

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS
1001 17th St.
Denver, CO 74104-3102

RMV 215-21

Stage 2 – Upper Williams Fork
Garfield County, Colorado

Sales Order: 9410685

Post Job Report

For: Jared Rundberg

Date: Wednesday, April 04, 2012

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HALLIBURTON

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1.0 WELL INFORMATION

1.1 Customer Information

Customer	WPX ENERGY ROCKY MOUNTAIN LLC-EBUS
Sales Order	9410685
Well Name	RMV
Interval	Stage 2 Final
Well Number	215-21
Job Date	04-Apr-2012
County	Garfield
State	Colorado
UWI/API	05045074650000
Lease Name	RMV
Country	United States of America
H2S Present	Unknown
Customer Representative	Jared Rundberg
Halliburton Representative	HOLLE

1.2 Pipe Information

Equipment	Top MD ft	Bottom MD ft	OD in	ID in	Grade	Weight lb/ft
Casing	0.0	5000.0	4.500	4.000	I-80	11.60
Surface Pipe	0.0	1215.0	5.000	4.000		

1.3 Perforation Intervals

Top MD ft	Bottom MD ft	Number of Shots	Perf Density spf	Perf Orientation °	Perf Diameter in	Perf Formation
4483.0	4716.0	34	0.1	0	0.350	Stage 2 Upper WF Interval

2.0 PUMPING SCHEDULE

2.1 Designed Pumping Schedule

Stage Number	Description	Flow Path	Fluid System	Clean Volume gal	Slurry Volume gal	Prop Conc Start lb/gal	Prop Conc End lb/gal
1	Pad	In	Waterfrac	63360	63360	0.00	0.00
2	Proppant Laden Fluid	In	Waterfrac	4224	4320	0.50	0.50
3	Proppant Laden Fluid	In	Waterfrac	8448	8831	1.00	1.00
4	Proppant Laden Fluid	In	Waterfrac	95040	101506	1.50	1.50
5	Proppant Laden Fluid	In	Waterfrac	84480	92143	2.00	2.00
6	Proppant Laden Fluid	In	Waterfrac	10560	11519	2.00	2.00
7	Proppant Laden Fluid	In	Waterfrac	8448	9407	2.50	2.50
8	Flush	In		5354	5354	0.00	0.00
9	Shut-In	In		0	0	0.00	0.00
Total				279914	296439		

2.2 Designed Pumping Schedule (continued)

Stage Number	Description	Prop Type	Prop Mass 100*lb	Rate Stage Start bpm	Rate Stage End bpm	Stage Time min
1	Pad			64.0	64.0	23.57
2	Proppant Laden Fluid	SAND - PREMIUM - 20/40, BULK, SK (100003678)	21.12	64.0	64.0	1.61
3	Proppant Laden Fluid	SAND - PREMIUM - 20/40, BULK, SK (100003678)	84.48	64.0	64.0	3.29
4	Proppant Laden Fluid	SAND - PREMIUM - 20/40, BULK, SK (100003678)	1425.60	64.0	64.0	37.76
5	Proppant Laden Fluid	SAND - PREMIUM - 20/40, BULK, SK (100003678)	1689.60	64.0	64.0	34.28
6	Proppant Laden Fluid	SAND - PREMIUM - 16/30, BULK, SK (100003698)	211.20	64.0	64.0	4.29
7	Proppant Laden Fluid	SAND - PREMIUM - 16/30, BULK, SK (100003698)	211.20	64.0	64.0	3.50
8	Flush			64.0	64.0	1.99
9	Shut-In			0.0	0.0	0.00
Total			3643.20			110.28

3.0 ACTUAL STAGE SUMMARY**3.1 Stage Summary**

Stage Number	Stage Time	Start Time	End Time	Time min	Pump Time min	Max Treat Pr psi	Max Slurry Rate bpm
1	04-Apr-12 10:29:21	10:01:58	04-Apr-12 10:29:21	27.41	24.77	3698	65.8
2	04-Apr-12 10:31:00	10:29:22	04-Apr-12 10:31:00	1.66	1.65	3691	66.4
3	04-Apr-12 10:34:20	10:31:01	04-Apr-12 10:34:20	3.33	3.33	3948	63.7
4	04-Apr-12 11:17:05	10:34:21	04-Apr-12 11:17:05	42.75	42.75	5483	64.8
6	04-Apr-12 11:19:29	11:17:06	04-Apr-12 11:19:29	2.38	2.38	4475	58.7
8	04-Apr-12 11:22:14	11:19:30	04-Apr-12 11:22:14	2.75	2.38	4256	60.9
9	04-Apr-12 11:32:56	11:22:15	04-Apr-12 11:32:56	10.72	0.00	0	0.0

