

HALLIBURTON

iCem[®] Service

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

For: Dylan Goudie & Kinzie Beavers

Date: Saturday, April 02, 2016

RU 324-6 PRODUCTION

API# 05-045-22607-00

Sincerely,

Grand Junction Cement Engineers

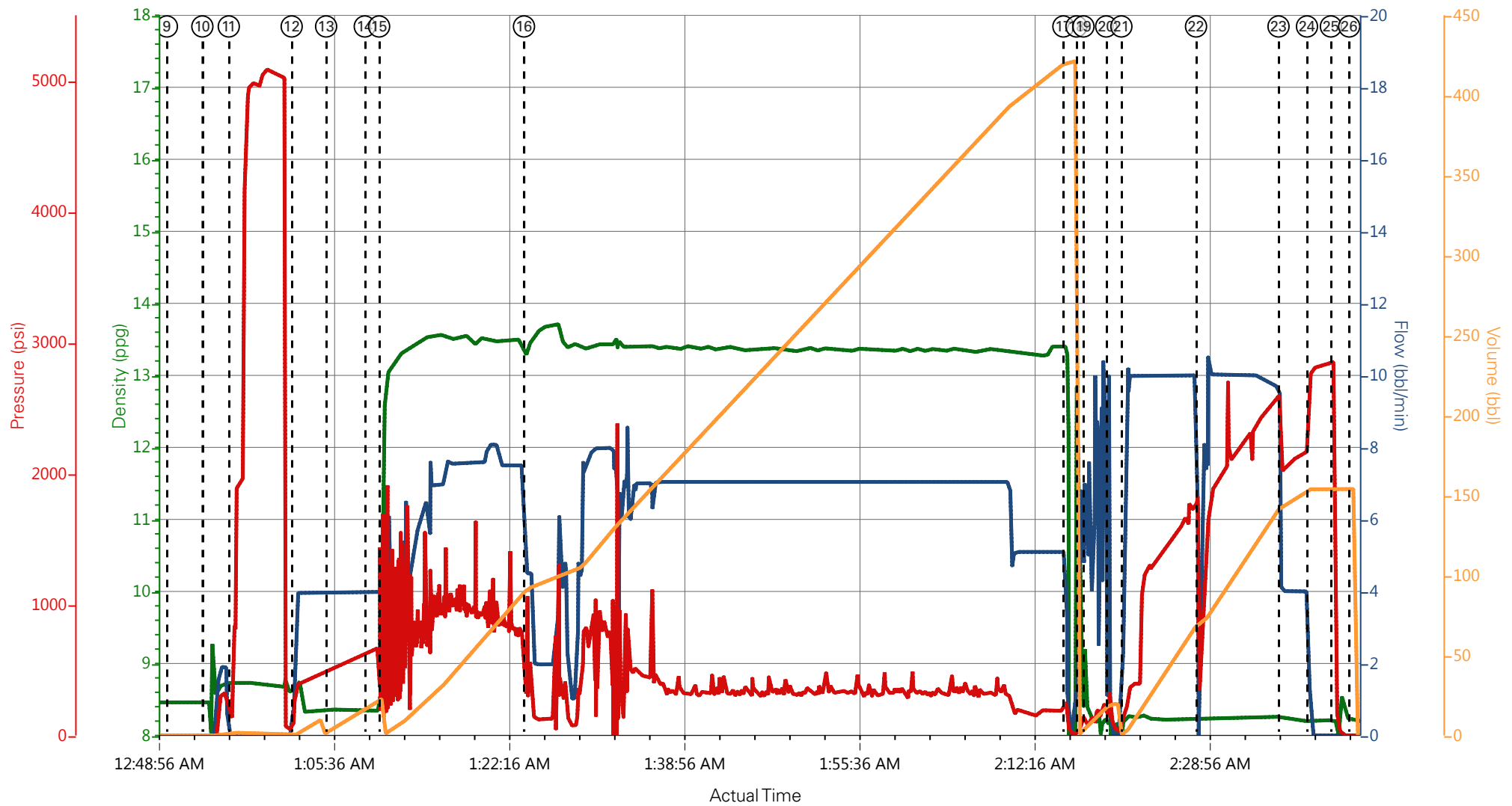
1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	4/1/2016	16:30:00	USER					REQUESTED ON LOCATION AT 22:30
Event	2	Pre-Convoy Safety Meeting	4/1/2016	18:15:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	4/1/2016	18:30:00	USER					1-550 PU 1-ELITE PUMP AND 1-660. ALL TRUCKS LEFT THE YARD AT THE SAME TIME
Event	4	Arrive At Loc	4/1/2016	20:00:00	USER					ARRIVED 2 HOURS EARLY. CREW STILL HAD 4500' OF PIPE TO GO IN THE HOLE.
Event	5	Assessment Of Location Safety Meeting	4/1/2016	20:05:00	USER					MET WITH CO REP AND WENT OVER JOB PROCEDURE AND NUMBERS. DID A WALKAROUND OF LOCATION AND COLLECTED WATER SAMPLE.(PH7, TEMP 70F, CHL 0) FILLED OUT JSA AND GOT TRUCKS SPOTTED IN
Event	6	Rig-up Lines	4/1/2016	20:15:00	USER					WE WERE ABLE TO DO MOST OF THE RIG UP STAYING OUT OF THE RED ZONE AND FINISHED AFTER CASING CREW WAS RIGGED DOWN
Event	7	Pre-Rig Up Safety Meeting	4/1/2016	20:30:00	USER					ALL HES PRESENT
Event	8	Pre-Job Safety Meeting	4/2/2016	00:30:00	USER					MET WITH RIG CREW TO GO OVER JOB. ALL HES PRESENT
Event	9	Start Job	4/2/2016	00:50:00	COM5					TD 9449', TP 9442.54', SJ 33.82', SC 9.625" 32.3# @ 1129', 4.5" 11.6# P-110 CASING, OH 8.75", MW 11.5 PPG. HOC 6197', TOC 3246'
Event	10	Prime Pumps	4/2/2016	00:53:22	COM5	8.34	2	350	2	2 BBLS FRESH WATER
Event	11	Test Lines	4/2/2016	00:55:53	COM5			5000		KO'S FUNCTIONING. TESTED TO 5000 PSI.
Event	12	Pump Spacer 1	4/2/2016	01:01:52	COM5	8.34	4	400	10	10 BBLS FRESH WATER
Event	13	Pump Spacer 2	4/2/2016	01:05:09	COM5	8.4	4	670	20	20 BBLS MUD FLUSH
Event	14	Check weight	4/2/2016	01:08:49	COM5	13.3				13.3 PPG

