

HALLIBURTON

iCem[®] Service

WPX ENERGY LLC-EBUS

For: Mark Mewshaw

Date: Monday, July 04, 2016

GM 432-9 Production

API # 05-045-22535-00

Sincerely,

Grand Junction Cement Engineering

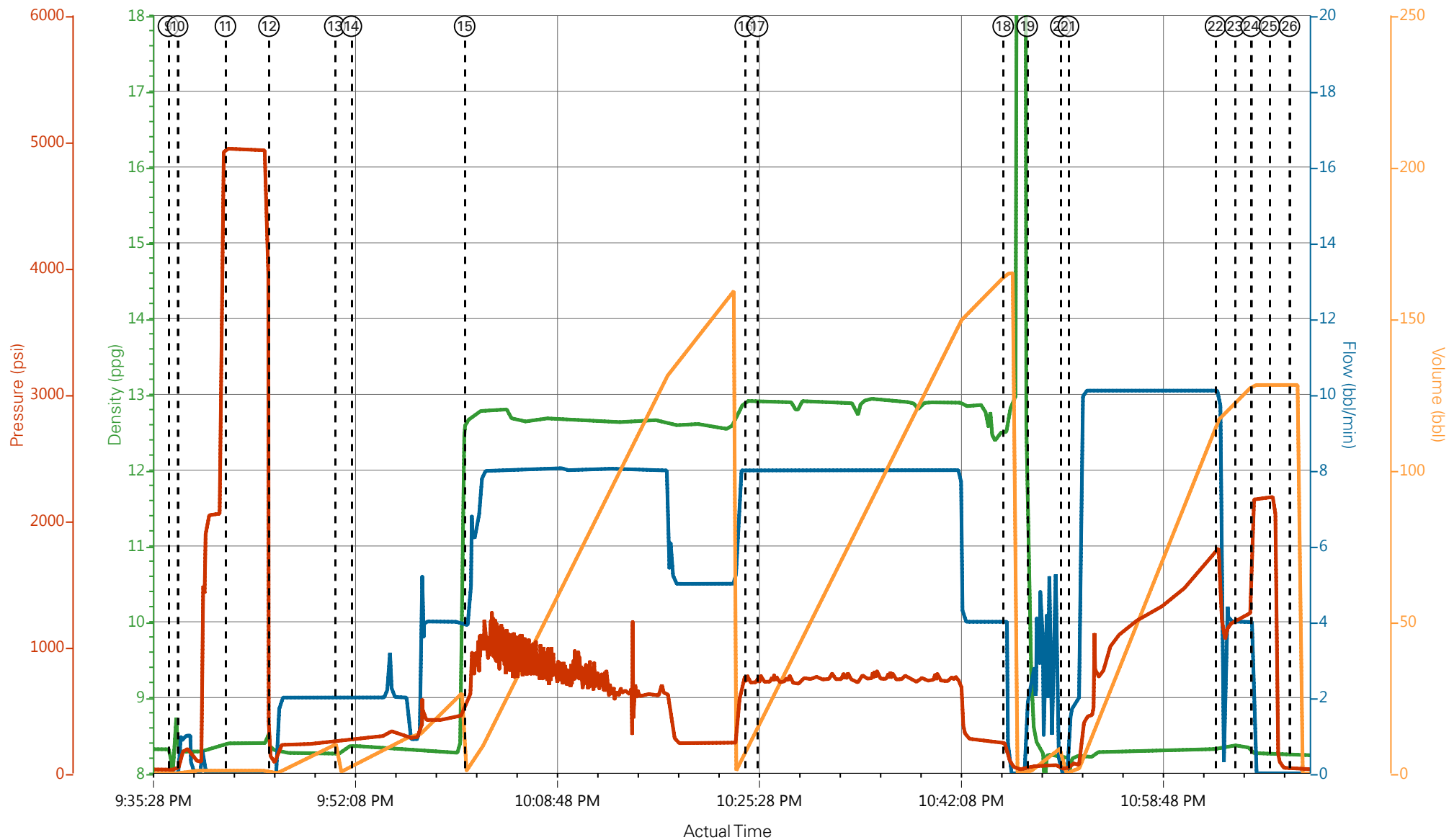
1.0 Real-Time Job Summary

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	7/4/2016	13:00:00	USER					REQUESTED ON LOCATION @ 1930
Event	2	Pre-Convoy Safety Meeting	7/4/2016	15:30:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	7/4/2016	15:45:00	USER					1 F550 & 2 660 BULK TURCKS, 1 PUMP TRUCK
Event	4	Arrive At Loc	7/4/2016	17:00:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	7/4/2016	17:30:00	USER					MET WITH COMP REP, B.OAKS, AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7, CHLORIDES- 0, TEMP- 55F). COMP REP WAS OFFERED SDS FOR ALL CHEMICALS USED BY HES.
