

CHEVRON - MID-CONTINENT
760 Horizon Dr
Grand Junction, CO 81506

SKR 598-25-BV-22

Stage 3
Garfield County, Colorado

Sales Order: 900715107

Post Job Report

For: Keith Hejl
Date: Wednesday, September 04, 2013

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HALLIBURTON

Table of Contents

1.0	Well Information	3
1.1	Customer Information	3
1.2	Pipe Information	4
1.3	Perforation Intervals	4
2.0	Actual Stage Summary	5
2.1	Stage Summary	5
3.0	Performance Highlights.....	8
3.1	Job Summary.....	8
3.2	Job Event Log	9
4.0	Attachments.....	10
4.1	Treating Chart	10
4.2	Chemical Chart	11
4.3	Averages Chart.....	12
4.4	Net Pressure Plot	13

1.0 WELL INFORMATION**1.1 Customer Information**

Customer	CHEVRON - MID-CONTINENT
Sales Order	900715107
Well Name	SKR
Interval	3
Well Number	598-25-BV-22
Job Date	04-Sep-2013
County	Garfield
State	Colorado
UWI/API	05-045-15429
Lease Name	SKR
Country	United States of America
H2S Present	Unknown
CO2 Present	Unknown
Customer Representative	Matthew Mandarich
Customer Telephone Number	303-675-4449
Halliburton Representative	SWANSON

1.2 Pipe Information

Equipment	Top MD ft	Bottom MD ft	OD in	ID in	Grade	Weight lb/ft
Casing	0.0	4487.0	4.500	4.000	N-80	11.60
Surface Pipe	0.0	50.0	5.000	4.000		

1.3 Perforation Intervals

Top MD ft	Bottom MD ft	Number of Shots	Perf Density spf	Perf Phasing °	Perf Orientation °	Perf Diameter in	Perf Formation
4190.0	4467.0	27	0.1	2	0	0.340	Perforation Interval 1

2.0 ACTUAL STAGE SUMMARY

2.1 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-Sep-13 07:26:19	07:23:36	04-Sep-13 07:26:19	2.75	2.72	5465	132.6
2	04-Sep-13 07:30:15	07:26:20	04-Sep-13 07:30:15	3.93	3.90	5982	104.5
3	04-Sep-13 08:05:33	07:30:16	04-Sep-13 08:05:33	35.31	35.27	5480	102.6
4	04-Sep-13 08:29:47	08:05:34	04-Sep-13 08:29:47	24.24	24.23	4758	68.2
5	04-Sep-13 08:46:31	08:29:48	04-Sep-13 08:46:31	16.73	16.70	4751	70.8
6	04-Sep-13 08:49:24	08:46:32	04-Sep-13 08:49:24	2.89	2.75	4855	64.3
7	04-Sep-13 08:49:41	08:49:25	04-Sep-13 08:49:41	0.28	0.03	1485	2.0

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-Sep-13 07:26:19	132.6	0.00	0.00	3566	33.3	32.8
2	04-Sep-13 07:30:15	104.5	0.44	0.44	5343	62.8	63.0
3	04-Sep-13 08:05:33	102.6	0.62	0.62	4832	62.8	64.0
4	04-Sep-13 08:29:47	68.2	0.93	0.94	4524	61.0	62.8

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
5	04-Sep-13 08:46:31	70.8	1.01	1.01	4672	60.7	63.5
6	04-Sep-13 08:49:24	64.3	0.12	0.00	4317	58.0	59.5
7	04-Sep-13 08:49:41	2.0	0.00	0.00	1485	0.0	2.0

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-Sep-13 07:26:19	32.8	0.00	2868	3847	3805	3805
2	04-Sep-13 07:30:15	63.0	0.13	8251	10352	10392	10392
3	04-Sep-13 08:05:33	64.0	0.44	7576	93163	94882	94882
4	04-Sep-13 08:29:47	62.8	0.66	6960	62095	63912	63912
5	04-Sep-13 08:46:31	63.5	0.93	7271	42613	44613	44613
6	04-Sep-13 08:49:24	59.5	0.00	6298	6699	6876	6876
7	04-Sep-13 08:49:41	2.0	0.00	72	0	1	1
Total					218769	224482	224482

Stage Number	Stage Time	Prop Mass 100*lb
1	04-Sep-13 07:26:19	0.00

Stage Number	Stage Time	Prop Mass 100*lb
2	04-Sep-13 07:30:15	12.07
3	04-Sep-13 08:05:33	405.33
4	04-Sep-13 08:29:47	408.23
5	04-Sep-13 08:46:31	398.96
6	04-Sep-13 08:49:24	0.00
7	04-Sep-13 08:49:41	0.00
Total		1224.58

