

# HALLIBURTON

iCem<sup>®</sup> Service

## **WPX ENERGY LLC-EBUS**

**For: Mark Mewshaw**

### **GM 542-8 Production**

API# 05-045-22534-00

Job Date: Tuesday, June 07, 2016

Sincerely,  
Grand Junction Cement

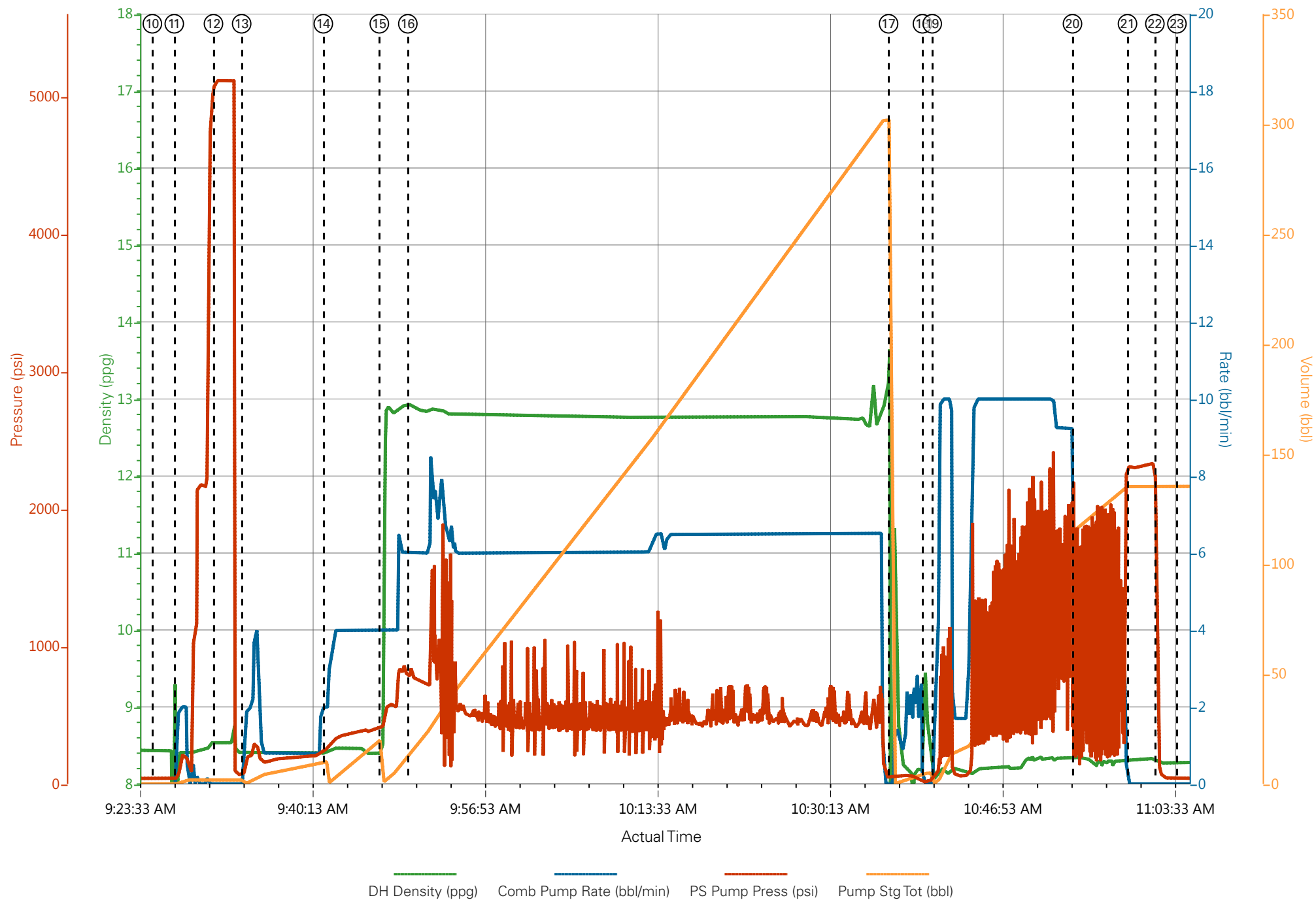
## 1.0 Real-Time Job Summary

## 1.1 Job Event Log

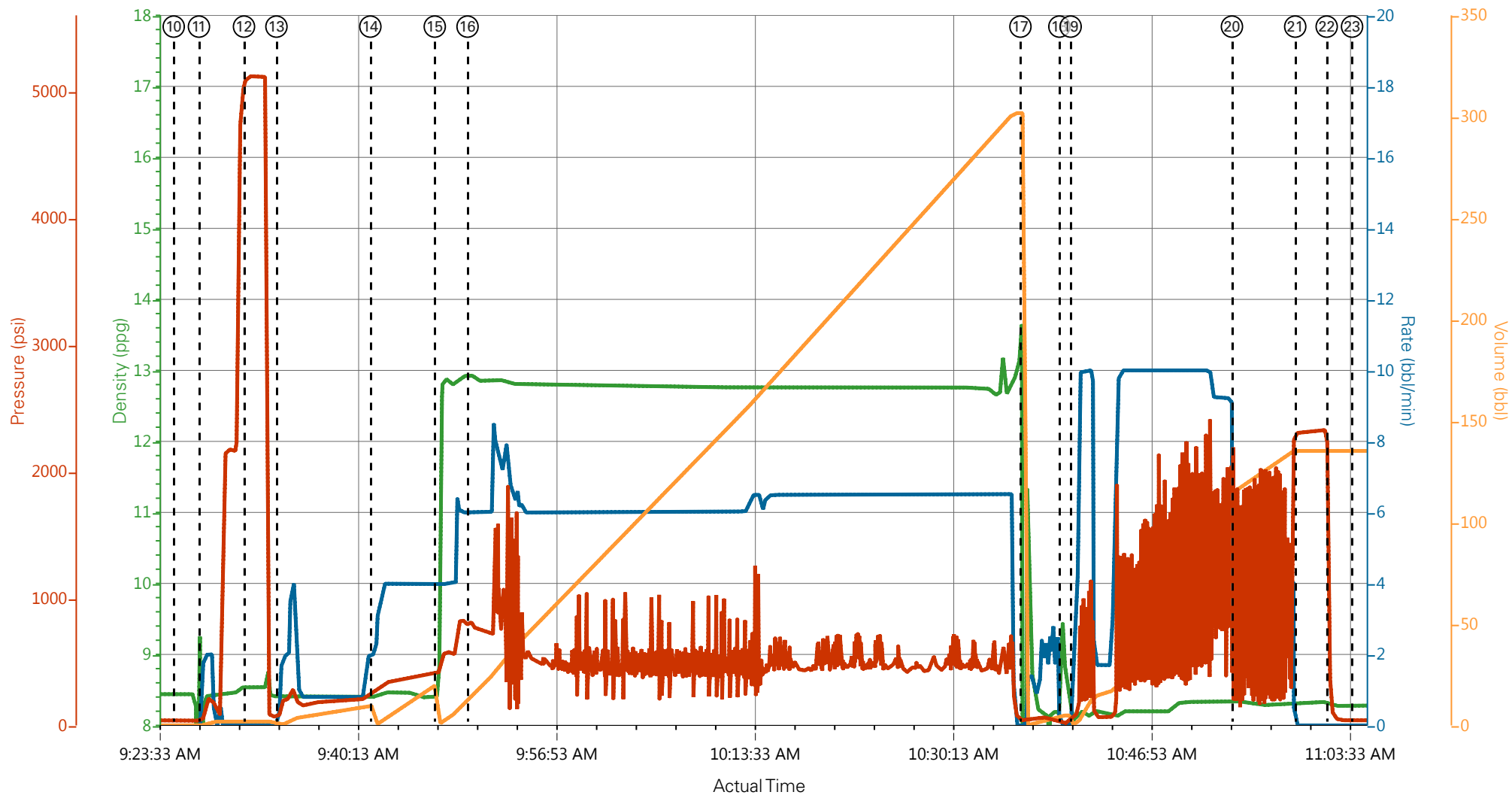
Type	Seq. No.	Graph Label	Date	Time	Source	Pass-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Comments
Event	1	Call Out	6/7/2016	01:00:00	USER					O/L time 0700
Event	2	Pre-Convoy Safety Meeting	6/7/2016	03:15:00	USER					
Event	3	Crew Leave Yard	6/7/2016	03:30:00	USER					1 Elite, 1 pickup
Event	4	Arrive At Location	6/7/2016	04:45:00	USER					Rig still running casing
Event	5	Assessment Of Location Safety Meeting	6/7/2016	05:00:00	USER					JSA completed - customer offered/received SDS
Event	6	Pre-Rig Up Safety Meeting	6/7/2016	07:15:00	USER					