Event	15	Pump Lead Cement	4/2/2016	01:10:11	COM5	13.3	8	800	339	1100 SKS ThermaCem (339 BBLS) 13.3 PPG, 1.73 FT3/SK, 7.81 GAL/SK
Event	16	Other	4/2/2016	01:23:58	USER	13.3	2	300	90	HAD TROUBLE WITH BULK. HAD TO SLOW DOWN TO CORRECT THE PROBLEM
Event	17	Shutdown	4/2/2016	02:15:18	USER	13.3	4	210	339	END OF CEMENT
Event	18	Other	4/2/2016	02:16:33	USER					MIX WATER STAGE TOTAL 8650 GAL
Event	19	Clean Lines	4/2/2016	02:17:13	USER	8.34	6	70	10	10 BBLS FRESH WATER TO PIT
Event	20	Drop Top Plug	4/2/2016	02:19:23	COM5					PLUG WENT
Event	21	Pump Displacement	4/2/2016	02:20:49	COM5	8.4	10	2600	145.8	145.8 BBLS FRESH WATER WITH MMCR IN FIRST 10, BE-6 IN FIRST 30, AND KCL THROUGHOUT.
Event	22	Other	4/2/2016	02:27:56	USER	8.4		1850	70.0	HIT KICKOUTS FOR UNKNOWN REASON SET @ 3000 PSI
Event	23	Slow Rate	4/2/2016	02:35:47	USER	8.4	4	2200	135	SLOWED TO 4 BBLS/MIN TO LAND PLUG
Event	24	Bump Plug	4/2/2016	02:38:29	COM5	8.4	4	2200	145.8	LANDED AT 2200 AND WENT UP TO 2800 PSI
Event	25	Check Floats	4/2/2016	02:40:46	USER	8.4		2800	145.8	FLOATS HELD. 1 BBL BACK TO TRUCK
Event	26	End Job	4/2/2016	02:42:30	COM5					GREAT RETURNS THROUGHOUT JOB.
Event	27	Pre-Rig Down Safety Meeting	4/2/2016	02:45:00	USER					ALL HES PRESENT
Event	28	Rig Down Lines	4/2/2016	02:50:00	USER					
Event	29	Pre-Convoy Safety Meeting	4/2/2016	04:15:00	USER					ALL HES PRESENT
Event	30	Crew Leave Location	4/2/2016	04:30:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT. CLIFF SPARKS AND CREW

