

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

NER 514-32

Nabors/576

Post Job Summary

Cement Surface Casing

Date Prepared: 02/15/2014

Submitted by: Grand Junction Cement Engineering

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2950815	Quote #:	Sales Order #: 901104766
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Hartl, Al	
Well Name: NER		Well #: 514-32	API/UWI #: 05-045-21786
Field: Rulison	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Contractor: Nabors		Rig/Platform Name/Num: Nabors 576	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc Supervisor: ARNOLD, EDWARD	MBU ID Emp #: 439784

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ARNOLD, EDWARD John	6.5	439784	BROWN, TRAVIS A	6.5	396848	SCHANZ, ANDREW Jacob	6.5	544399

Equipment

HES Unit #	Distance-1 way						
10616651C	60 mile	10744549	60 mile	11259882	60 mile	11360881	60 mile
11808827	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
2-8-2014	6.5	4						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Date	Time	Time Zone
Formation Depth (MD) Top Bottom	Called Out	08 - Feb - 2014	11:30 MST
Form Type BHST	On Location	08 - Feb - 2014	16:30 MST
Job depth MD 1133. ft Job Depth TVD 1133. ft	Job Started	08 - Feb - 2014	20:48 MST
Water Depth Wk Ht Above Floor 3. ft	Job Completed	08 - Feb - 2014	21:54 MST
Perforation Depth (MD) From To	Departed Loc	08 - Feb - 2014	23:00 MST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
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Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 9 5/8, HWE, 8.16 MIN/9.06 MA	1	EA		
SUGAR - GRANULATED	50	LB		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9 5/8"	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8"	1	HES
Stage Tool										Centralizers			

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 ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
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Stage/Plug #: 1

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Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	Fresh Water Spacer		20.00	bbl	.	.0	.0	4		
2	VersaCem Lead	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75	6	13.75	
	13.75 Gal	FRESH WATER								
3	VersaCem Tail	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.8	2.11	11.75	6	11.75	
	11.75 Gal	FRESH WATER								
4	Displacement Fluid		86.00	bbl	8.34	.0	.0	10		
Calculated Values			Pressures			Volumes				
Displacement	86	Shut In: Instant				Lost Returns	Cement Slurry	127.9	Pad	
Top Of Cement	SURFACE	5 Min				Cement Returns	41	Actual Displacement	86	Treatment
Frac Gradient		15 Min				Spacers	20	Load and Breakdown		Total Job
Rates										
Circulating	RIG	Mixing	6	Displacement	10	Avg. Job	6			
Cement Left In Pipe	Amount	37.88 FT	Reason	Shoe Joint						
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID			
The Information Stated Herein Is Correct				Customer Representative Signature						

The Road to Excellence Starts with Safety

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Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Hartl, Al	
Well Name: NER		Well #: 514-32	API/UWI #: 05-045-21786
Field: Rulison	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: Nabors		Rig/Platform Name/Num: Nabors 576	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc Supervisor: ARNOLD, EDWARD	MBU ID Emp #: 439784

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	02/08/2014 11:30							
Pre-Convoy Safety Meeting	02/08/2014 13:45							Including entire cement crew.
Crew Leave Yard	02/08/2014 14:00							
Arrive At Loc	02/08/2014 16:30							Rig still Running casing.
Assessment Of Location Safety Meeting	02/08/2014 18:45							Water; PH 7.5; KCL 200; So4 <200; Fe 0; Calcium 250; Chlorides 0; Temp 55.
Pre-Rig Up Safety Meeting	02/08/2014 19:00							Including entire cement crew.
Rig-Up Equipment	02/08/2014 19:10							1 Elite # ; 1 660 bulk truck; 1 hard line to floor; 1 line to upright; 1 line to rig tank. 9.625" compact head.
Rig-Up Completed	02/08/2014 20:00							
Pre-Job Safety Meeting	02/08/2014 20:20							Including everyone on location.
Start Job	02/08/2014 20:48							TD 1133; TP 1133; SJ 37.88; OH 13 1/2"; Casing 9.625" 32.3# H-40; Mud 10.1 ppg.
Pump Water	02/08/2014 20:49		2	2			50.0	Fill lines with fresh water.
Test Lines	02/08/2014 20:51					2370.0		Good pressure test, no leaks.
Pump Spacer 1	02/08/2014 20:57		4	20			133.0	20 BBL fresh water spacer.
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

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Quote # :

