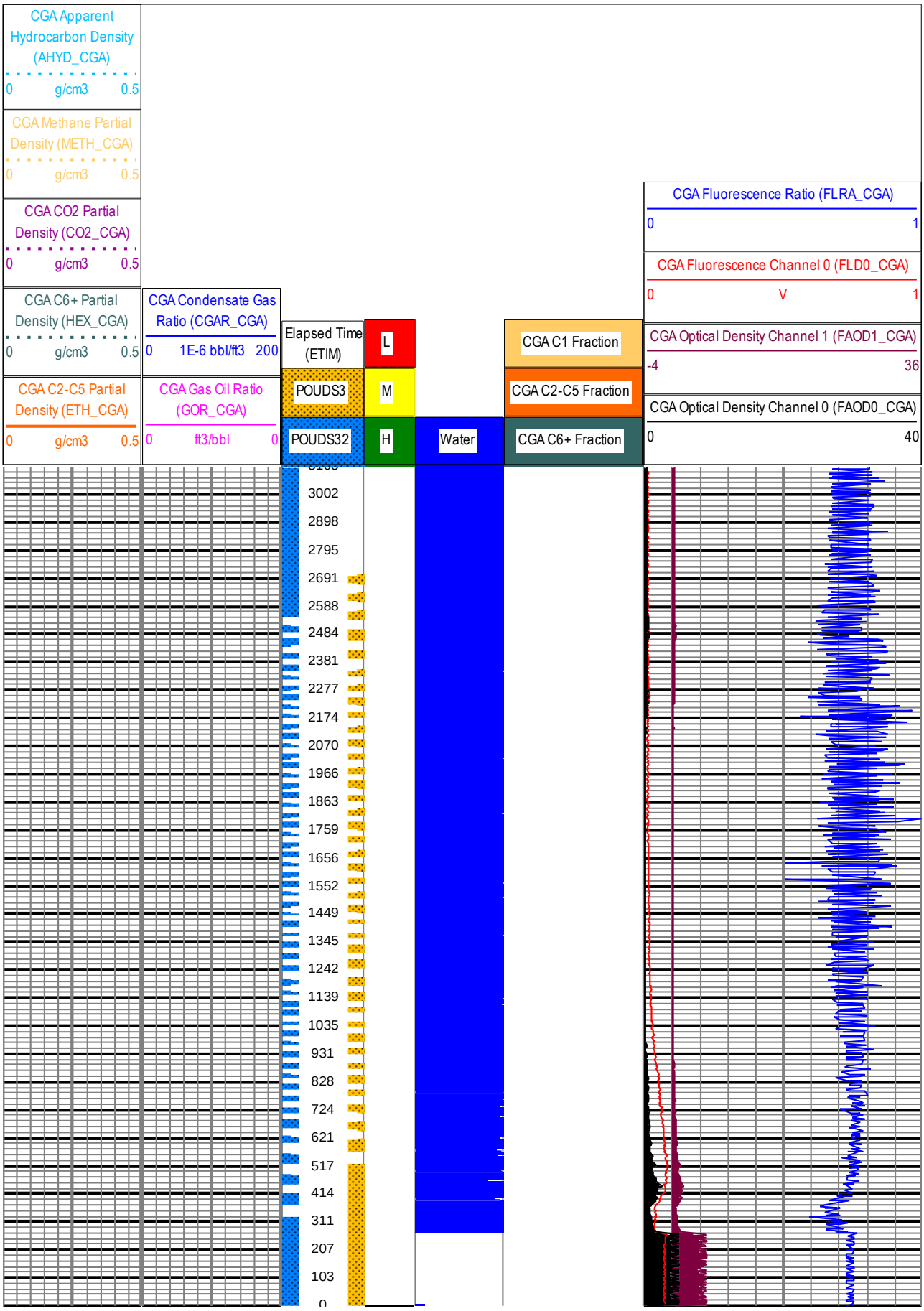


Figure 24 CFA Log Plot

5.5.2.3 Sample 1 Analysis (2637.9 s - 2850 s)

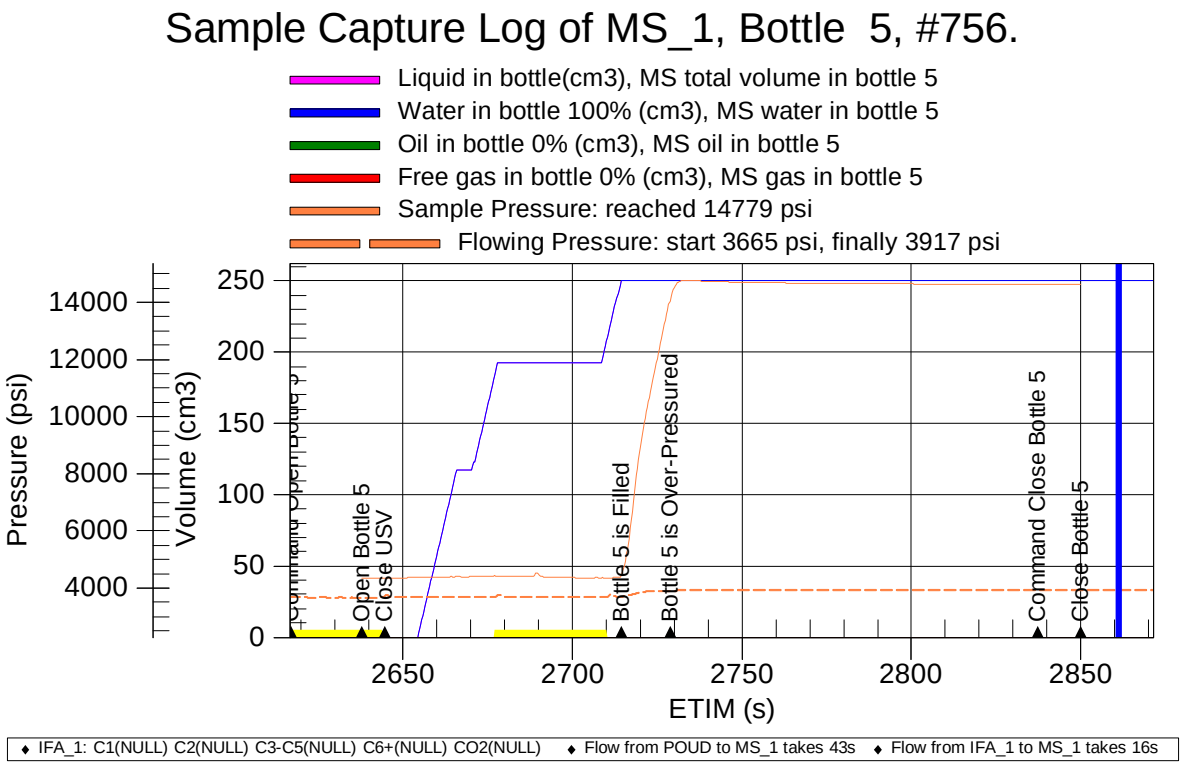


Figure 25 Sample Capture Plot

Identification			
Date	14-SEP-2012	Predicted Fluids Type	WATER
Time	0:52:48	Transfer Date	
File ID	OFA_MDT_153LTP	Transfer Time	
Run Number	4	Bottle Type	SPMC 250 cc
MD	2697.78 m	Bottle Serial No	756.
TVD	2697.78 m	Formation Name	
Sample Volume	250 cc	RDC Name	
Conditions			
Pump Out Time	2372.7 s	Sample Begin	2637.9 s
Pump Out Volume	21274.97 cm3	Sample End	2850 s
Bottle Open Pressure	4333.971 psi	Bottle Close Pressure	14617.908 psi
Properties			
Resistivity	0.06 ohm.m	Temperature	39.16 degC
Density	1.05 g/cm3 (IFA_1)	OCM Contamination	
Viscosity	1.1 cP (IFA_1)	GOR	
Hydrocarbon Composition			
C1		C6+	
C2		CO2	
C3-C5		C2-C5	
Volume Fraction			
Water Fraction	1	Hydrocarbon Fraction	0
High Absorbing Fraction	0		
Formation Condition			
Formation Pressure	3916.717 psi	Max. Drawdown Pressure	1778.785 psi
Formation Temperature	39.72 degC	DD Pressure before Sample	251.373 psi

5.5.2.4 IFA_1 DV-Rod Cross Plot (0 s - 3105 s)

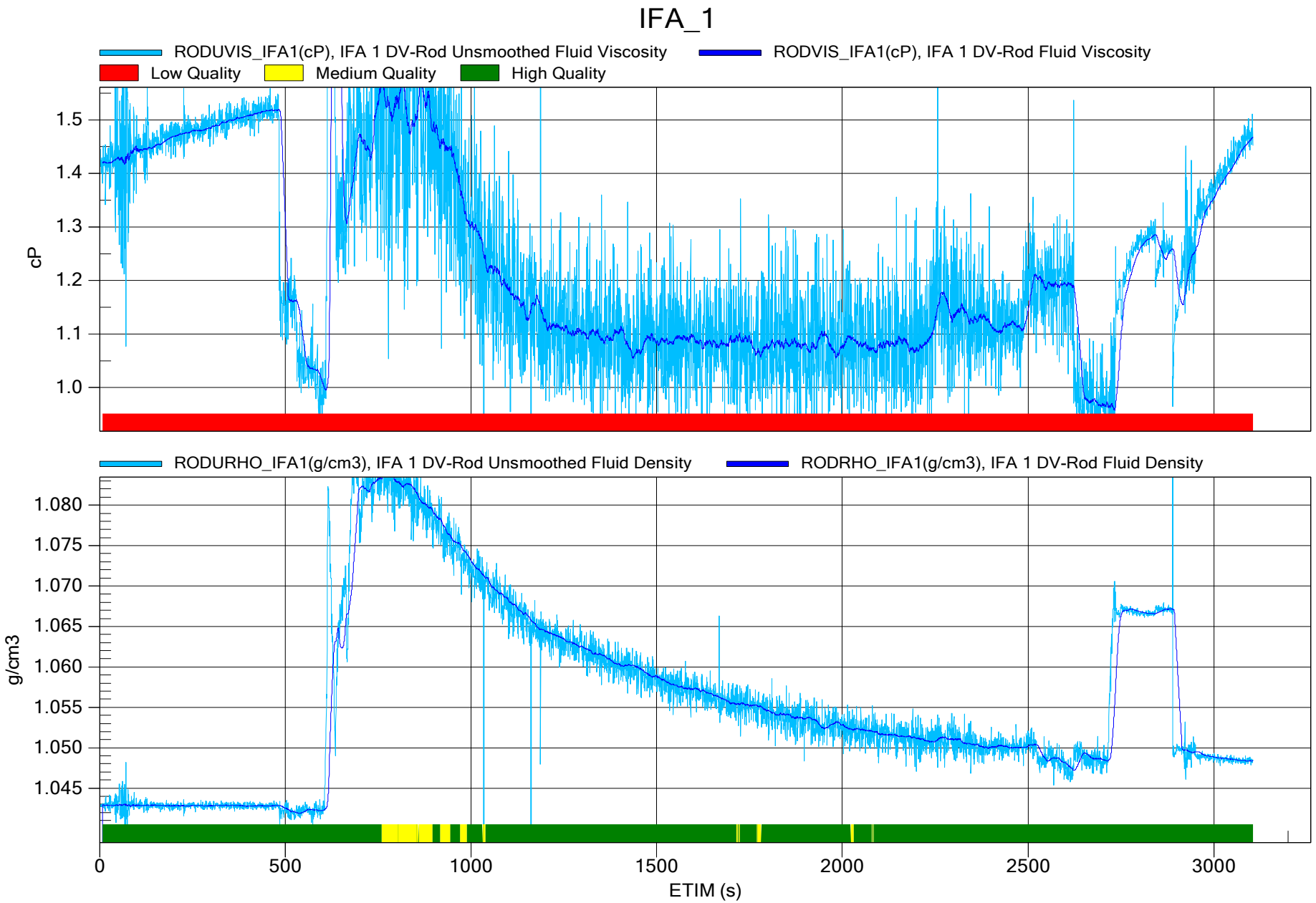


Figure 26 IFA_1 DV-Rod Cross Plot (0 s - 3105 s)

5.6 OFA_MDT_158LTP

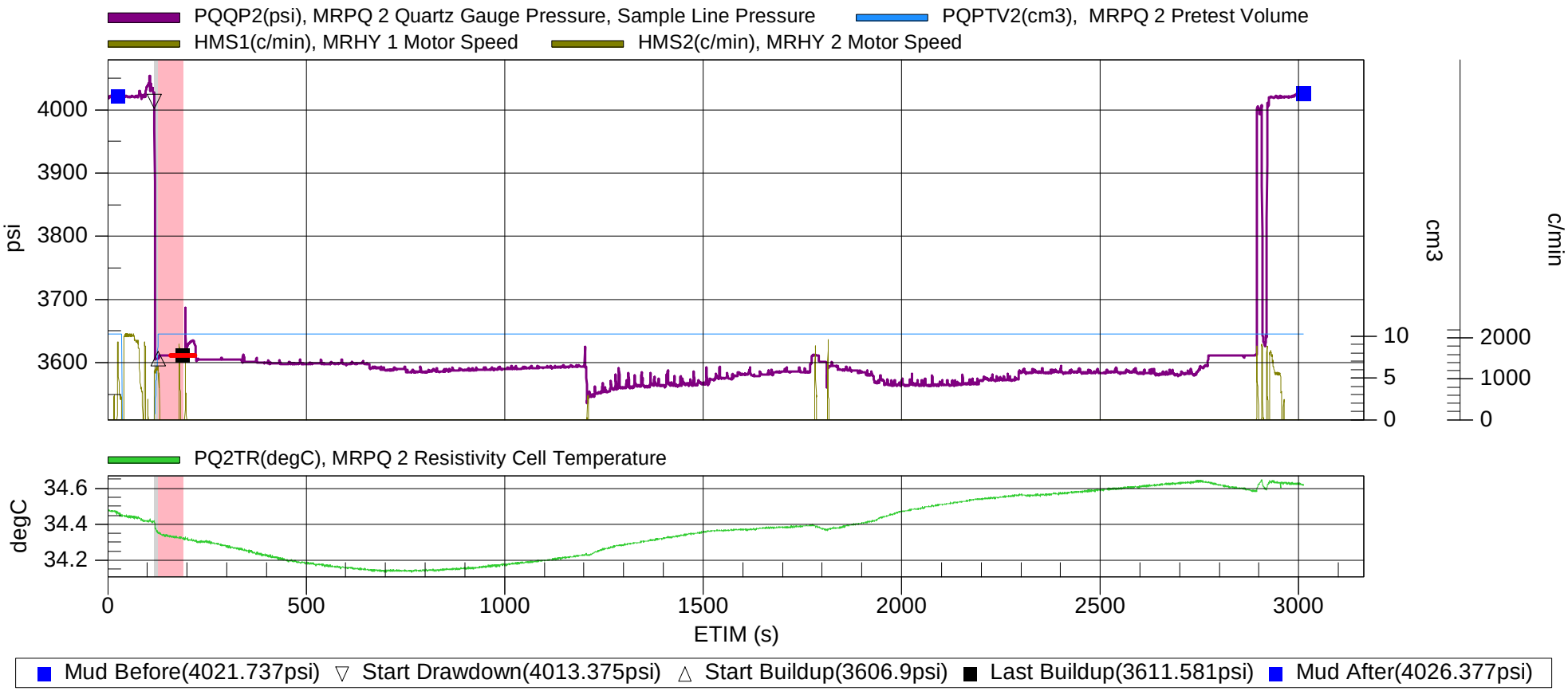
5.6.1 Pressure vs. Time Plot

Pressure vs. Time Plot

Run No:4 Test No:6 Probe MD:2488.02m Probe TVD:2488.02m

14-SEP-2012 JAMSTEC C0020

OFA_MDT_158LTP C0020A



■ Mud Before(4021.737psi) ▽ Start Drawdown(4013.375psi) △ Start Buildup(3606.9psi) ■ Last Buildup(3611.581psi) ■ Mud After(4026.377psi)

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:**	

5.6.2 Fluids Analysis

File Number	OFA_MDT_158LTP	Formation Pressure	3611.581 psi
MD	2488.02 m	Hydrostatic Pressure	4021.737 psi
TVD	2488.02 m	Formation Temperature	36.35 degC
Type	Sampling	Number of Samples	1

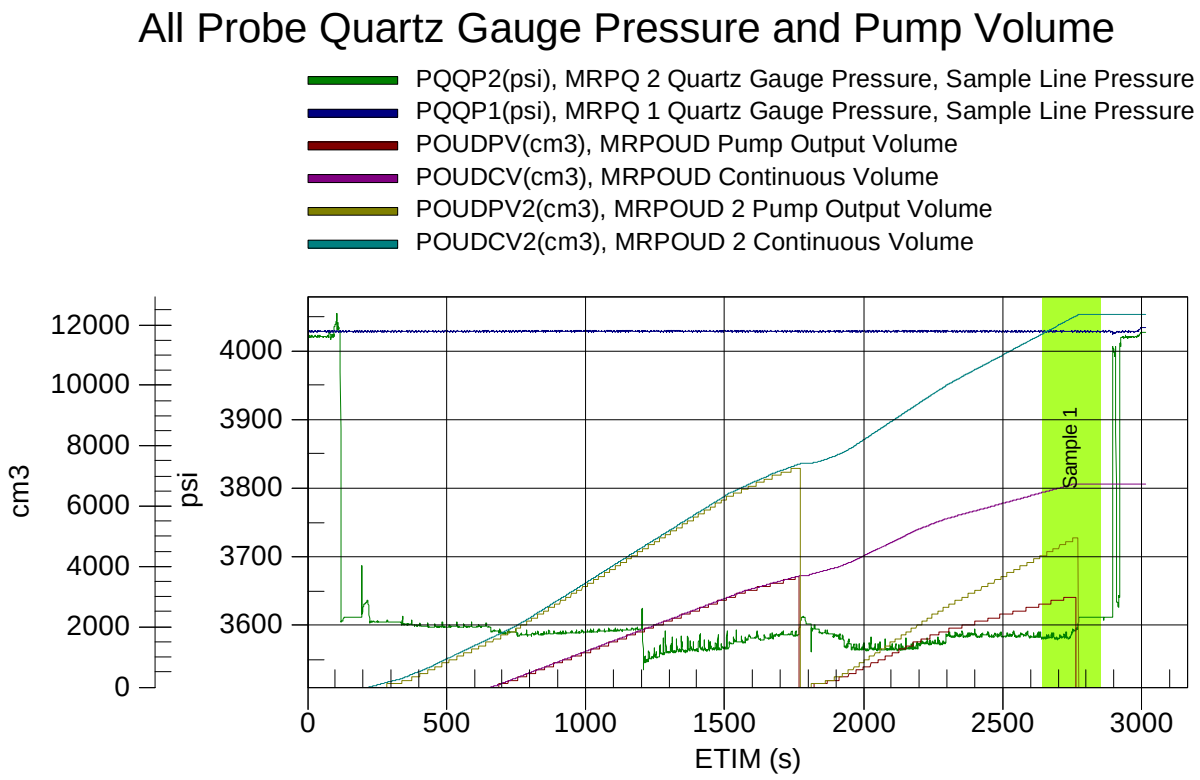


Figure 27 Summary Plot

Table 10 Event Table

ETIM (s)	Module	Description
0	CFA	Calibration
4.8	PQ_2	Open Bypass Valves
4.8	PQ_2	Open Isolation Valves
15	CFA	Turn to Measure Mode
16.8	PQ_2	Recycle Pretest Pistons
36.3	PQ_2	Set Sequence
88.2	PQ_2	Probe Set
88.2	PQ_2	Close Isolation Valves
88.2	PQ_2	Automatic Reset Enabled
95.7	PQ_2	Open Bypass Valves
113.1	PQ_2	Pretest Start
130.8	PQ_2	Pretest End
174.9	PQ_1	Close Isolation Valves
189.9	PQ_2	Open Isolation Valves
220.8	POUD_2	Start Pump Down
657	POUD	Start Pump Up
1203	PQ_2	Automatic Reset
1768.5	POUD	Stop Pump Up 3680 cm3
1772.7	POUD_2	Stop Pump Down 7245 cm3
1777.2	PQ_2	Close Bypass Valves
1789.5	POUD	Start Pump Up
1802.7	POUD_2	Start Pump Down
1809.3	PQ_2	Open Bypass Valves
2620.8	MS_1	Command Open Bottle 6
2639.1	MS_1	Open Bottle 6
2645.1	MS_1	Close USV
2740.8	MS_1	Bottle 6 is Filled