WPX FEDERAL RU 324-6 4.5" PRODUCTION



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

ng n/a;n/a;n/a;n/a	⑩ Prime Pumps 8.46;0;-14.7;0	⑬ Pump Spacer 2 8.36;4;504.3;3	⑯ Other 13.25;4.5;315.3;91.2	⑲ Clean Lines 8.4;6.8;69.3;5.4	22 Other 8.2;0.8;324.3;70
3.44;0;-15.7;45.1	⑪ Test Lines 8.71;0;130.3;1.7	⑭ Check weight 8.34;4;642.3;17.7	⑰ Shutdown 13.4;3.3;145.3;421.2	20 Drop Top Plug 8.2;5.8;308.3;19.5	23 Slow Rate 8.24;4.1;2028.3;143
	⑫ Pump Spacer 1 8.65;2.1;302.3;0.2	⑮ Pump Lead Cement 10.76;4;598.3;0	⑱ Other 9.99;5.4;66.3;1.1	21 Pump Displacement 8.21;6.2;173.3;1.5	24 Bump Plug 8.22;0;2755.3;154

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Created: 2016-04-01 18:02:40, Version: 4.2.393

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 4/1/2016 11:26:54 PM

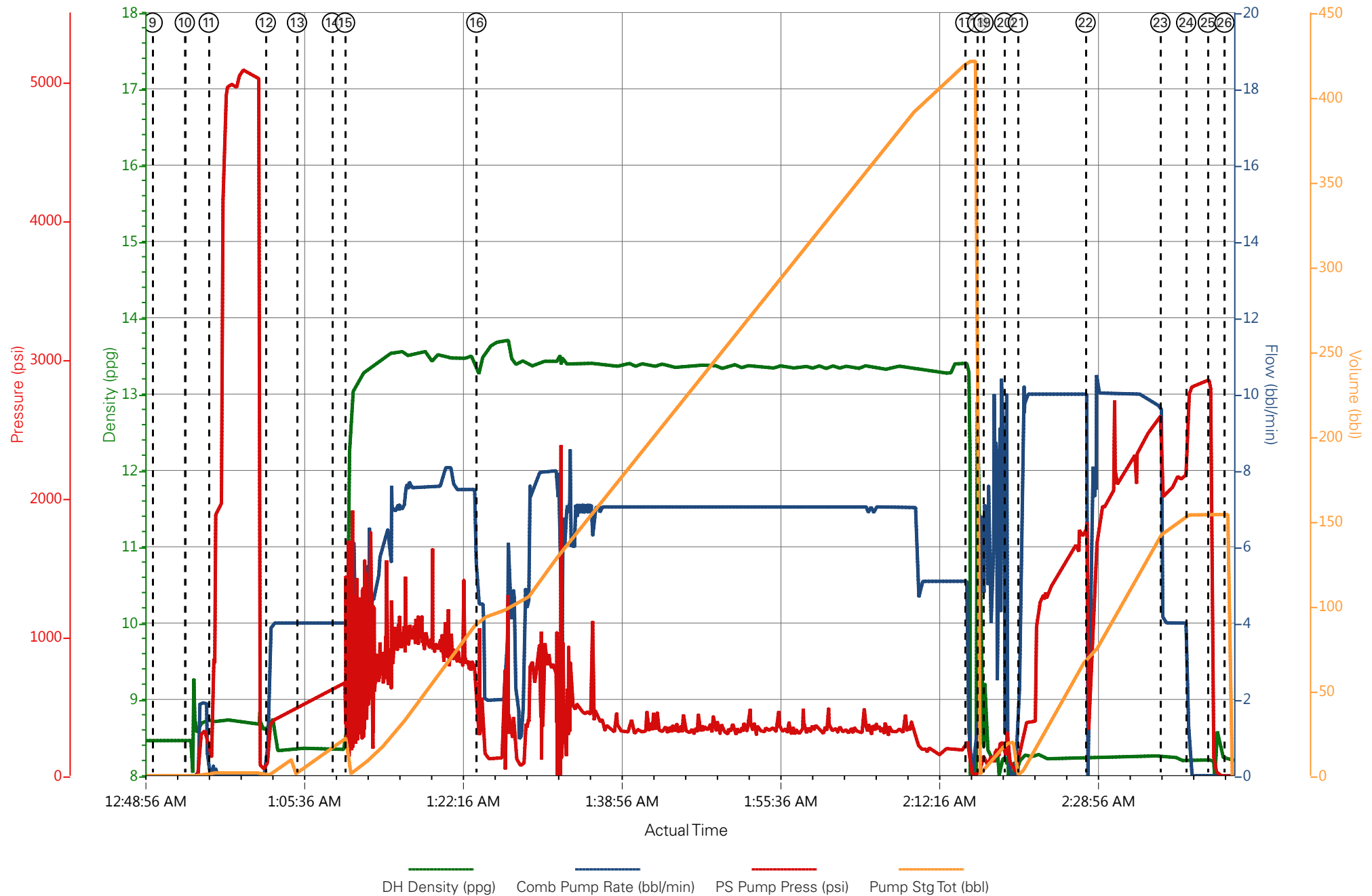
Well: 324-6

Representative: BEAUDE OAKS

Sales Order #: 903214623

ELITE 4: CLIFF SPARKS / RYAN MARTIN

WPX FEDERAL RU 324-6 4.5" PRODUCTION



Job Information

Request/Slurry	2311573/3	Rig Name	H&P 318	Date	28/MAR/2016
Submitted By	Evan Russell	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	WPX Energy, Inc.	Location	Garfield	Well	RU 324-6