Stage Number	Stage Time	Max Wellhead Rate bpm	Max Prop Conc lb/gal	Max Slurry Prop Conc lb/gal	Avg Treating Pressure psi	Avg Clean Rate bpm	Avg Slurry Rate bpm
1	04-Apr-12 10:29:21	65.8	3.61	2685.39	3497	59.9	61.6
2	04-Apr-12 10:31:00	66.5	0.38	0.42	3679	60.9	63.6
3	04-Apr-12 10:34:20	63.7	0.90	1.00	3682	60.4	63.5
4	04-Apr-12 11:17:05	64.8	1.48	1.52	4312	58.7	62.7
6	04-Apr-12 11:19:29	58.8	1.84	2.47	4355	53.7	58.6
8	04-Apr-12 11:22:14	61.0	2.47	0.00	3942	52.0	53.6
9	04-Apr-12 11:32:56	0.0	0.00	0.00	0	0.0	0.0

Stage Number	Stage Time	Avg Wellhead Rate bpm	Avg Slurry Prop Conc lb/gal	Avg Hydraulic Horsepower hp	Clean Volume gal	Slurry Volume gal	Wellhead Volume gal
1	04-Apr-12 10:29:21	61.6	902.07	5275	63953	65641	64078
2	04-Apr-12 10:31:00	63.6	0.31	5736	4247	4439	4440
3	04-Apr-12 10:34:20	63.5	0.81	5729	8461	8892	8894
4	04-Apr-12 11:17:05	62.7	1.18	6626	105471	112604	112627
6	04-Apr-12 11:19:29	58.6	1.77	6256	5378	5869	5870
8	04-Apr-12 11:22:14	53.7	0.00	5182	5207	5370	5371
9	04-Apr-12 11:32:56	0.0	0.00	0	0	0	0
Total					192717	202814	201279

Stage Number	Stage Time	Prop Mass 100*lb
1	04-Apr-12 10:29:21	0.98
2	04-Apr-12 10:31:00	13.06
3	04-Apr-12 10:34:20	69.28
4	04-Apr-12 11:17:05	1197.43
6	04-Apr-12 11:19:29	95.78
8	04-Apr-12 11:22:14	0.00
9	04-Apr-12 11:32:56	0.00
Total		1376.53

4.0 PERFORMANCE HIGHLIGHTS

4.1 Job Summary

Start Time	04-Apr-12 09:54:41	
End Time	04-Apr-12 11:32:56	

Engineering Notes		
Engineer on Location	Kevin Christofanelli	
Initial Rate(Breakdown)	40.1	bpm
Initial Pressure(Breakdown)	3010	psi
Max Rate	66.5	bpm
Max Pressure	5483	psi
Max Pressure (SLF)	5483	psi
Average Rate	63.2	bpm
Average Treating Pressure	4251	psi
Average Missile Pressure	4616	psi
Beginning Annulus Pressure	0	psi
Max Annulus Pressure	0	psi
ISIP	1757	psi
Initial Frac Grad.	0.820	psi/ft
ISDP	2156	psi
Final Frac Grad.	0.907	psi/ft
Tubular Type	4.5" 11.6 #	
20/40 Unimin Delivered	3246	sk
20/40 Unimin Pumped	1345	sk
16/30 White Delivered	456	sk
16/30 White Pumped	456	sk
Proppant in Formation	1801	sk
Maximum Proppant Concentration	0.5	lbs/gal
Initial Perfs Open	32/34	
Perf Diameter	0.35	in
Acid+Pad Volume	1523	bbl
SLF Volume	2942	bbl
Flush Volume	124	bbl
Job Notes:		
Screening out, switched to 16/30. Flushed 124 bbls		