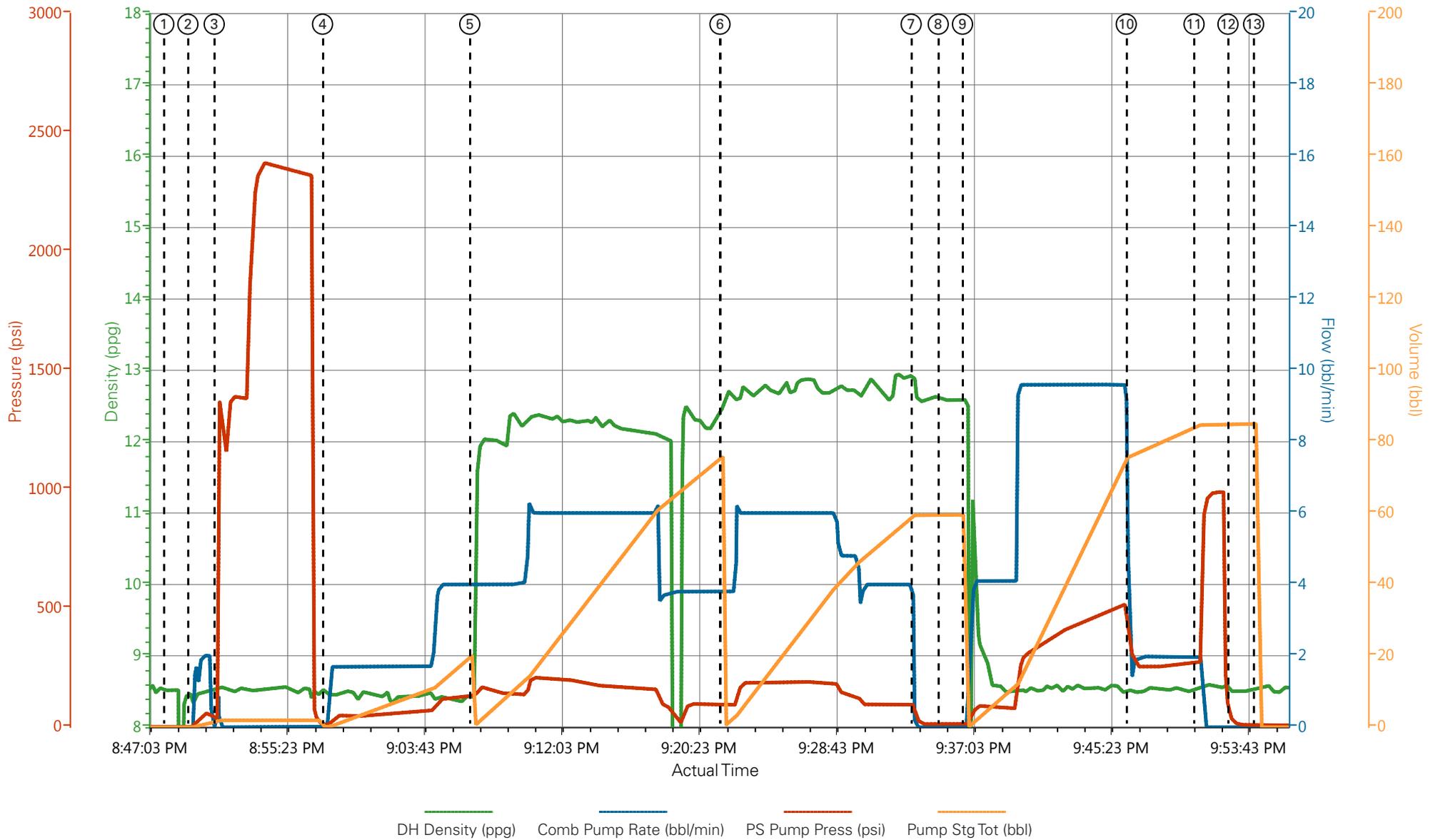
Sales Order # : 901104766

SUMMIT Version: 7.3.0109

Saturday, February 15, 2014 02:19:00

Pump Lead Cement	02/08/2014 21:06		6	67.1			175.0	160 sks Lead Cement, 12.3 ppg, 2.38 cf3, 13.75 gal/sk. Compressor on bulk truck broke down at end of Lead Cement, slowed rate and swapped to emergency air off of pump truck to finish job.
Pump Tail Cement	02/08/2014 21:21		6	60.8			132.0	160 sks Tail Cement, 12.8 ppg, 2.11 cf3, 11.75 gal/sk. Slowed rate and end of tail as emergency air was having hard time keeping up. Finished tail at 4.3 BBL/min.
Shutdown	02/08/2014 21:33							
Drop Plug	02/08/2014 21:35							Plug left container.
Pump Displacement	02/08/2014 21:36		10	76			505.0	Fresh water displacement.
Slow Rate	02/08/2014 21:46		2	10			269.0	Slow rate last 10 BBL's of displacement prior to bumping the plug.
Bump Plug	02/08/2014 21:50				86		975.0	Bumped plug, took 500 PSI over.
Check Floats	02/08/2014 21:52							Floats held, 1 BBL back. Got cement back at 45 BBL.'s gone on displacement. 41 BBL.'s of good cement to surface.