ETIM (s)	Module	Description
2760.6	POUD	Stop Pump Up 2990 cm3
2771.1	POUD_2	Stop Pump Down 4945 cm3
2837.4	MS_1	Command Close Bottle 6
2852.7	MS_1	Close Bottle 6
2861.7	MS_1	Open USV
2889.6	PQ_1	Open Isolation Valves
2901.6	PQ_2	Close Isolation Valves
2914.8	PQ_2	Open Bypass Valves
2914.8	PQ_2	Open Isolation Valves
2922.3	PQ_2	Retracting

5.6.2.1 IFA_1 Log Analysis

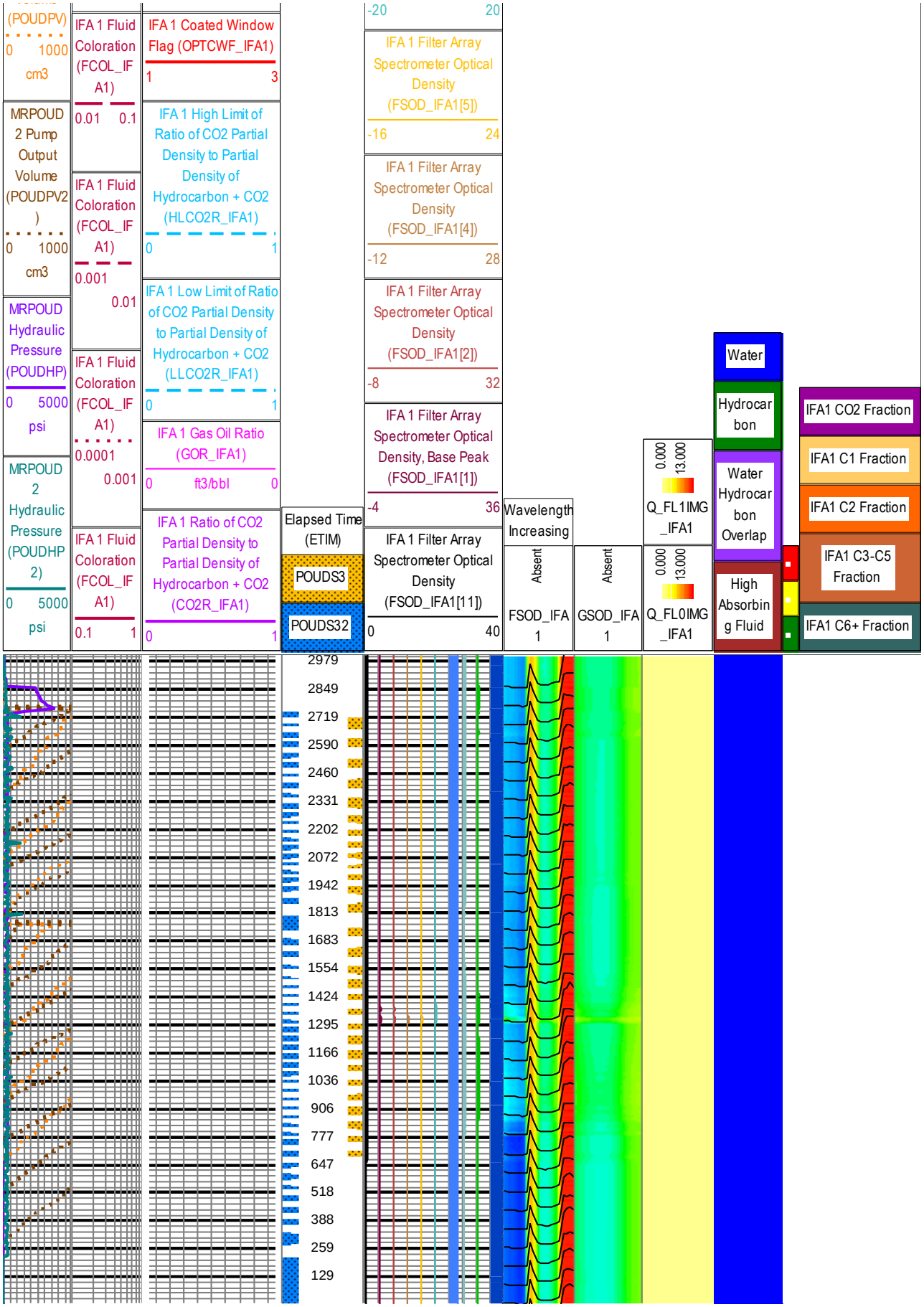


Figure 28 IFA_1 Log Plot

5.6.2.2 CFA Log Analysis

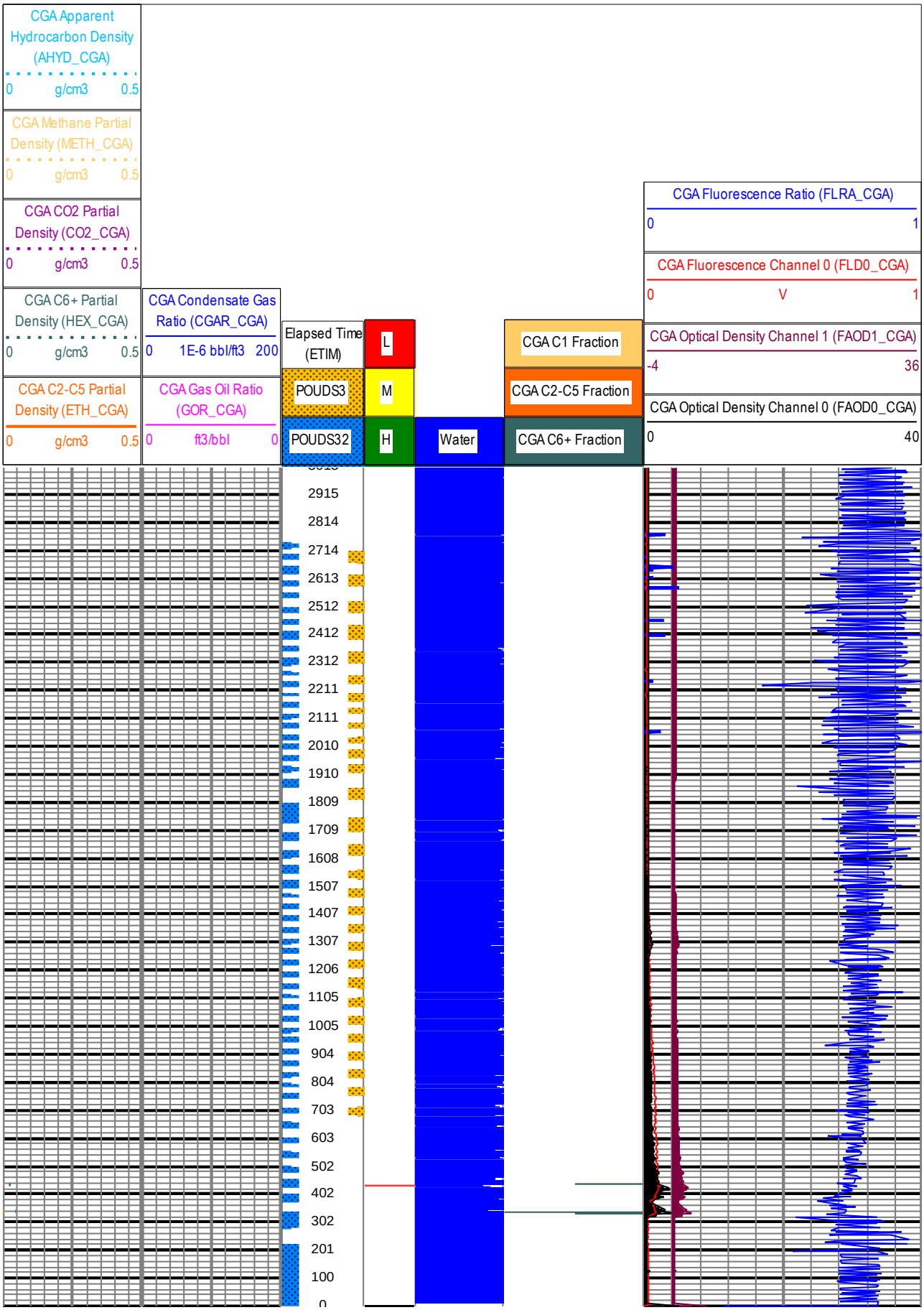


Figure 29 CFA Log Plot

5.6.2.3 Sample 1 Analysis (2639.1 s - 2852.7 s)

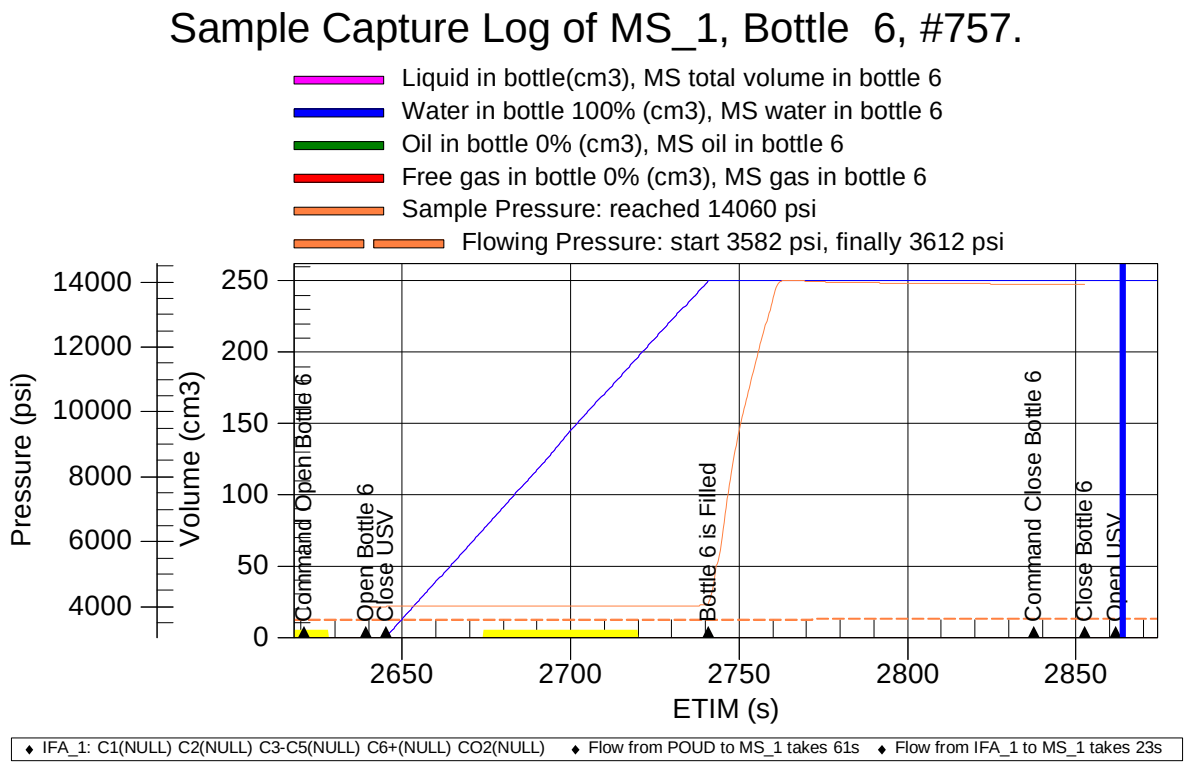


Figure 30 Sample Capture Plot

Identification			
Date	14-SEP-2012	Predicted Fluids Type	WATER
Time	2:33:11	Transfer Date	
File ID	OFA_MDT_158LTP	Transfer Time	
Run Number	4	Bottle Type	SPMC 250 cc
MD	2488.02 m	Bottle Serial No	757.
TVD	2488.02 m	Formation Name	
Sample Volume	250 cc	RDC Name	
Conditions			
Pump Out Time	2417.7 s	Sample Begin	2639.1 s
Pump Out Volume	18130.32 cm3	Sample End	2852.7 s
Bottle Open Pressure	3998.214 psi	Bottle Close Pressure	13922.283 psi
Properties			
Resistivity	0.07 ohm.m	Temperature	35.49 degC
Density	1.05 g/cm3 (IFA_1)	OCM Contamination	
Viscosity	1.2 cP (IFA_1)	GOR	
Hydrocarbon Composition			
C1		C6+	
C2		CO2	
C3-C5		C2-C5	
Volume Fraction			
Water Fraction	1	Hydrocarbon Fraction	0
High Absorbing Fraction	0		
Formation Condition			
Formation Pressure	3611.581 psi	Max. Drawdown Pressure	75.607 psi
Formation Temperature	36.35 degC	DD Pressure before Sample	29.994 psi

5.6.2.4 IFA_1 DV-Rod Cross Plot (0 s - 3012.3 s)

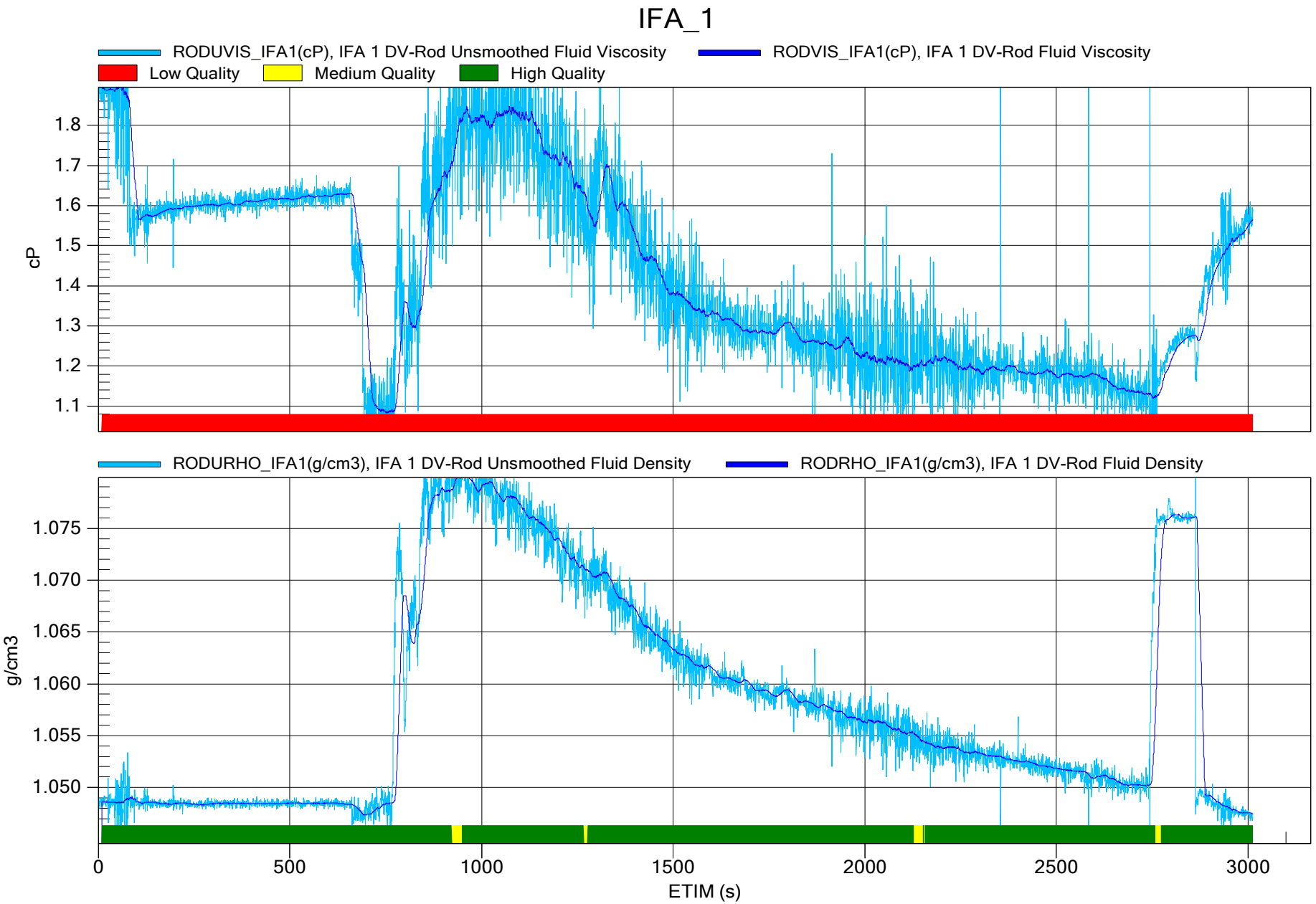


Figure 31 IFA_1 DV-Rod Cross Plot (0 s - 3012.3 s)

6 Calibration

6.1 Calibration Detail Record

6.1.1 10.625 in

6.1.1.1 Run 4

IFA_1 : IFA Temperature Coefficients - Run 4

Primary Set Components	Description	Tool Element	Serial Number
	InSitu Fluid Analyzer 1	IFA_1	0
	Shop Calibration		
Software Version			
Performed By			
Calibration Facility			
Calibration Dates	**Shop Calibration**		
Date & Time/ Data Validity	1/1/1970 9:00:00 AM		
Calibration Source	File		
Calibration Type	**IFA Temperature Coefficients**		

Description	Min/Normal/Max	Value	Unit
FL_TEMP_TCPS_175C Fluorescence Detector Temperature Compensation measurement - 175degC Temperature DEGC	165 / 175 / 185	-999.25	degC
FLIM_TCPS_175C Fluorescence Detector Temperature Compensation measurement - 175degC Intensity Monitor	---- / 0 / ----	1	V
RAW_FLR_TCPS_175C Fluorescence Detector Temperature Compensation measurement - 175degC Reflection	---- / 0 / ----	1	V
FL_TEMP_TCPS_150C Fluorescence Detector Temperature Compensation measurement - 150degC Temperature DEGC	140 / 150 / 160	-999.25	degC
FLIM_TCPS_150C Fluorescence Detector Temperature Compensation measurement - 150degC Intensity Monitor	---- / 0 / ----	1	V
RAW_FLR_TCPS_150C Fluorescence Detector Temperature Compensation measurement - 150degC Reflection	---- / 0 / ----	1	V
FL_TEMP_TCPS_125C Fluorescence Detector Temperature Compensation measurement - 125degC Temperature DEGC	115 / 125 / 135	124.42302	degC
FLIM_TCPS_125C Fluorescence Detector Temperature Compensation measurement - 125degC Intensity Monitor	---- / 0 / ----	0.44321	V
RAW_FLR_TCPS_125C Fluorescence Detector Temperature Compensation measurement - 125degC Reflection	---- / 0 / ----	0.82519	V
FL_TEMP_TCPS_100C Fluorescence Detector Temperature Compensation measurement - 100degC Temperature DEGC	90 / 100 / 110	95.35503	degC
FLIM_TCPS_100C Fluorescence Detector Temperature Compensation measurement - 100degC Intensity Monitor	---- / 0 / ----	0.48107	V
RAW_FLR_TCPS_100C Fluorescence Detector Temperature Compensation measurement - 100degC Reflection	---- / 0 / ----	0.98249	V
FL_TEMP_TCPS_75C	65 / 75 / 85	77.04092	degC

Fluorescence Detector Temperature Compensation measurement - 75degC Temperature DEGC			
FLIM_TCPS_75C Fluorescence Detector Temperature Compensation measurement - 75degC Intensity Monitor	---- / 0 / ----	0.49861	V
RAW_FLR_TCPS_75C Fluorescence Detector Temperature Compensation measurement - 75degC Reflection	---- / 0 / ----	1.04767	V
FL_TCPS_NORMALIZED_SLOPE Fluorescence Detector Temperature Compensation Computation -- Normalized Slope	---- / 0 / ----	-0.003104132	
FL_TCPS_INTERCEPT_COEFF Fluorescence Detector Temperature Compensation Computation -- Intercept Coefficient	---- / 0 / ----	1.22854	V
FL_TCPS_SLOPE_COEFF Fluorescence Detector Temperature Compensation Computation -- Slope Coefficient	---- / 0 / ----	-0.003813559	
GS_NORM_LMSR_SHIFT_TCPS_175C[0] GS Temperature Compensation Normalization - 175degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_175C[1] GS Temperature Compensation Normalization - 175degC LMSR Shift Norm By GS1	0 / 0 / 0	0	
GS_NORM_LMSR_SHIFT_TCPS_175C[2] GS Temperature Compensation Normalization - 175degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_175C[3] GS Temperature Compensation Normalization - 175degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_175C[4] GS Temperature Compensation Normalization - 175degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_175C[5] GS Temperature Compensation Normalization - 175degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_175C[6] GS Temperature Compensation Normalization - 175degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_175C[7] GS Temperature Compensation Normalization - 175degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_175C[8] GS Temperature Compensation Normalization - 175degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_175C[9] GS Temperature Compensation Normalization - 175degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_175C[10] GS Temperature Compensation Normalization - 175degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_175C[11] GS Temperature Compensation Normalization - 175degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_175C[12] GS Temperature Compensation Normalization -	-5 / 0 / 5	0	

