

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RWF 413-25

**Nabors 577**

# **Post Job Summary**

## **Cement Surface Casing**

Date Prepared: 05/31/2014

Job Date: 03/02/2014

Submitted by: Kory Hugentobler – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123563	Quote #:	Sales Order #: 0901162149
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: LUKE HUBBARD	
Well Name: SAVAGE	Well #: RWF 413-25	API/UWI #: 05-045-21981-00	
Field: RULISON	City (SAP): RIF	County/Parish: GARFIELD	State: COLORADO
Legal Description: NE SW-25-6S-94W-1625FSL-2304FWL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 577	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HAM2616		Srvc Supervisor: Eric Carter	
Job			

Formation Name				
Formation Depth (MD)	Top	0 FT.	Bottom	1172 FT.
Form Type	BHST			
Job depth MD	1162ft	Job Depth TVD		
Water Depth	Wk Ht Above Floor			
Perforation Depth (MD)	From	To		

### Well Data

Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing		9.625	9.001	32.3			0	1162	0	0
Open Hole Section			13.5				0	1172		

### Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625			1162	Top Plug	9.625	1	HES
Float Shoe	9.625				Bottom Plug	9.625	0	HES
Float Collar	9.625				SSR plug set	9.625	0	HES
Insert Float	9.625				Plug Container	9.625	1	HES
Stage Tool	9.625				Centralizers	9.625	0	HES

### Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty

### Fluid Data

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Water	Water	20	bbl	8.33			4		

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal

2	Lead Cement	VARICEM (TM) CEMENT	160	Sack/Ton	12.3	2.38		8	13.75
13.75 Gal		FRESH WATER							
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft<sup>3</sup>/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/mi n</b>	<b>Total Mix Fluid Gal</b>
3	Tail Cement	VARICEM (TM) CEMENT	160	Sack/Ton	12.8	2.11		8	11.75
11.75 Gal		FRESH WATER							
<b>Cement Left In Pipe</b>		<b>Amount</b>	48 ft		<b>Reason</b>		Shoe Joint		
<b>Comment</b>									

## 3.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Sigs Tot (bbl)	Comment
Event	1	Arrive at Location from Other Job or Site	Arrive at Location from Other Job or Site	3/2/2014	07:30:00	USER					RIG RUNNING CASING
Event	2	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	3/2/2014	08:30:00	USER					ATTENDED BY ALL HES CREW
Event	3	Other	Other	3/2/2014	08:40:00	USER					SPOT EQUIPMENT
Event	4	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	3/2/2014	08:50:00	USER					ATTENDED BY ALL HES CREW
Event	5	Rig-Up Equipment	Rig-Up Equipment	3/2/2014	09:00:00	USER					ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP
Event	6	Pre-Job Safety Meeting	Pre-Job Safety Meeting	3/2/2014	09:30:00	USER					TP1162, TD1172, SI48, FC1114, MW 9.3 PPG, CASING 9.625", 32.3#, H-40, HOLE 13.5", 8 CENTRALIZERS, RIG CIRCULATED FOR 1.5 HRS PRIOR TO JOB
Event	8	Other	Other	3/2/2014	09:53:16	USER	42	8.33	2	2	FILL LINES
Event	9	Test Lines	Test Lines	3/2/2014	09:55:20	USER					PRESSURED UP TO 3214 PSI, PRESSURE HELD
Event	10	Pump Spacer	Pump Spacer	3/2/2014	09:59:23	USER	120	8.33	4	20	FRESH WATER
Event	11	Pump Lead Cement	Pump Lead Cement	3/2/2014	10:04:41	USER	360	12.3	8	67.8	160 SKS VARICEM MIXED AT 12.3 PPG, 2.38 YIELD, 13.75 GL/SK
Event	12	Shutdown	Pump Tail Cement	3/2/2014	10:14:07	USER	360	12.8	8.00	60.1	160 SKS VARICEM MIXED AT 12.8 PPG, 2.11 YIELD, 11.75 GL/SK
Event	13	Shutdown	Shutdown	3/2/2014	10:22:14	USER					
Event	14	Drop Top Plug	DROP TOP PLUG	3/2/2014	10:22:46	USER					PLUG LAUNCHED
Event	15	Pump Displacement	PUMP DISPLACEMENT	3/2/2014	10:23:12	USER	580	8.33	10	77.7	FRESH WATER