End Job	02/08/2014 21:54							
Pre-Rig Down Safety Meeting	02/08/2014 22:00							Including entire cement crew.
Rig-Down Equipment	02/08/2014 22:05							
Rig-Down Completed	02/08/2014 22:45							
Pre-Convoy Safety Meeting	02/08/2014 22:50							Including entire cement crew.
Other	02/08/2014 23:00							Thank You for using Halliburton. Ed Arnold and Crew.
Crew Leave Location	02/08/2014 23:00							Crew leave location for Service Center or another location.

WPX - NER 514-32 - 9 5/8" SURFACE



- ① Start Job 8.52;0;0;0 ④ Pump Spacer 1 8.48;0;8;0 ⑦ Shutdown 12.9;0.2;69;59.5 ⑩ Slow Rate 8.54;3.8;368;76.2 ⑬ End Job 8.58;0;8;85
- ② Pump Water 8.45;0;-1;0 ⑤ Pump Lead Cement 8.41;4;133;0.1 ⑧ Drop Plug 12.61;0;11;59.5 ⑪ Bump Plug 8.53;2;269;84.3
- ③ Test Lines 8.56;0.4;36;1.8 ⑥ Pump Tail Cement 12.53;3.8;88;0.1 ⑨ Pump Displacement 12.55;0;12;0 ⑫ Check Floats 8.5;0;36;85

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Created: 2014-02-08 18:22:04, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 2/8/2014 8:12:55 PM