175degC LMSR Shift Norm By GS1			
GS_NORM_LMSR_SHIFT_TCPS_175C[13] GS Temperature Compensation Normalization - 175degC LMSR Shift Norm By GS1	-5 / 0 / 5	0	
GS_NORM_LMSR_SHIFT_TCPS_175C[14] GS Temperature Compensation Normalization - 175degC LMSR Shift Norm By GS1	-5 / 0 / 5	0	
GS_NORM_LMSR_SHIFT_TCPS_175C[15] GS Temperature Compensation Normalization - 175degC LMSR Shift Norm By GS1	-5 / 0 / 5	0	
GS_LMSR_SHIFT_TCPS_175C[0] GS Temperature Compensation Measurement - 175degC LMSR Shift	-0.24 / 0 / 0.24	0	
GS_LMSR_SHIFT_TCPS_175C[1] GS Temperature Compensation Measurement - 175degC LMSR Shift	-0.24 / 0 / 0.24	0	
GS_LMSR_SHIFT_TCPS_175C[2] GS Temperature Compensation Measurement - 175degC LMSR Shift	-0.24 / 0 / 0.24	0	
GS_LMSR_SHIFT_TCPS_175C[3] GS Temperature Compensation Measurement - 175degC LMSR Shift	-0.24 / 0 / 0.24	0	
GS_LMSR_SHIFT_TCPS_175C[4] GS Temperature Compensation Measurement - 175degC LMSR Shift	-0.24 / 0 / 0.24	0	
GS_LMSR_SHIFT_TCPS_175C[5] GS Temperature Compensation Measurement - 175degC LMSR Shift	-0.24 / 0 / 0.24	0	
GS_LMSR_SHIFT_TCPS_175C[6] GS Temperature Compensation Measurement - 175degC LMSR Shift	-0.24 / 0 / 0.24	0	
GS_LMSR_SHIFT_TCPS_175C[7] GS Temperature Compensation Measurement - 175degC LMSR Shift	-0.24 / 0 / 0.24	0	
GS_LMSR_SHIFT_TCPS_175C[8] GS Temperature Compensation Measurement - 175degC LMSR Shift	-0.24 / 0 / 0.24	0	
GS_LMSR_SHIFT_TCPS_175C[9] GS Temperature Compensation Measurement - 175degC LMSR Shift	-0.24 / 0 / 0.24	0	
GS_LMSR_SHIFT_TCPS_175C[10] GS Temperature Compensation Measurement - 175degC LMSR Shift	-0.24 / 0 / 0.24	0	
GS_LMSR_SHIFT_TCPS_175C[11] GS Temperature Compensation Measurement - 175degC LMSR Shift	-0.24 / 0 / 0.24	0	
GS_LMSR_SHIFT_TCPS_175C[12] GS Temperature Compensation Measurement - 175degC LMSR Shift	-5 / 0 / 5	0	
GS_LMSR_SHIFT_TCPS_175C[13] GS Temperature Compensation Measurement - 175degC LMSR Shift	-5 / 0 / 5	0	
GS_LMSR_SHIFT_TCPS_175C[14] GS Temperature Compensation Measurement - 175degC LMSR Shift	-5 / 0 / 5	0	

GS_LMSR_SHIFT_TCPS_175C[15] GS Temperature Compensation Measurement - 175degC LMSR Shift	-5 / 0 / 5	0	
FS_LMSR_SHIFT_TCPS_175C[0] FS Temperature Compensation Measurement - 175degC LMSR Shift	-0.12 / 0 / 0.12	0	
FS_LMSR_SHIFT_TCPS_175C[1] FS Temperature Compensation Measurement - 175degC LMSR Shift	-0.12 / 0 / 0.12	0	
FS_LMSR_SHIFT_TCPS_175C[2] FS Temperature Compensation Measurement - 175degC LMSR Shift	-0.12 / 0 / 0.12	0	
FS_LMSR_SHIFT_TCPS_175C[3] FS Temperature Compensation Measurement - 175degC LMSR Shift	-0.12 / 0 / 0.12	0	
FS_LMSR_SHIFT_TCPS_175C[4] FS Temperature Compensation Measurement - 175degC LMSR Shift	-0.12 / 0 / 0.12	0	
FS_LMSR_SHIFT_TCPS_175C[5] FS Temperature Compensation Measurement - 175degC LMSR Shift	-0.12 / 0 / 0.12	0	
FS_LMSR_SHIFT_TCPS_175C[6] FS Temperature Compensation Measurement - 175degC LMSR Shift	-0.12 / 0 / 0.12	0	
FS_LMSR_SHIFT_TCPS_175C[7] FS Temperature Compensation Measurement - 175degC LMSR Shift	-0.12 / 0 / 0.12	0	
FS_LMSR_SHIFT_TCPS_175C[8] FS Temperature Compensation Measurement - 175degC LMSR Shift	-0.12 / 0 / 0.12	0	
FS_LMSR_SHIFT_TCPS_175C[9] FS Temperature Compensation Measurement - 175degC LMSR Shift	-0.12 / 0 / 0.12	0	
FS_LMSR_SHIFT_TCPS_175C[10] FS Temperature Compensation Measurement - 175degC LMSR Shift	-0.12 / 0 / 0.12	0	
FS_LMSR_SHIFT_TCPS_175C[11] FS Temperature Compensation Measurement - 175degC LMSR Shift	-0.12 / 0 / 0.12	0	
FS_LMSR_SHIFT_TCPS_175C[12] FS Temperature Compensation Measurement - 175degC LMSR Shift	-0.12 / 0 / 0.12	0	
FS_LMSR_SHIFT_TCPS_175C[13] FS Temperature Compensation Measurement - 175degC LMSR Shift	-0.12 / 0 / 0.12	0	
FS_LMSR_SHIFT_TCPS_175C[14] FS Temperature Compensation Measurement - 175degC LMSR Shift	-0.12 / 0 / 0.12	0	
FS_LMSR_SHIFT_TCPS_175C[15] FS Temperature Compensation Measurement - 175degC LMSR Shift	-0.12 / 0 / 0.12	0	
FS_LMSR_SHIFT_TCPS_175C[16] FS Temperature Compensation Measurement - 175degC LMSR Shift	-0.12 / 0 / 0.12	0	
FS_LMSR_SHIFT_TCPS_175C[17]	-0.12 / 0 / 0.12	0	

FS Temperature Compensation Measurement - 175degC LMSR Shift			
FS_LMSR_SHIFT_TCPS_175C[18] FS Temperature Compensation Measurement - 175degC LMSR Shift	-0.12 / 0 / 0.12	0	
FS_LMSR_SHIFT_TCPS_175C[19] FS Temperature Compensation Measurement - 175degC LMSR Shift	-0.12 / 0 / 0.12	0	
GS_NORM_LMSR_SHIFT_TCPS_150C[0] GS Temperature Compensation Normalization - 150degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_150C[1] GS Temperature Compensation Normalization - 150degC LMSR Shift Norm By GS1	0 / 0 / 0	0	
GS_NORM_LMSR_SHIFT_TCPS_150C[2] GS Temperature Compensation Normalization - 150degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_150C[3] GS Temperature Compensation Normalization - 150degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_150C[4] GS Temperature Compensation Normalization - 150degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_150C[5] GS Temperature Compensation Normalization - 150degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_150C[6] GS Temperature Compensation Normalization - 150degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_150C[7] GS Temperature Compensation Normalization - 150degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_150C[8] GS Temperature Compensation Normalization - 150degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_150C[9] GS Temperature Compensation Normalization - 150degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_150C[10] GS Temperature Compensation Normalization - 150degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_150C[11] GS Temperature Compensation Normalization - 150degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0	
GS_NORM_LMSR_SHIFT_TCPS_150C[12] GS Temperature Compensation Normalization - 150degC LMSR Shift Norm By GS1	-5 / 0 / 5	0	
GS_NORM_LMSR_SHIFT_TCPS_150C[13] GS Temperature Compensation Normalization - 150degC LMSR Shift Norm By GS1	-5 / 0 / 5	0	
GS_NORM_LMSR_SHIFT_TCPS_150C[14] GS Temperature Compensation Normalization - 150degC LMSR Shift Norm By GS1	-5 / 0 / 5	0	
GS_NORM_LMSR_SHIFT_TCPS_150C[15] GS Temperature Compensation Normalization -	-5 / 0 / 5	0	

150degC LMSR Shift Norm By GS1			
GS_LMSR_SHIFT_TCPS_150C[0] GS Temperature Compensation Measurement - 150degC LMSR Shift	-0.2 / 0 / 0.2	0	
GS_LMSR_SHIFT_TCPS_150C[1] GS Temperature Compensation Measurement - 150degC LMSR Shift	-0.2 / 0 / 0.2	0	
GS_LMSR_SHIFT_TCPS_150C[2] GS Temperature Compensation Measurement - 150degC LMSR Shift	-0.2 / 0 / 0.2	0	
GS_LMSR_SHIFT_TCPS_150C[3] GS Temperature Compensation Measurement - 150degC LMSR Shift	-0.2 / 0 / 0.2	0	
GS_LMSR_SHIFT_TCPS_150C[4] GS Temperature Compensation Measurement - 150degC LMSR Shift	-0.2 / 0 / 0.2	0	
GS_LMSR_SHIFT_TCPS_150C[5] GS Temperature Compensation Measurement - 150degC LMSR Shift	-0.2 / 0 / 0.2	0	
GS_LMSR_SHIFT_TCPS_150C[6] GS Temperature Compensation Measurement - 150degC LMSR Shift	-0.2 / 0 / 0.2	0	
GS_LMSR_SHIFT_TCPS_150C[7] GS Temperature Compensation Measurement - 150degC LMSR Shift	-0.2 / 0 / 0.2	0	
GS_LMSR_SHIFT_TCPS_150C[8] GS Temperature Compensation Measurement - 150degC LMSR Shift	-0.2 / 0 / 0.2	0	
GS_LMSR_SHIFT_TCPS_150C[9] GS Temperature Compensation Measurement - 150degC LMSR Shift	-0.2 / 0 / 0.2	0	
GS_LMSR_SHIFT_TCPS_150C[10] GS Temperature Compensation Measurement - 150degC LMSR Shift	-0.2 / 0 / 0.2	0	
GS_LMSR_SHIFT_TCPS_150C[11] GS Temperature Compensation Measurement - 150degC LMSR Shift	-0.2 / 0 / 0.2	0	
GS_LMSR_SHIFT_TCPS_150C[12] GS Temperature Compensation Measurement - 150degC LMSR Shift	-5 / 0 / 5	0	
GS_LMSR_SHIFT_TCPS_150C[13] GS Temperature Compensation Measurement - 150degC LMSR Shift	-5 / 0 / 5	0	
GS_LMSR_SHIFT_TCPS_150C[14] GS Temperature Compensation Measurement - 150degC LMSR Shift	-5 / 0 / 5	0	
GS_LMSR_SHIFT_TCPS_150C[15] GS Temperature Compensation Measurement - 150degC LMSR Shift	-5 / 0 / 5	0	
FS_LMSR_SHIFT_TCPS_150C[0] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	
FS_LMSR_SHIFT_TCPS_150C[1] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	

FS_LMSR_SHIFT_TCPS_150C[2] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	
FS_LMSR_SHIFT_TCPS_150C[3] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	
FS_LMSR_SHIFT_TCPS_150C[4] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	
FS_LMSR_SHIFT_TCPS_150C[5] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	
FS_LMSR_SHIFT_TCPS_150C[6] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	
FS_LMSR_SHIFT_TCPS_150C[7] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	
FS_LMSR_SHIFT_TCPS_150C[8] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	
FS_LMSR_SHIFT_TCPS_150C[9] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	
FS_LMSR_SHIFT_TCPS_150C[10] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	
FS_LMSR_SHIFT_TCPS_150C[11] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	
FS_LMSR_SHIFT_TCPS_150C[12] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	
FS_LMSR_SHIFT_TCPS_150C[13] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	
FS_LMSR_SHIFT_TCPS_150C[14] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	
FS_LMSR_SHIFT_TCPS_150C[15] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	
FS_LMSR_SHIFT_TCPS_150C[16] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	
FS_LMSR_SHIFT_TCPS_150C[17] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	
FS_LMSR_SHIFT_TCPS_150C[18] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	
FS_LMSR_SHIFT_TCPS_150C[19] FS Temperature Compensation Measurement - 150degC LMSR Shift	-0.1 / 0 / 0.1	0	
GS_NORM_LMSR_SHIFT_TCPS_125C[0]	-0.03 / 0 / 0.03	-0.001123995	

GS Temperature Compensation Normalization - 125degC LMSR Shift Norm By GS1			
GS_NORM_LMSR_SHIFT_TCPS_125C[1] GS Temperature Compensation Normalization - 125degC LMSR Shift Norm By GS1	0 / 0 / 0	0	
GS_NORM_LMSR_SHIFT_TCPS_125C[2] GS Temperature Compensation Normalization - 125degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0.005428016	
GS_NORM_LMSR_SHIFT_TCPS_125C[3] GS Temperature Compensation Normalization - 125degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.0003939867	
GS_NORM_LMSR_SHIFT_TCPS_125C[4] GS Temperature Compensation Normalization - 125degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.006171018	
GS_NORM_LMSR_SHIFT_TCPS_125C[5] GS Temperature Compensation Normalization - 125degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.007212996	
GS_NORM_LMSR_SHIFT_TCPS_125C[6] GS Temperature Compensation Normalization - 125degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.009459019	
GS_NORM_LMSR_SHIFT_TCPS_125C[7] GS Temperature Compensation Normalization - 125degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.01422802	
GS_NORM_LMSR_SHIFT_TCPS_125C[8] GS Temperature Compensation Normalization - 125degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.01561898	
GS_NORM_LMSR_SHIFT_TCPS_125C[9] GS Temperature Compensation Normalization - 125degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.004325002	
GS_NORM_LMSR_SHIFT_TCPS_125C[10] GS Temperature Compensation Normalization - 125degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.01091099	
GS_NORM_LMSR_SHIFT_TCPS_125C[11] GS Temperature Compensation Normalization - 125degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.01499999	
GS_NORM_LMSR_SHIFT_TCPS_125C[12] GS Temperature Compensation Normalization - 125degC LMSR Shift Norm By GS1	-5 / 0 / 5	-0.01925498	
GS_NORM_LMSR_SHIFT_TCPS_125C[13] GS Temperature Compensation Normalization - 125degC LMSR Shift Norm By GS1	-5 / 0 / 5	-0.01207	
GS_NORM_LMSR_SHIFT_TCPS_125C[14] GS Temperature Compensation Normalization - 125degC LMSR Shift Norm By GS1	-5 / 0 / 5	-0.004561007	
GS_NORM_LMSR_SHIFT_TCPS_125C[15] GS Temperature Compensation Normalization - 125degC LMSR Shift Norm By GS1	-5 / 0 / 5	0.015324	
GS_LMSR_SHIFT_TCPS_125C[0] GS Temperature Compensation Measurement - 125degC LMSR Shift	-0.16 / 0 / 0.16	-0.0001659989	
GS_LMSR_SHIFT_TCPS_125C[1] GS Temperature Compensation Measurement - 125degC LMSR Shift	-0.16 / 0 / 0.16	0.0009579957	
GS_LMSR_SHIFT_TCPS_125C[2] GS Temperature Compensation Measurement -	-0.16 / 0 / 0.16	0.006386012	

125degC LMSR Shift			
GS_LMSR_SHIFT_TCPS_125C[3] GS Temperature Compensation Measurement - 125degC LMSR Shift	-0.16 / 0 / 0.16	0.000564009	
GS_LMSR_SHIFT_TCPS_125C[4] GS Temperature Compensation Measurement - 125degC LMSR Shift	-0.16 / 0 / 0.16	-0.005213022	
GS_LMSR_SHIFT_TCPS_125C[5] GS Temperature Compensation Measurement - 125degC LMSR Shift	-0.16 / 0 / 0.16	-0.006255001	
GS_LMSR_SHIFT_TCPS_125C[6] GS Temperature Compensation Measurement - 125degC LMSR Shift	-0.16 / 0 / 0.16	-0.008501023	
GS_LMSR_SHIFT_TCPS_125C[7] GS Temperature Compensation Measurement - 125degC LMSR Shift	-0.16 / 0 / 0.16	-0.01327002	
GS_LMSR_SHIFT_TCPS_125C[8] GS Temperature Compensation Measurement - 125degC LMSR Shift	-0.16 / 0 / 0.16	-0.01466098	
GS_LMSR_SHIFT_TCPS_125C[9] GS Temperature Compensation Measurement - 125degC LMSR Shift	-0.16 / 0 / 0.16	-0.003367007	
GS_LMSR_SHIFT_TCPS_125C[10] GS Temperature Compensation Measurement - 125degC LMSR Shift	-0.16 / 0 / 0.16	-0.009952992	
GS_LMSR_SHIFT_TCPS_125C[11] GS Temperature Compensation Measurement - 125degC LMSR Shift	-0.16 / 0 / 0.16	-0.01404199	
GS_LMSR_SHIFT_TCPS_125C[12] GS Temperature Compensation Measurement - 125degC LMSR Shift	-5 / 0 / 5	-0.01829699	
GS_LMSR_SHIFT_TCPS_125C[13] GS Temperature Compensation Measurement - 125degC LMSR Shift	-5 / 0 / 5	-0.011112	
GS_LMSR_SHIFT_TCPS_125C[14] GS Temperature Compensation Measurement - 125degC LMSR Shift	-5 / 0 / 5	-0.003603011	
GS_LMSR_SHIFT_TCPS_125C[15] GS Temperature Compensation Measurement - 125degC LMSR Shift	-5 / 0 / 5	0.01628199	
FS_LMSR_SHIFT_TCPS_125C[0] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	-0.002740979	
FS_LMSR_SHIFT_TCPS_125C[1] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	-0.001576006	
FS_LMSR_SHIFT_TCPS_125C[2] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	-0.004925966	
FS_LMSR_SHIFT_TCPS_125C[3] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	-0.00277698	
FS_LMSR_SHIFT_TCPS_125C[4] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	-0.004217982	

FS_LMSR_SHIFT_TCPS_125C[5] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	0.006324023	
FS_LMSR_SHIFT_TCPS_125C[6] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	-0.0008910298	
FS_LMSR_SHIFT_TCPS_125C[7] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	-0.0009019971	
FS_LMSR_SHIFT_TCPS_125C[8] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	0.003178	
FS_LMSR_SHIFT_TCPS_125C[9] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	-0.003230989	
FS_LMSR_SHIFT_TCPS_125C[10] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	-0.003017008	
FS_LMSR_SHIFT_TCPS_125C[11] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	0.005541027	
FS_LMSR_SHIFT_TCPS_125C[12] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	-0.0004490018	
FS_LMSR_SHIFT_TCPS_125C[13] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	0.002152026	
FS_LMSR_SHIFT_TCPS_125C[14] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	0.003015995	
FS_LMSR_SHIFT_TCPS_125C[15] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	0.005095005	
FS_LMSR_SHIFT_TCPS_125C[16] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	0.003639996	
FS_LMSR_SHIFT_TCPS_125C[17] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	-0.002010047	
FS_LMSR_SHIFT_TCPS_125C[18] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	0.01257497	
FS_LMSR_SHIFT_TCPS_125C[19] FS Temperature Compensation Measurement - 125degC LMSR Shift	-0.08 / 0 / 0.08	0.009199977	
GS_NORM_LMSR_SHIFT_TCPS_100C[0] GS Temperature Compensation Normalization - 100degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0.0005109906	
GS_NORM_LMSR_SHIFT_TCPS_100C[1] GS Temperature Compensation Normalization - 100degC LMSR Shift Norm By GS1	0 / 0 / 0	0	
GS_NORM_LMSR_SHIFT_TCPS_100C[2] GS Temperature Compensation Normalization - 100degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0.006844997	
GS_NORM_LMSR_SHIFT_TCPS_100C[3]	-0.03 / 0 / 0.03	0.002965987	