Event	6	Pre-Rig Up Safety Meeting	7/4/2016	20:00:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	7/4/2016	20:15:00	USER					HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	7/4/2016	21:15:00	USER					ALL HES AND RIG CREW PRESENT
Event	9	Start Job	7/4/2016	21:37:00	USER					TD 7921', TP 7914.45', SJ 28.85', OH 8.75", CSG 4.5" 11.6#, MUD 9.8 PPG. RIG CIRCULATED WELL @ APPROX. 16 BPM FOR APPROX 1.5 HRS.
Event	10	Fill Lines	7/4/2016	21:37:45	USER	102.00	8.28	0.90	0.1	8.33 PPG FRESH WATER
Event	11	Test Lines	7/4/2016	21:41:42	COM6	4946.00	8.40	0.00	0.9	ALL LINES HELD PRESSURE AT 5000 PSI
Event	12	Pump Spacer 1	7/4/2016	21:45:17	COM6	84.00	8.31	0.00	0.0	8.33 PPG FRESH WATER (10BBL)
Event	13	Pump Spacer 2	7/4/2016	21:50:43	COM6	251.00	8.26	2.00	0.0	8.4 PPG MUDFLUSH III (20BBL)
Event	14	Check weight	7/4/2016	21:52:05	COM6					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	15	Pump Lead Cement	7/4/2016	22:01:26	COM6	561.00	12.66	3.90	1.4	NEOCEM CEMENT 430 SKS (150 BBLs), 12.5 PPG, 1.96 FT3/SK, 9.34 GAL/SK, WITH TUFF FIBER