Event	7	Rig-Up Equipment	6/7/2016	07:30:00	USER					1 hard line to standpipe, manifold on ground, hard line to wash up tanks, water hoses to day tank and upright, bulk hose to silo w/ compressor trailer
Event	8	Pre-Job Safety Meeting	6/7/2016	09:00:00	USER					All HES personnel, rig crew, and company rep
Event	9	Other	6/7/2016	09:10:00	USER					Water test pH 8.0, Cl 0, temp 68 degrees - rig circulating @ 11 bpm w/ 900 psi
Event	10	Start Job	6/7/2016	09:25:00	USER					TD 6961', TP 6955.17', SJ 28.85', Mud 10.3ppg, 8 3/4" OH, 9 5/8" 32.3# Surf csg @ 1658', 4 1/2" 11.6# P-110 casing
Event	11	Prime Lines	6/7/2016	09:27:07	USER	216	8.33	2.0	2.0	Fresh water
Event	12	Test Lines	6/7/2016	09:30:54	COM5	5120				Pressure held well
Event	13	Pump H2O Spacer	6/7/2016	09:33:37	COM5	280	8.33	4.0	10.0	Fresh water
Event	14	Pump Mud Flush	6/7/2016	09:41:31	COM5	419	8.33	4.0	20.0	80 lbs Mud Flush III