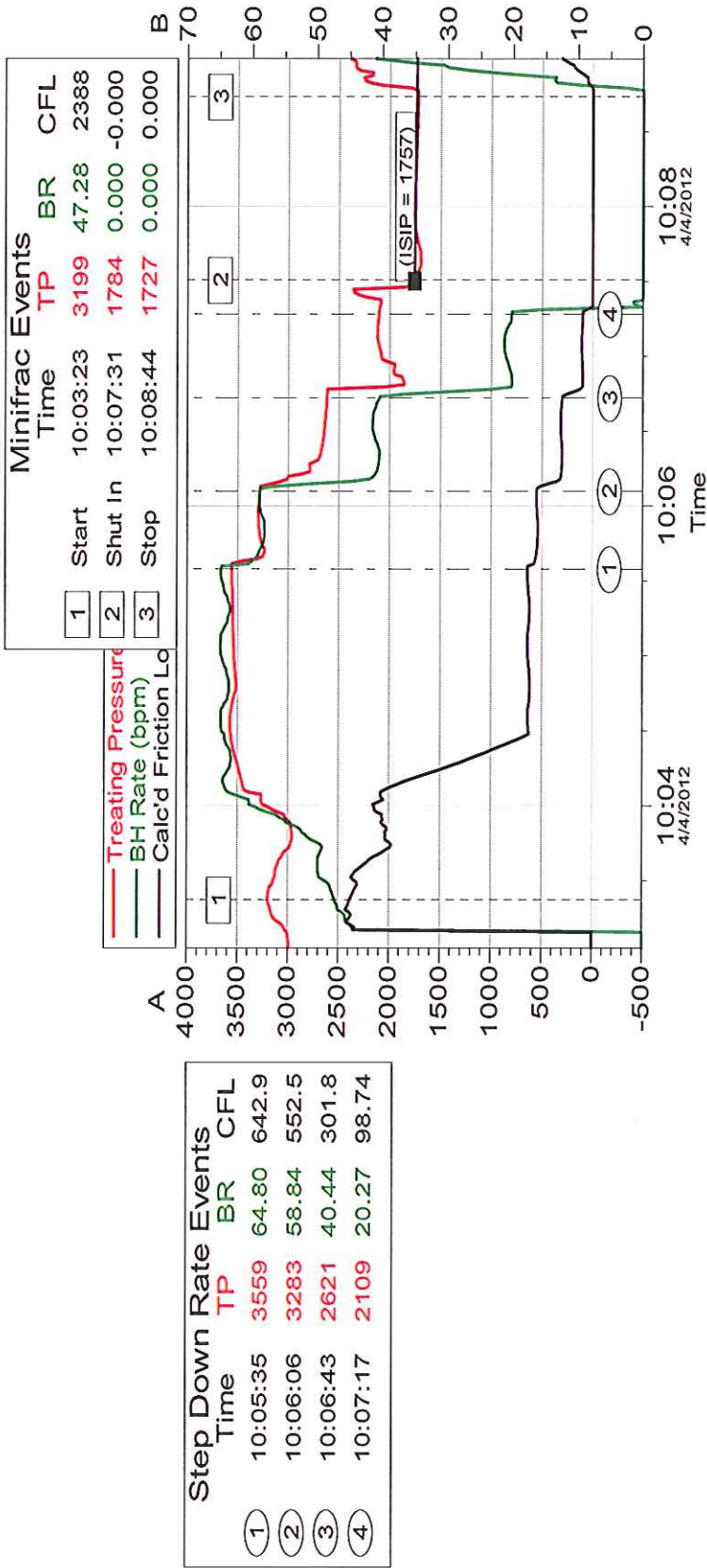
4.2 Job Stage Log

Time	Description	Comment	Slurry Rate bpm	Treating Pressure psi	Braden Pressure psi	Job Clean Vol gal	Job Slurry Vol gal
04-Apr-12 10:01:57	Stage 1	Pad	15.0	1760	-0	8	11
10:29:22	Stage 2	Proppant Laden Fluid	64.2	3672	-0	63953	65641
10:31:01	Stage 3	Proppant Laden Fluid	63.5	3682	-0	68200	70080
10:34:21	Stage 4	Proppant Laden Fluid	63.6	3948	-0	76661	78972
11:17:06	Stage 6	Proppant Laden Fluid	58.7	4476	-0	182132	191575
11:19:30	Stage 8	Flush	58.5	4258	-0	187510	197444
11:22:15	Stage 9	Shut-In	0.0	2144	-0	192717	202814