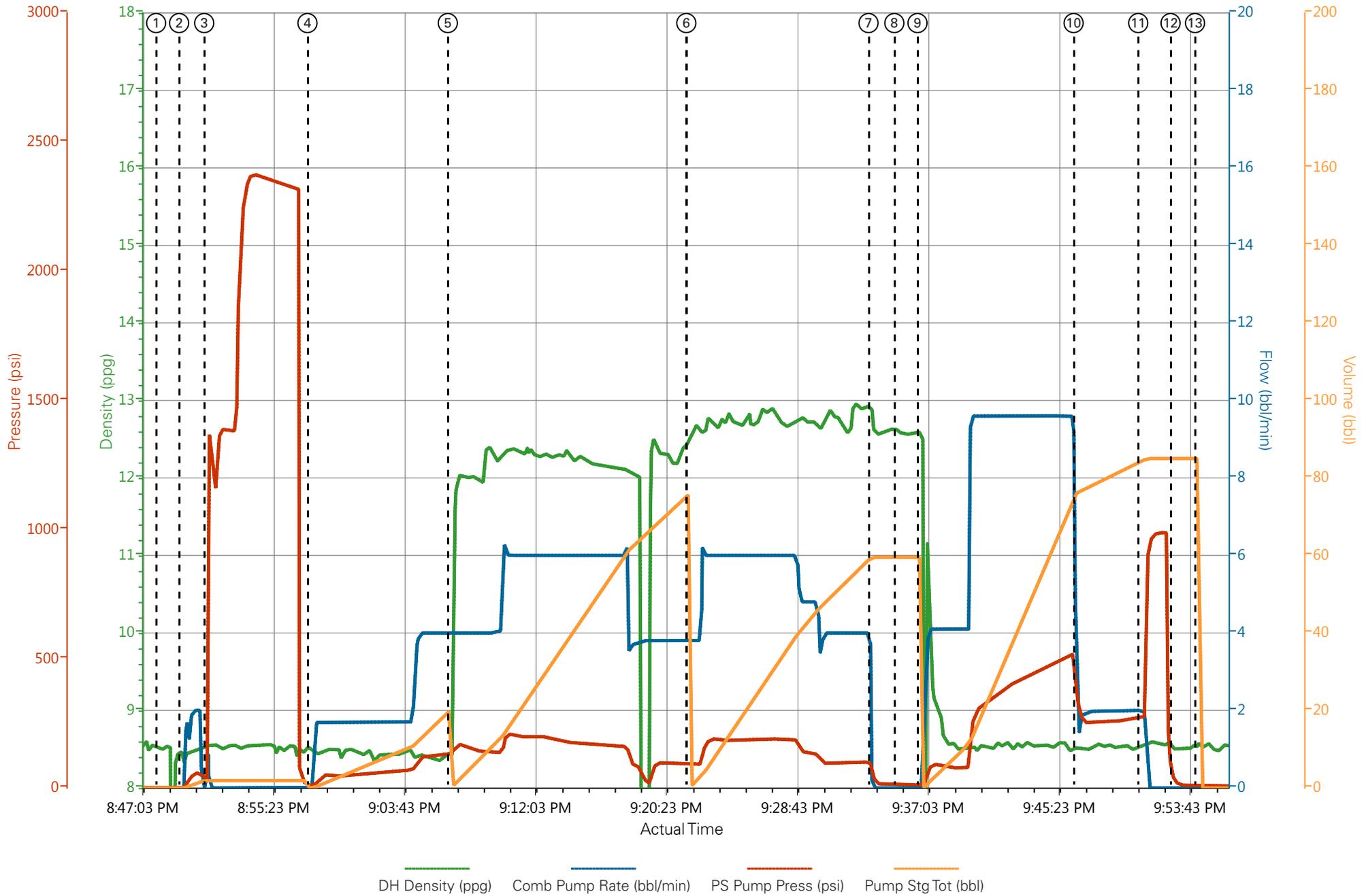
Well: NER 514-32

Representative: RICK OAKS

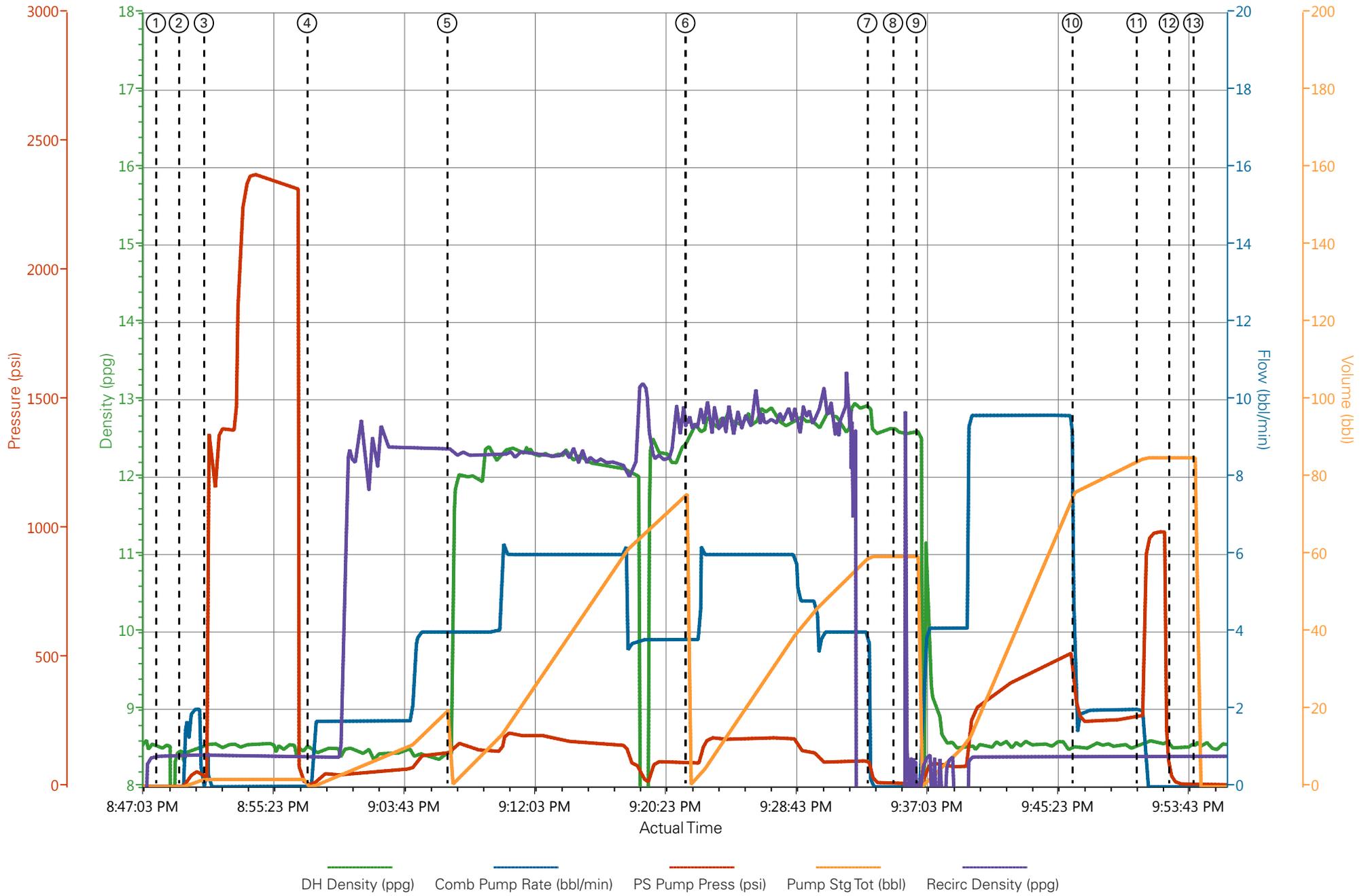
Sales Order #: 901104766

ELITE #4: ED A. / TRAVIS B. / ANDREW S.

WPX - NER 514-32 - 9 5/8" SURFACE



WPX - NER 514-32 - 9 5/8" SURFACE



HALLIBURTON

Water Analysis Report

Company:	<u>WPX</u>	Date:	<u>2/8/2014</u>
Submitted by:	<u>ED ARNOLD</u>	Date Rec.:	<u>2/8/2014</u>
Attention:	<u></u>	S.O.#	<u>901104766</u>
Lease	<u>NER</u>	Job Type:	<u>SURFACE</u>
Well #	<u>514-32</u>		

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7.5
Potassium (K)	<i>5000</i>	200 Mg / L
Calcium (Ca)	<i>500</i>	250 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	55 Deg
Total Dissolved Solids		-- Mg / L

Respectfully: ED ARNOLD

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 use

Sales Order #: 901104766	Line Item: 10	Survey Conducted Date: 2/9/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: RICK OAKS		API / UWI: (leave blank if unknown) 05-045-21786
Well Name: NER		Well Number: 514-32
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

Dear Customer,

We hope that you were satisfied with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and service of a standard unmatched in the service sector of the energy industry.

Please take the time to let us know if our performance met with your satisfaction. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of Halliburton.

CUSTOMER SATISFACTION SURVEY

CATEGORY	CUSTOMER SATISFACTION RESPONSE	
Survey Conducted Date	The date the survey was conducted	2/9/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	EDWARD ARNOLD (HX46731)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	RICK OAKS
HSE	Was our HSE performance satisfactory? Circle Y or N	Yes
Equipment	Were you satisfied with our Equipment? Circle Y or N	Yes
Personnel	Were you satisfied with our people? Circle Y or N	Yes
Customer Comment	Customer's Comment	

CUSTOMER SIGNATURE

Sales Order #: 901104766	Line Item: 10	Survey Conducted Date: 2/9/2014
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Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	2/9/2014
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Deviated
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	4
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Operating Hours (Pumping Hours)	1.5
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	0
Lost time due to Halliburton in the start, execution, or completion of an ordered service or product, or delays in a follow-on service. Enter in decimal format. 0 if none.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	5
Number Of Jsas Performed	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	Yes

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Customer Representative: RICK OAKS		API / UWI: (leave blank if unknown) 05-045-21786
Well Name: NER		Well Number: 514-32
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
Mixing Density of Job Stayed in Designed Density Range (0-100%) Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	97
Was Automated Density Control Used? Was Automated Density Control (ADC) Used ?	Yes
Pump Rate (percent) of Job Stayed At Designed Pump Rate Pump Rate range defined as +/- 1bbl/min. Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped, multiplied by 100	75
Nbr of Remedial Sqz Jobs Rqd - Competition Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
Nbr of Remedial Plug Jobs Rqd - HES Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
Nbr of Remedial Sqz Jobs Rqd - HES Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0