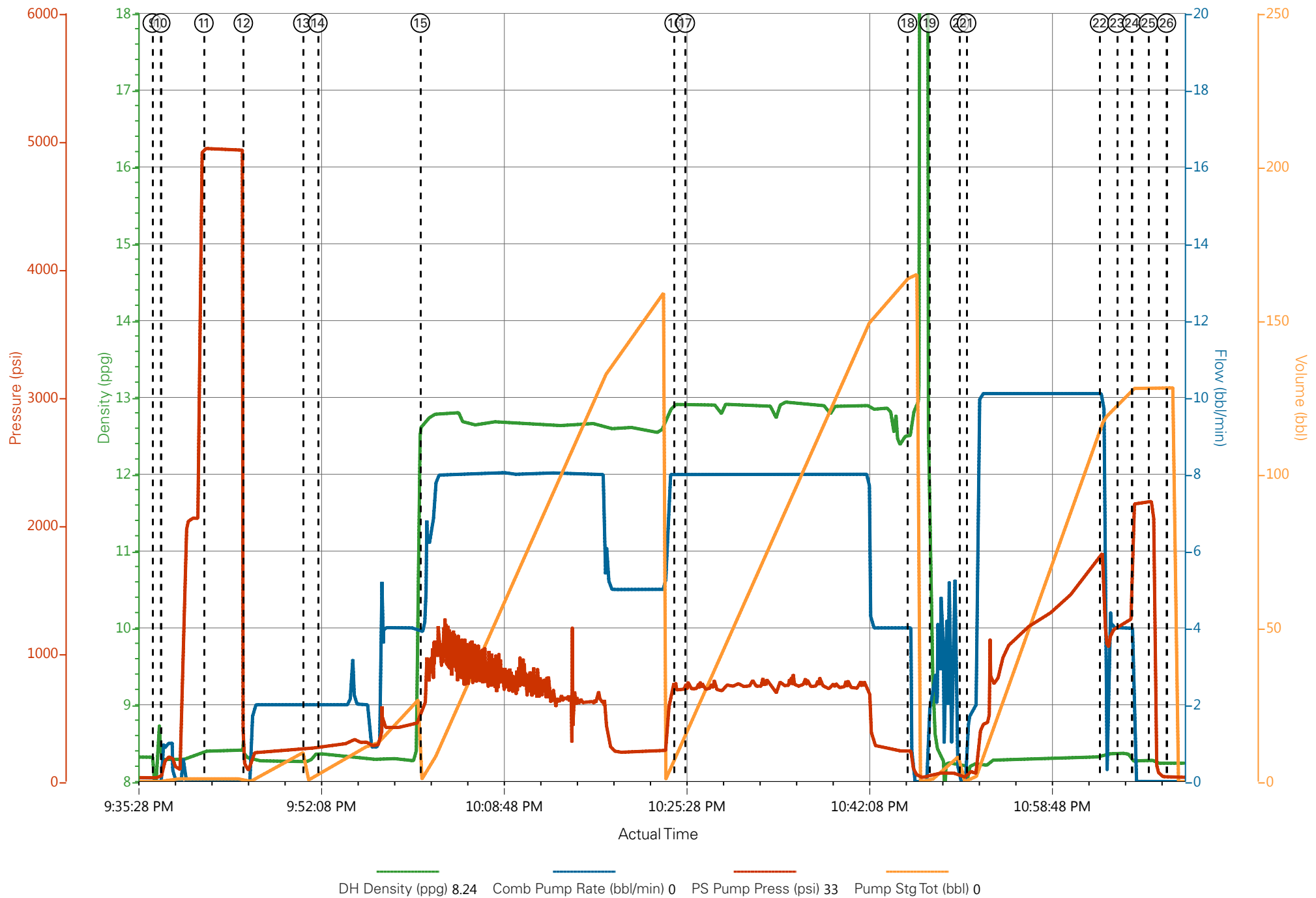
Event	16	Pump Tail Cement	7/4/2016	22:24:36	COM6	733.00	12.92	8.00	8.7	NEOCER CEMENT 435 SKS (145 BBLs), 12.8 PPG, 1.87 FT ³ /SK, 8.7 GAL/SK.
Event	17	Check weight	7/4/2016	22:25:37	COM6					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	18	Shutdown	7/4/2016	22:45:53	USER					END OF CEMENT
Event	19	Clean Lines	7/4/2016	22:47:52	USER					WASH UP PUMPS AND LINES ON TOP OF PLUG
Event	20	Drop Top Plug	7/4/2016	22:50:38	USER					PLUG WENT, VERIFIED BY CO REP
Event	21	Pump Displacement	7/4/2016	22:51:16	COM6	88.00	8.21	1.70	0.4	8.34 PPG FRESH WATER (122 BBLs) 3 BAGS BE6, 1 GAL MMCR & 14 SKS KCL
Event	22	Slow Rate	7/4/2016	23:03:24	USER	1789.00	8.32	10.10	116.7	SLOW RATE TO 4 BPM PER CO REP TO LAND PLUG
Event	23	Post-Job Safety Meeting (Pre Rig-Down)	7/4/2016	23:05:00	USER					ALL HES PRESENT
Event	24	Bump Plug	7/4/2016	23:06:21	COM6	2177.00	8.27	0.00	128.1	LAND PLUG AT 1270 PSI, BROUGHT UP TO 2178 PSI
Event	25	Check Floats	7/4/2016	23:07:51	COM6	2188.00	8.28	0.00	128.1	FLOATS HELD
Event	26	End Job	7/4/2016	23:09:30	USER					RETURNS THROUGHOUT JOB, PIPE WAS RECIPROCATED DURING THE JOB, 0 BBL OF CEMENT BACK TO SURFACE
Event	27	Rig Down Lines	7/4/2016	23:15:00	USER					ALL HES PRESENT
Event	28	Pre-Convoy Safety Meeting	7/4/2016	23:59:00	USER					ALL HES PRESENT
Event	29	Crew Leave Location	7/5/2016	00:30:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, CHRIS SMITH AND CREW