Well Information

Casing/Liner Size	4.5 in	Depth MD	9434 ft	BHST	114°C / 237°F
Hole Size	8.75 in	Depth TVD	9206 ft	BHCT	75°C / 167°F
Pressure	5740 psi				

Drilling Fluid Information

Mud Supplier Name	Baroid	Mud Trade Name	BARADRIL-N	Density	10.4 lbm/gal
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Cement Information - Primary Design

Conc	UOM	Cement/Additive	Sample Type	Sample Date	Lot No.	Cement Properties		
		> Mountain G	Bulk Blend	29.03.16	tank 29	Slurry Density	13.3	lbm/gal
		> San Juan	Bulk Blend	29.03.16	Tank 19	Slurry Yield	1.733	ft3/sack
		Cement Blend				Water Requirement	7.803	gal/sack
		Fresh Water	Lab	12.03.13		Total Mix Fluid	7.803	gal/sack
		HALAD-344 (PB)	Bulk Blend	29.03.16	15061640			
		SA-1015 (PB)	Bulk Blend	29.03.16	5A0018W			
		SUPER CBL	Bulk Blend	29.03.16	1510067	Water Source	Fresh Water	
		SS-200 silica flour	Bulk Blend	29.03.16	Tank 6 &25	Water Chloride		
		Kol-Seal	Bulk Blend	29.03.16	Tank 1&20			
		Pol-E-Flake	Bulk Blend	29.03.16				
		HR-601	Bulk Blend	29.03.16	71			
		HALAD-413 (PB)	Bulk Blend	29.03.16	ZM5B0425A0			

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Operation Test Results Request ID 2311573/3

