

HALLIBURTON

iCem[®] Service

WPX ENERGY LLC-EBUS

For: Mark Mewshaw

GM 442-8 Production

API# 05-045-22533-00

Job Date: Thursday, June 16, 2016

Sincerely,

Grand Junction Cement Engineering

1.0 Real-Time Job Summary

1.1 Job Event Log

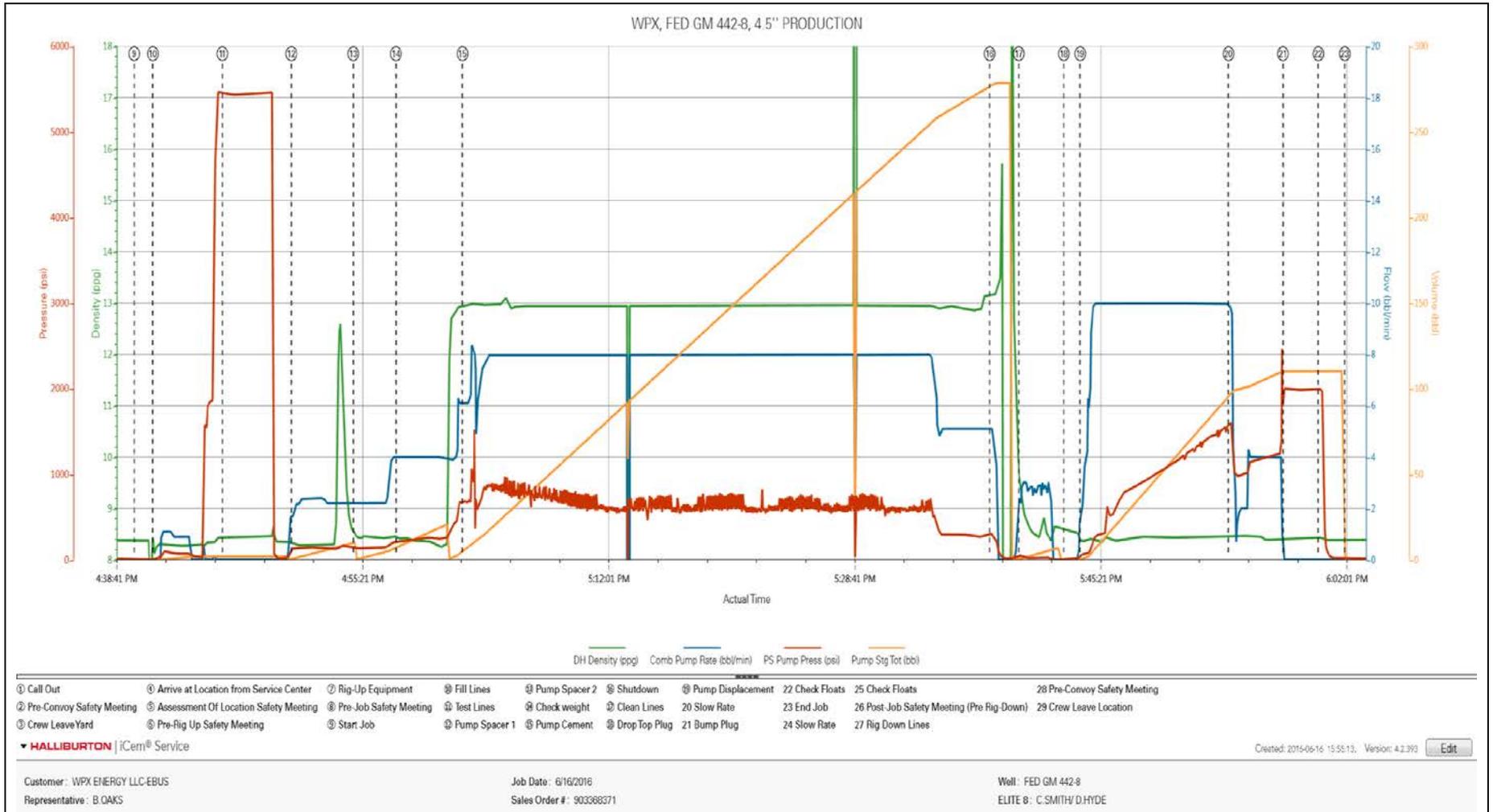
Type	Seq. No.	Graph Label	Date	Time	Source	Pass-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Comments
Event	1	Call Out	6/16/2016	06:00:00	USER					REQUESTED ON LOCATION @ 1400
Event	2	Pre-Convoy Safety Meeting	6/16/2016	08:45:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	6/16/2016	08:50:00	USER					1 F550 & PUMP TRUCK, COMPRESSOR TRAILER
Event	4	Arrive at Location from Service Center	6/16/2016	12:00:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	6/16/2016	12:15:00	USER					MET WITH COMP REP, BEAUDE OAKS, AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7, CHLORIDES- 0, TEMP- 60F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Pre-Rig Up Safety Meeting	6/16/2016	15:00:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	6/16/2016	15:10:00	USER					HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	6/16/2016	16:20:00	USER					ALL HES AND RIG CREW PRESENT
Event	9	Start Job	6/16/2016	16:40:00	USER					TD 6833', TP 6823', SJ 29.85', OH 8.75", CSG 4.5" 11.6#, MUD 10 PPG.

