

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

NER 34-32

**Nabors 576**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 07/05/2014  
Job Date: 06/30/2014

Submitted by: Kory Hugentobler – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123454	Quote #:	Sales Order #: 0901473322
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Rick Oaks	
Well Name: FEDERAL	Well #: NER 34-32	API/UWI #: 05-045-21784-00	
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: 5-7S-93W-132FNL-2587FWL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 576	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: Dustin Hyde	

### Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1127ft 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
Open Hole Section			13.5				0	1127		0
Casing		9.625	9.001	32.3	8 RD	H-40	0	1127	0	0

### Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		1127	Top Plug	9.625	1	HES
Float Shoe	9.625	1			Bottom Plug			
Float Collar	9.625	1			SSR plug set			
Insert Float	9.625	1			Plug Container	9.625	1	HES
Stage Tool	9.625	1			Centralizers	9.625	9	

### 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	Fresh Water	Fresh Water	20	bbl	8.34			4.0		
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	125	sack	12.3	2.38		8.0	13.77	

	VERSASET, 55 LB SK (101376573)
	ECONOLITE (100001580)
	FRESH WATER
	D-AIR 5000, 50 LB SACK (102068797)
	TYPE I / II CEMENT, BULK (101439798)
	CAL-SEAL 60, BULK (100064022)
	SALT, BULK (100003695)
	POLY-E-FLAKE (101216940)

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	Tail Cement	VARICEM (TM) CEMENT	175	sack	12.8	2.11		8	11.77
		11.71 Gal	FRESH WATER						

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
4	Displacement	Displacement	85	bbl	8.34			10	

<b>Cement Left In Pipe</b>	<b>Amount</b>	44 ft	<b>Reason</b>	Shoe Joint
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**Comment**

3.1 Job Event Log

Event	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbbl)	Comment
Event	1	Call Out	Call Out	6/30/2014	09:30:00	USER					Elite #7
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	6/30/2014	12:00:00	USER					All HES Employees Present
Event	3	Arrive At Loc	Arrive At Loc	6/30/2014	14:00:00	USER					Rig running casing upon HSE arrival
Event	4	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	6/30/2014	14:30:00	USER					All HES Employees Present
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	6/30/2014	16:00:00	USER					All HES Employees Present
Event	6	Pre-Rig Down Safety Meeting	Rig-Up Completed	6/30/2014	17:00:00	USER					Rig Circulated for one hour prior to job
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	6/30/2014	17:30:00	USER					Both rig crew and Halliburton Crews attended
Event	8	Start Job	Start Job	6/30/2014	17:45:00	COMS					TP 1098.86, SI 44.08, OH 13 1/2", CSG 9 5/8" 32.3# H-40, Mud @ 10.6PPG
Event	9	Prime Pumps	Prime Lines	6/30/2014	17:46:13	COMS	8.33	2.0	50	2.0	Fresh Water
Event	10	Test Lines	Test Lines	6/30/2014	17:57:51	COMS			2800		Pressure bleeding back found leak in 1" release valve and resolved issue
Event	11	Pump Spacer 1	Pump Water Spacer	6/30/2014	18:00:24	COMS	8.33	4.0	130	20	Fresh Water
Event	12	Pump Lead Cement	Pump Lead Cement	6/30/2014	18:09:00	COMS	12.3	8.0	391	53	125 SKS, 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	13	Pump Tail Cement	Pump Tail Cement	6/30/2014	18:16:10	COMS	12.8	8.0	371	65.8	175 SKS, 12.8 PPG, 2.11 FT3/SK, 11.77 GAL/SK
Event	14	Shutdown	Shutdown	6/30/2014	18:26:38	USER					Dropped Plug Verified by Co. Rep
Event	15	Pump Displacement	Pump Displacement	6/30/2014	18:28:58	COMS	8.33	10.0	490	85	Fresh Water
Event	16	Slow Rate	Slow Rate	6/30/2014	18:38:14	USER	8.33	2.0	310	10	
Event	17	Check Floats	Bump Plug	6/30/2014	18:43:04	USER			840		Blug Bumped
Event	18	Check Floats	Check Floats	6/30/2014	18:46:05	USER					Floats Held .5 BBL Back 20