GS Temperature Compensation Normalization - 100degC LMSR Shift Norm By GS1			
GS_NORM_LMSR_SHIFT_TCPS_100C[4] GS Temperature Compensation Normalization - 100degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.001112014	
GS_NORM_LMSR_SHIFT_TCPS_100C[5] GS Temperature Compensation Normalization - 100degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0.0007919967	
GS_NORM_LMSR_SHIFT_TCPS_100C[6] GS Temperature Compensation Normalization - 100degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.006056011	
GS_NORM_LMSR_SHIFT_TCPS_100C[7] GS Temperature Compensation Normalization - 100degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.00850901	
GS_NORM_LMSR_SHIFT_TCPS_100C[8] GS Temperature Compensation Normalization - 100degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.01388198	
GS_NORM_LMSR_SHIFT_TCPS_100C[9] GS Temperature Compensation Normalization - 100degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.004189998	
GS_NORM_LMSR_SHIFT_TCPS_100C[10] GS Temperature Compensation Normalization - 100degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.0005079806	
GS_NORM_LMSR_SHIFT_TCPS_100C[11] GS Temperature Compensation Normalization - 100degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.008305997	
GS_NORM_LMSR_SHIFT_TCPS_100C[12] GS Temperature Compensation Normalization - 100degC LMSR Shift Norm By GS1	-5 / 0 / 5	-0.01558799	
GS_NORM_LMSR_SHIFT_TCPS_100C[13] GS Temperature Compensation Normalization - 100degC LMSR Shift Norm By GS1	-5 / 0 / 5	-0.01025403	
GS_NORM_LMSR_SHIFT_TCPS_100C[14] GS Temperature Compensation Normalization - 100degC LMSR Shift Norm By GS1	-5 / 0 / 5	-0.006711006	
GS_NORM_LMSR_SHIFT_TCPS_100C[15] GS Temperature Compensation Normalization - 100degC LMSR Shift Norm By GS1	-5 / 0 / 5	0.01186499	
GS_LMSR_SHIFT_TCPS_100C[0] GS Temperature Compensation Measurement - 100degC LMSR Shift	-0.12 / 0 / 0.12	-0.003596008	
GS_LMSR_SHIFT_TCPS_100C[1] GS Temperature Compensation Measurement - 100degC LMSR Shift	-0.12 / 0 / 0.12	-0.004106998	
GS_LMSR_SHIFT_TCPS_100C[2] GS Temperature Compensation Measurement - 100degC LMSR Shift	-0.12 / 0 / 0.12	0.002737999	
GS_LMSR_SHIFT_TCPS_100C[3] GS Temperature Compensation Measurement - 100degC LMSR Shift	-0.12 / 0 / 0.12	-0.001141012	
GS_LMSR_SHIFT_TCPS_100C[4] GS Temperature Compensation Measurement - 100degC LMSR Shift	-0.12 / 0 / 0.12	-0.005219012	
GS_LMSR_SHIFT_TCPS_100C[5] GS Temperature Compensation Measurement -	-0.12 / 0 / 0.12	-0.003315002	

100degC LMSR Shift			
GS_LMSR_SHIFT_TCPS_100C[6] GS Temperature Compensation Measurement - 100degC LMSR Shift	-0.12 / 0 / 0.12	-0.01016301	
GS_LMSR_SHIFT_TCPS_100C[7] GS Temperature Compensation Measurement - 100degC LMSR Shift	-0.12 / 0 / 0.12	-0.01261601	
GS_LMSR_SHIFT_TCPS_100C[8] GS Temperature Compensation Measurement - 100degC LMSR Shift	-0.12 / 0 / 0.12	-0.01798898	
GS_LMSR_SHIFT_TCPS_100C[9] GS Temperature Compensation Measurement - 100degC LMSR Shift	-0.12 / 0 / 0.12	-0.008296996	
GS_LMSR_SHIFT_TCPS_100C[10] GS Temperature Compensation Measurement - 100degC LMSR Shift	-0.12 / 0 / 0.12	-0.004614979	
GS_LMSR_SHIFT_TCPS_100C[11] GS Temperature Compensation Measurement - 100degC LMSR Shift	-0.12 / 0 / 0.12	-0.012413	
GS_LMSR_SHIFT_TCPS_100C[12] GS Temperature Compensation Measurement - 100degC LMSR Shift	-5 / 0 / 5	-0.01969498	
GS_LMSR_SHIFT_TCPS_100C[13] GS Temperature Compensation Measurement - 100degC LMSR Shift	-5 / 0 / 5	-0.01436102	
GS_LMSR_SHIFT_TCPS_100C[14] GS Temperature Compensation Measurement - 100degC LMSR Shift	-5 / 0 / 5	-0.010818	
GS_LMSR_SHIFT_TCPS_100C[15] GS Temperature Compensation Measurement - 100degC LMSR Shift	-5 / 0 / 5	0.007757992	
FS_LMSR_SHIFT_TCPS_100C[0] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	-0.001459002	
FS_LMSR_SHIFT_TCPS_100C[1] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	-0.0007420182	
FS_LMSR_SHIFT_TCPS_100C[2] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	-0.002438962	
FS_LMSR_SHIFT_TCPS_100C[3] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	-0.002016962	
FS_LMSR_SHIFT_TCPS_100C[4] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	-0.002563	
FS_LMSR_SHIFT_TCPS_100C[5] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	0.004439026	
FS_LMSR_SHIFT_TCPS_100C[6] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	-0.0002689958	
FS_LMSR_SHIFT_TCPS_100C[7] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	-0.0008060336	

FS_LMSR_SHIFT_TCPS_100C[8] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	0.00235498	
FS_LMSR_SHIFT_TCPS_100C[9] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	-0.001339972	
FS_LMSR_SHIFT_TCPS_100C[10] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	-0.001702994	
FS_LMSR_SHIFT_TCPS_100C[11] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	0.004399002	
FS_LMSR_SHIFT_TCPS_100C[12] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	-0.0003859997	
FS_LMSR_SHIFT_TCPS_100C[13] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	0.001451969	
FS_LMSR_SHIFT_TCPS_100C[14] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	0.002235949	
FS_LMSR_SHIFT_TCPS_100C[15] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	0.003315032	
FS_LMSR_SHIFT_TCPS_100C[16] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	0.002496004	
FS_LMSR_SHIFT_TCPS_100C[17] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	-0.001224041	
FS_LMSR_SHIFT_TCPS_100C[18] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	0.008062959	
FS_LMSR_SHIFT_TCPS_100C[19] FS Temperature Compensation Measurement - 100degC LMSR Shift	-0.06 / 0 / 0.06	0.006345987	
GS_NORM_LMSR_SHIFT_TCPS_75C[0] GS Temperature Compensation Normalization - 75degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0.0005919933	
GS_NORM_LMSR_SHIFT_TCPS_75C[1] GS Temperature Compensation Normalization - 75degC LMSR Shift Norm By GS1	0 / 0 / 0	0	
GS_NORM_LMSR_SHIFT_TCPS_75C[2] GS Temperature Compensation Normalization - 75degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0.003201991	
GS_NORM_LMSR_SHIFT_TCPS_75C[3] GS Temperature Compensation Normalization - 75degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0.002573997	
GS_NORM_LMSR_SHIFT_TCPS_75C[4] GS Temperature Compensation Normalization - 75degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.001082003	
GS_NORM_LMSR_SHIFT_TCPS_75C[5] GS Temperature Compensation Normalization - 75degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	0.001405001	
GS_NORM_LMSR_SHIFT_TCPS_75C[6]	-0.03 / 0 / 0.03	-0.006177008	

GS Temperature Compensation Normalization - 75degC LMSR Shift Norm By GS1			
GS_NORM_LMSR_SHIFT_TCPS_75C[7] GS Temperature Compensation Normalization - 75degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.003078014	
GS_NORM_LMSR_SHIFT_TCPS_75C[8] GS Temperature Compensation Normalization - 75degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.01044798	
GS_NORM_LMSR_SHIFT_TCPS_75C[9] GS Temperature Compensation Normalization - 75degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.007059008	
GS_NORM_LMSR_SHIFT_TCPS_75C[10] GS Temperature Compensation Normalization - 75degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.0004310012	
GS_NORM_LMSR_SHIFT_TCPS_75C[11] GS Temperature Compensation Normalization - 75degC LMSR Shift Norm By GS1	-0.03 / 0 / 0.03	-0.002907008	
GS_NORM_LMSR_SHIFT_TCPS_75C[12] GS Temperature Compensation Normalization - 75degC LMSR Shift Norm By GS1	-5 / 0 / 5	-0.009747982	
GS_NORM_LMSR_SHIFT_TCPS_75C[13] GS Temperature Compensation Normalization - 75degC LMSR Shift Norm By GS1	-5 / 0 / 5	-0.005329013	
GS_NORM_LMSR_SHIFT_TCPS_75C[14] GS Temperature Compensation Normalization - 75degC LMSR Shift Norm By GS1	-5 / 0 / 5	-0.008202016	
GS_NORM_LMSR_SHIFT_TCPS_75C[15] GS Temperature Compensation Normalization - 75degC LMSR Shift Norm By GS1	-5 / 0 / 5	0.003429979	
GS_LMSR_SHIFT_TCPS_75C[0] GS Temperature Compensation Measurement - 75degC LMSR Shift	-0.08 / 0 / 0.08	-0.003387004	
GS_LMSR_SHIFT_TCPS_75C[1] GS Temperature Compensation Measurement - 75degC LMSR Shift	-0.08 / 0 / 0.08	-0.003978997	
GS_LMSR_SHIFT_TCPS_75C[2] GS Temperature Compensation Measurement - 75degC LMSR Shift	-0.08 / 0 / 0.08	-0.0007770061	
GS_LMSR_SHIFT_TCPS_75C[3] GS Temperature Compensation Measurement - 75degC LMSR Shift	-0.08 / 0 / 0.08	-0.001405001	
GS_LMSR_SHIFT_TCPS_75C[4] GS Temperature Compensation Measurement - 75degC LMSR Shift	-0.08 / 0 / 0.08	-0.005061001	
GS_LMSR_SHIFT_TCPS_75C[5] GS Temperature Compensation Measurement - 75degC LMSR Shift	-0.08 / 0 / 0.08	-0.002573997	
GS_LMSR_SHIFT_TCPS_75C[6] GS Temperature Compensation Measurement - 75degC LMSR Shift	-0.08 / 0 / 0.08	-0.01015601	
GS_LMSR_SHIFT_TCPS_75C[7] GS Temperature Compensation Measurement - 75degC LMSR Shift	-0.08 / 0 / 0.08	-0.007057011	
GS_LMSR_SHIFT_TCPS_75C[8] GS Temperature Compensation Measurement -	-0.08 / 0 / 0.08	-0.01442698	

75degC LMSR Shift			
GS_LMSR_SHIFT_TCPS_75C[9] GS Temperature Compensation Measurement - 75degC LMSR Shift	-0.08 / 0 / 0.08	-0.01103801	
GS_LMSR_SHIFT_TCPS_75C[10] GS Temperature Compensation Measurement - 75degC LMSR Shift	-0.08 / 0 / 0.08	-0.004409999	
GS_LMSR_SHIFT_TCPS_75C[11] GS Temperature Compensation Measurement - 75degC LMSR Shift	-0.08 / 0 / 0.08	-0.006886005	
GS_LMSR_SHIFT_TCPS_75C[12] GS Temperature Compensation Measurement - 75degC LMSR Shift	-5 / 0 / 5	-0.01372698	
GS_LMSR_SHIFT_TCPS_75C[13] GS Temperature Compensation Measurement - 75degC LMSR Shift	-5 / 0 / 5	-0.00930801	
GS_LMSR_SHIFT_TCPS_75C[14] GS Temperature Compensation Measurement - 75degC LMSR Shift	-5 / 0 / 5	-0.01218101	
GS_LMSR_SHIFT_TCPS_75C[15] GS Temperature Compensation Measurement - 75degC LMSR Shift	-5 / 0 / 5	-0.0005490184	
FS_LMSR_SHIFT_TCPS_75C[0] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	-0.0004330277	
FS_LMSR_SHIFT_TCPS_75C[1] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	-0.0003280044	
FS_LMSR_SHIFT_TCPS_75C[2] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	-0.001654983	
FS_LMSR_SHIFT_TCPS_75C[3] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	-0.001401961	
FS_LMSR_SHIFT_TCPS_75C[4] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	-0.001618981	
FS_LMSR_SHIFT_TCPS_75C[5] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	0.003038019	
FS_LMSR_SHIFT_TCPS_75C[6] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	7.599592E-05	
FS_LMSR_SHIFT_TCPS_75C[7] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	-0.0006750226	
FS_LMSR_SHIFT_TCPS_75C[8] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	0.001447976	
FS_LMSR_SHIFT_TCPS_75C[9] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	-0.0002769828	
FS_LMSR_SHIFT_TCPS_75C[10] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	-0.001327991	

FS_LMSR_SHIFT_TCPS_75C[11] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	0.003810048	
FS_LMSR_SHIFT_TCPS_75C[12] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	-0.0004469752	
FS_LMSR_SHIFT_TCPS_75C[13] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	0.001065016	
FS_LMSR_SHIFT_TCPS_75C[14] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	0.001721978	
FS_LMSR_SHIFT_TCPS_75C[15] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	0.002144039	
FS_LMSR_SHIFT_TCPS_75C[16] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	0.001982987	
FS_LMSR_SHIFT_TCPS_75C[17] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	-0.0007440448	
FS_LMSR_SHIFT_TCPS_75C[18] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	0.004993975	
FS_LMSR_SHIFT_TCPS_75C[19] FS Temperature Compensation Measurement - 75degC LMSR Shift	-0.04 / 0 / 0.04	0.004292011	

IFA_1 : IFA Master Coefficients - Run 4

Primary Set Components	**Description**	**Tool Element**	**Serial Number**
	InSitu Fluid Analyzer 1	IFA_1	0
	Shop Calibration		
Software Version			
Performed By			
Calibration Facility			
Calibration Dates	**Shop Calibration**		
Date & Time/ Data Validity	8/22/2012 12:56:06 AM		
Calibration Source	File		
Calibration Type	**IFA Master Coefficients**		

Description	**Min/Normal/Max**	**Value**	**Unit**
FL_TEMP_MASTER_RH6 Fluorescence Detector - Rhodamine 6G Temperature	---- / 25 / ----	29.69795	degC
FLIM_MASTER_RH6 Fluorescence Detector - Rhodamine 6G Intensity Monitor	---- / 0 / ----	0.52045	V
RAW_FLR_MASTER_RH6 Fluorescence Detector - Rhodamine 6G Reflection	0 / 0.05 / 0.15	0.06622	V
RAW_FL1_MASTER_RH6 Fluorescence Detector - Rhodamine 6G Channel#1	---- / 0 / ----	0.01413	V
RAW_FL0_MASTER_RH6 Fluorescence Detector - Rhodamine 6G Channel#0	0.02 / 0.05 / 0.1	0.0438	V
FL_TEMP_MASTER_DRY Fluorescence Detector Dry Measurement - Dry	---- / 25 / ----	35.67093	degC

temperature DEGC			
FLIM_MASTER_DRY Fluorescence Detector Dry Measurement - Dry Intensity Monitor	---- / 0 / ----	0.52409	V
RAW_FLR_MASTER_DRY Fluorescence Detector Dry Measurement - Dry Reflection	0.5 / 1.5 / 2.5	1.12699	V
RAW_FL1_MASTER_DRY Fluorescence Detector Dry Measurement - Dry Channel#1	---- / 0 / ----	7E-05	V
RAW_FL0_MASTER_DRY Fluorescence Detector Dry Measurement - Dry Channel#0	0 / 1 / 0.001	0.00014	V
CROSS_CHECK_FS15_GS14_MASTER_OIL FS and GS Cross Check Oil Measurement	-0.015 / 0.005 / 0.025	-0.0008850992	
CROSS_CHECK_FS14_GS11_MASTER_OIL FS and GS Cross Check Oil Measurement	-0.007 / 0.013 / 0.033	0.003684044	
CROSS_CHECK_FS13_GS9_MASTER_OIL FS and GS Cross Check Oil Measurement	0.024 / 0.044 / 0.064	0.03497517	
CROSS_CHECK_FS12_GS7_MASTER_OIL FS and GS Cross Check Oil Measurement	-0.197 / -0.147 / -0.098	-0.1526867	
CROSS_CHECK_FS11_GS5_MASTER_OIL FS and GS Cross Check Oil Measurement	-0.004 / 0.016 / 0.036	0.01617673	
CROSS_CHECK_FS10_GS4_MASTER_OIL FS and GS Cross Check Oil Measurement	-0.019 / 0.001 / 0.021	-0.003096797	
CROSS_CHECK_FS15_GS14_MASTER_WATER FS and GS Cross Check Water Measurement	-0.013 / 0.007 / 0.027	-0.002692014	
CROSS_CHECK_FS14_GS11_MASTER_WATER FS and GS Cross Check Water Measurement	0.003 / 0.023 / 0.043	0.01383212	
CROSS_CHECK_FS13_GS9_MASTER_WATER FS and GS Cross Check Water Measurement	-0.023 / -0.003 / 0.017	-0.005571872	
CROSS_CHECK_FS12_GS7_MASTER_WATER FS and GS Cross Check Water Measurement	-0.023 / -0.003 / 0.017	-0.007971793	
CROSS_CHECK_FS11_GS5_MASTER_WATER FS and GS Cross Check Water Measurement	-0.022 / -0.002 / 0.018	-0.006988287	
CROSS_CHECK_FS10_GS4_MASTER_WATER FS and GS Cross Check Water Measurement	-0.018 / 0.002 / 0.022	-0.004644364	
GS_NORM_OD_MASTER_OIL[0] GS Master Calibration Oil OD Nomalized by FS9	-0.033 / -0.003 / 0.027	-0.001503864	
GS_NORM_OD_MASTER_OIL[1] GS Master Calibration Oil OD Nomalized by FS9	0 / 0 / 0	0	
GS_NORM_OD_MASTER_OIL[2] GS Master Calibration Oil OD Nomalized by FS9	-0.022 / 0.008 / 0.038	0.01024267	
GS_NORM_OD_MASTER_OIL[3] GS Master Calibration Oil OD Nomalized by FS9	-0.01 / 0.02 / 0.05	0.02179476	
GS_NORM_OD_MASTER_OIL[4] GS Master Calibration Oil OD Nomalized by FS9	0 / 0.03 / 0.06	0.03415338	
GS_NORM_OD_MASTER_OIL[5] GS Master Calibration Oil OD Nomalized by FS9	0.03 / 0.06 / 0.09	0.06359967	
GS_NORM_OD_MASTER_OIL[6] GS Master Calibration Oil OD Nomalized by FS9	0.137 / 0.167 / 0.197	0.1732324	
GS_NORM_OD_MASTER_OIL[7] GS Master Calibration Oil OD Nomalized by FS9	0.419 / 0.469 / 0.519	0.4689245	