TERRA, FED GM 432-9, 4.5" PRODUCTION



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|-----------------------------|-------------------|---|--------------------------|--------------|-----------------|-----------------|--------------------|
| ① Call Out | ③ Crew Leave Yard | ⑤ Assessment Of Location Safety Meeting | ⑦ Rig-Up Equipment | ⑨ Start Job | ⑪ Test Lines | ⑬ Pump Spacer 2 | ⑮ Pump Lead Cement |
| ② Pre-Convoy Safety Meeting | ④ Arrive At Loc | ⑥ Pre-Rig Up Safety Meeting | ⑧ Pre-Job Safety Meeting | ⑩ Fill Lines | ⑫ Pump Spacer 1 | ⑭ Check weight | ⑯ Pump Tail Cement |

TERRA, FED GM 432-9, 4.5" PRODUCTION



Job Information

Request/Slurry	2327243/1	Rig Name	H&P 318	Date	29/JUN/2016
Submitted By	Aaron Katz	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	WPX Energy, Inc.	Location	Garfield	Well	GM 432-9

Well Information

Casing/Liner Size	4.5 in	Depth MD	7920 ft	BHST	89°C / 193°F
Hole Size	8.75 in	Depth TVD	6621 ft	BHCT	53°C / 128°F
Pressure	3930 psi				

Drilling Fluid Information

Mud Supplier Name	Baroid	Mud Trade Name	BARADRIL-N	Density	9.9 lbm/gal
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Cement Information - Lead Design



Conc	UOM	Cement/Additive	Sample Type	Sample Date	Lot No.	Cement Properties	
		NeoCem GJ1				Slurry Density	12.5 lbm/gal
		Fresh Water	Lab	12.03.13		Slurry Yield	1.96 ft3/sack
		Bentonite Wyoming - PB	Bulk Blend	29.06.16	tank 17 &24	Water Requirement	9.406 gal/sack
		Econolite (Powder - PB)	Bulk Blend	29.06.16	U070415	Total Mix Fluid	9.406 gal/sack
		Na2SO4 (Sodium Sulfate)	Bulk Blend	29.06.16	02-05-16		
		HALAD-344 (PB)	Bulk Blend	29.06.16	16022940	Water Source	Fresh Water
		NaCl (Sodium Chloride)	Bulk Blend	29.06.16	tank 14/32615ADC	Water Chloride	
		Salt			AA		
		HALAD-567	Bulk Blend	29.06.16	08115-139		
		Fe-2 (citric acid)	Bulk Blend	29.06.16	GA5LZ7BK5E		
		Pol-E-Flake	Bulk Blend	29.06.16			

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Operation Test Results Request ID 2327243/1

Thickening Time

30/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)
128	3930	35	10	4:22	4:32	4:57	7:51	8:52

430 Total Sacks

CS0581 TR#8658 430 SKS

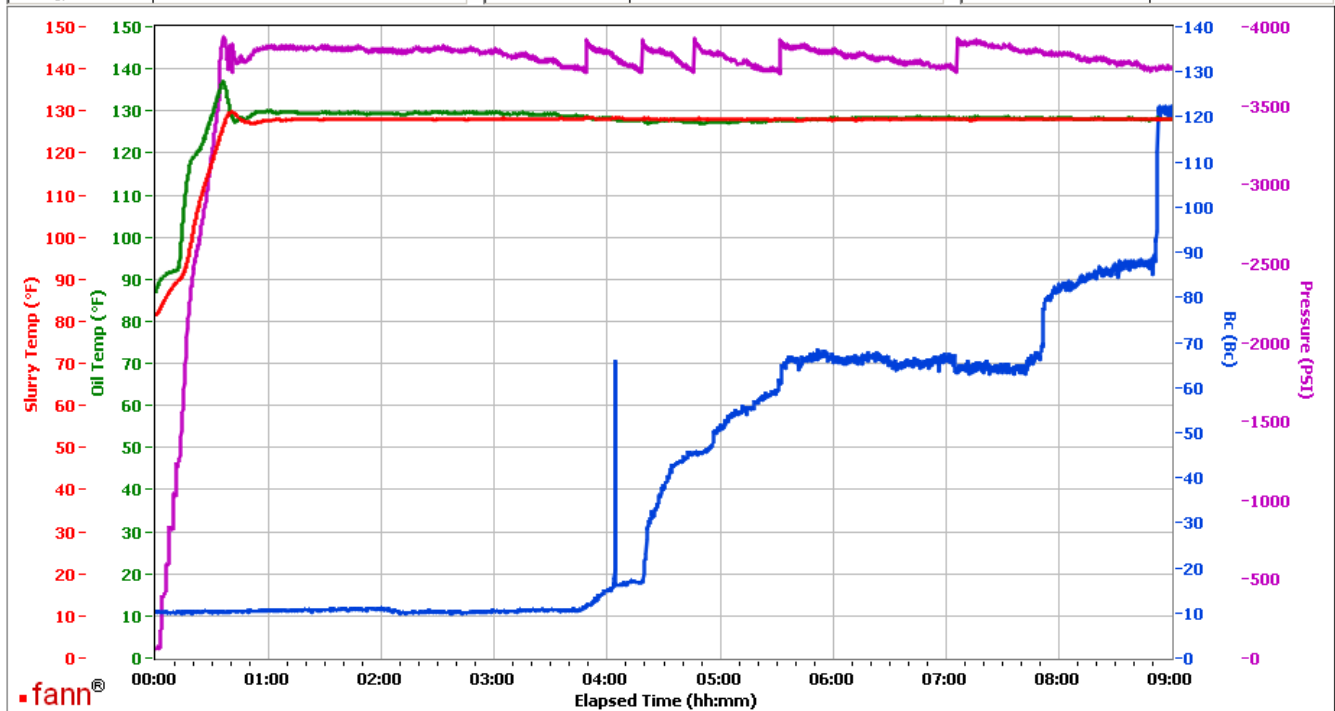
Results taken from graph for 30, 40 and 50 Bc.