# HALLIBURTON

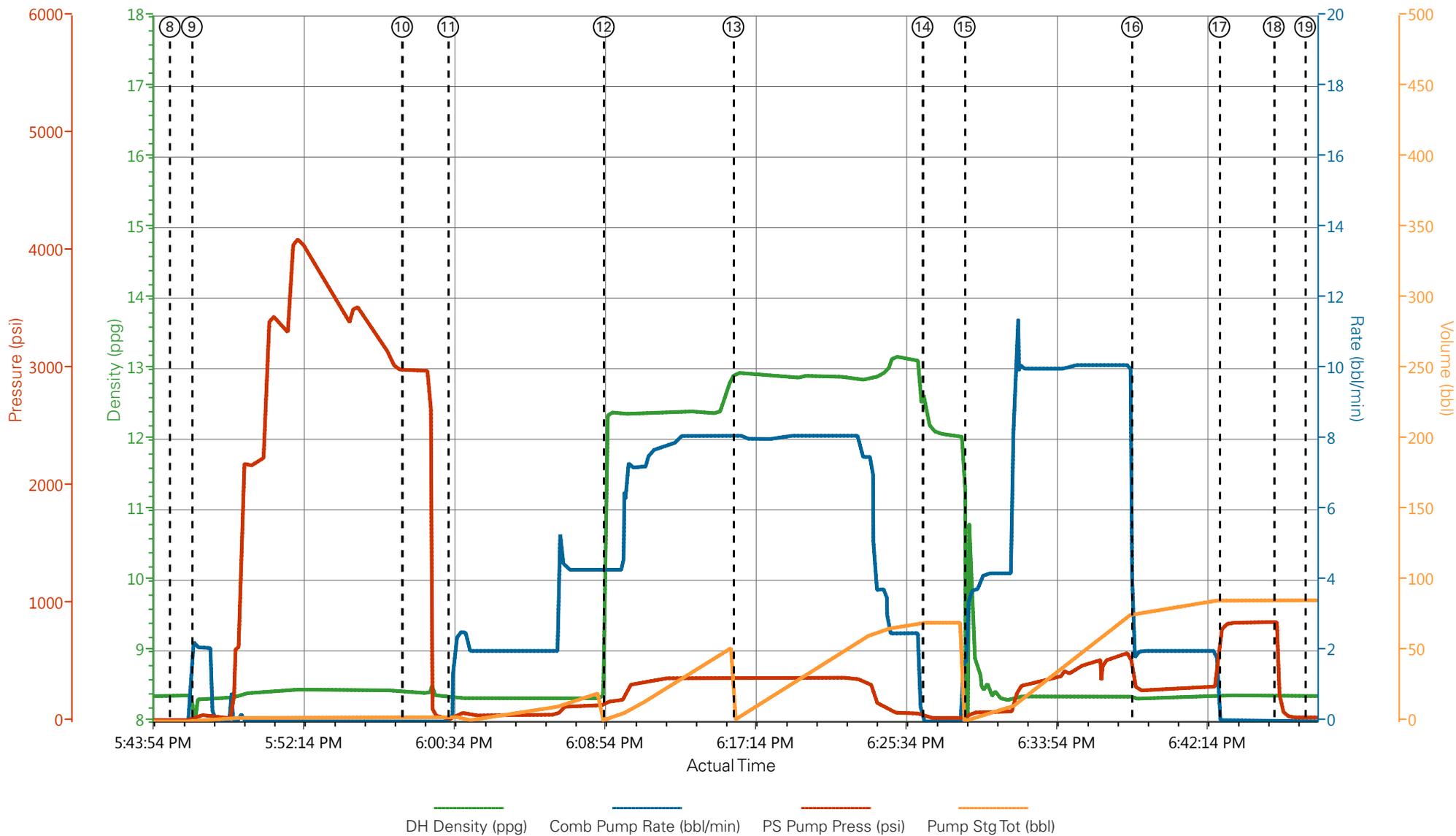
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