GS_NORM_OD_MASTER_OIL[8] GS Master Calibration Oil OD Nomalized by FS9	0.673 / 0.703 / 0.733	0.6738647	
GS_NORM_OD_MASTER_OIL[9] GS Master Calibration Oil OD Nomalized by FS9	0.752 / 0.782 / 0.812	0.7421235	
GS_NORM_OD_MASTER_OIL[10] GS Master Calibration Oil OD Nomalized by FS9	0.559 / 0.589 / 0.619	0.5570326	
GS_NORM_OD_MASTER_OIL[11] GS Master Calibration Oil OD Nomalized by FS9	0.537 / 0.567 / 0.597	0.5450111	
GS_NORM_OD_MASTER_OIL[12] GS Master Calibration Oil OD Nomalized by FS9	0.436 / 0.466 / 0.496	0.4343161	
GS_NORM_OD_MASTER_OIL[13] GS Master Calibration Oil OD Nomalized by FS9	0.29 / 0.32 / 0.35	0.2992104	
GS_NORM_OD_MASTER_OIL[14] GS Master Calibration Oil OD Nomalized by FS9	0.257 / 0.287 / 0.317	0.2781226	
GS_NORM_OD_MASTER_OIL[15] GS Master Calibration Oil OD Nomalized by FS9	0.256 / 0.286 / 0.316	0.2785	
FS_NORM_OD_MASTER_OIL[0] FS Master Calibration Oil OD Nomalized by FS9	-0.056 / -0.026 / 0.004	-0.01250903	
FS_NORM_OD_MASTER_OIL[1] FS Master Calibration Oil OD Nomalized by FS9	-0.058 / -0.028 / 0.002	-0.02390397	
FS_NORM_OD_MASTER_OIL[2] FS Master Calibration Oil OD Nomalized by FS9	-0.058 / -0.028 / 0.002	-0.02531403	
FS_NORM_OD_MASTER_OIL[3] FS Master Calibration Oil OD Nomalized by FS9	-0.057 / -0.027 / 0.003	-0.02589542	
FS_NORM_OD_MASTER_OIL[4] FS Master Calibration Oil OD Nomalized by FS9	-0.056 / -0.026 / 0.004	-0.02659089	
FS_NORM_OD_MASTER_OIL[5] FS Master Calibration Oil OD Nomalized by FS9	-0.051 / -0.021 / 0.009	-0.02216542	
FS_NORM_OD_MASTER_OIL[6] FS Master Calibration Oil OD Nomalized by FS9	-0.042 / -0.012 / 0.018	-0.01155875	
FS_NORM_OD_MASTER_OIL[7] FS Master Calibration Oil OD Nomalized by FS9	0.014 / 0.044 / 0.074	0.04141315	
FS_NORM_OD_MASTER_OIL[8] FS Master Calibration Oil OD Nomalized by FS9	-0.018 / 0.012 / 0.042	0.01073311	
FS_NORM_OD_MASTER_OIL[9] FS Master Calibration Oil OD Nomalized by FS9	0 / 0 / 0	0	
FS_NORM_OD_MASTER_OIL[10] FS Master Calibration Oil OD Nomalized by FS9	0.001 / 0.031 / 0.061	0.03105658	
FS_NORM_OD_MASTER_OIL[11] FS Master Calibration Oil OD Nomalized by FS9	0.046 / 0.076 / 0.106	0.0797764	
FS_NORM_OD_MASTER_OIL[12] FS Master Calibration Oil OD Nomalized by FS9	0.272 / 0.322 / 0.372	0.3162377	
FS_NORM_OD_MASTER_OIL[13] FS Master Calibration Oil OD Nomalized by FS9	0.796 / 0.826 / 0.856	0.7770987	
FS_NORM_OD_MASTER_OIL[14] FS Master Calibration Oil OD Nomalized by FS9	0.55 / 0.58 / 0.61	0.5486951	
FS_NORM_OD_MASTER_OIL[15] FS Master Calibration Oil OD Nomalized by FS9	0.262 / 0.292 / 0.322	0.2772375	
FS_NORM_OD_MASTER_OIL[16] FS Master Calibration Oil OD Nomalized by FS9	0.145 / 0.175 / 0.205	0.1632253	
FS_NORM_OD_MASTER_OIL[17] FS Master Calibration Oil OD Nomalized by FS9	0.131 / 0.161 / 0.191	0.1509213	

FS_NORM_OD_MASTER_OIL[18] FS Master Calibration Oil OD Nomalized by FS9	0.126 / 0.156 / 0.186	0.1457373	
FS_NORM_OD_MASTER_OIL[19] FS Master Calibration Oil OD Nomalized by FS9	0.113 / 0.143 / 0.173	0.1327714	
GS_OIL_ABS_COEFF[0] GS Master Calibration Oil Absorption Coefficient	-1 / -0.035 / 5	-0.008605629	
GS_OIL_ABS_COEFF[1] GS Master Calibration Oil Absorption Coefficient	-0.052 / -0.032 / -0.012	-0.007101765	
GS_OIL_ABS_COEFF[2] GS Master Calibration Oil Absorption Coefficient	-1 / -0.024 / 5	0.003140902	
GS_OIL_ABS_COEFF[3] GS Master Calibration Oil Absorption Coefficient	-1 / -0.012 / 5	0.014693	
GS_OIL_ABS_COEFF[4] GS Master Calibration Oil Absorption Coefficient	-1 / -0.002 / 5	0.02705161	
GS_OIL_ABS_COEFF[5] GS Master Calibration Oil Absorption Coefficient	-1 / 0.028 / 5	0.0564979	
GS_OIL_ABS_COEFF[6] GS Master Calibration Oil Absorption Coefficient	-1 / 0.135 / 5	0.1661306	
GS_OIL_ABS_COEFF[7] GS Master Calibration Oil Absorption Coefficient	-1 / 0.437 / 5	0.4618227	
GS_OIL_ABS_COEFF[8] GS Master Calibration Oil Absorption Coefficient	-1 / 0.671 / 5	0.6667629	
GS_OIL_ABS_COEFF[9] GS Master Calibration Oil Absorption Coefficient	-1 / 0.75 / 5	0.7350218	
GS_OIL_ABS_COEFF[10] GS Master Calibration Oil Absorption Coefficient	-1 / 0.557 / 5	0.5499308	
GS_OIL_ABS_COEFF[11] GS Master Calibration Oil Absorption Coefficient	-1 / 0.535 / 5	0.5379093	
GS_OIL_ABS_COEFF[12] GS Master Calibration Oil Absorption Coefficient	-1 / 0.434 / 5	0.4272144	
GS_OIL_ABS_COEFF[13] GS Master Calibration Oil Absorption Coefficient	-1 / 0.288 / 5	0.2921086	
GS_OIL_ABS_COEFF[14] GS Master Calibration Oil Absorption Coefficient	-1 / 0.255 / 5	0.2710209	
GS_OIL_ABS_COEFF[15] GS Master Calibration Oil Absorption Coefficient	-1 / 0.254 / 5	0.2713982	
FS_OIL_ABS_COEFF[0] FS Master Calibration Oil Absorption Coefficient	-1 / -0.066 / 5	-0.02574412	
FS_OIL_ABS_COEFF[1] FS Master Calibration Oil Absorption Coefficient	-1 / -0.068 / 5	-0.03713907	
FS_OIL_ABS_COEFF[2] FS Master Calibration Oil Absorption Coefficient	-1 / -0.068 / 5	-0.03854913	
FS_OIL_ABS_COEFF[3] FS Master Calibration Oil Absorption Coefficient	-1 / 0.067 / 5	-0.03913052	
FS_OIL_ABS_COEFF[4] FS Master Calibration Oil Absorption Coefficient	-1 / -0.066 / 5	-0.03982598	
FS_OIL_ABS_COEFF[5] FS Master Calibration Oil Absorption Coefficient	-1 / 0.061 / 5	-0.03540051	
FS_OIL_ABS_COEFF[6] FS Master Calibration Oil Absorption Coefficient	-1 / -0.052 / 5	-0.02479384	
FS_OIL_ABS_COEFF[7] FS Master Calibration Oil Absorption Coefficient	-1 / 0.004 / 5	0.02817805	

FS_OIL_ABS_COEFF[8] FS Master Calibration Oil Absorption Coefficient	-1 / -0.028 / 5	-0.002501988	
FS_OIL_ABS_COEFF[9] FS Master Calibration Oil Absorption Coefficient	-0.06 / -0.04 / -0.02	-0.01323509	
FS_OIL_ABS_COEFF[10] FS Master Calibration Oil Absorption Coefficient	-1 / -0.009 / 5	0.01782148	
FS_OIL_ABS_COEFF[11] FS Master Calibration Oil Absorption Coefficient	-1 / 0.036 / 5	0.06654131	
FS_OIL_ABS_COEFF[12] FS Master Calibration Oil Absorption Coefficient	-1 / 0.282 / 5	0.3030027	
FS_OIL_ABS_COEFF[13] FS Master Calibration Oil Absorption Coefficient	-1 / 0.786 / 5	0.7638636	
FS_OIL_ABS_COEFF[14] FS Master Calibration Oil Absorption Coefficient	-1 / 0.54 / 5	0.5354601	
FS_OIL_ABS_COEFF[15] FS Master Calibration Oil Absorption Coefficient	-1 / 0.252 / 5	0.2640024	
FS_OIL_ABS_COEFF[16] FS Master Calibration Oil Absorption Coefficient	-1 / 0.135 / 5	0.1499902	
FS_OIL_ABS_COEFF[17] FS Master Calibration Oil Absorption Coefficient	-1 / 0.121 / 5	0.1376863	
FS_OIL_ABS_COEFF[18] FS Master Calibration Oil Absorption Coefficient	-1 / 0.116 / 5	0.1325022	
FS_OIL_ABS_COEFF[19] FS Master Calibration Oil Absorption Coefficient	-1 / 0.103 / 5	0.1195363	
GS_NORM_OD_MASTER_WATER[0] GS Master Calibration Water OD Mornalized by GS6	0.141 / 0.191 / 0.241	0.1624221	
GS_NORM_OD_MASTER_WATER[1] GS Master Calibration Water OD Mornalized by GS6	0.086 / 0.136 / 0.186	0.1088139	
GS_NORM_OD_MASTER_WATER[2] GS Master Calibration Water OD Mornalized by GS6	0.037 / 0.087 / 0.137	0.06632191	
GS_NORM_OD_MASTER_WATER[3] GS Master Calibration Water OD Mornalized by GS6	0.001 / 0.051 / 0.101	0.0374108	
GS_NORM_OD_MASTER_WATER[4] GS Master Calibration Water OD Mornalized by GS6	-0.025 / 0.025 / 0.075	0.01543117	
GS_NORM_OD_MASTER_WATER[5] GS Master Calibration Water OD Mornalized by GS6	-0.043 / 0.007 / 0.057	0.001656771	
GS_NORM_OD_MASTER_WATER[6] GS Master Calibration Water OD Mornalized by GS6	0 / 0 / 0	0	
GS_NORM_OD_MASTER_WATER[7] GS Master Calibration Water OD Mornalized by GS6	-0.047 / 0.003 / 0.053	0.007971793	
GS_NORM_OD_MASTER_WATER[8] GS Master Calibration Water OD Mornalized by GS6	-0.032 / 0.018 / 0.068	0.02971134	
GS_NORM_OD_MASTER_WATER[9] GS Master Calibration Water OD Mornalized by GS6	-0.001 / 0.049 / 0.099	0.06325108	
GS_NORM_OD_MASTER_WATER[10] GS Master Calibration Water OD Mornalized by GS6	0.05 / 0.1 / 0.15	0.1233948	
GS_NORM_OD_MASTER_WATER[11] GS Master Calibration Water OD Mornalized by GS6	0.121 / 0.171 / 0.221	0.2031257	
GS_NORM_OD_MASTER_WATER[12] GS Master Calibration Water OD Mornalized by GS6	0.191 / 0.241 / 0.291	0.2774153	
GS_NORM_OD_MASTER_WATER[13] GS Master Calibration Water OD Mornalized by GS6	0.231 / 0.281 / 0.331	0.3252581	

GS_NORM_OD_MASTER_WATER[14] GS Master Calibration Water OD Mornalized by GS6	0.238 / 0.288 / 0.338	0.3453358	
GS_NORM_OD_MASTER_WATER[15] GS Master Calibration Water OD Mornalized by GS6	0.236 / 0.386 / 0.336	0.3546816	
FS_NORM_OD_MASTER_WATER[0] FS Master Calibration Water OD Normalized by FS5	-0.048 / -0.018 / 0.012	-0.01867193	
FS_NORM_OD_MASTER_WATER[1] FS Master Calibration Water OD Normalized by FS5	-0.047 / -0.017 / 0.013	-0.01798731	
FS_NORM_OD_MASTER_WATER[2] FS Master Calibration Water OD Normalized by FS5	-0.046 / -0.016 / -0.014	-0.01670081	
FS_NORM_OD_MASTER_WATER[3] FS Master Calibration Water OD Normalized by FS5	-0.045 / -0.015 / 0.015	-0.01638707	
FS_NORM_OD_MASTER_WATER[4] FS Master Calibration Water OD Normalized by FS5	-0.043 / -0.013 / 0.017	-0.01427692	
FS_NORM_OD_MASTER_WATER[5] FS Master Calibration Water OD Normalized by FS5	0 / 0 / 0	0	
FS_NORM_OD_MASTER_WATER[6] FS Master Calibration Water OD Normalized by FS5	0.072 / 0.102 / 0.132	0.1022256	
FS_NORM_OD_MASTER_WATER[7] FS Master Calibration Water OD Normalized by FS5	2.583 / 2.723 / 2.863	2.623569	
FS_NORM_OD_MASTER_WATER[8] FS Master Calibration Water OD Normalized by FS5	1.686 / 1.876 / 2.066	1.660383	
FS_NORM_OD_MASTER_WATER[9] FS Master Calibration Water OD Normalized by FS5	0.572 / 0.672 / 0.772	0.5957517	
FS_NORM_OD_MASTER_WATER[10] FS Master Calibration Water OD Normalized by FS5	0.438 / 0.538 / 0.638	0.4845153	
FS_NORM_OD_MASTER_WATER[11] FS Master Calibration Water OD Normalized by FS5	0.416 / 0.516 / 0.616	0.468397	
FS_NORM_OD_MASTER_WATER[12] FS Master Calibration Water OD Normalized by FS5	0.411 / 0.511 / 0.611	0.4737285	
FS_NORM_OD_MASTER_WATER[13] FS Master Calibration Water OD Normalized by FS5	0.457 / 0.557 / 0.657	0.5314077	
FS_NORM_OD_MASTER_WATER[14] FS Master Calibration Water OD Normalized by FS5	0.605 / 0.705 / 0.805	0.6906863	
FS_NORM_OD_MASTER_WATER[15] FS Master Calibration Water OD Normalized by FS5	0.707 / 0.807 / 0.907	0.8163723	
FS_NORM_OD_MASTER_WATER[16] FS Master Calibration Water OD Normalized by FS5	3 / 5 / 5	3.615153	
FS_NORM_OD_MASTER_WATER[17] FS Master Calibration Water OD Normalized by FS5	3 / 5 / 5	3.632506	
FS_NORM_OD_MASTER_WATER[18] FS Master Calibration Water OD Normalized by FS5	3 / 5 / 5	3.737584	
FS_NORM_OD_MASTER_WATER[19] FS Master Calibration Water OD Normalized by FS5	3 / 5 / 5	3.57566	
GS_WATER_ABS_COEFF[0] GS Master Calibration Water Absorption Coefficient	-1 / 0.671 / 5	0.6087627	
GS_WATER_ABS_COEFF[1] GS Master Calibration Water Absorption Coefficient	-1 / 0.616 / 5	0.5551546	
GS_WATER_ABS_COEFF[2] GS Master Calibration Water Absorption Coefficient	-1 / 0.567 / 5	0.5126625	
GS_WATER_ABS_COEFF[3] GS Master Calibration Water Absorption Coefficient	-1 / 0.531 / 5	0.4837514	

GS_WATER_ABS_COEFF[4] GS Master Calibration Water Absorption Coefficient	-1 / 0.505 / 5	0.4617718	
GS_WATER_ABS_COEFF[5] GS Master Calibration Water Absorption Coefficient	-1 / 0.487 / 5	0.4479974	
GS_WATER_ABS_COEFF[6] GS Master Calibration Water Absorption Coefficient	0.43 / 0.48 / 0.53	0.4463406	
GS_WATER_ABS_COEFF[7] GS Master Calibration Water Absorption Coefficient	-1 / 0.483 / 5	0.4543124	
GS_WATER_ABS_COEFF[8] GS Master Calibration Water Absorption Coefficient	-1 / 0.498 / 5	0.476052	
GS_WATER_ABS_COEFF[9] GS Master Calibration Water Absorption Coefficient	-1 / 0.529 / 5	0.5095917	
GS_WATER_ABS_COEFF[10] GS Master Calibration Water Absorption Coefficient	-1 / 0.58 / 5	0.5697355	
GS_WATER_ABS_COEFF[11] GS Master Calibration Water Absorption Coefficient	-1 / 0.651 / 5	0.6494663	
GS_WATER_ABS_COEFF[12] GS Master Calibration Water Absorption Coefficient	-1 / 0.721 / 5	0.7237559	
GS_WATER_ABS_COEFF[13] GS Master Calibration Water Absorption Coefficient	-1 / 0.761 / 5	0.7715988	
GS_WATER_ABS_COEFF[14] GS Master Calibration Water Absorption Coefficient	-1 / 0.768 / 5	0.7916764	
GS_WATER_ABS_COEFF[15] GS Master Calibration Water Absorption Coefficient	-1 / 0.766 / 5	0.8010222	
FS_WATER_ABS_COEFF[0] FS Master Calibration Water Absorption Coefficient	-1 / -0.053 / 5	-0.0403601	
FS_WATER_ABS_COEFF[1] FS Master Calibration Water Absorption Coefficient	-1 / -0.052 / 5	-0.03967548	
FS_WATER_ABS_COEFF[2] FS Master Calibration Water Absorption Coefficient	-1 / -0.051 / 5	-0.03838897	
FS_WATER_ABS_COEFF[3] FS Master Calibration Water Absorption Coefficient	-1 / -0.05 / 5	-0.03807524	
FS_WATER_ABS_COEFF[4] FS Master Calibration Water Absorption Coefficient	-1 / -0.048 / 5	-0.03596509	
FS_WATER_ABS_COEFF[5] FS Master Calibration Water Absorption Coefficient	-0.055 / -0.035 / -0.015	-0.02168817	
FS_WATER_ABS_COEFF[6] FS Master Calibration Water Absorption Coefficient	-1 / 0.067 / 5	0.08053745	
FS_WATER_ABS_COEFF[7] FS Master Calibration Water Absorption Coefficient	-1 / 2.688 / 5	2.601881	
FS_WATER_ABS_COEFF[8] FS Master Calibration Water Absorption Coefficient	-1 / 1.841 / 5	1.638695	
FS_WATER_ABS_COEFF[9] FS Master Calibration Water Absorption Coefficient	-1 / 0.637 / 5	0.5740635	
FS_WATER_ABS_COEFF[10] FS Master Calibration Water Absorption Coefficient	-1 / 0.503 / 5	0.4628271	
FS_WATER_ABS_COEFF[11] FS Master Calibration Water Absorption Coefficient	-1 / 0.481 / 5	0.4467088	
FS_WATER_ABS_COEFF[12] FS Master Calibration Water Absorption Coefficient	-1 / 0.467 / 5	0.4520403	
FS_WATER_ABS_COEFF[13] FS Master Calibration Water Absorption Coefficient	-1 / 0.522 / 5	0.5097196	

FS_WATER_ABS_COEFF[14] FS Master Calibration Water Absorption Coefficient	-1 / 0.67 / 5	0.6689981	
FS_WATER_ABS_COEFF[15] FS Master Calibration Water Absorption Coefficient	-1 / 0.722 / 5	0.7946841	
FS_WATER_ABS_COEFF[16] FS Master Calibration Water Absorption Coefficient	-1 / 5 / 5	3.593464	
FS_WATER_ABS_COEFF[17] FS Master Calibration Water Absorption Coefficient	-1 / 5 / 5	3.610818	
FS_WATER_ABS_COEFF[18] FS Master Calibration Water Absorption Coefficient	-1 / 5 / 5	3.715896	
FS_WATER_ABS_COEFF[19] FS Master Calibration Water Absorption Coefficient	-1 / 5 / 5	3.553972	
GS_LMSR_MASTER_DRY[0] GS Dry LMSR	---- / 0 / ----	-0.475583	
GS_LMSR_MASTER_DRY[1] GS Dry LMSR	---- / 0 / ----	-0.469061	
GS_LMSR_MASTER_DRY[2] GS Dry LMSR	---- / 0 / ----	-0.474873	
GS_LMSR_MASTER_DRY[3] GS Dry LMSR	---- / 0 / ----	-0.470346	
GS_LMSR_MASTER_DRY[4] GS Dry LMSR	---- / 0 / ----	-0.46733	
GS_LMSR_MASTER_DRY[5] GS Dry LMSR	---- / 0 / ----	-0.462452	
GS_LMSR_MASTER_DRY[6] GS Dry LMSR	---- / 0 / ----	-0.466234	
GS_LMSR_MASTER_DRY[7] GS Dry LMSR	---- / 0 / ----	-0.468101	
GS_LMSR_MASTER_DRY[8] GS Dry LMSR	---- / 0 / ----	-0.470227	
GS_LMSR_MASTER_DRY[9] GS Dry LMSR	---- / 0 / ----	-0.474409	
GS_LMSR_MASTER_DRY[10] GS Dry LMSR	---- / 0 / ----	-0.484185	
GS_LMSR_MASTER_DRY[11] GS Dry LMSR	---- / 0 / ----	-0.480739	
GS_LMSR_MASTER_DRY[12] GS Dry LMSR	---- / 0 / ----	-0.475351	
GS_LMSR_MASTER_DRY[13] GS Dry LMSR	---- / 0 / ----	-0.478413	
GS_LMSR_MASTER_DRY[14] GS Dry LMSR	---- / 0 / ----	-0.487094	
GS_LMSR_MASTER_DRY[15] GS Dry LMSR	---- / 0 / ----	-0.494733	
GS_MEAS_MASTER_DRY[0] GS Dry Master Calibration - Measure Mode	0.01 / 0.05 / 0.2	0.09164	V
GS_MEAS_MASTER_DRY[1] GS Dry Master Calibration - Measure Mode	0.01 / 0.05 / 0.2	0.10052	V
GS_MEAS_MASTER_DRY[2] GS Dry Master Calibration - Measure Mode	0.01 / 0.05 / 0.2	0.10281	V
GS_MEAS_MASTER_DRY[3] GS Dry Master Calibration - Measure Mode	0.01 / 0.05 / 0.2	0.09425	V