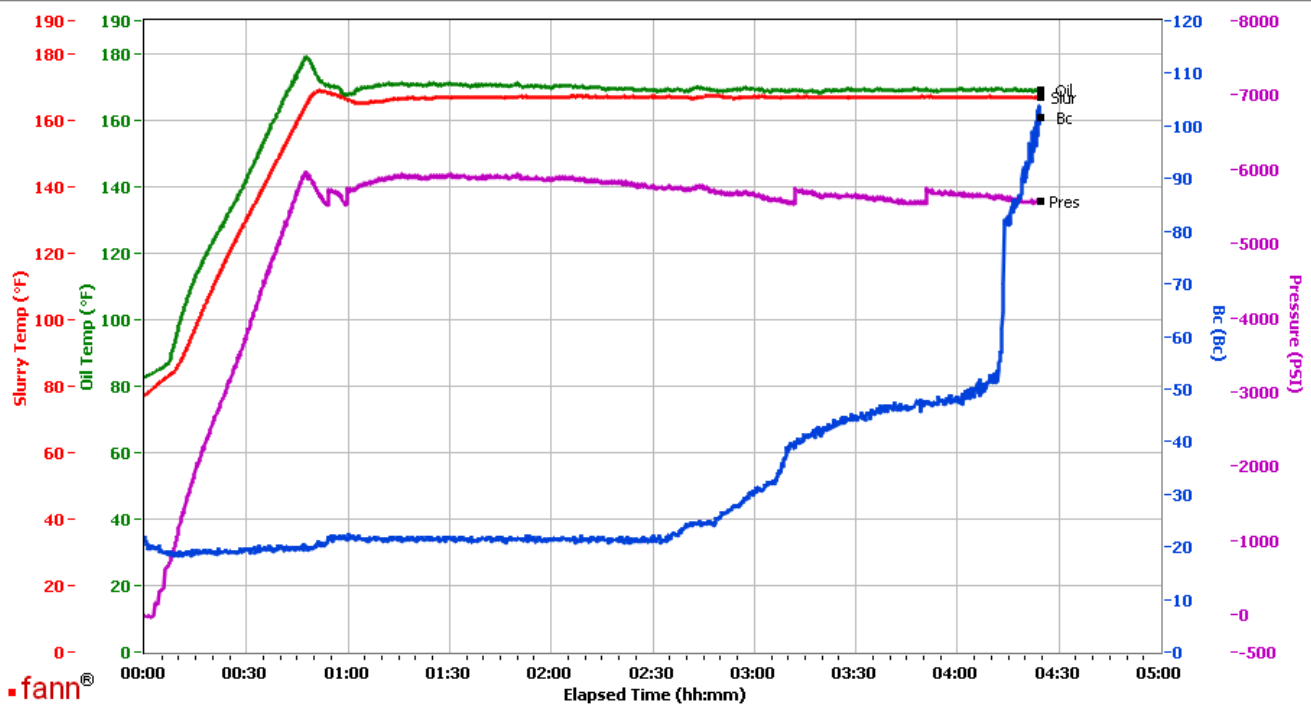
Thickening Time

29/MAR/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)
167	5740	47	21	2:58	3:12	4:04	4:13	4:23
CS0309 TR# 7094 250SKS								

Grand Junction, Colorado

Fields	Values	Fields	Values	Events	Results
Project Name	GJ2311573-3	Job Type		30.00 Bc	02h:58m
Test ID	GJ2311573-3 ULTRA BULK PRIMARY	Cement Type		40.00 Bc	03h:12m
Request ID		Cement Weight	Standard	50.00 Bc	04h:04m
Tested by	DS	Test Date	03/29/16	70.00 Bc	04h:13m
Customer	WPX	Test Time	07:03 PM	100.00 Bc	04h:23m
Well No	RU 324-6	Temp. Units	degF	00h:30m	19.46
Rig		Pressure Units	PSI	01h:00m	21.54
Casing/Liner Size		SW Version	2.1.0.507	01h:30m	21.96



Data File C:\Documents and Settings\M290\Desktop\Test Data\GJ2311573-3 ULTRA BULK PRIMARY.tdms

Comments CS0309 TR#250 SKS

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Operation Test Results Request ID 2311573/2

Thickening Time

29/MAR/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)
167	5740	47	14	3:01	3:05	3:08	3:33	3:34