3.0 PERFORMANCE HIGHLIGHTS

3.1 Job Summary

Start Time	04-Sep-13 06:16:08	
End Time	04-Sep-13 08:49:41	

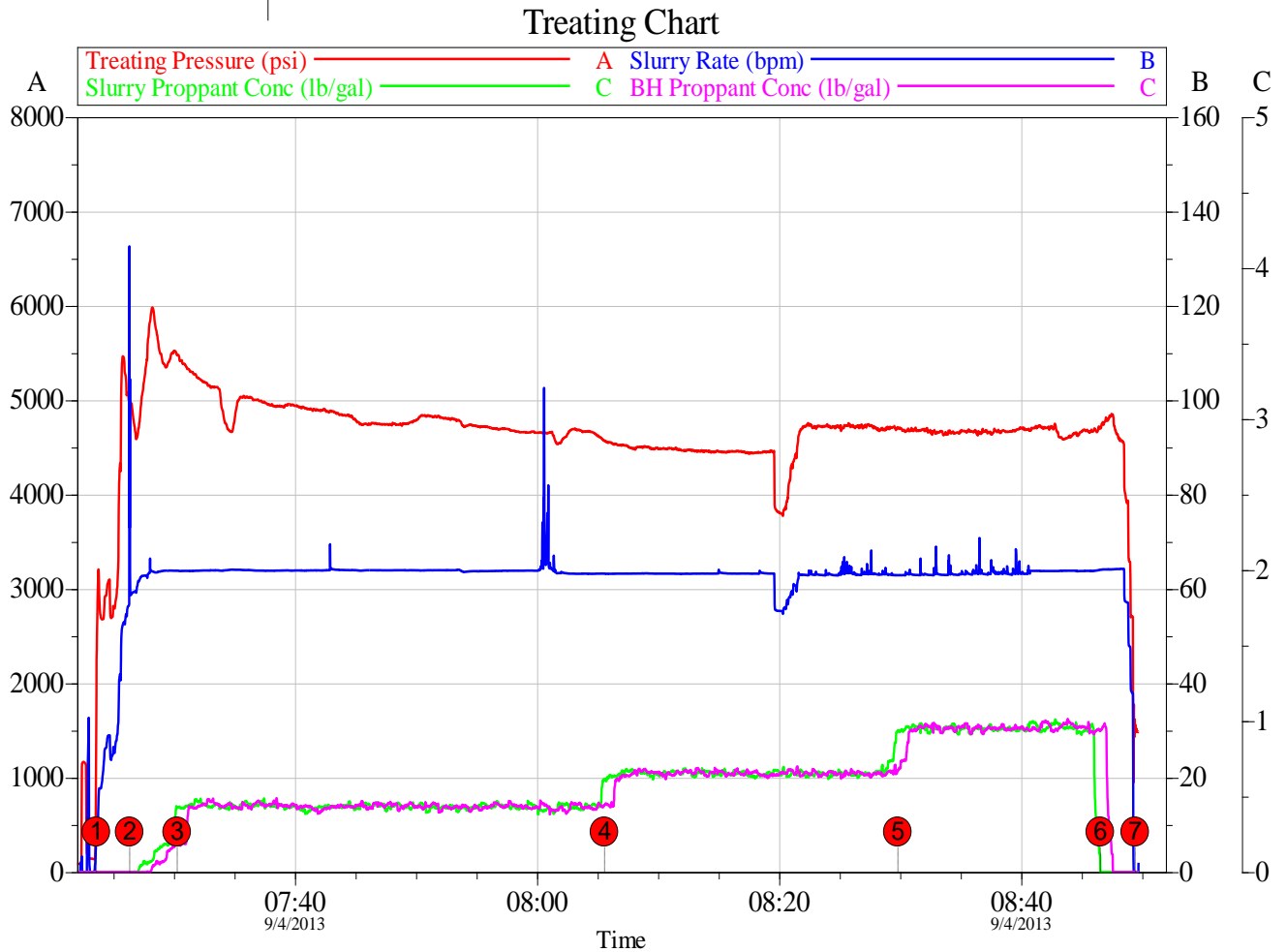
Chevron SKR 598-25-BV-22 Stage 3		
9/4/2013		
Engineering Notes		
Engineer on Location	Patrick Ealey	
ISDP	1579	psi
Initial Pressure(Breakdown)	3208	psi
Max Pressure	5982	psi
Average Pressure	4718	psi
Max Rate	64.2	bpm
Average Rate	63.5	bpm
Proppant Design Volume	137,138	lbs
Proppant in Formation	137,400	lbs
FR-66 Used	44	gals
BE-7 Used	178	gals
SandWedge WF	143	gals
SCW-4212 Used	32	gals
Clean Volume	5209	bbls
Start Time	7:23 AM	HH:MM
End Time	8:48 AM	HH:MM
Job Notes:		
Job pumped to completion. Lost the power end on pump #7559 during job.		

