

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 444-6

**Aztec 1000**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 7/13/2014

Job Date: 7/08/2014

Submitted by: Tony Eschete - Cement Engineer

*The Road to Excellence Starts with Safety*

Sold To #: 300721		Ship To #: 3475995		Quote #:		Sales Order #: 0901488643	
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep:			
Well Name: HICKS PA			Well #: 444-6			API/UWI #: 05-045-22406-00	
Field: PARACHUTE		City (SAP): PARACHUTE		County/Parish: GARFIELD		State: COLORADO	
Legal Description: SE SW-6-7S-95W-786FSL-2231FWL							
Contractor:				Rig/Platform Name/Num: Aztec 1000			
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	1090ft 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	8 RD	H-40	0	1090	0	0
Open Hole Section			13.5				0	1100		0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1		1090		Top Plug	9.625	1	HES
Float Shoe	9.625	1				Bottom Plug	9.625	1	HES
Float Collar	9.625	1				SSR plug set	9.625	1	HES
Insert Float	9.625	1				Plug Container	9.625	1	HES
Stage Tool	9.625	1				Centralizers	9.625	1	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 ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	50	bbl	8.34			6.4		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	Lead Cement	VARICEM (TM) CEMENT	130	sack	12.3	2.38		8	13.77	

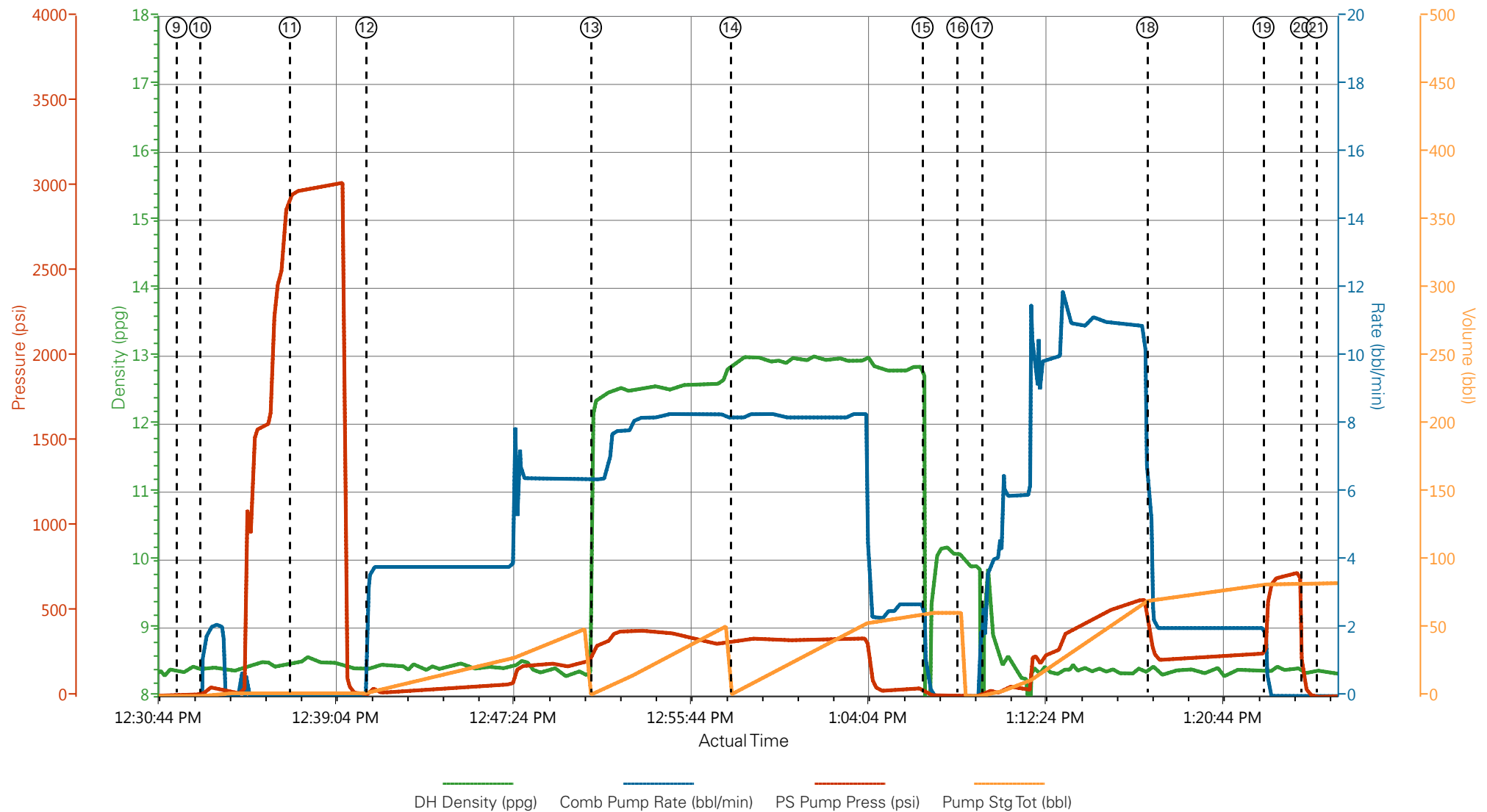
13.77 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	Tail Cement	VARICEM (TM) CEMENT	165	sack	12.8	2.11		8	11.77
11.71 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
4	Displacement	Displacement	82	bbl	8.34			11	
Cement Left In Pipe		Amount	48 ft		Reason		Shoe Joint		
Comment									