Event	15	Pump Cement	6/7/2016	09:46:55	COM5	810	12.7	6.5	266.4	800 sks NeoCem, 12.7 ppg, 1.87 yield, 8.74 gal/sk
Event	16	Check Weight	6/7/2016	09:49:41	COM5		12.7			Mud scales matched recirc
Event	17	Shutdown/Clean Lines	6/7/2016	10:36:08	COM5					Wash up to tanks
Event	18	Drop Top Plug	6/7/2016	10:39:24	COM5					Company rep verified plug launch
Event	19	Pump Displacement	6/7/2016	10:40:21	COM5	1720	8.33	10.0	107.4	3 lbs BE-6, 1 gal MMCR, 2% KCl
Event	20	Slow Rate	6/7/2016	10:53:54	USER	1168	8.33	4.0	10.0	Pipe reciprocated during cement job
Event	21	Bump Plug	6/7/2016	10:59:13	USER	1410				Good returns throughout job and tapered off towards the end of displacement
Event	22	Check Floats	6/7/2016	11:01:52	USER	2220				Floats held – 1 bbl flowback
Event	23	End Job	6/7/2016	11:04:00	COM5					No add hours, no sugar used
Event	24	Pre-Rig Down Safety Meeting	6/7/2016	11:15:00	USER					
Event	25	Rig-Down Equipment	6/7/2016	11:30:00	USER					
Event	26	Pre-Convoy Safety Meeting	6/7/2016	12:15:00	USER					
Event	27	Crew Leave Location	6/7/2016	12:30:00	USER					Thank you for using Halliburton - Ed Deussen and crew

# WPX - GM 542-8 - 4 1/2" Production



# WPX - GM 542-8 - 4 1/2" Production



DH Density (ppg) Comb Pump Rate (bbl/min) PS Pump Press (psi) Pump Stg Tot (bbl)