5.0 ATTACHMENTS

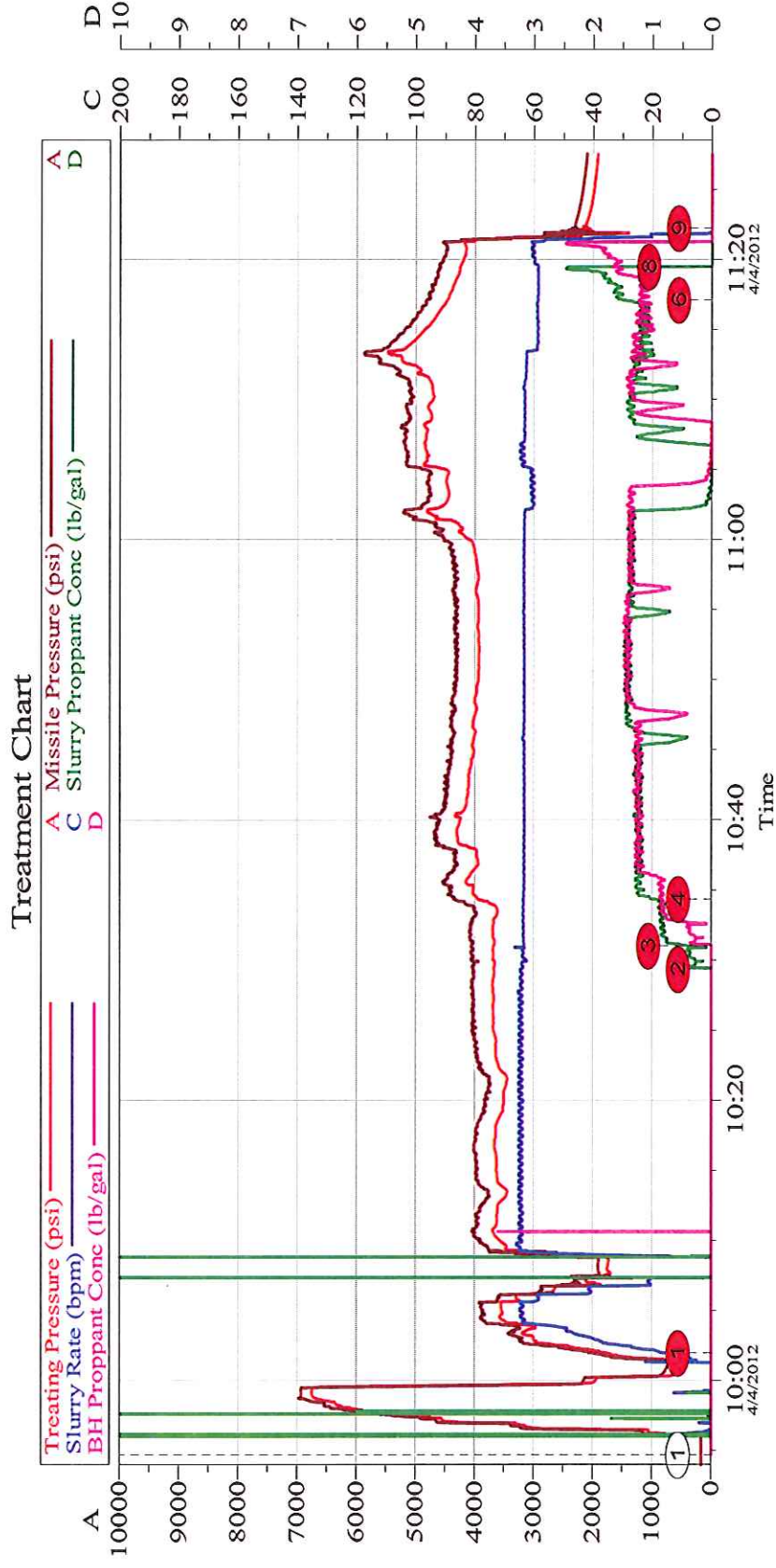
5.1 PDAT - Job Data Stage 2

Halliburton Pumping Diagnostic Analysis Toolkit
Job Data



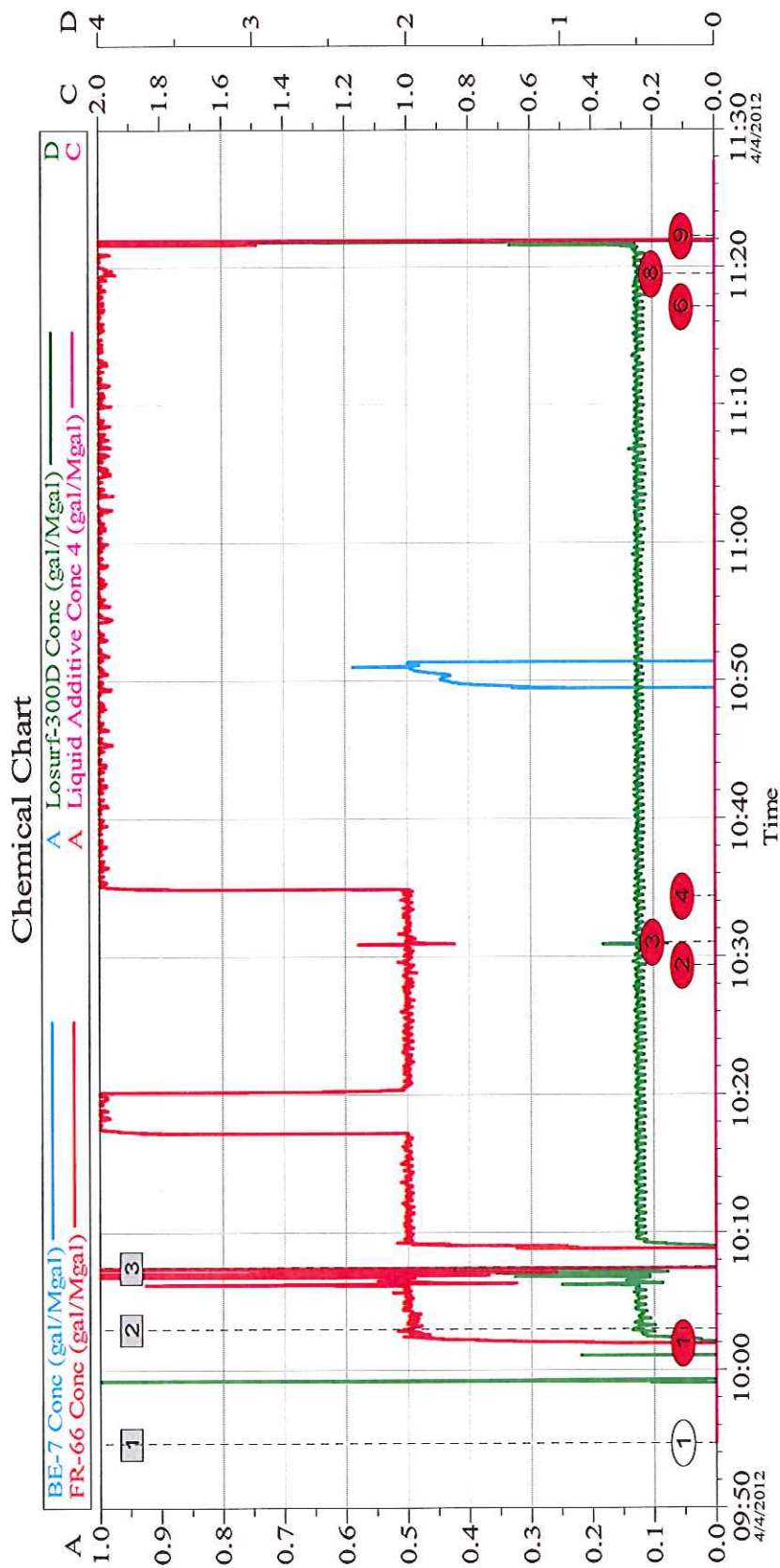
Customer:	WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Job Date:	04-Apr-2012	Sales Order #:	9410685
Well Description:	RMV 215-21	UWI:	05045074650000		