GS_MEAS_MASTER_DRY[4] GS Dry Master Calibration - Measure Mode	0.01 / 0.05 / 0.2	0.09234	V
GS_MEAS_MASTER_DRY[5] GS Dry Master Calibration - Measure Mode	0.01 / 0.05 / 0.2	0.08355	V
GS_MEAS_MASTER_DRY[6] GS Dry Master Calibration - Measure Mode	0.01 / 0.05 / 0.2	0.08045	V
GS_MEAS_MASTER_DRY[7] GS Dry Master Calibration - Measure Mode	0.01 / 0.05 / 0.2	0.07155	V
GS_MEAS_MASTER_DRY[8] GS Dry Master Calibration - Measure Mode	0.01 / 0.05 / 0.2	0.06659	V
GS_MEAS_MASTER_DRY[9] GS Dry Master Calibration - Measure Mode	0.01 / 0.05 / 0.2	0.06348	V
GS_MEAS_MASTER_DRY[10] GS Dry Master Calibration - Measure Mode	0.01 / 0.05 / 0.2	0.05783	V
GS_MEAS_MASTER_DRY[11] GS Dry Master Calibration - Measure Mode	0.002 / 0.02 / 0.2	0.05334	V
GS_MEAS_MASTER_DRY[12] GS Dry Master Calibration - Measure Mode	0.002 / 0.02 / 0.2	0.04739	V
GS_MEAS_MASTER_DRY[13] GS Dry Master Calibration - Measure Mode	0.002 / 0.02 / 0.2	0.03114	V
GS_MEAS_MASTER_DRY[14] GS Dry Master Calibration - Measure Mode	0.002 / 0.02 / 0.2	0.01498	V
GS_MEAS_MASTER_DRY[15] GS Dry Master Calibration - Measure Mode	0.001 / 0.01 / 0.2	0.0031	V
GS_SRCE_MASTER_DRY[0] GS Dry Master Calibration - Source Mode	0.001 / 0.01 / 0.1	0.02397	V
GS_SRCE_MASTER_DRY[1] GS Dry Master Calibration - Source Mode	0.001 / 0.01 / 0.1	0.02847	V
GS_SRCE_MASTER_DRY[2] GS Dry Master Calibration - Source Mode	0.001 / 0.01 / 0.1	0.03202	V
GS_SRCE_MASTER_DRY[3] GS Dry Master Calibration - Source Mode	0.001 / 0.01 / 0.1	0.0266	V
GS_SRCE_MASTER_DRY[4] GS Dry Master Calibration - Source Mode	0.001 / 0.01 / 0.1	0.0281	V
GS_SRCE_MASTER_DRY[5] GS Dry Master Calibration - Source Mode	0.001 / 0.01 / 0.1	0.02314	V
GS_SRCE_MASTER_DRY[6] GS Dry Master Calibration - Source Mode	0.001 / 0.01 / 0.1	0.02299	V
GS_SRCE_MASTER_DRY[7] GS Dry Master Calibration - Source Mode	0.001 / 0.01 / 0.1	0.01786	V
GS_SRCE_MASTER_DRY[8] GS Dry Master Calibration - Source Mode	0.001 / 0.01 / 0.1	0.01658	V
GS_SRCE_MASTER_DRY[9] GS Dry Master Calibration - Source Mode	0.001 / 0.01 / 0.1	0.01666	V
GS_SRCE_MASTER_DRY[10] GS Dry Master Calibration - Source Mode	0.001 / 0.01 / 0.1	0.01375	V
GS_SRCE_MASTER_DRY[11] GS Dry Master Calibration - Source Mode	0.001 / 0.01 / 0.1	0.01331	V
GS_SRCE_MASTER_DRY[12] GS Dry Master Calibration - Source Mode	0.001 / 0.01 / 0.1	0.01273	V
GS_SRCE_MASTER_DRY[13] GS Dry Master Calibration - Source Mode	0.001 / 0.01 / 0.1	0.00547	V

GS_SRCE_MASTER_DRY[14] GS Dry Master Calibration - Source Mode	0.0005 / 0.01 / 0.1	0.00077	V
GS_SRCE_MASTER_DRY[15] GS Dry Master Calibration - Source Mode	0.0005 / 0.01 / 0.1	-0.00357	V
GS_DARK_MASTER_DRY[0] GS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.01005	V
GS_DARK_MASTER_DRY[1] GS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00858	V
GS_DARK_MASTER_DRY[2] GS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00366	V
GS_DARK_MASTER_DRY[3] GS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00803	V
GS_DARK_MASTER_DRY[4] GS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00513	V
GS_DARK_MASTER_DRY[5] GS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00865	V
GS_DARK_MASTER_DRY[6] GS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00685	V
GS_DARK_MASTER_DRY[7] GS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00984	V
GS_DARK_MASTER_DRY[8] GS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00902	V
GS_DARK_MASTER_DRY[9] GS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00697	V
GS_DARK_MASTER_DRY[10] GS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00776	V
GS_DARK_MASTER_DRY[11] GS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00645	V
GS_DARK_MASTER_DRY[12] GS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00471	V
GS_DARK_MASTER_DRY[13] GS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.0073	V
GS_DARK_MASTER_DRY[14] GS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00609	V
GS_DARK_MASTER_DRY[15] GS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00671	V
FS_LMSR_MASTER_DRY[0] FS Dry LMSR	---- / 0 / ----	-0.561566	
FS_LMSR_MASTER_DRY[1] FS Dry LMSR	---- / 0 / ----	-0.525059	
FS_LMSR_MASTER_DRY[2] FS Dry LMSR	---- / 0 / ----	-0.563849	
FS_LMSR_MASTER_DRY[3] FS Dry LMSR	---- / 0 / ----	-0.559971	
FS_LMSR_MASTER_DRY[4] FS Dry LMSR	---- / 0 / ----	-0.589386	
FS_LMSR_MASTER_DRY[5] FS Dry LMSR	---- / 0 / ----	-0.462914	
FS_LMSR_MASTER_DRY[6] FS Dry LMSR	---- / 0 / ----	-0.594801	
FS_LMSR_MASTER_DRY[7] FS Dry LMSR	---- / 0 / ----	-0.586618	

FS_LMSR_MASTER_DRY[8] FS Dry LMSR	---- / 0 / ----	-0.551056	
FS_LMSR_MASTER_DRY[9] FS Dry LMSR	---- / 0 / ----	-0.531067	
FS_LMSR_MASTER_DRY[10] FS Dry LMSR	---- / 0 / ----	-0.519752	
FS_LMSR_MASTER_DRY[11] FS Dry LMSR	---- / 0 / ----	-0.544095	
FS_LMSR_MASTER_DRY[12] FS Dry LMSR	---- / 0 / ----	-0.593404	
FS_LMSR_MASTER_DRY[13] FS Dry LMSR	---- / 0 / ----	-0.636417	
FS_LMSR_MASTER_DRY[14] FS Dry LMSR	---- / 0 / ----	-0.584934	
FS_LMSR_MASTER_DRY[15] FS Dry LMSR	---- / 0 / ----	-0.644384	
FS_LMSR_MASTER_DRY[16] FS Dry LMSR	---- / 0 / ----	-0.663225	
FS_LMSR_MASTER_DRY[17] FS Dry LMSR	---- / 0 / ----	-0.73493	
FS_LMSR_MASTER_DRY[18] FS Dry LMSR	---- / 0 / ----	-0.692569	
FS_LMSR_MASTER_DRY[19] FS Dry LMSR	---- / 0 / ----	-0.823526	
FS_MEAS_MASTER_DRY[0] FS Dry Master Calibration - Measure Mode	0.005 / 0.02 / 1.8	0.02853	V
FS_MEAS_MASTER_DRY[1] FS Dry Master Calibration - Measure Mode	0.1 / 0.5 / 1.8	0.82498	V
FS_MEAS_MASTER_DRY[2] FS Dry Master Calibration - Measure Mode	0.1 / 0.5 / 1.8	0.83657	V
FS_MEAS_MASTER_DRY[3] FS Dry Master Calibration - Measure Mode	0.1 / 0.5 / 1.8	1.02539	V
FS_MEAS_MASTER_DRY[4] FS Dry Master Calibration - Measure Mode	0.1 / 0.5 / 1.8	0.97403	V
FS_MEAS_MASTER_DRY[5] FS Dry Master Calibration - Measure Mode	0.1 / 0.5 / 1.8	0.56465	V
FS_MEAS_MASTER_DRY[6] FS Dry Master Calibration - Measure Mode	0.1 / 0.5 / 1.8	0.74495	V
FS_MEAS_MASTER_DRY[7] FS Dry Master Calibration - Measure Mode	0.1 / 0.5 / 1.8	0.69623	V
FS_MEAS_MASTER_DRY[8] FS Dry Master Calibration - Measure Mode	0.1 / 0.5 / 1.8	0.53376	V
FS_MEAS_MASTER_DRY[9] FS Dry Master Calibration - Measure Mode	0.1 / 0.5 / 1.8	0.51458	V
FS_MEAS_MASTER_DRY[10] FS Dry Master Calibration - Measure Mode	0.1 / 0.5 / 1.8	0.99154	V
FS_MEAS_MASTER_DRY[11] FS Dry Master Calibration - Measure Mode	0.1 / 0.5 / 1.8	0.59668	V
FS_MEAS_MASTER_DRY[12] FS Dry Master Calibration - Measure Mode	0.1 / 0.5 / 1.8	1.02986	V
FS_MEAS_MASTER_DRY[13] FS Dry Master Calibration - Measure Mode	0.1 / 0.5 / 1.8	0.97399	V

FS_MEAS_MASTER_DRY[14] FS Dry Master Calibration - Measure Mode	0.1 / 0.5 / 1.8	0.9107	V
FS_MEAS_MASTER_DRY[15] FS Dry Master Calibration - Measure Mode	0.1 / 0.5 / 1.8	1.14906	V
FS_MEAS_MASTER_DRY[16] FS Dry Master Calibration - Measure Mode	0.02 / 0.2 / 1.8	0.69708	V
FS_MEAS_MASTER_DRY[17] FS Dry Master Calibration - Measure Mode	0.02 / 0.2 / 1.8	0.24668	V
FS_MEAS_MASTER_DRY[18] FS Dry Master Calibration - Measure Mode	0.02 / 0.2 / 1.8	0.2697	V
FS_MEAS_MASTER_DRY[19] FS Dry Master Calibration - Measure Mode	0.02 / 0.2 / 1.8	0.22222	V
FS_SRCE_MASTER_DRY[0] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.00738	V
FS_SRCE_MASTER_DRY[1] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.24536	V
FS_SRCE_MASTER_DRY[2] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.22591	V
FS_SRCE_MASTER_DRY[3] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.28057	V
FS_SRCE_MASTER_DRY[4] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.24792	V
FS_SRCE_MASTER_DRY[5] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.19199	V
FS_SRCE_MASTER_DRY[6] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.18616	V
FS_SRCE_MASTER_DRY[7] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.17728	V
FS_SRCE_MASTER_DRY[8] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.14781	V
FS_SRCE_MASTER_DRY[9] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.14859	V
FS_SRCE_MASTER_DRY[10] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.29715	V
FS_SRCE_MASTER_DRY[11] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.16857	V
FS_SRCE_MASTER_DRY[12] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.2595	V
FS_SRCE_MASTER_DRY[13] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.22344	V
FS_SRCE_MASTER_DRY[14] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.23576	V
FS_SRCE_MASTER_DRY[15] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.25933	V
FS_SRCE_MASTER_DRY[16] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.151	V
FS_SRCE_MASTER_DRY[17] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.04467	V
FS_SRCE_MASTER_DRY[18] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.05351	V
FS_SRCE_MASTER_DRY[19] FS Dry Master Calibration - Source Mode	0.001 / 0.01 / 1.8	0.03155	V

FS_DARK_MASTER_DRY[0] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00061	V
FS_DARK_MASTER_DRY[1] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00127	V
FS_DARK_MASTER_DRY[2] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.0034	V
FS_DARK_MASTER_DRY[3] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00258	V
FS_DARK_MASTER_DRY[4] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00376	V
FS_DARK_MASTER_DRY[5] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00378	V
FS_DARK_MASTER_DRY[6] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00432	V
FS_DARK_MASTER_DRY[7] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00416	V
FS_DARK_MASTER_DRY[8] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00314	V
FS_DARK_MASTER_DRY[9] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00411	V
FS_DARK_MASTER_DRY[10] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00352	V
FS_DARK_MASTER_DRY[11] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00265	V
FS_DARK_MASTER_DRY[12] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00423	V
FS_DARK_MASTER_DRY[13] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00199	V
FS_DARK_MASTER_DRY[14] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00145	V
FS_DARK_MASTER_DRY[15] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00163	V
FS_DARK_MASTER_DRY[16] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00048	V
FS_DARK_MASTER_DRY[17] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00092	V
FS_DARK_MASTER_DRY[18] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00154	V
FS_DARK_MASTER_DRY[19] FS Dry Master Calibration - Dark Mode	-0.02 / 0 / 0.02	-0.00213	V

PQ_2 : Quartz Gauge Calibration - Run 4

Primary Set Components	**Description**	**Tool Element**	**Serial Number**
	Quick Probe Module (MRPQ) 2	PQ_2	0
	Shop Calibration		
Software Version			
Performed By			
Calibration Facility			
Calibration Dates	**Shop Calibration**		
Date & Time/ Data Validity	120612		
Calibration Source	File		

Calibration Type	Quartz Gauge Calibration		
Description	**Min/Normal/Max**	**Value**	**Unit**
QGPRCOEF[0 , 0] Quartz Gauge Pressure Coefficients	---- / ---- / ----	7012.385	
QGPRCOEF[0 , 1] Quartz Gauge Pressure Coefficients	---- / ---- / ----	0.01479822	
QGPRCOEF[0 , 2] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-1.590775E-07	
QGPRCOEF[0 , 3] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-7.850472E-11	
QGPRCOEF[0 , 4] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-1.435095E-15	
QGPRCOEF[0 , 5] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-2.37054E-20	
QGPRCOEF[1 , 0] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-1.0597	
QGPRCOEF[1 , 1] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-1.278956E-05	
QGPRCOEF[1 , 2] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-9.876042E-11	
QGPRCOEF[1 , 3] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-2.082349E-16	
QGPRCOEF[1 , 4] Quartz Gauge Pressure Coefficients	---- / ---- / ----	1.148792E-20	
QGPRCOEF[1 , 5] Quartz Gauge Pressure Coefficients	---- / ---- / ----	2.190648E-24	
QGPRCOEF[2 , 0] Quartz Gauge Pressure Coefficients	---- / ---- / ----	1.069153E-06	
QGPRCOEF[2 , 1] Quartz Gauge Pressure Coefficients	---- / ---- / ----	3.922096E-11	
QGPRCOEF[2 , 2] Quartz Gauge Pressure Coefficients	---- / ---- / ----	5.26341E-16	
QGPRCOEF[2 , 3] Quartz Gauge Pressure Coefficients	---- / ---- / ----	1.07381E-19	
QGPRCOEF[2 , 4] Quartz Gauge Pressure Coefficients	---- / ---- / ----	3.447205E-24	
QGPRCOEF[2 , 5] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-5.05482E-28	
QGPRCOEF[3 , 0] Quartz Gauge Pressure Coefficients	---- / ---- / ----	4.188752E-12	
QGPRCOEF[3 , 1] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-6.169924E-16	
QGPRCOEF[3 , 2] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-1.9761E-20	
QGPRCOEF[3 , 3] Quartz Gauge Pressure Coefficients	---- / ---- / ----	1.817783E-23	
QGPRCOEF[3 , 4] Quartz Gauge Pressure Coefficients	---- / ---- / ----	3.583906E-28	
QGPRCOEF[3 , 5] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-1.022465E-31	
QGPRCOEF[4 , 0] Quartz Gauge Pressure Coefficients	---- / ---- / ----	1.219042E-16	

QGPRCOEF[4 , 1] Quartz Gauge Pressure Coefficients	---- / ---- / ----	1.103523E-19	
QGPRCOEF[4 , 2] Quartz Gauge Pressure Coefficients	---- / ---- / ----	7.848801E-24	
QGPRCOEF[4 , 3] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-2.102971E-27	
QGPRCOEF[4 , 4] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-6.008606E-32	
QGPRCOEF[4 , 5] Quartz Gauge Pressure Coefficients	---- / ---- / ----	1.22841E-35	
QGPRCOEF[5 , 0] Quartz Gauge Pressure Coefficients	---- / ---- / ----	2.94526E-20	
QGPRCOEF[5 , 1] Quartz Gauge Pressure Coefficients	---- / ---- / ----	1.562176E-23	
QGPRCOEF[5 , 2] Quartz Gauge Pressure Coefficients	---- / ---- / ----	2.024013E-28	
QGPRCOEF[5 , 3] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-2.984752E-31	
QGPRCOEF[5 , 4] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-3.841988E-36	
QGPRCOEF[5 , 5] Quartz Gauge Pressure Coefficients	---- / ---- / ----	1.556009E-39	
QGTEMPCOE[0 , 0] Quartz Gauge Temperature Coefficients	---- / ---- / ----	115.9913	
QGTEMPCOE[0 , 1] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-0.0003429526	
QGTEMPCOE[0 , 2] Quartz Gauge Temperature Coefficients	---- / ---- / ----	6.443035E-09	
QGTEMPCOE[0 , 3] Quartz Gauge Temperature Coefficients	---- / ---- / ----	4.38507E-14	
QGTEMPCOE[0 , 4] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-1.489976E-19	
QGTEMPCOE[0 , 5] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-2.094671E-22	
QGTEMPCOE[1 , 0] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-0.005983835	
QGTEMPCOE[1 , 1] Quartz Gauge Temperature Coefficients	---- / ---- / ----	1.769274E-08	
QGTEMPCOE[1 , 2] Quartz Gauge Temperature Coefficients	---- / ---- / ----	1.505155E-13	
QGTEMPCOE[1 , 3] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-1.452729E-17	
QGTEMPCOE[1 , 4] Quartz Gauge Temperature Coefficients	---- / ---- / ----	4.237324E-22	
QGTEMPCOE[1 , 5] Quartz Gauge Temperature Coefficients	---- / ---- / ----	1.954934E-25	
QGTEMPCOE[2 , 0] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-3.120786E-08	
QGTEMPCOE[2 , 1] Quartz Gauge Temperature Coefficients	---- / ---- / ----	3.580892E-13	
QGTEMPCOE[2 , 2] Quartz Gauge Temperature Coefficients	---- / ---- / ----	2.650769E-18	