901473322

WPX

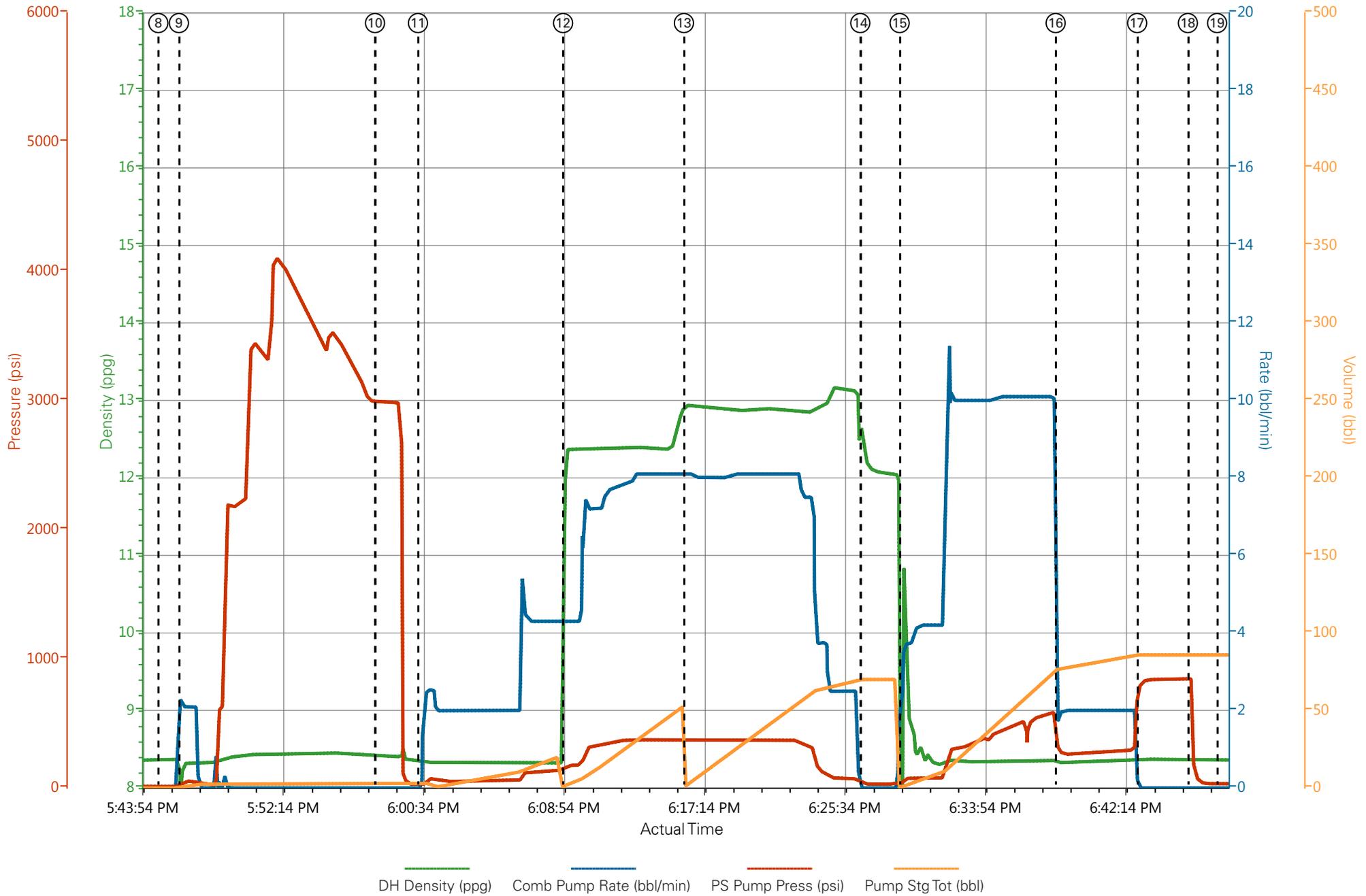
Event	19	End Job	End Job	6/30/2014	18:47:49	COM5	bbls of CMT to surface
							Good Circulation throughout job
Event	20	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	6/30/2014	18:55:00	USER	All HES Employees Attended
Event	21	Rig-Down Equipment	Rig-Down Equipment	6/30/2014	19:00:00	USER	All HES Employees
Event	22	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	6/30/2014	20:00:00	USER	Thank you for using Halliburton
Event	23	Crew Leave Location	Crew Leave Location	6/30/2014	20:30:00	USER	