5.2 Treatment Chart



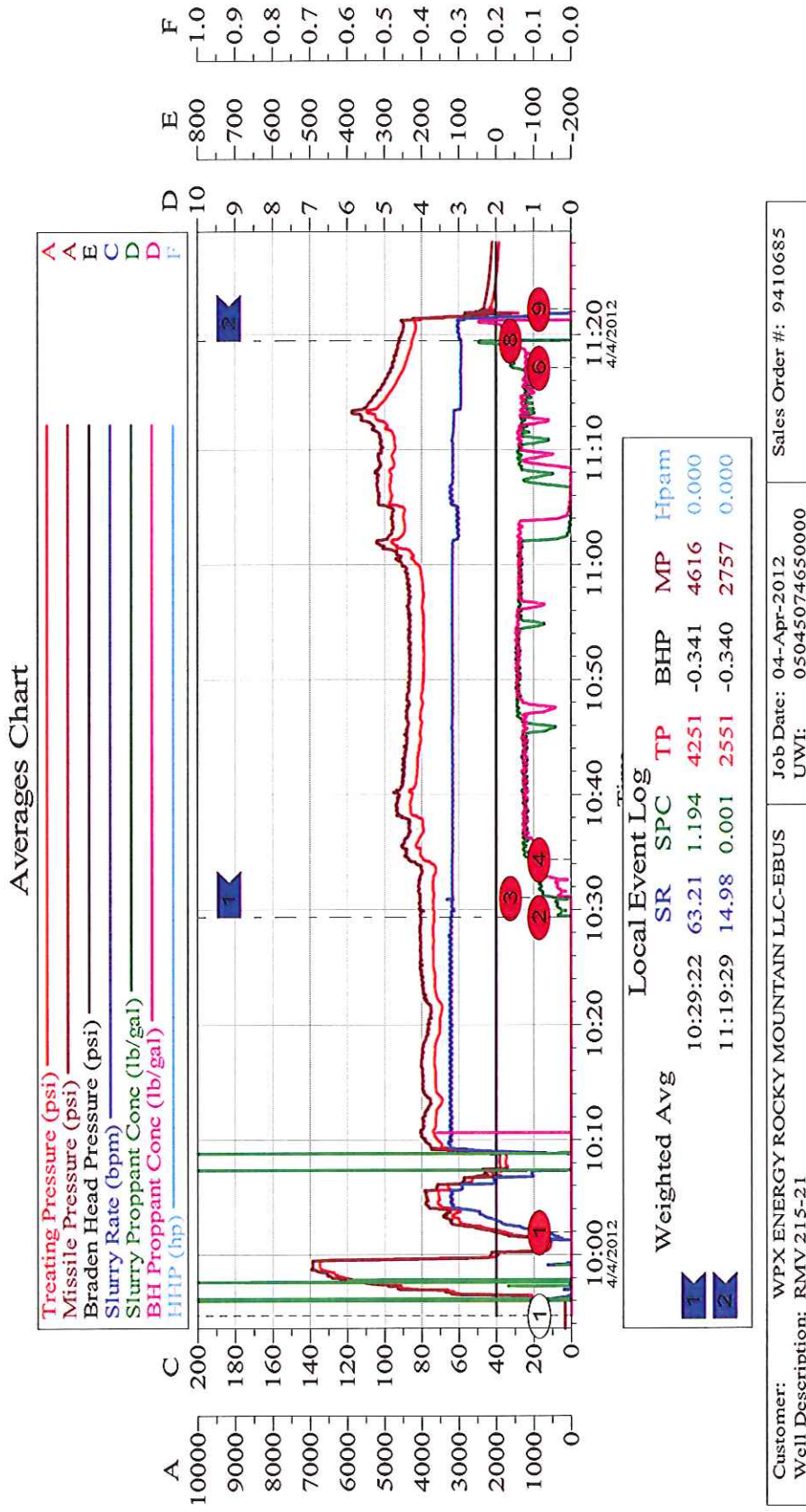
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5.3 Chemical Chart



Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Job Date: 04-Apr-2012	Sales Order #: 9410685
Well Description: RMV 215-21	UWI: 05045074650000	

5.4 Averages Chart



5.5 Net Pressure Plot