QGTEMPCOE[2 , 3] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-1.137208E-21	
QGTEMPCOE[2 , 4] Quartz Gauge Temperature Coefficients	---- / ---- / ----	1.062056E-26	
QGTEMPCOE[2 , 5] Quartz Gauge Temperature Coefficients	---- / ---- / ----	1.238914E-29	
QGTEMPCOE[3 , 0] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-2.777631E-13	
QGTEMPCOE[3 , 1] Quartz Gauge Temperature Coefficients	---- / ---- / ----	5.583948E-19	
QGTEMPCOE[3 , 2] Quartz Gauge Temperature Coefficients	---- / ---- / ----	5.143903E-22	
QGTEMPCOE[3 , 3] Quartz Gauge Temperature Coefficients	---- / ---- / ----	3.914014E-25	
QGTEMPCOE[3 , 4] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-1.173775E-29	
QGTEMPCOE[3 , 5] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-4.819021E-33	
QGTEMPCOE[4 , 0] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-3.33426E-18	
QGTEMPCOE[4 , 1] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-9.105033E-23	
QGTEMPCOE[4 , 2] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-3.742849E-27	
QGTEMPCOE[4 , 3] Quartz Gauge Temperature Coefficients	---- / ---- / ----	1.184693E-29	
QGTEMPCOE[4 , 4] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-1.680276E-35	
QGTEMPCOE[4 , 5] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-1.09364E-37	
QGTEMPCOE[5 , 0] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-2.382187E-23	
QGTEMPCOE[5 , 1] Quartz Gauge Temperature Coefficients	---- / ---- / ----	3.634446E-26	
QGTEMPCOE[5 , 2] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-2.507502E-30	
QGTEMPCOE[5 , 3] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-2.144416E-33	
QGTEMPCOE[5 , 4] Quartz Gauge Temperature Coefficients	---- / ---- / ----	6.501607E-38	
QGTEMPCOE[5 , 5] Quartz Gauge Temperature Coefficients	---- / ---- / ----	2.576848E-41	
QGCLKCOEF[0] Quartz Gauge Clock Coefficients	---- / ---- / ----	5174970	
QGCLKCOEF[1] Quartz Gauge Clock Coefficients	---- / ---- / ----	0.002602188	
QGCLKCOEF[2] Quartz Gauge Clock Coefficients	---- / ---- / ----	9.379437E-07	
QGCLKCOEF[3] Quartz Gauge Clock Coefficients	---- / ---- / ----	-6.301601E-11	
QGCLKCOEF[4] Quartz Gauge Clock Coefficients	---- / ---- / ----	-5.262944E-16	

QGCLKCOEF[5] Quartz Gauge Clock Coefficients	---- / ---- / ----	4.405166E-21	
CDATE CalibrationDate	---- / ---- / ----	120612	
CLKCRC Clock Character Recognition Check Value	---- / ---- / ----	999E	
QGCLKSN Clock Serial Number	---- / ---- / ----	826	
TEMPCRC Temperature Character Recognition Check Value	---- / ---- / ----	3C82	
PRCRC Pressure Character Recognition Check Value	---- / ---- / ----	500D	
QGXTLSN Sensor Serial Number	---- / ---- / ----	1537	
CDATE CalibrationDate	---- / ---- / ----	19-Jul-2012	
CDATE CalibrationDate	---- / ---- / ----	not available	

PQ_2 : Strain Gauge Calibration - Run 4

Primary Set Components	**Description**	**Tool Element**	**Serial Number**
	Quick Probe Module (MRPQ) 2	PQ_2	0
	Shop Calibration		
Software Version			
Performed By			
Calibration Facility			
Calibration Dates	**Shop Calibration**		
Date & Time/ Data Validity			
Calibration Source	File		
Calibration Type	**Strain Gauge Calibration**		

Description	**Min/Normal/Max**	**Value**	**Unit**
SG_PRES_COEF[0 , 0] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	-7.70769	
SG_PRES_COEF[0 , 1] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	0.4943378	
SG_PRES_COEF[0 , 2] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	-0.00763388	
SG_PRES_COEF[0 , 3] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	2.797469E-05	
SG_PRES_COEF[1 , 0] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	1.007358	
SG_PRES_COEF[1 , 1] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	-0.0002479689	
SG_PRES_COEF[1 , 2] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	2.879164E-06	
SG_PRES_COEF[1 , 3] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	-9.691366E-09	
SG_PRES_COEF[2 , 0] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	-2.615307E-07	
SG_PRES_COEF[2 , 1] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	1.219953E-08	
SG_PRES_COEF[2 , 2]	---- / ---- / ----	-1.860149E-10	

Strain Gauge Sensor Calibration Coefficients			
SG_PRES_COEF[2 , 3] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	7.06229E-13	
SG_PRES_COEF[3 , 0] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	-2.964221E-11	
SG_PRES_COEF[3 , 1] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	2.543045E-13	
SG_PRES_COEF[3 , 2] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	-1.242453E-15	
SG_PRES_COEF[3 , 3] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	0	

PQ_2 : Quartzdyne Gauge Calibration - Run 4

Primary Set Components	**Description**	**Tool Element**	**Serial Number**
	Quick Probe Module (MRPQ) 2	PQ_2	0
	Shop Calibration		
Software Version			
Performed By			
Calibration Facility			
Calibration Dates	**Shop Calibration**		
Date & Time/ Data Validity			
Calibration Source	File		
Calibration Type	**Quartzdyne Gauge Calibration**		

Description	**Min/Normal/Max**	**Value**	**Unit**
QDPRCOEF[0] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[1] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[2] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[3] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[4] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[5] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[6] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[7] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[8] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[9] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[10] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[11] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[12] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[13] Pressure Coefficients	---- / ---- / ----	0	

QDPRCOEF[14] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[15] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[16] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[17] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[18] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[19] Pressure Coefficients	---- / ---- / ----	0	
QDTEMPCOEF[0] Temperature Coefficients	---- / ---- / ----	0	
QDTEMPCOEF[1] Temperature Coefficients	---- / ---- / ----	0	
QDTEMPCOEF[2] Temperature Coefficients	---- / ---- / ----	0	
QDTEMPCOEF[3] Temperature Coefficients	---- / ---- / ----	0	
QDPRUNIT Quartzdyne Gauge Calibration Pressure unit	---- / ---- / ----	PSIA	
QDTEMPUNIT Quartzdyne Gauge Calibration Temperature Unit	---- / ---- / ----	DEGC	
QDTMOD Quartzdyne Gauge Transducer Mode	---- / ---- / ----	not available	
QDPRNP Pressure - Polynomial Order in Pressure	---- / ---- / ----	not available	
QDPRNT Pressure - Polynomial Order in Temperature	---- / ---- / ----	not available	
QDPRSCL Pressure Scaling Factor	---- / ---- / ----	not available	
QDPROFSFRQ Pressure Offset Frequency	---- / ---- / ----	not available	
QDTEMPNP Temperature - Polynomial Order in Pressure	---- / ---- / ----	not available	
QDTEMPSCL Temperature Scaling Factor	---- / ---- / ----	not available	
QDTEMPNT Temperature - Polynomial Order in Temperature	---- / ---- / ----	not available	

PQ_1 : Quartz Gauge Calibration - Run 4

Primary Set Components	**Description**		**Tool Element**	**Serial Number**
	Quick Probe Module (MRPQ) 1		PQ_1	0
	Shop Calibration			
Software Version				
Performed By				
Calibration Facility				
Calibration Dates	**Shop Calibration**			
Date & Time/ Data Validity	070212			
Calibration Source	File			

Calibration Type	Quartz Gauge Calibration		
Description	**Min/Normal/Max**	**Value**	**Unit**
QGPRCOEF[0 , 0] Quartz Gauge Pressure Coefficients	---- / ---- / ----	6960.806	
QGPRCOEF[0 , 1] Quartz Gauge Pressure Coefficients	---- / ---- / ----	0.01045408	
QGPRCOEF[0 , 2] Quartz Gauge Pressure Coefficients	---- / ---- / ----	1.973375E-07	
QGPRCOEF[0 , 3] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-7.125528E-11	
QGPRCOEF[0 , 4] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-1.15432E-15	
QGPRCOEF[0 , 5] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-3.295855E-20	
QGPRCOEF[1 , 0] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-1.074227	
QGPRCOEF[1 , 1] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-1.301989E-05	
QGPRCOEF[1 , 2] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-1.003792E-10	
QGPRCOEF[1 , 3] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-2.049684E-16	
QGPRCOEF[1 , 4] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-2.065776E-20	
QGPRCOEF[1 , 5] Quartz Gauge Pressure Coefficients	---- / ---- / ----	2.282538E-24	
QGPRCOEF[2 , 0] Quartz Gauge Pressure Coefficients	---- / ---- / ----	1.116976E-06	
QGPRCOEF[2 , 1] Quartz Gauge Pressure Coefficients	---- / ---- / ----	4.420588E-11	
QGPRCOEF[2 , 2] Quartz Gauge Pressure Coefficients	---- / ---- / ----	5.127876E-16	
QGPRCOEF[2 , 3] Quartz Gauge Pressure Coefficients	---- / ---- / ----	3.711438E-20	
QGPRCOEF[2 , 4] Quartz Gauge Pressure Coefficients	---- / ---- / ----	4.858427E-24	
QGPRCOEF[2 , 5] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-2.938354E-28	
QGPRCOEF[3 , 0] Quartz Gauge Pressure Coefficients	---- / ---- / ----	3.743013E-12	
QGPRCOEF[3 , 1] Quartz Gauge Pressure Coefficients	---- / ---- / ----	1.566878E-16	
QGPRCOEF[3 , 2] Quartz Gauge Pressure Coefficients	---- / ---- / ----	8.493287E-21	
QGPRCOEF[3 , 3] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-2.539431E-24	
QGPRCOEF[3 , 4] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-2.043992E-28	
QGPRCOEF[3 , 5] Quartz Gauge Pressure Coefficients	---- / ---- / ----	3.182674E-32	
QGPRCOEF[4 , 0] Quartz Gauge Pressure Coefficients	---- / ---- / ----	2.472692E-17	

QGPRCOEF[4 , 1] Quartz Gauge Pressure Coefficients	---- / ---- / ----	3.118758E-20	
QGPRCOEF[4 , 2] Quartz Gauge Pressure Coefficients	---- / ---- / ----	7.906376E-24	
QGPRCOEF[4 , 3] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-6.707587E-28	
QGPRCOEF[4 , 4] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-9.29796E-32	
QGPRCOEF[4 , 5] Quartz Gauge Pressure Coefficients	---- / ---- / ----	7.122269E-36	
QGPRCOEF[5 , 0] Quartz Gauge Pressure Coefficients	---- / ---- / ----	1.12202E-20	
QGPRCOEF[5 , 1] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-9.871869E-25	
QGPRCOEF[5 , 2] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-6.810091E-28	
QGPRCOEF[5 , 3] Quartz Gauge Pressure Coefficients	---- / ---- / ----	9.680874E-32	
QGPRCOEF[5 , 4] Quartz Gauge Pressure Coefficients	---- / ---- / ----	1.096248E-35	
QGPRCOEF[5 , 5] Quartz Gauge Pressure Coefficients	---- / ---- / ----	-1.115522E-39	
QGTEMPCOE[0 , 0] Quartz Gauge Temperature Coefficients	---- / ---- / ----	126.701	
QGTEMPCOE[0 , 1] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-0.0003742418	
QGTEMPCOE[0 , 2] Quartz Gauge Temperature Coefficients	---- / ---- / ----	6.488144E-09	
QGTEMPCOE[0 , 3] Quartz Gauge Temperature Coefficients	---- / ---- / ----	7.271103E-14	
QGTEMPCOE[0 , 4] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-2.274951E-18	
QGTEMPCOE[0 , 5] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-1.034788E-21	
QGTEMPCOE[1 , 0] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-0.005878356	
QGTEMPCOE[1 , 1] Quartz Gauge Temperature Coefficients	---- / ---- / ----	1.692728E-08	
QGTEMPCOE[1 , 2] Quartz Gauge Temperature Coefficients	---- / ---- / ----	1.607284E-13	
QGTEMPCOE[1 , 3] Quartz Gauge Temperature Coefficients	---- / ---- / ----	4.318893E-18	
QGTEMPCOE[1 , 4] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-1.107117E-22	
QGTEMPCOE[1 , 5] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-1.328388E-25	
QGTEMPCOE[2 , 0] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-2.947494E-08	
QGTEMPCOE[2 , 1] Quartz Gauge Temperature Coefficients	---- / ---- / ----	3.321229E-13	
QGTEMPCOE[2 , 2] Quartz Gauge Temperature Coefficients	---- / ---- / ----	4.482245E-18	

QGTEMPCOE[2 , 3] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-1.702051E-21	
QGTEMPCOE[2 , 4] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-4.193637E-27	
QGTEMPCOE[2 , 5] Quartz Gauge Temperature Coefficients	---- / ---- / ----	1.919144E-29	
QGTEMPCOE[3 , 0] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-2.408604E-13	
QGTEMPCOE[3 , 1] Quartz Gauge Temperature Coefficients	---- / ---- / ----	2.795009E-18	
QGTEMPCOE[3 , 2] Quartz Gauge Temperature Coefficients	---- / ---- / ----	3.527196E-22	
QGTEMPCOE[3 , 3] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-5.714463E-26	
QGTEMPCOE[3 , 4] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-6.404032E-30	
QGTEMPCOE[3 , 5] Quartz Gauge Temperature Coefficients	---- / ---- / ----	2.542843E-33	
QGTEMPCOE[4 , 0] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-1.768775E-18	
QGTEMPCOE[4 , 1] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-8.663132E-23	
QGTEMPCOE[4 , 2] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-4.71053E-27	
QGTEMPCOE[4 , 3] Quartz Gauge Temperature Coefficients	---- / ---- / ----	9.83098E-30	
QGTEMPCOE[4 , 4] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-2.968411E-34	
QGTEMPCOE[4 , 5] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-3.578053E-38	
QGTEMPCOE[5 , 0] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-1.230599E-22	
QGTEMPCOE[5 , 1] Quartz Gauge Temperature Coefficients	---- / ---- / ----	1.815872E-26	
QGTEMPCOE[5 , 2] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-2.087244E-30	
QGTEMPCOE[5 , 3] Quartz Gauge Temperature Coefficients	---- / ---- / ----	1.204561E-34	
QGTEMPCOE[5 , 4] Quartz Gauge Temperature Coefficients	---- / ---- / ----	5.724222E-38	
QGTEMPCOE[5 , 5] Quartz Gauge Temperature Coefficients	---- / ---- / ----	-1.373132E-41	
QGCLKCOEF[0] Quartz Gauge Clock Coefficients	---- / ---- / ----	5174991	
QGCLKCOEF[1] Quartz Gauge Clock Coefficients	---- / ---- / ----	0.003887344	
QGCLKCOEF[2] Quartz Gauge Clock Coefficients	---- / ---- / ----	8.126245E-07	
QGCLKCOEF[3] Quartz Gauge Clock Coefficients	---- / ---- / ----	-6.44896E-11	
QGCLKCOEF[4] Quartz Gauge Clock Coefficients	---- / ---- / ----	-5.16082E-16	

QGCLKCOEF[5] Quartz Gauge Clock Coefficients	---- / ---- / ----	5.412747E-21	
CDATE CalibrationDate	---- / ---- / ----	070212	
CLKCRC Clock Character Recognition Check Value	---- / ---- / ----	93B1	
QGCLKSN Clock Serial Number	---- / ---- / ----	809	
TEMPCRC Temperature Character Recognition Check Value	---- / ---- / ----	3050	
PRCRC Pressure Character Recognition Check Value	---- / ---- / ----	ABA8	
QGXTLSN Sensor Serial Number	---- / ---- / ----	5021	
CDATE CalibrationDate	---- / ---- / ----	19-Jul-2012	
CDATE CalibrationDate	---- / ---- / ----	not available	

PQ_1 : Strain Gauge Calibration - Run 4

Primary Set Components	**Description**	**Tool Element**	**Serial Number**
	Quick Probe Module (MRPQ) 1	PQ_1	0
	Shop Calibration		
Software Version			
Performed By			
Calibration Facility			
Calibration Dates	**Shop Calibration**		
Date & Time/ Data Validity			
Calibration Source	File		
Calibration Type	**Strain Gauge Calibration**		

Description	**Min/Normal/Max**	**Value**	**Unit**
SG_PRES_COEF[0 , 0] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	-6.125813	
SG_PRES_COEF[0 , 1] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	0.3250353	
SG_PRES_COEF[0 , 2] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	-0.003700901	
SG_PRES_COEF[0 , 3] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	1.415161E-05	
SG_PRES_COEF[1 , 0] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	1.007593	
SG_PRES_COEF[1 , 1] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	-0.000175687	
SG_PRES_COEF[1 , 2] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	1.699447E-06	
SG_PRES_COEF[1 , 3] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	-5.859215E-09	
SG_PRES_COEF[2 , 0] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	-6.484369E-07	
SG_PRES_COEF[2 , 1] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	8.988398E-09	
SG_PRES_COEF[2 , 2]	---- / ---- / ----	-7.09825E-11	

Strain Gauge Sensor Calibration Coefficients			
SG_PRES_COEF[2 , 3] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	3.039022E-13	
SG_PRES_COEF[3 , 0] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	5.926128E-12	
SG_PRES_COEF[3 , 1] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	-1.640206E-13	
SG_PRES_COEF[3 , 2] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	-8.97503E-16	
SG_PRES_COEF[3 , 3] Strain Gauge Sensor Calibration Coefficients	---- / ---- / ----	0	

PQ_1 : Quartzdyne Gauge Calibration - Run 4

Primary Set Components	**Description**	**Tool Element**	**Serial Number**
	Quick Probe Module (MRPQ) 1	PQ_1	0
	Shop Calibration		
Software Version			
Performed By			
Calibration Facility			
Calibration Dates	**Shop Calibration**		
Date & Time/ Data Validity			
Calibration Source	File		
Calibration Type	**Quartzdyne Gauge Calibration**		

Description	**Min/Normal/Max**	**Value**	**Unit**
QDPRCOEF[0] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[1] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[2] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[3] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[4] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[5] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[6] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[7] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[8] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[9] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[10] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[11] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[12] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[13] Pressure Coefficients	---- / ---- / ----	0	

QDPRCOEF[14] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[15] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[16] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[17] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[18] Pressure Coefficients	---- / ---- / ----	0	
QDPRCOEF[19] Pressure Coefficients	---- / ---- / ----	0	
QDTEMPCOEF[0] Temperature Coefficients	---- / ---- / ----	0	
QDTEMPCOEF[1] Temperature Coefficients	---- / ---- / ----	0	
QDTEMPCOEF[2] Temperature Coefficients	---- / ---- / ----	0	
QDTEMPCOEF[3] Temperature Coefficients	---- / ---- / ----	0	
QDPRUNIT Quartzdyne Gauge Calibration Pressure unit	---- / ---- / ----	PSIA	
QDTEMPUNIT Quartzdyne Gauge Calibration Temperature Unit	---- / ---- / ----	DEGC	
QDTMOD Quartzdyne Gauge Transducer Mode	---- / ---- / ----	not available	
QDPRNP Pressure - Polynomial Order in Pressure	---- / ---- / ----	not available	
QDPRNT Pressure - Polynomial Order in Temperature	---- / ---- / ----	not available	
QDPRSCL Pressure Scaling Factor	---- / ---- / ----	not available	
QDPROFSFRQ Pressure Offset Frequency	---- / ---- / ----	not available	
QDTEMPNP Temperature - Polynomial Order in Pressure	---- / ---- / ----	not available	
QDTEMPSCL Temperature Scaling Factor	---- / ---- / ----	not available	
QDTEMPNT Temperature - Polynomial Order in Temperature	---- / ---- / ----	not available	

CGA : CFA Master Coefficients - Run 4

Primary Set Components	**Description**		**Tool Element**	**Serial Number**
	Condensate & Gas Analyzer		CGA	9116
	Shop Calibration			
Software Version				
Performed By				
Calibration Facility				
Calibration Dates	**Shop Calibration**			
Date & Time/ Data Validity	8/21/2012 3:21:12 AM			
Calibration Source	File			