# WPX FEDERAL NER 34-32 9 5/8" SURFACE CASING



- |   |                             |                     |                     |                               |                             |
|---|-----------------------------|---------------------|---------------------|-------------------------------|-----------------------------|
| ① Call Out                              | ⑤ Pre-Rig Up Safety Meeting | ⑨ Prime Lines       | ⑬ Pump Tail Cement  | ⑰ Bump Plug                   | ⑳ Rig-Down Equipment        |
| ② Pre-Convoy Safety Meeting             | ⑥ Rig-Up Completed          | ⑩ Test Lines        | ⑭ Shutdown          | ⑱ Check Floats                | ㉑ Pre-Convoy Safety Meeting |
| ③ Arrive At Loc                         | ⑦ Pre-Job Safety Meeting    | ⑪ Pump Water Spacer | ⑮ Pump Displacement | ㉒ End Job                     | ㉓ Crew Leave Location       |
| ④ Assessment Of Location Safety Meeting | ⑧ Start Job                 | ⑫ Pump Lead Cement  | ⑯ Slow Rate         | ㉔ Pre-Rig Down Safety Meeting |                             |

# WPX FEDERAL NER 34-32 9 5/8" SURFACE CASING



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

# HALLIBURTON

## Water Analysis Report

Company: WPX  
Submitted by: Dustin Hyde  
Attention: J.TROUT  
Lease: FEDERAL  
Well #: NER 34-32

Date: 6/30/2014  
Date Rec.: 6/30/2014  
S.O.#: 901473322  
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>6.5</b>
Potassium (K)	<i>5000</i>	<b>0</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>250</b> Mg / L
Iron (FE2)	<i>300</i>	<b>0</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>0</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>&lt;200</b> Mg / L
Temp	<i>40-80</i>	<b>70</b> Deg
Total Dissolved Solids		<b>310</b> Mg / L

Respectfully: Dustin Hyde

Title: \_\_\_\_\_

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

<b>Sales Order #:</b> 0901473322	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 7/1/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> RICK OAKS		<b>API / UWI: (leave blank if unknown)</b> 05-045-21784-00
<b>Well Name:</b> FEDERAL		<b>Well Number:</b> 0080125501
<b>Well Type:</b> DIRECTIONAL GAS	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> 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	7/1/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB43597
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	

<b>CUSTOMER SIGNATURE</b>
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### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	7/1/2014
The date the survey was conducted	

Cementing KPI Survey	
<b>Type of Job</b>	0
Select the type of job. (Cementing or Non-Cementing)	
<b>Select the Maximum Deviation range for this Job</b>	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
<b>Total Operating Time (hours)</b>	4
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
<b>HSE Incident, Accident, Injury</b>	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
<b>Was the job purpose achieved?</b>	Yes
Was the job delivered correctly as per customer agreed design?	
<b>Operating Hours (Pumping Hours)</b>	2
Total number of hours pumping fluid on this job. Enter in decimal format.	
<b>Customer Non-Productive Rig Time (hrs)</b>	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.	
<b>Type of Rig Classification Job Was Performed</b>	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
<b>Number Of JSAs Performed</b>	5
Number Of Jsas Performed	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

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Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	98
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> 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	97
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0