- |   |                          |                        |                                |                              |
|---|--------------------------|------------------------|--------------------------------|------------------------------|
| ① Call Out                              | ⑦ Rig-Up Equipment       | ⑬ Pump H2O Spacer      | ⑰ Pump Displacement            | 25 Rig-Down Equipment        |
| ② Pre-Convoy Safety Meeting             | ⑧ Pre-Job Safety Meeting | ⑭ Pump Mud Flush       | 20 Slow Rate                   | 26 Pre-Convoy Safety Meeting |
| ③ Crew Leave Yard                       | ⑨ Other                  | ⑮ Pump Cement          | 21 Bump Plug                   | 27 Crew Leave Location       |
| ④ Arrive At Location                    | ⑩ Start Job              | ⑯ Check Weight         | 22 Check Floats                |                              |
| ⑤ Assessment Of Location Safety Meeting | ⑪ Prime Lines            | ⑰ Shutdown/Clean Lines | 23 End Job                     |                              |
| ⑥ Pre-Rig Up Safety Meeting             | ⑫ Test Lines             | ⑱ Drop Top Plug        | 24 Pre-Rig Down Safety Meeting |                              |

▼ **HALLIBURTON** | iCem® Service

Created: 2016-06-07 05:28:20, Version: 4.2.393

Edit

Customer: WPX ENERGY LLC-EBUS

Job Date: 6/7/2016 8:40:15 AM

Well: GM 542-8

Representative: Beaude Oaks

Sales Order #: 903352813

Elite #8: Ed Deussen / Carl Kukus

# HALLIBURTON

## Rockies, Grand Junction

## Lab Results- Primary

### Job Information

<b>Request/Slurry</b>	2322976/2	<b>Rig Name</b>	H&P 318	<b>Date</b>	03/JUN/2016
<b>Submitted By</b>	Evan Russell	<b>Job Type</b>	Production Casing	<b>Bulk Plant</b>	Grand Junction
<b>Customer</b>	WPX Energy, Inc.	<b>Location</b>	Garfield	<b>Well</b>	GM 542-8

### Well Information

<b>Casing/Liner Size</b>	4.5 in	<b>Depth MD</b>	6959 ft	<b>BHST</b>	88°C / 191°F
<b>Hole Size</b>	8.75 in	<b>Depth TVD</b>	6501 ft	<b>BHCT</b>	53°C / 127°F
<b>Pressure</b>	3850 psi				

### Drilling Fluid Information

<b>Mud Supplier Name</b>	Baroid	<b>Mud Trade Name</b>		<b>Density</b>	9.9 lbm/gal
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### Cement Information - Primary Design

<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	<u>Cement Properties</u>	
NeoCem GJ1						Slurry Density	12.7 lbm/gal
						Slurry Yield	1.869 ft3/sack
						Water Requirement	8.744 gal/sack
						Total Mix Fluid	8.744 gal/sack
8.74	gal/sack	Fresh Water	Lab	12.03.13			
		Bentonite Wyoming - PB	Bulk Blend	03.06.16	Tank 17	Water Source	Fresh Water
		Econolite (Powder - PB)	Bulk Blend	03.06.16	U052815	Water Chloride	
		Na2SO4 (Sodium Sulfate) Salt	Bulk Blend	03.06.16	416B0164		
		HALAD-344 (PB)	Bulk Blend	03.06.16	15062040		
		NaCl (Sodium Chloride) Salt	Bulk Blend	03.06.16	Tank 14		
		HALAD-567	Bulk Blend	03.06.16	081115-139		
		Fe-2 (citric acid)	Bulk Blend	03.06.16	G84M308K5B		

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Thickening Time

04/JUN/2016

Temp (°F)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	40 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)
127	3850	35	19	3:38	4:00	4:23	4:54	5:00