Event	10	Fill Lines	6/16/2016	16:41:15	USER	90.00	8.25	0.00	0.0	8.33 PPG FRESH WATER
Event	11	Test Lines	6/16/2016	16:45:58	COM6	5444.00	8.44	0.00	1.9	ALL LINES HELD PRESSURE AT 5450 PSI
Event	12	Pump Spacer 1	6/16/2016	16:50:38	COM6	124.00	8.31	1.70	0.5	8.33 PPG FRESH WATER (10BBL)
Event	13	Pump Spacer 2	6/16/2016	16:54:50	COM6	139.00	8.49	2.20	10.1	8.4 MUD FLUSH (20BBL)
Event	14	Check weight	6/16/2016	16:57:43	COM6		12.83			WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	15	Pump Cement	6/16/2016	17:02:14	COM6	686.00	12.84	6.10	5.4	NEOCEM CEMENT 800 SKS (266.4 BBLS), 12.7 PPG, 1.87 FT3/SK, 8.71 GAL/SK
Event	16	Shutdown	6/16/2016	17:37:56	USER					END OF CEMENT
Event	17	Clean Lines	6/16/2016	17:39:55	USER					WASH UP PUMPS AND LINES TO PIT
Event	18	Drop Top Plug	6/16/2016	17:42:57	USER					PLUG WENT, VERIFIED BY COMP REP.
Event	19	Pump Displacement	6/16/2016	17:44:04	COM6	63.00	8.35	1.90	0.3	8.34 PPG KCL WATER (105.3 BBLS) 1 GL MMCR, 3 BAGS BE6, 14 SACKS OF KCL
Event	20	Slow Rate	6/16/2016	17:54:07	USER	1616.00	8.46	9.80	97.0	SLOW RATE TO 4 BPM PER CO REP TO LAND PLUG
Event	21	Bump Plug	6/16/2016	17:57:48	COM6					LAND PLUG AT 1302 PSI, BROUGHT UP TO 1990 PSI
Event	22	Check Floats	6/16/2016	18:00:12	USER	1995.00	8.43	0.00	110.1	FLOATS HELD
Event	23	End Job	6/16/2016	18:02:00	USER					RETURNS THROUGHOUT JOB, PIPE WAS NOT RECIPROCATED DURING THE JOB, 0 BBL OF CEMENT BACK TO SURFACE
Event	24	Slow Rate	6/16/2016	18:15:00	USER					SLOW RATE TO 2 BPM PER CO REP TO LAND PLUG

Event	25	Check Floats	6/16/2016	18:30:00	USER	FLOATS HELD, 1 BBL BACK TO TRUCK
Event	26	Post-Job Safety Meeting (Pre Rig-Down)	6/16/2016	19:00:00	USER	ALL HES PRESENT
Event	27	Rig Down Lines	6/16/2016	19:10:00	USER	ALL HES PRESENT
Event	28	Pre-Convoy Safety Meeting	6/16/2016	20:00:00	USER	ALL HES PRESENT
Event	29	Crew Leave Location	6/16/2016	20:10:00	USER	THANK YOU FOR CHOOSING HALLIBURTON CEMENT, CHRIS SMITH AND CREW

2.0 Attachments

2.1 CHART.png



Job Information

Request/Slurry	2324676/2	Rig Name	H&P 318	Date	14/JUN/2016
Submitted By	Evan Russell	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	WPX Energy, Inc.	Location	Garfield	Well	GM 442-8

Well Information

Casing/Liner Size	4.5 in	Depth MD	6843 ft	BHST	89°C / 192°F
Hole Size	8.75 in	Depth TVD	6508 ft	BHCT	53°C / 127°F
Pressure	3900 psi				