3.2 Job Event Log

Stage Number	Event Number	Time	Description	Comment	Treating Pressure psi	Slurry Rate bpm	Braden Pressure psi	Job Slurry Vol gal
	1	04-Sep-13 06:16:08	Start Job	Starting Job				
1		07:23:35	Stage 1	Pad	1900	6.7	2	5
		07:23:36	Start Averaging	Start Avg Trt 1	2257	7.0	2	10
	2	07:23:45	Break Formation		3208	14.4	2	72
2		07:26:20	Stage 2	Proppant Laden Fluid	5007	132.6	179	3805
3		07:30:16	Stage 3	Proppant Laden Fluid	5478	63.9	155	14197
4		08:05:34	Stage 4	Proppant Laden Fluid	4568	63.2	94	109079
	3	08:19:35	Other	Pump #7559 offline here due to loss of power end cooler	4391	63.3	86	146332
5		08:29:48	Stage 5	Proppant Laden Fluid	4712	62.9	81	172991
6		08:46:32	Stage 6	Flush	4700	64.1	75	217604
7		08:49:25	Stage 7	Shut-In	1546	0.0	75	224480
		08:49:41	End Averaging	End Avg Trt 1	1485	0.0	75	224480
	4	08:49:44	End Job	Ending Job	1485	2.0	75	224482