Grand Junction Colorado

Fields	Values
Project Name	GJ2327243-1
Test ID	GJ2327243-1 WPX BULK LEAD
Request ID	
Tested by	DEBA
Customer	WPX
Well No	HM 432-9
Rig	
Casing/Liner Size	

Fields	Values
Job Type	
Cement Type	
Cement Weight	Standard
Test Date	06/29/16
Test Time	06:08 PM
Temp. Units	degF
Pressure Units	PSI
SW Version	2.1.0.507

Events	Results
30.00 Bc	04h:22m
40.00 Bc	04h:32m
50.00 Bc	04h:57m
70.00 Bc	07h:51m
100.00 Bc	08h:52m
00h:30m	9.98
01h:00m	10.50
01h:30m	10.58



Data File C:\Documents and Settings\M290\Local Settings\Temporary Internet Files\Content.IE5\CDER4HUW\GJ2327243-1 WPX BULK LEAD[1].tdms

Comments CS0581 TR#8658 430 SKS

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HALLIBURTON

Rockies, Grand Junction

Lab Results- Tail

Job Information

Request/Slurry	2327244/2	Rig Name	H&P 318	Date	29/JUN/2016
Submitted By	Aaron Katz	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	WPX Energy, Inc.	Location	Garfield	Well	GM 432-9

Well Information

Casing/Liner Size	4.5 in	Depth MD	7920 ft	BHST	89°C / 193°F
Hole Size	8.75 in	Depth TVD	6621 ft	BHCT	53°C / 128°F
Pressure	3930 psi				

Drilling Fluid Information

Mud Supplier Name	Baroid	Mud Trade Name	BARADRIL-N	Density	9.9 lbm/gal
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Cement Information - Tail 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
		Fresh Water	Lab	12.03.13		Slurry Yield	1.869 ft3/sack
		Bentonite Wyoming - PB	Bulk Blend	01.07.16	Tank 17	Water Requirement	8.744 gal/sack
		Econolite (Powder - PB)	Bulk Blend	01.07.16	U070415	Total Mix Fluid	8.744 gal/sack
		Na2SO4 (Sodium Sulfate) Salt	Bulk Blend	01.07.16	02-05-16		
		HALAD-344 (PB)	Bulk Blend	01.07.16	16022940	Water Source	Fresh Water
		NaCl (Sodium Chloride) Salt	Bulk Blend	01.07.16	32615ADCAA	Water Chloride	
		HALAD-567	Bulk Blend	01.07.16	08115-139		
		Fe-2 (citric acid)	Bulk Blend	01.07.16	GA5LZ7BK5E		

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Operation Test Results Request ID 2327244/2

Thickening Time

02/JUL/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)
128	3930	35	8	3:51	4:19	4:28	4:35	4:45