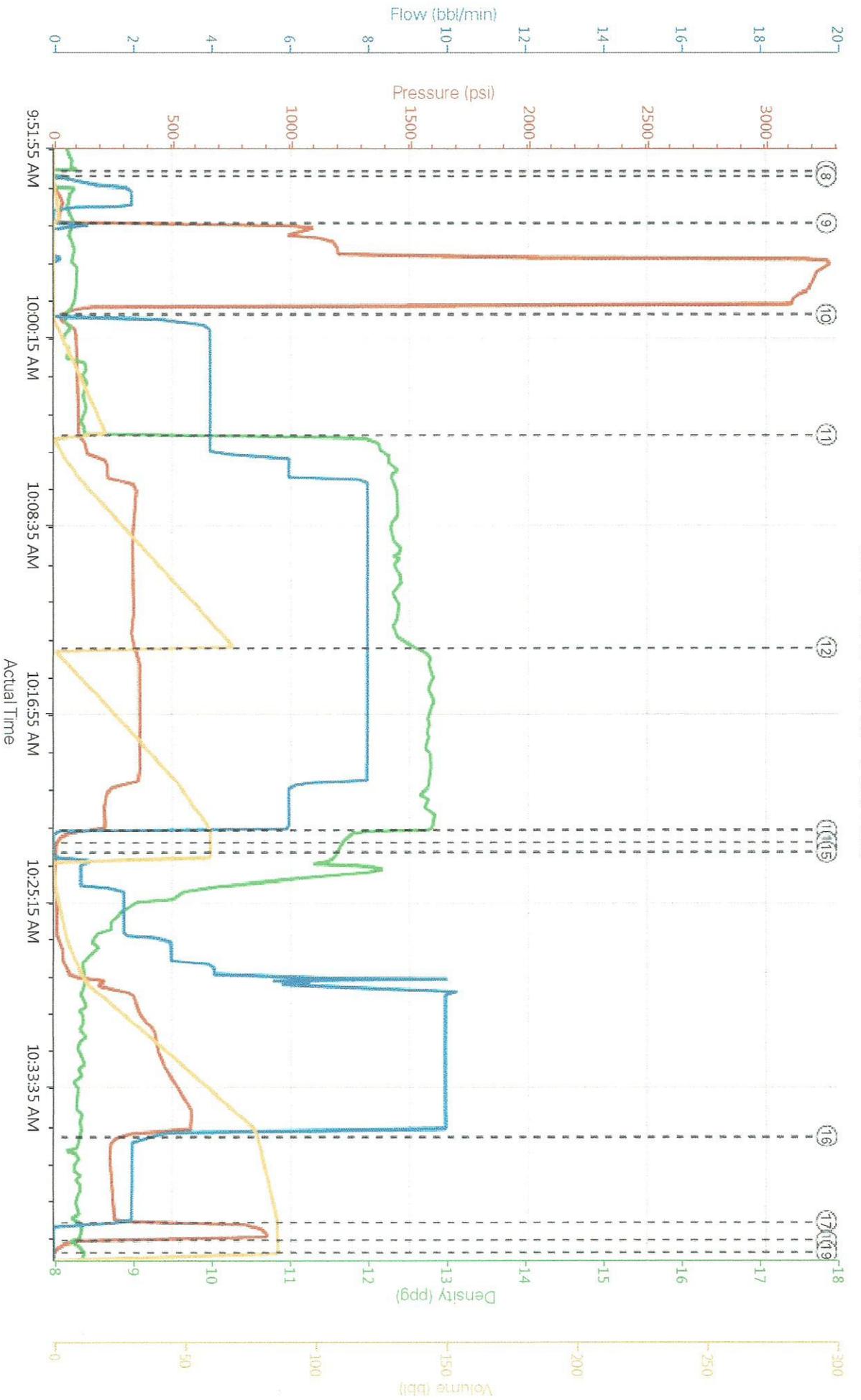
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WPX ENERGY ROCKY MOUNTAIN LLC-BUS

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Event	16	Slow Rate	Slow Rate	3/2/2014	10:35:51	USER	250	8.33	2	10	
Event	17	Bump Plug	Bump Plug	3/2/2014	10:39:40	USER	905				PLUG LANDED
Event	18	Check Floats	Check Floats	3/2/2014	10:40:30	USER					FLOATS HELD
Event	19	End Job	End Job	3/2/2014	10:41:00	USER					GOOD CIRCULATION THROUGH OUT JOB, PIPE NOT MOVED DURING JOB, 15 BBLS CEMENT TO SURFACE
Event	20	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	3/2/2014	10:45:00	USER					ATTENDED BY ALL HES CREW
Event	21	Rig-Down Equipment	Rig-Down Equipment	3/2/2014	10:50:00	USER					ATTENDED BY ALL HES CREW
Event	22	Depart Location Safety Meeting	Depart Location Safety Meeting	3/2/2014	11:20:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW
Event	23	Crew Leave Location	Crew Leave Location	3/2/2014	11:30:00	USER					

WFX - RWF 413-25 - SURFACE



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Created: 2014-03-02 08:23:25, Version: 3.0.1.21

Edit

Customer: WFX ENERGY ROCKY MOUNTAIN LLC-EBUS  
 Representative: LUKE HUBBARD

Job Date: 3/2/2014 9:24:36 AM  
 Sales Order #: 901162149

Well: RWF 413-25  
 ERIC CARTER: DAVID CAMPBELL/ELITE 2

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## Water Analysis Report

Company: WPX  
Submitted by: ERIC CARTER  
Attention: J.Trout  
Lease: NABORS 577  
Well #: RWF 413-25

Date: 3/2/2014  
Date Rec.: 3/2/2014  
S.O.#: 901162149  
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>400</i> Mg / L
Hrdness	<i>500</i>	<i>425</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>500</i> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<i>&lt;200</i> Mg / L
Temp	<i>40-80</i>	<i>44</i> Deg
Total Dissolved Solids		<i>580</i> Mg / L

Respectfully: ERIC CARTER

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

NOTICE:

This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or its L