Drilling Fluid Information

Mud Supplier Name	Baroid	Mud Trade Name	BARADRIL-N	Density	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™ Cement				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
		Cement Blend						
		Fresh Water	Lab	12.03.13				
		Bentonite Wyoming - PB	Bulk Blend	14.06.16	Tank 17	Water Source	Fresh Water	
		Econolite (Powder - PB)	Bulk Blend	14.06.16	U070415	Water Chloride		
		Na2SO4 (Sodium Sulfate) Salt	Bulk Blend	14.06.16	02-05-16			
		HALAD-344 (PB)	Bulk Blend	14.06.16	15073140			
		NaCl (Sodium Chloride) Salt	Bulk Blend	14.06.16	Tank 14			
		HALAD-567	Bulk Blend	14.06.16	08115-139			
		Fe-2 (citric acid)	Bulk Blend	14.06.16	GA5L27BK5E			

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Operation Test Results Request ID 2324676/2

Thickening Time

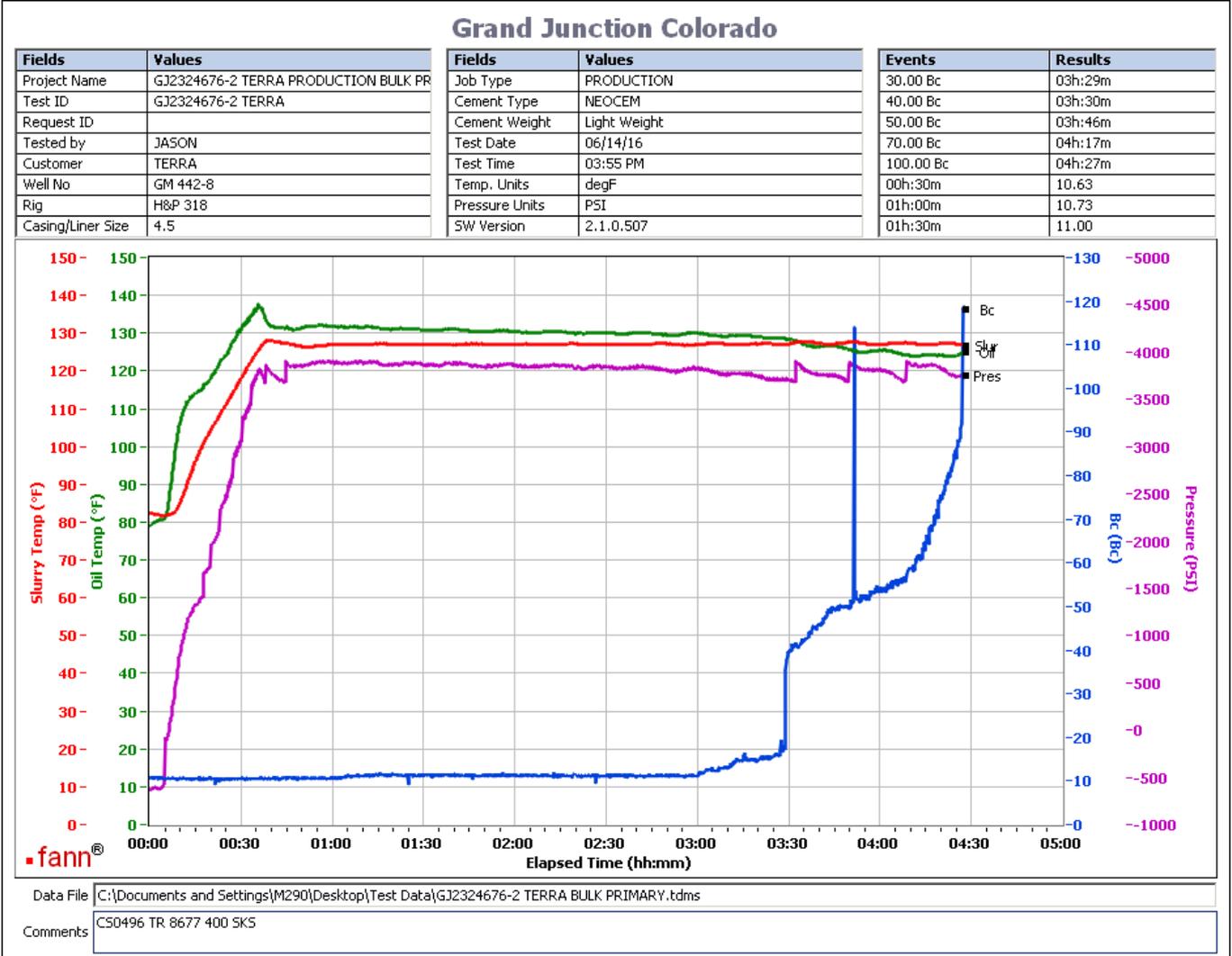
15/JUN/2016

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	3900	35	11	3:29	3:30	3:46	4:17	4:27