435 Total Sks

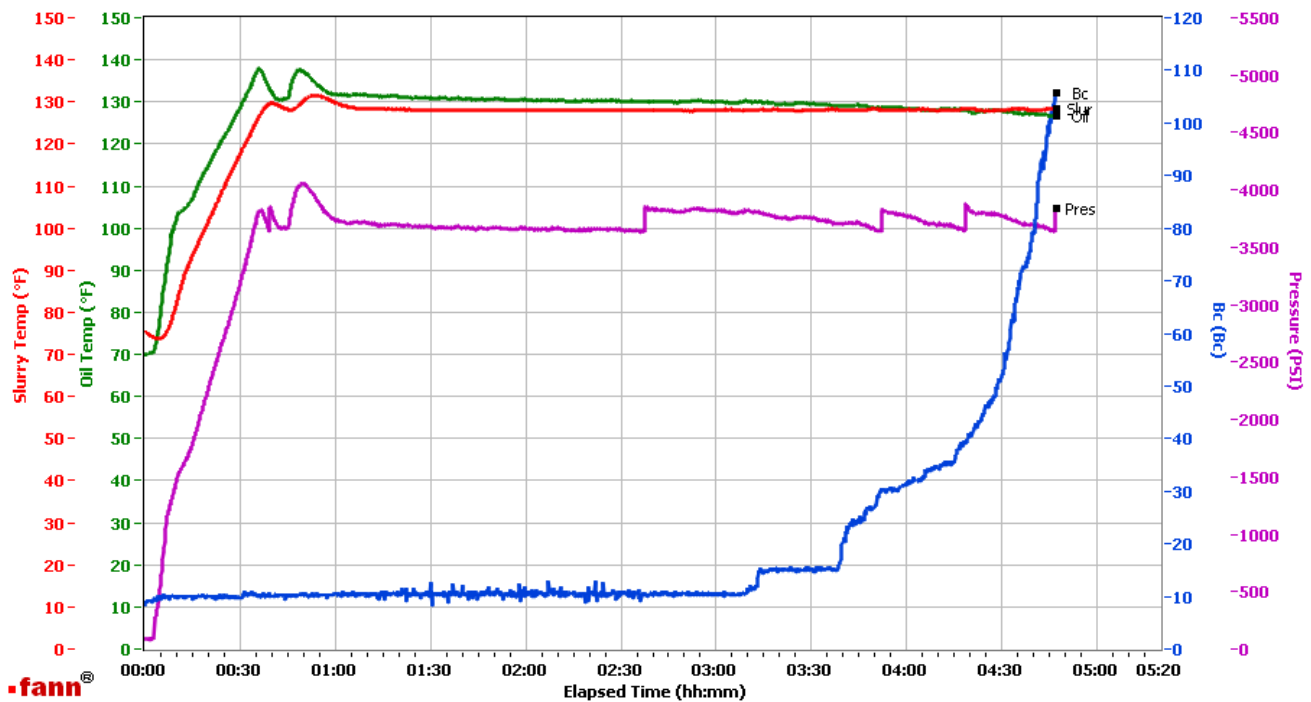
CS0590 TR 5839 217.5 SKS

Grand Junction Colorado

Fields	Values
Project Name	GJ2327244-2 TERRA PRODUCTION BULK TA
Test ID	GJ2327244-2 TERRA
Request ID	
Tested by	JASON
Customer	TERRA
Well No	GM 432-9
Rig	H&P 318
Casing/Liner Size	4.5

Fields	Values
Job Type	PRODUCTION
Cement Type	NEOCEM
Cement Weight	Light Weight
Test Date	07/01/16
Test Time	10:21 PM
Temp. Units	degF
Pressure Units	PSI
SW Version	2.1.0.507

Events	Results
30.00 Bc	03h:51m
40.00 Bc	04h:19m
50.00 Bc	04h:28m
70.00 Bc	04h:35m
100.00 Bc	04h:45m
00h:30m	9.66
01h:00m	10.31
01h:30m	12.56



Data File C:\Documents and Settings\Administrator\Desktop\Test Data\GJ2327244-2 TERRA BULK TAIL.tdms

Comments CS0590 TR 5839 217.5 SKS

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Operation Test Results Request ID 2327244/1