800 Total Sacks

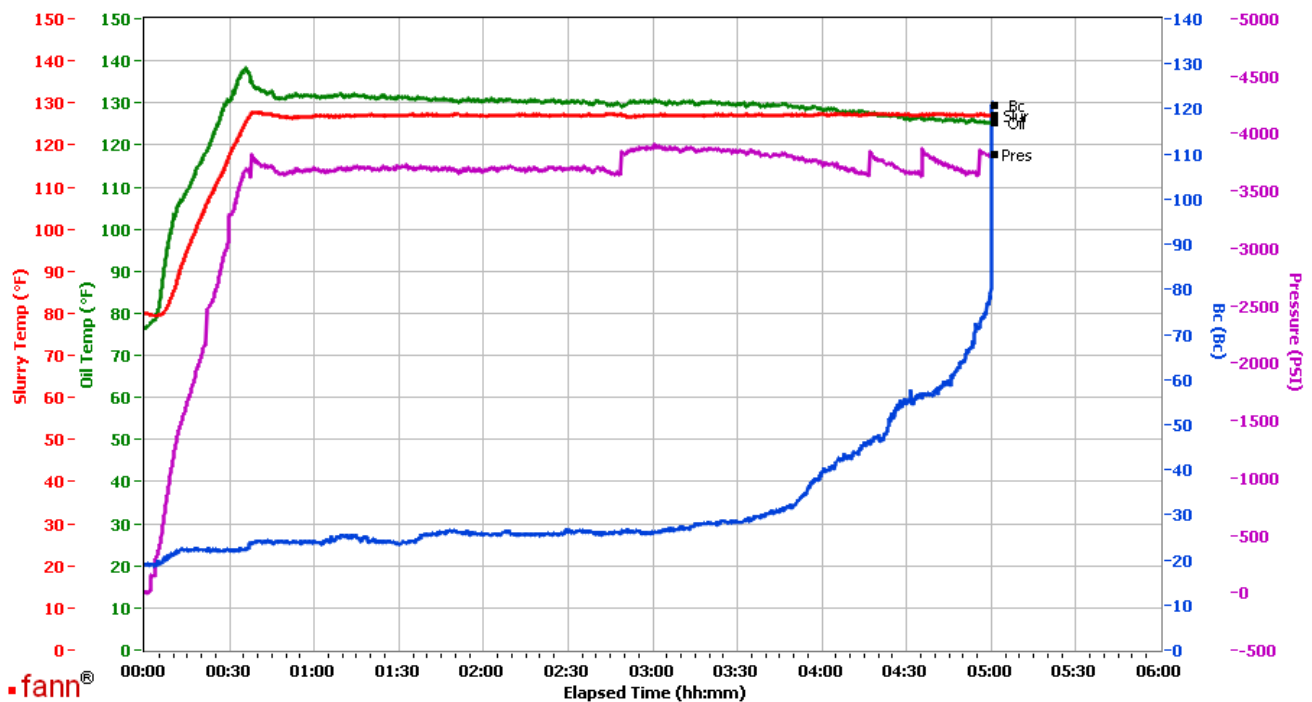
CS0445 TR 8658 400 SKS

Grand Junction, Colorado

Fields	Values
Project Name	GJ2322976-2 TERRA PRODUCTION BULK PR
Test ID	GJ2322976-2 TERRA
Request ID	
Tested by	JASON
Customer	TERRA
Well No	GM 542-8
Rig	H&P 318
Casing/Liner Size	4.5

Fields	Values
Job Type	PRODUCTION
Cement Type	
Cement Weight	Light Weight
Test Date	06/04/16
Test Time	08:14 AM
Temp. Units	degF
Pressure Units	PSI
SW Version	2.1.0.507

Events	Results
30.00 Bc	03h:38m
40.00 Bc	04h:00m
50.00 Bc	04h:23m
70.00 Bc	04h:54m
100.00 Bc	05h:00m
00h:30m	21.98
01h:00m	23.90
01h:30m	23.69



Data File C:\Documents and Settings\M290\Desktop\Test Data\GJ2322976-2 TERRA BULK PRIMARY.tdms

Comments CS0445 TR 8658 400 SKS

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# Operation Test Results Request ID 2322976/1

## Thickening Time

03/JUN/2016

Temp (°F)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	40 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)
127	3850	35	10	3:56	4:45	4:55	5:02	5:06