4.0 ATTACHMENTS

4.1 Treating Chart

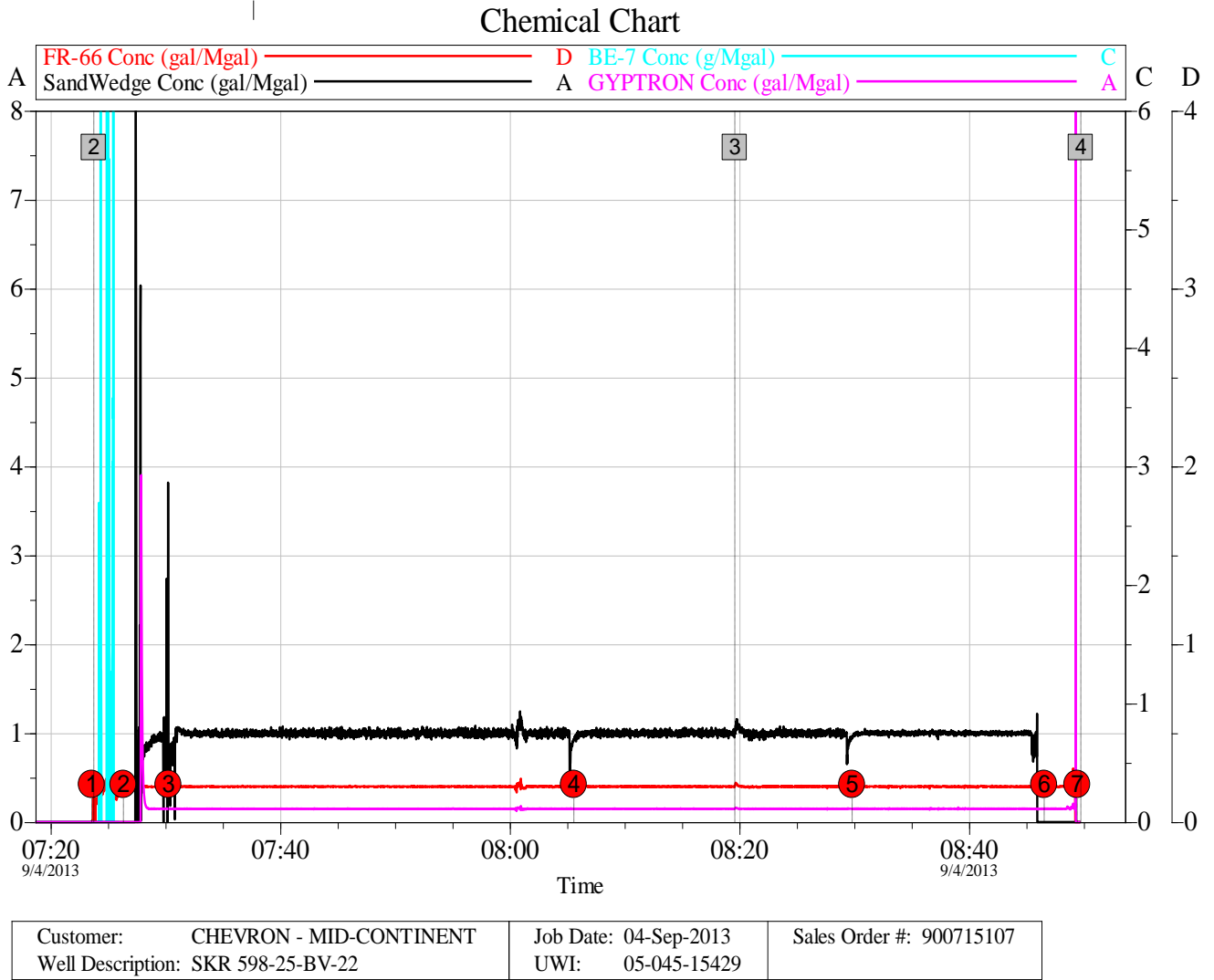


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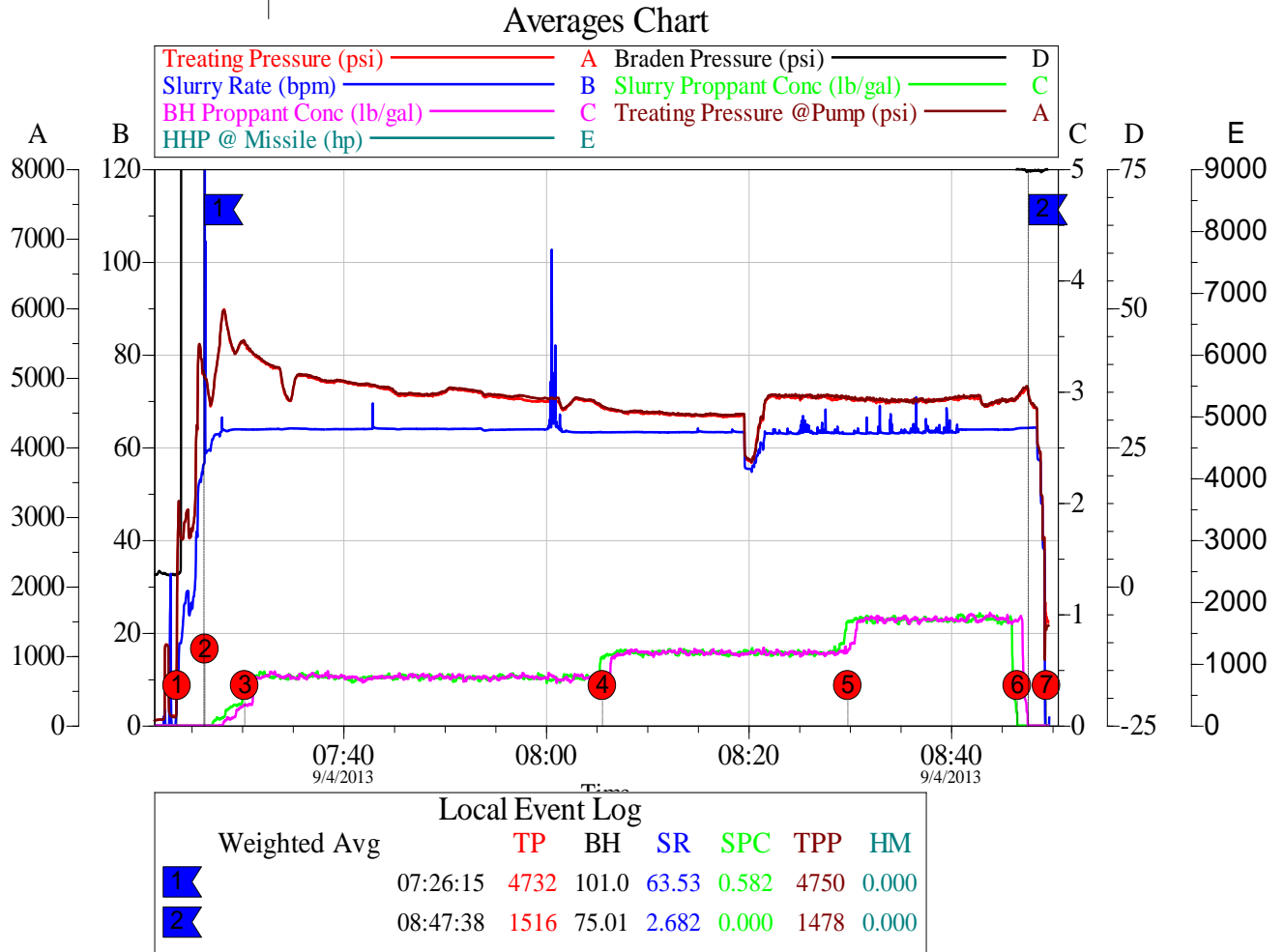
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4.2 Chemical Chart