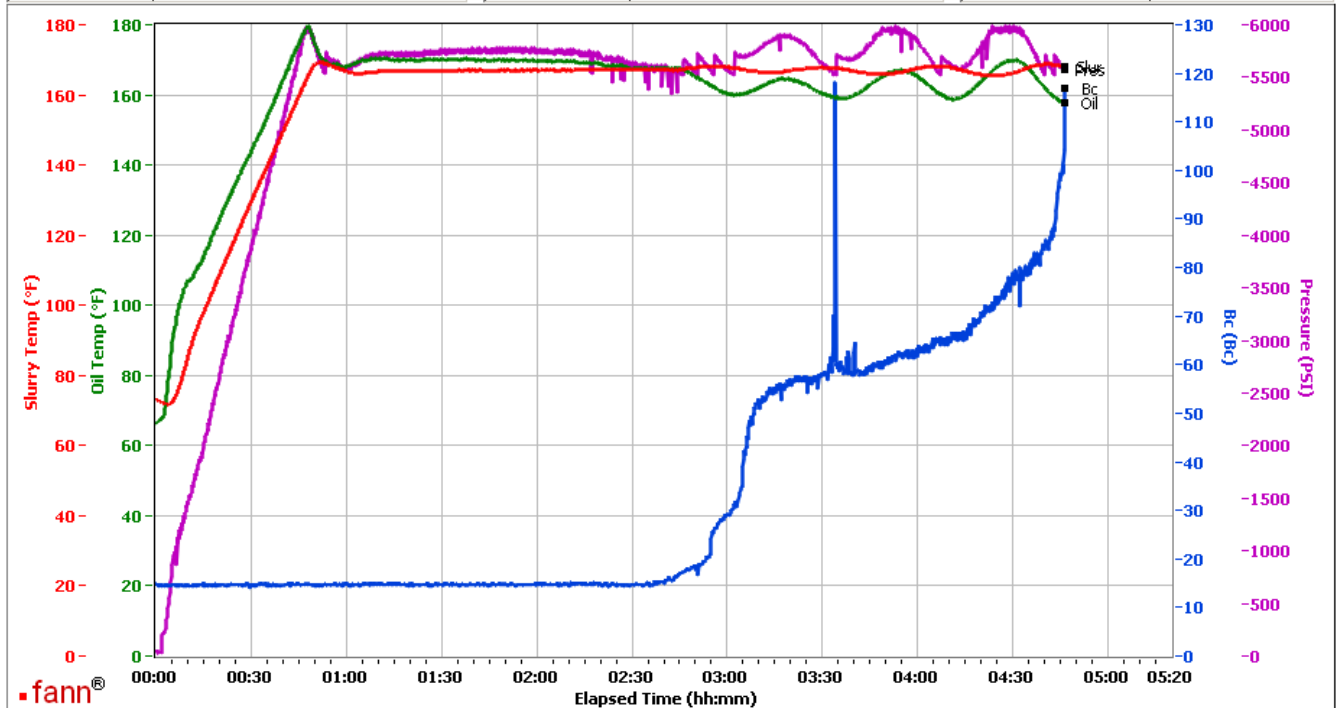
CS0308 TR#8675 425 SKS

Grand Junction Colorado

Fields	Values
Project Name	GJ2311573-2
Test ID	GJ2311573-2 WPX PROD BULK PRIMARY
Request ID	
Tested by	DS
Customer	WPX
Well No	RU 324-6
Rig	
Casing/Liner Size	

Fields	Values
Job Type	
Cement Type	
Cement Weight	Standard
Test Date	03/29/16
Test Time	03:13 PM
Temp. Units	degF
Pressure Units	PSI
SW Version	2.1.0.507

Events	Results
30.00 Bc	03h:01m
40.00 Bc	03h:05m
50.00 Bc	03h:08m
70.00 Bc	03h:33m
100.00 Bc	03h:34m
00h:30m	14.35
01h:00m	15.04
01h:30m	14.55



Data File C:\Documents and Settings\M290\Local Settings\Temporary Internet Files\Content.IE5\CDER4HUV\GJ2311573-2 WPX PROD BULK PRIMARY[1].tdms

Comments CS0308 TR#8675 425 SKS

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Operation Test Results Request ID 2311573/1