800 Total Sacks

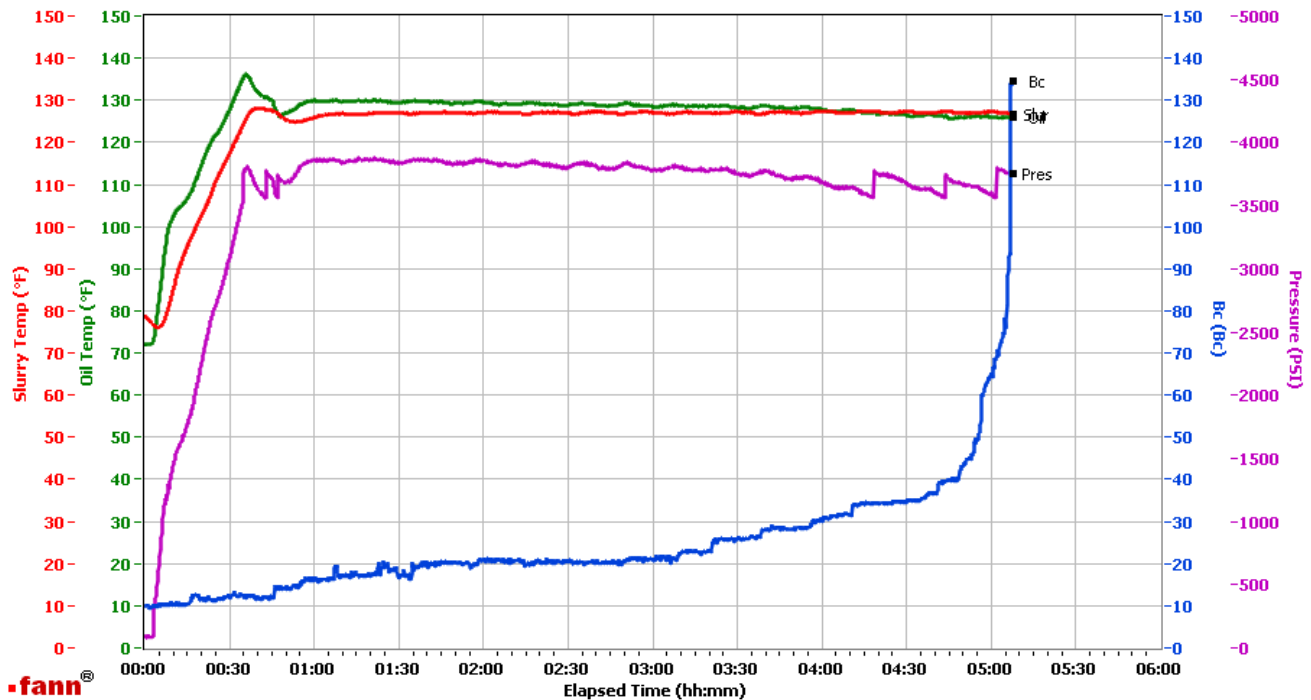
CS0444 TR 8678 400 SKS

## Grand Junction Colorado

Fields	Values
Project Name	GJ2322976-1 TERRA PRODUCTION BULK PR
Test ID	GJ2322976-1 TERRA
Request ID	
Tested by	JASON
Customer	TERRA
Well No	GM 542-8
Rig	H8P 318
Casing/Liner Size	4.5

Fields	Values
Job Type	PRODUCTION
Cement Type	
Cement Weight	Light Weight
Test Date	06/04/16
Test Time	12:18 AM
Temp. Units	degF
Pressure Units	PSI
SW Version	2.1.0.507

Events	Results
30.00 Bc	03h:56m
40.00 Bc	04h:45m
50.00 Bc	04h:55m
70.00 Bc	05h:02m
100.00 Bc	05h:06m
00h:30m	12.28
01h:00m	15.82
01h:30m	16.56



Data File C:\Documents and Settings\Administrator\Desktop\Test Data\GJ2322976-1 TERRA BULK PRIMARY.tdms

Comments CS0444 TR 8678 400 SKS

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