Calibration Type	CFA Master Coefficients		
Description	**Min/Normal/Max**	**Value**	**Unit**
FLIM_DRY_SOURCE Fluorescence Detector Source Intensity Monitor Dry Calibration Source Mode	1.2 / 1.5 / 1.8	1.6271	V
FLIM_DRY_DARK Fluorescence Detector Source Intensity Monitor Dry Calibration Dark Mode	0.017 / 0.026 / 0.035	0.02908	V
FLD_RH6[0] Fluorescence Detector Rhodamine 6G Calibration Measure Mode	0.6 / 1.35 / 3.2	1.03665	V
FLD_RH6[1] Fluorescence Detector Rhodamine 6G Calibration Measure Mode	0.06 / 0.09 / 0.5	0.08896	V
FLD_RH6[2] Fluorescence Detector Rhodamine 6G Calibration Measure Mode	0 / 0 / 0.5	0.12336	V
FLD_RH6[3] Fluorescence Detector Rhodamine 6G Calibration Measure Mode	0.47 / 0.685 / 0.9	0.65866	V
FLD_RH6[4] Fluorescence Detector Rhodamine 6G Calibration Measure Mode	---- / ---- / ----	-999.25	V
FLD_RH6[5] Fluorescence Detector Rhodamine 6G Calibration Measure Mode	---- / ---- / ----	-999.25	V
FLD_RH6_DARK[0] Fluorescence Detector Rhodamine 6G Calibration Dark Mode	0.017 / 0.026 / 0.035	0.02909	V
FLD_RH6_DARK[1] Fluorescence Detector Rhodamine 6G Calibration Dark Mode	0.017 / 0.026 / 0.035	0.02952	V
FLD_RH6_DARK[2] Fluorescence Detector Rhodamine 6G Calibration Dark Mode	0.017 / 0.026 / 0.035	0.02925	V
FLD_RH6_DARK[3] Fluorescence Detector Rhodamine 6G Calibration Dark Mode	0.017 / 0.026 / 0.035	0.02937	V
FLD_RH6_DARK[4] Fluorescence Detector Rhodamine 6G Calibration Dark Mode	---- / ---- / ----	-999.25	V
FLD_RH6_DARK[5] Fluorescence Detector Rhodamine 6G Calibration Dark Mode	---- / ---- / ----	-999.25	V
FLD_DRY[0] Fluorescence Detector Dry Calibration Measure Mode	0 / 0.05 / 0.1	0.03285	V
FLD_DRY[1] Fluorescence Detector Dry Calibration Measure Mode	0 / 0.05 / 0.1	0.02966	V
FLD_DRY[2] Fluorescence Detector Dry Calibration Measure Mode	1.68 / 2.22 / 2.75	1.68587	V
FLD_DRY[3] Fluorescence Detector Dry Calibration Measure	0.47 / 0.685 / 0.9	0.65333	V

Mode			
FLD_DRY[4] Fluorescence Detector Dry Calibration Measure Mode	---- / ---- / ----	-999.25	V
FLD_DRY[5] Fluorescence Detector Dry Calibration Measure Mode	---- / ---- / ----	-999.25	V
FLD_DRY_DARK[0] Fluorescence Detector Dry Calibration Dark Mode	0.017 / 0.026 / 0.035	0.02903	V
FLD_DRY_DARK[1] Fluorescence Detector Dry Calibration Dark Mode	0.017 / 0.026 / 0.035	0.02946	V
FLD_DRY_DARK[2] Fluorescence Detector Dry Calibration Dark Mode	0.017 / 0.026 / 0.035	0.02919	V
FLD_DRY_DARK[3] Fluorescence Detector Dry Calibration Dark Mode	0.017 / 0.026 / 0.035	0.02927	V
FLD_DRY_DARK[4] Fluorescence Detector Dry Calibration Dark Mode	---- / ---- / ----	-999.25	V
FLD_DRY_DARK[5] Fluorescence Detector Dry Calibration Dark Mode	---- / ---- / ----	-999.25	V
WATER_ABS_COEF[0] Water Absorption Coefficient	-0.12 / -0.06 / 0	-0.01024198	
WATER_ABS_COEF[1] Water Absorption Coefficient	-0.12 / -0.06 / 0	-0.02486766	
WATER_ABS_COEF[2] Water Absorption Coefficient	2.43 / 2.7 / 2.97	2.684545	
WATER_ABS_COEF[3] Water Absorption Coefficient	0.55 / 0.62 / 0.69	0.5627037	
WATER_ABS_COEF[4] Water Absorption Coefficient	0.43 / 0.49 / 0.55	0.4446822	
WATER_ABS_COEF[5] Water Absorption Coefficient	0.4 / 0.46 / 0.52	0.4344413	
WATER_ABS_COEF[6] Water Absorption Coefficient	0.45 / 0.51 / 0.57	0.4997106	
WATER_ABS_COEF[7] Water Absorption Coefficient	0.59 / 0.66 / 0.73	0.6613972	
WATER_ABS_COEF[8] Water Absorption Coefficient	2.7 / 3 / 50	3.99806	
WATER_ABS_COEF[9] Water Absorption Coefficient	2.7 / 3 / 50	4.033124	
OIL_ABS_COEF[0] Oil Absorption Coefficient	-0.13 / -0.07 / -0.01	-0.02835372	
OIL_ABS_COEF[1] Oil Absorption Coefficient	-0.13 / -0.07 / -0.01	-0.04749328	
OIL_ABS_COEF[2] Oil Absorption Coefficient	-0.06 / 0 / 0.06	0.01801712	
OIL_ABS_COEF[3] Oil Absorption Coefficient	-0.11 / -0.05 / 0.01	-0.02528435	
OIL_ABS_COEF[4] Oil Absorption Coefficient	-0.06 / 0 / 0.06	0.001791504	
OIL_ABS_COEF[5] Oil Absorption Coefficient	0.18 / 0.3 / 0.42	0.2986651	
OIL_ABS_COEF[6]	0.67 / 0.75 / 0.83	0.7727015	

Oil Absorption Coefficient			
OIL_ABS_COEF[7] Oil Absorption Coefficient	0.47 / 0.53 / 0.59	0.5303599	
OIL_ABS_COEF[8] Oil Absorption Coefficient	0.06 / 0.12 / 0.18	0.1403111	
OIL_ABS_COEF[9] Oil Absorption Coefficient	0.05 / 0.11 / 0.17	0.1263122	
SPEC_WATER[0] Spectrometer Water Calibration Measure Mode	0 / 1 / 4.5	2.87672	V
SPEC_WATER[1] Spectrometer Water Calibration Measure Mode	0 / 1 / 4.5	3.23755	V
SPEC_WATER[2] Spectrometer Water Calibration Measure Mode	0 / 1 / 4.5	0.03569	V
SPEC_WATER[3] Spectrometer Water Calibration Measure Mode	0 / 1 / 4.5	0.84581	V
SPEC_WATER[4] Spectrometer Water Calibration Measure Mode	0 / 1 / 4.5	1.09523	V
SPEC_WATER[5] Spectrometer Water Calibration Measure Mode	0 / 1 / 4.5	1.08005	V
SPEC_WATER[6] Spectrometer Water Calibration Measure Mode	0 / 1 / 4.5	0.91832	V
SPEC_WATER[7] Spectrometer Water Calibration Measure Mode	0 / 1 / 4.5	0.6937	V
SPEC_WATER[8] Spectrometer Water Calibration Measure Mode	0 / 1 / 4.5	0.02965	V
SPEC_WATER[9] Spectrometer Water Calibration Measure Mode	0 / 1 / 4.5	0.02982	V
SPEC_WATER_SOURCE[0] Spectrometer Water Calibration Source Mode	0.2 / 1.7 / 3.2	1.02842	V
SPEC_WATER_SOURCE[1] Spectrometer Water Calibration Source Mode	0.2 / 1.7 / 3.2	0.87153	V
SPEC_WATER_SOURCE[2] Spectrometer Water Calibration Source Mode	0.2 / 1.7 / 3.2	1.01867	V
SPEC_WATER_SOURCE[3] Spectrometer Water Calibration Source Mode	0.2 / 1.7 / 3.2	0.91448	V
SPEC_WATER_SOURCE[4] Spectrometer Water Calibration Source Mode	0.2 / 1.7 / 3.2	0.5953	V
SPEC_WATER_SOURCE[5] Spectrometer Water Calibration Source Mode	0.2 / 1.7 / 3.2	1.01875	V
SPEC_WATER_SOURCE[6] Spectrometer Water Calibration Source Mode	0.2 / 1.7 / 3.2	1.18478	V
SPEC_WATER_SOURCE[7] Spectrometer Water Calibration Source Mode	0.2 / 1.7 / 3.2	1.20541	V
SPEC_WATER_SOURCE[8] Spectrometer Water Calibration Source Mode	0.2 / 1.7 / 3.2	0.65546	V
SPEC_WATER_SOURCE[9] Spectrometer Water Calibration Source Mode	0.2 / 1.7 / 3.2	1.48183	V
SPEC_WATER_DARK[0] Spectrometer Water Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02987	V
SPEC_WATER_DARK[1] Spectrometer Water Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02932	V
SPEC_WATER_DARK[2]	0.017 / 0.025 / 0.033	0.02961	V

Spectrometer Water Calibration Dark Mode			
SPEC_WATER_DARK[3] Spectrometer Water Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02942	V
SPEC_WATER_DARK[4] Spectrometer Water Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02929	V
SPEC_WATER_DARK[5] Spectrometer Water Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02952	V
SPEC_WATER_DARK[6] Spectrometer Water Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02947	V
SPEC_WATER_DARK[7] Spectrometer Water Calibration Dark Mode	0.017 / 0.025 / 0.033	0.0293	V
SPEC_WATER_DARK[8] Spectrometer Water Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02935	V
SPEC_WATER_DARK[9] Spectrometer Water Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02954	V
SPEC_OIL[0] Spectrometer Oil Calibration Measure Mode	0 / 1 / 4.5	2.99796	V
SPEC_OIL[1] Spectrometer Oil Calibration Measure Mode	0 / 1 / 4.5	3.40917	V
SPEC_OIL[2] Spectrometer Oil Calibration Measure Mode	0 / 1 / 4.5	2.85077	V
SPEC_OIL[3] Spectrometer Oil Calibration Measure Mode	0 / 1 / 4.5	3.19085	V
SPEC_OIL[4] Spectrometer Oil Calibration Measure Mode	0 / 1 / 4.5	2.98475	V
SPEC_OIL[5] Spectrometer Oil Calibration Measure Mode	0 / 1 / 4.5	1.46563	V
SPEC_OIL[6] Spectrometer Oil Calibration Measure Mode	0 / 1 / 4.5	0.50355	V
SPEC_OIL[7] Spectrometer Oil Calibration Measure Mode	0 / 1 / 4.5	0.92772	V
SPEC_OIL[8] Spectrometer Oil Calibration Measure Mode	0 / 1 / 4.5	2.19329	V
SPEC_OIL[9] Spectrometer Oil Calibration Measure Mode	0 / 1 / 4.5	2.28275	V
SPEC_OIL_SOURCE[0] Spectrometer Oil Calibration Source Mode	0.2 / 1.7 / 3.2	1.04847	V
SPEC_OIL_SOURCE[1] Spectrometer Oil Calibration Source Mode	0.2 / 1.7 / 3.2	0.88585	V
SPEC_OIL_SOURCE[2] Spectrometer Oil Calibration Source Mode	0.2 / 1.7 / 3.2	1.03061	V
SPEC_OIL_SOURCE[3] Spectrometer Oil Calibration Source Mode	0.2 / 1.7 / 3.2	0.92633	V
SPEC_OIL_SOURCE[4] Spectrometer Oil Calibration Source Mode	0.2 / 1.7 / 3.2	0.6038	V
SPEC_OIL_SOURCE[5] Spectrometer Oil Calibration Source Mode	0.2 / 1.7 / 3.2	1.02951	V
SPEC_OIL_SOURCE[6] Spectrometer Oil Calibration Source Mode	0.2 / 1.7 / 3.2	1.19729	V
SPEC_OIL_SOURCE[7] Spectrometer Oil Calibration Source Mode	0.2 / 1.7 / 3.2	1.21672	V
SPEC_OIL_SOURCE[8]	0.2 / 1.7 / 3.2	0.66264	V

Spectrometer Oil Calibration Source Mode			
SPEC_OIL_SOURCE[9] Spectrometer Oil Calibration Source Mode	0.2 / 1.7 / 3.2	1.49748	V
SPEC_OIL_DARK[0] Spectrometer Oil Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02988	V
SPEC_OIL_DARK[1] Spectrometer Oil Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02937	V
SPEC_OIL_DARK[2] Spectrometer Oil Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02964	V
SPEC_OIL_DARK[3] Spectrometer Oil Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02943	V
SPEC_OIL_DARK[4] Spectrometer Oil Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02931	V
SPEC_OIL_DARK[5] Spectrometer Oil Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02953	V
SPEC_OIL_DARK[6] Spectrometer Oil Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02949	V
SPEC_OIL_DARK[7] Spectrometer Oil Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02934	V
SPEC_OIL_DARK[8] Spectrometer Oil Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02937	V
SPEC_OIL_DARK[9] Spectrometer Oil Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02957	V
SPEC_DRY[0] Spectrometer Dry Calibration Measure Mode	1.35 / 2.7 / 3.2	2.81035	V
SPEC_DRY[1] Spectrometer Dry Calibration Measure Mode	1.35 / 2.7 / 3.2	3.05904	V
SPEC_DRY[2] Spectrometer Dry Calibration Measure Mode	1.35 / 2.7 / 3.2	2.97014	V
SPEC_DRY[3] Spectrometer Dry Calibration Measure Mode	1.35 / 2.7 / 3.2	3.012	V
SPEC_DRY[4] Spectrometer Dry Calibration Measure Mode	1.35 / 2.7 / 3.2	2.99692	V
SPEC_DRY[5] Spectrometer Dry Calibration Measure Mode	1.35 / 2.7 / 3.2	2.88609	V
SPEC_DRY[6] Spectrometer Dry Calibration Measure Mode	1.35 / 2.7 / 3.2	2.83837	V
SPEC_DRY[7] Spectrometer Dry Calibration Measure Mode	1.35 / 2.7 / 3.2	3.07595	V
SPEC_DRY[8] Spectrometer Dry Calibration Measure Mode	1.35 / 2.7 / 3.2	3.01854	V
SPEC_DRY[9] Spectrometer Dry Calibration Measure Mode	1.35 / 2.7 / 3.2	3.04325	V
SPEC_DRY_SOURCE[0] Spectrometer Dry Calibration Source Mode	0.2 / 1.7 / 3.2	1.04688	V
SPEC_DRY_SOURCE[1] Spectrometer Dry Calibration Source Mode	0.2 / 1.7 / 3.2	0.88584	V
SPEC_DRY_SOURCE[2] Spectrometer Dry Calibration Source Mode	0.2 / 1.7 / 3.2	1.03511	V
SPEC_DRY_SOURCE[3] Spectrometer Dry Calibration Source Mode	0.2 / 1.7 / 3.2	0.92942	V
SPEC_DRY_SOURCE[4]	0.2 / 1.7 / 3.2	0.60739	V

Spectrometer Dry Calibration Source Mode			
SPEC_DRY_SOURCE[5] Spectrometer Dry Calibration Source Mode	0.2 / 1.7 / 3.2	1.03427	V
SPEC_DRY_SOURCE[6] Spectrometer Dry Calibration Source Mode	0.2 / 1.7 / 3.2	1.20341	V
SPEC_DRY_SOURCE[7] Spectrometer Dry Calibration Source Mode	0.2 / 1.7 / 3.2	1.22136	V
SPEC_DRY_SOURCE[8] Spectrometer Dry Calibration Source Mode	0.2 / 1.7 / 3.2	0.66527	V
SPEC_DRY_SOURCE[9] Spectrometer Dry Calibration Source Mode	0.2 / 1.7 / 3.2	1.49864	V
SPEC_DRY_DARK[0] Spectrometer Dry Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02986	V
SPEC_DRY_DARK[1] Spectrometer Dry Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02935	V
SPEC_DRY_DARK[2] Spectrometer Dry Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02952	V
SPEC_DRY_DARK[3] Spectrometer Dry Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02938	V
SPEC_DRY_DARK[4] Spectrometer Dry Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02927	V
SPEC_DRY_DARK[5] Spectrometer Dry Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02949	V
SPEC_DRY_DARK[6] Spectrometer Dry Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02948	V
SPEC_DRY_DARK[7] Spectrometer Dry Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02931	V
SPEC_DRY_DARK[8] Spectrometer Dry Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02935	V
SPEC_DRY_DARK[9] Spectrometer Dry Calibration Dark Mode	0.017 / 0.025 / 0.033	0.02949	V

CGA : CFA Before Coefficients - Run 4

Primary Set Components	**Description**	**Tool Element**	**Serial Number**
	Condensate & Gas Analyzer	CGA	9116
	Shop Calibration		
Software Version			
Performed By			
Calibration Facility			
Calibration Dates	**Shop Calibration**		
Date & Time/ Data Validity	8/21/2012 1:50:15 AM		
Calibration Source	File		
Calibration Type	**CFA Before Coefficients**		

Description	**Min/Normal/Max**	**Value**	**Unit**
FLIM_BEFORE_SOURCE Fluorescence Detector Source Intensity Monitor Before Calibration Source Mode	---- / ---- / ----	1.62859	V
FLIM_BEFORE_DARK Fluorescence Detector Source Intensity Monitor Before Calibration Dark Mode	---- / ---- / ----	0.02897	V
FLD_BEFORE_DARK[0] Fluorescence Detector Before Calibration Dark Mode	---- / ---- / ----	0.02898	V

FLD_BEFORE_DARK[1] Fluorescence Detector Before Calibration Dark Mode	---- / ---- / ----	0.02939	V
FLD_BEFORE_DARK[2] Fluorescence Detector Before Calibration Dark Mode	---- / ---- / ----	0.0291	V
FLD_BEFORE_DARK[3] Fluorescence Detector Before Calibration Dark Mode	---- / ---- / ----	0.02918	V
FLD_BEFORE_DARK[4] Fluorescence Detector Before Calibration Dark Mode	---- / ---- / ----	-999.25	V
FLD_BEFORE_DARK[5] Fluorescence Detector Before Calibration Dark Mode	---- / ---- / ----	-999.25	V
SPEC_BEFORE_SOURCE[0] Spectrometer Before Calibration Source Mode	---- / ---- / ----	1.02159	V
SPEC_BEFORE_SOURCE[1] Spectrometer Before Calibration Source Mode	---- / ---- / ----	0.86869	V
SPEC_BEFORE_SOURCE[2] Spectrometer Before Calibration Source Mode	---- / ---- / ----	1.03499	V
SPEC_BEFORE_SOURCE[3] Spectrometer Before Calibration Source Mode	---- / ---- / ----	0.91722	V
SPEC_BEFORE_SOURCE[4] Spectrometer Before Calibration Source Mode	---- / ---- / ----	0.59442	V
SPEC_BEFORE_SOURCE[5] Spectrometer Before Calibration Source Mode	---- / ---- / ----	1.01123	V
SPEC_BEFORE_SOURCE[6] Spectrometer Before Calibration Source Mode	---- / ---- / ----	1.181	V
SPEC_BEFORE_SOURCE[7] Spectrometer Before Calibration Source Mode	---- / ---- / ----	1.19325	V
SPEC_BEFORE_SOURCE[8] Spectrometer Before Calibration Source Mode	---- / ---- / ----	0.65038	V
SPEC_BEFORE_SOURCE[9] Spectrometer Before Calibration Source Mode	---- / ---- / ----	1.45891	V
SPEC_BEFORE_DARK[0] Spectrometer Before Calibration Dark Mode	---- / ---- / ----	0.02973	V
SPEC_BEFORE_DARK[1] Spectrometer Before Calibration Dark Mode	---- / ---- / ----	0.02925	V
SPEC_BEFORE_DARK[2] Spectrometer Before Calibration Dark Mode	---- / ---- / ----	0.02942	V
SPEC_BEFORE_DARK[3] Spectrometer Before Calibration Dark Mode	---- / ---- / ----	0.02923	V
SPEC_BEFORE_DARK[4] Spectrometer Before Calibration Dark Mode	---- / ---- / ----	0.02917	V
SPEC_BEFORE_DARK[5] Spectrometer Before Calibration Dark Mode	---- / ---- / ----	0.02938	V
SPEC_BEFORE_DARK[6] Spectrometer Before Calibration Dark Mode	---- / ---- / ----	0.02938	V
SPEC_BEFORE_DARK[7] Spectrometer Before Calibration Dark Mode	---- / ---- / ----	0.02919	V
SPEC_BEFORE_DARK[8] Spectrometer Before Calibration Dark Mode	---- / ---- / ----	0.02923	V
SPEC_BEFORE_DARK[9] Spectrometer Before Calibration Dark Mode	---- / ---- / ----	0.02937	V

6.2 Calibration Page