800 Total Sacks

CS0496 TR 8677 400 SKS

70 Bc and 100 Bc results taken from graph.



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15/JUN/2016

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127	3900	35	8	3:47	4:06	4:31	4:37	4:37

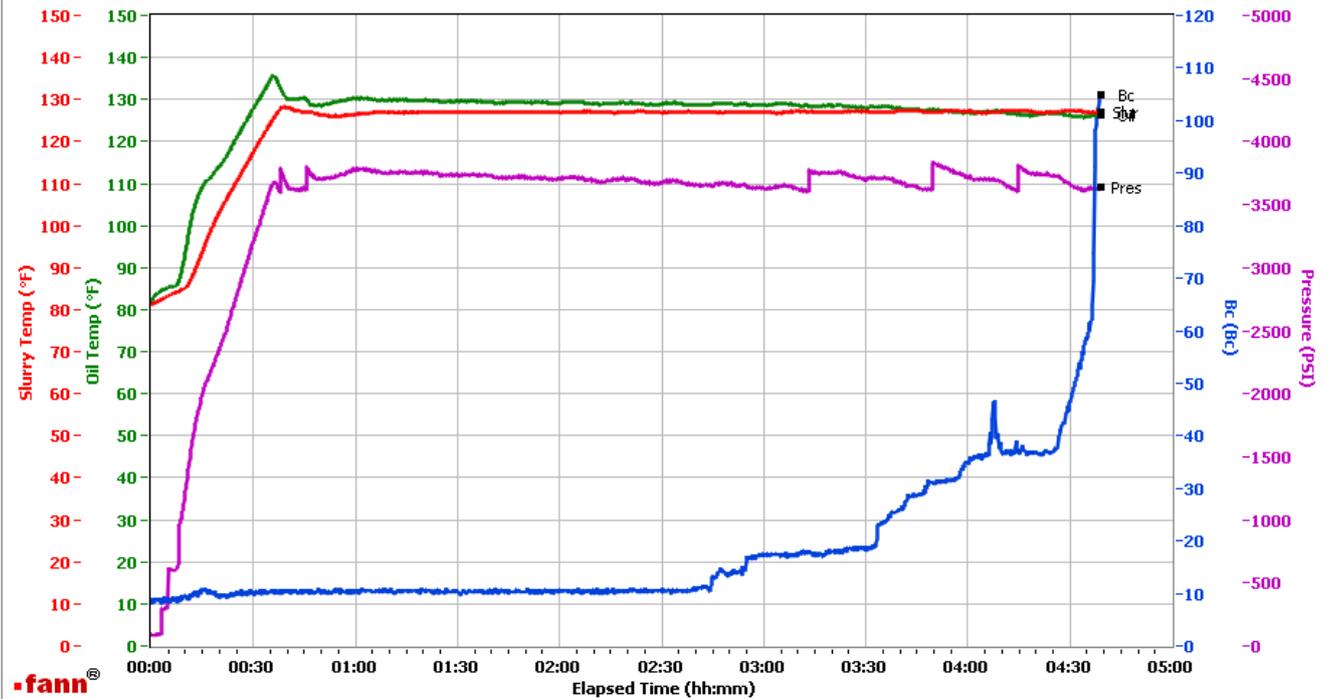
800 Total Sacks
CS0495 TR 8658 400 SKS

Grand Junction Colorado

Fields	Values
Project Name	GJ2324676-1 TERRA PRODUCTION BULK PR
Test ID	GJ2324676-1 TERRA
Request ID	
Tested by	JASON
Customer	TERRA
Well No	GM 442-8
Rig	H8P 318
Casing/Liner Size	4.5

Fields	Values
Job Type	PRODUCTION
Cement Type	NEOCEM
Cement Weight	Light Weight
Test Date	06/14/16
Test Time	11:07 PM
Temp. Units	degF
Pressure Units	PSI
SW Version	2.1.0.507

Events	Results
30.00 Bc	03h:47m
40.00 Bc	04h:06m
50.00 Bc	04h:31m
70.00 Bc	04h:37m
100.00 Bc	04h:37m
00h:30m	9.93
01h:00m	10.52
01h:30m	10.40



Data File C:\Documents and Settings\Administrator\Local Settings\Temporary Internet Files\Content.IE5\OPEF4HI7\GJ2324676-1 TERRA BULK PRIMARY[1].tdms
 Comments CS0495 TR 8658 400 SKS

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