4.3 Averages Chart

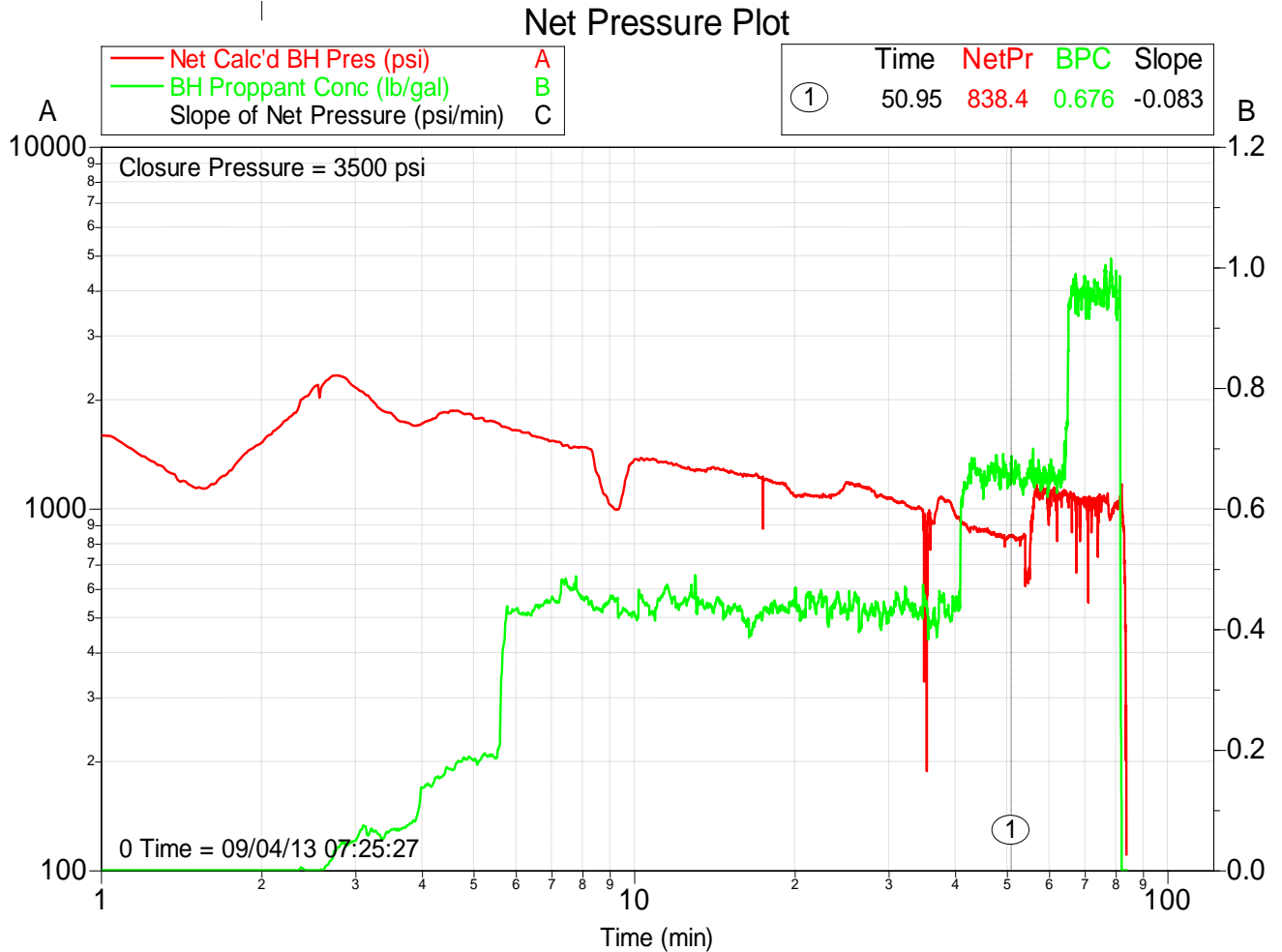


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4.4 Net Pressure Plot



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