Thickening Time

30/JUN/2016

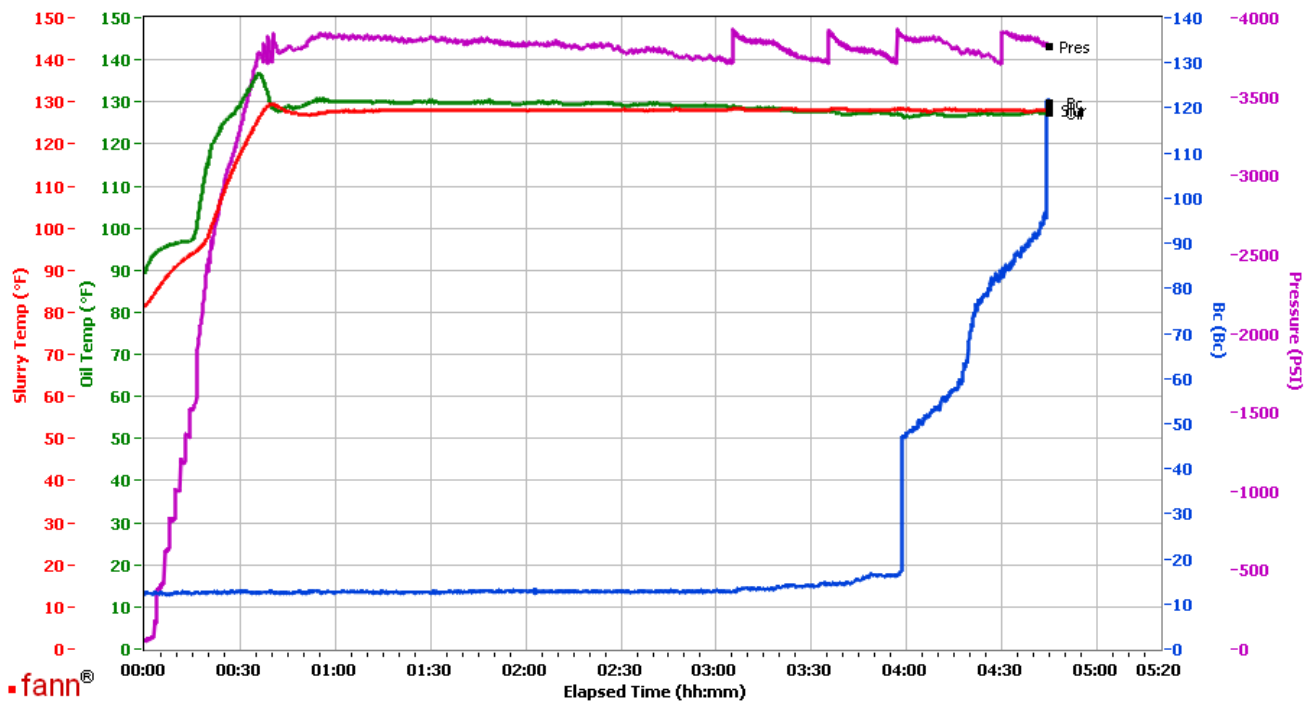
Temp (°F)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	40 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)
128	3930	35	12	3:58	3:58	4:03	4:20	4:44

435 Total Sks

CS0588 TR#5040 217.5 sks

Grand Junction Colorado

Fields	Values	Fields	Values	Events	Results
Project Name	GJ2327244-1	Job Type		30.00 Bc	03h:58m
Test ID	GJ2327244-1 WPX PROD BULK TAIL	Cement Type		40.00 Bc	03h:58m
Request ID		Cement Weight	Standard	50.00 Bc	04h:03m
Tested by	DEBA	Test Date	06/30/16	70.00 Bc	04h:20m
Customer		Test Time	03:28 PM	100.00 Bc	04h:44m
Well No	GM 432-9	Temp. Units	degF	00h:30m	12.64
Rig		Pressure Units	PSI	01h:00m	12.86
Casing/Liner Size		SW Version	2.1.0.507	01h:30m	12.38



Data File C:\Documents and Settings\M290\Desktop\Test Data\GJ2327244-1 WPX PROD BULK TAIL.tdms

Comments CS0588 tr#5040 217.5 SKS

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