Thickening Time

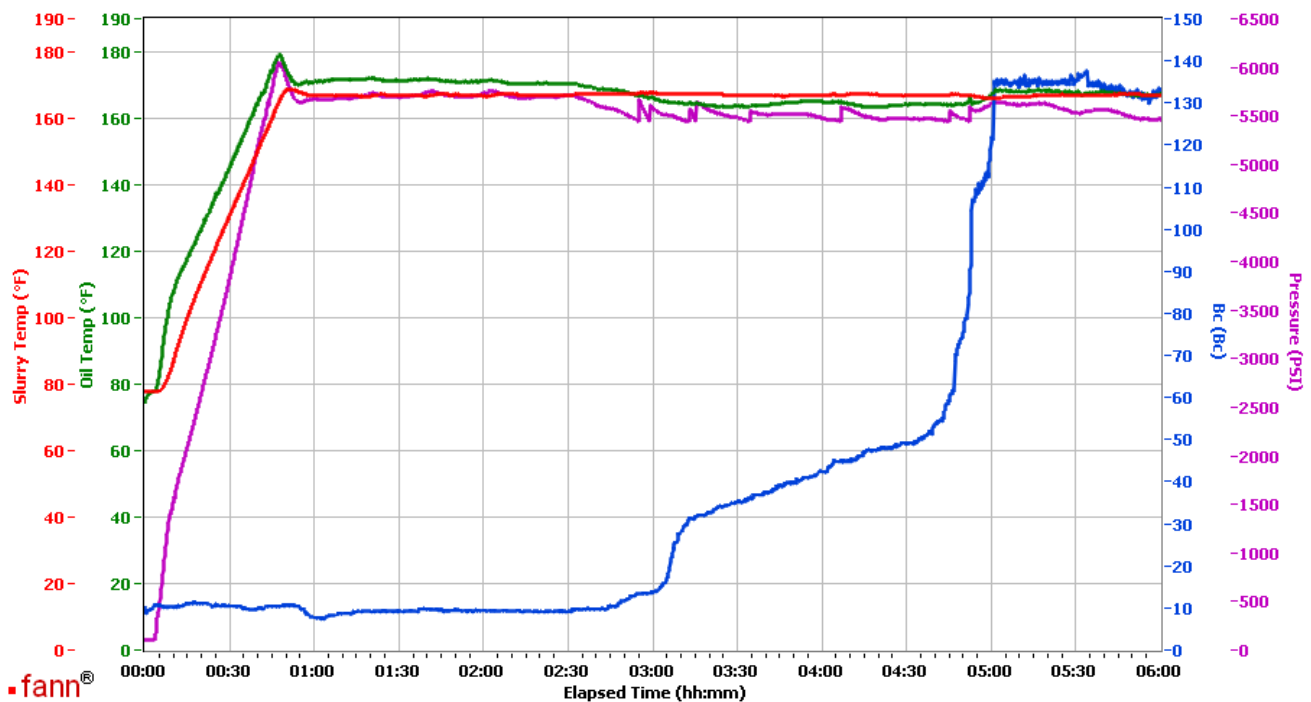
29/MAR/2016

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)
167	5740	47	10	3:12	3:48	4:34	4:47	4:53

CS0307 TR#8677 425 SKS

Grand Junction Colorado

Fields	Values	Fields	Values	Events	Results
Project Name	GJ2311573-1	Job Type		30.00 Bc	03h:12m
Test ID	GJ2311573-1 WPX PROD BULK PRIMARY	Cement Type		40.00 Bc	03h:48m
Request ID		Cement Weight	Standard	50.00 Bc	04h:34m
Tested by	DS	Test Date	03/28/16	70.00 Bc	04h:47m
Customer	WPX	Test Time	11:06 PM	100.00 Bc	04h:53m
Well No	RU 324-6	Temp. Units	degF	00h:30m	13.39
Rig		Pressure Units	PSI	01h:00m	13.39
Casing/Liner Size		SW Version	2.1.0.507	01h:30m	13.39



Data File C:\Documents and Settings\M290\Desktop\Test Data\GJ2311573-1 WPX PROD BULK PRIMARY.tdms

Comments CS0307 tr#8677 425 sks

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