## 3.1 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)	Comment
Event	1	Call Out	7/8/2014	04:30:00	USER					0/L 1100
Event	2	Pre-Convoy Safety Meeting	7/8/2014	06:30:00	USER					ALL HES EMPLOYEES ATTENDED
Event	3	Crew Leave Yard	7/8/2014	07:00:00	USER					ALL HES EMPLOYEES ARE FIT TO DRIVE
Event	4	Arrive at loc	7/8/2014	08:30:00	USER					RIG STARTING CASING WHEN HES ARRIVED
Event	5	Assessment Of Location Safety Meeting	7/8/2014	09:00:00	USER					ALL HES EMPLOYEES DID ASSESSMENT AND HAD COMMENTS TOWARDS JSA
Event	6	Pre-Rig Up Safety Meeting	7/8/2014	11:15:00	USER					ALL HES EMPLOYEES ATTENDED
Event	7	Rig-up Equipment	7/8/2014	11:30:00	USER					1 HT-400 PUMP TRUCK (ELITE 2), 1- 660 BULK TRUCK
Event	8	Pre-Job Safety Meeting	7/8/2014	12:00:00	USER					ALL HES EMPLOYEES AND RIG CREW ATTENDED
Event	9	Start Job	7/8/2014	12:31:45	COM5					TD 1100', TP 1090' OF 9 5/8" CASING 32.3 # H-40, SJ 48', OH 13.5", MUD 10.2 PPG
Event	10	Prime Lines	7/8/2014	12:32:51	COM5	8.33	2.0	50	2.0	FRESH WATER
Event	11	Test Lines	7/8/2014	12:37:04	COM5			3000		PRESSURE HELD
Event	12	Pump H2O Spacer	7/8/2014	12:40:39	USER	8.33	6.4	205	50	FRESH WATER
Event	13	Pump Lead Cement	7/8/2014	12:51:13	COM5	12.3	8.3	384	55.1	130 SKS, 12.3 PPG, 2.38 YIELD, 13.77 GAL/SK
Event	14	Pump Tail Cement	7/8/2014	12:57:45	COM5	12.8	8.3	341	62	165 SKS, 12.8 PPG, 2.11 YIELD, 11.77 GAL/SK
Event	15	Shutdown	7/8/2014	13:06:47	COM5					
Event	16	Drop Top Plug	7/8/2014	13:08:25	COM5					VERIFIED BY TATTLE TAIL AND CO. REP
Event	17	Pump Displacement	7/8/2014	13:09:34	COM5	8.33	11	545	72	FRESH WATER
Event	18	Slow Rate	7/8/2014	13:17:20	USER	8.33	2.0	240	10	20 BBL OF CMT TO SURFACE
Event	19	Bump Plug	7/8/2014	13:22:48	USER			250	82	PLUG BUMPED
Event	20	Check Floats	7/8/2014	13:24:33	USER			720		FLOATS HELD ¾ OF A BBL BACK
Event	21	End Job	7/8/2014	13:25:17	COM5					
Event	22	Post-Job Safety Meeting (Pre Rig-Down)	7/8/2014	13:30:00	USER					ALL HES EMPLOYEES ATTENDED

Event	23	Rig Down Lines	7/8/2014	13:45:00	USER	
Event	24	Rig-Down Completed	7/8/2014	14:30:00	USER	NO INJURIES TO REPORT
Event	25	Pre-Convoy Safety Meeting	7/8/2014	15:00:00	USER	ALL HES EMPLOYEES ATTENDED
Event	26	Crew Leave Location	7/8/2014	15:30:00	USER	THANK YOU FOR USING HALLIBURTON ENERGY SERVICES

# WPX PA 444-6 9 5/8" SURFACE



- |   |                          |                     |   |                              |
|---|--------------------------|---------------------|---|------------------------------|
| ① Call Out                              | ⑦ Rig-up Equipment       | ⑬ Pump Lead Cement  | ⑰ Bump Plug                               | 25 Pre-Convoy Safety Meeting |
| ② Pre-Convoy Safety Meeting             | ⑧ Pre-Job Safety Meeting | ⑭ Pump Tail Cement  | 20 Check Floats                           | 26 Crew Leave Location       |
| ③ Crew Leave Yard                       | ⑨ Start Job              | ⑮ Shutdown          | 21 End Job                                |                              |
| ④ Arrive at loc                         | ⑩ Prime Lines            | ⑯ Drop Top Plug     | 22 Post-Job Safety Meeting (Pre Rig-Down) |                              |
| ⑤ Assessment Of Location Safety Meeting | ⑪ Test Lines             | ⑰ Pump Displacement | 23 Rig Down Lines                         |                              |
| ⑥ Pre-Rig Up Safety Meeting             | ⑫ Pump H2O Spacer        | ⑱ Slow Rate         | 24 Rig-Down Completed                     |                              |

▼ **HALLIBURTON** | iCem® Service

Created: 2014-07-08 09:46:21, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 7/8/2014 11:55:07 AM

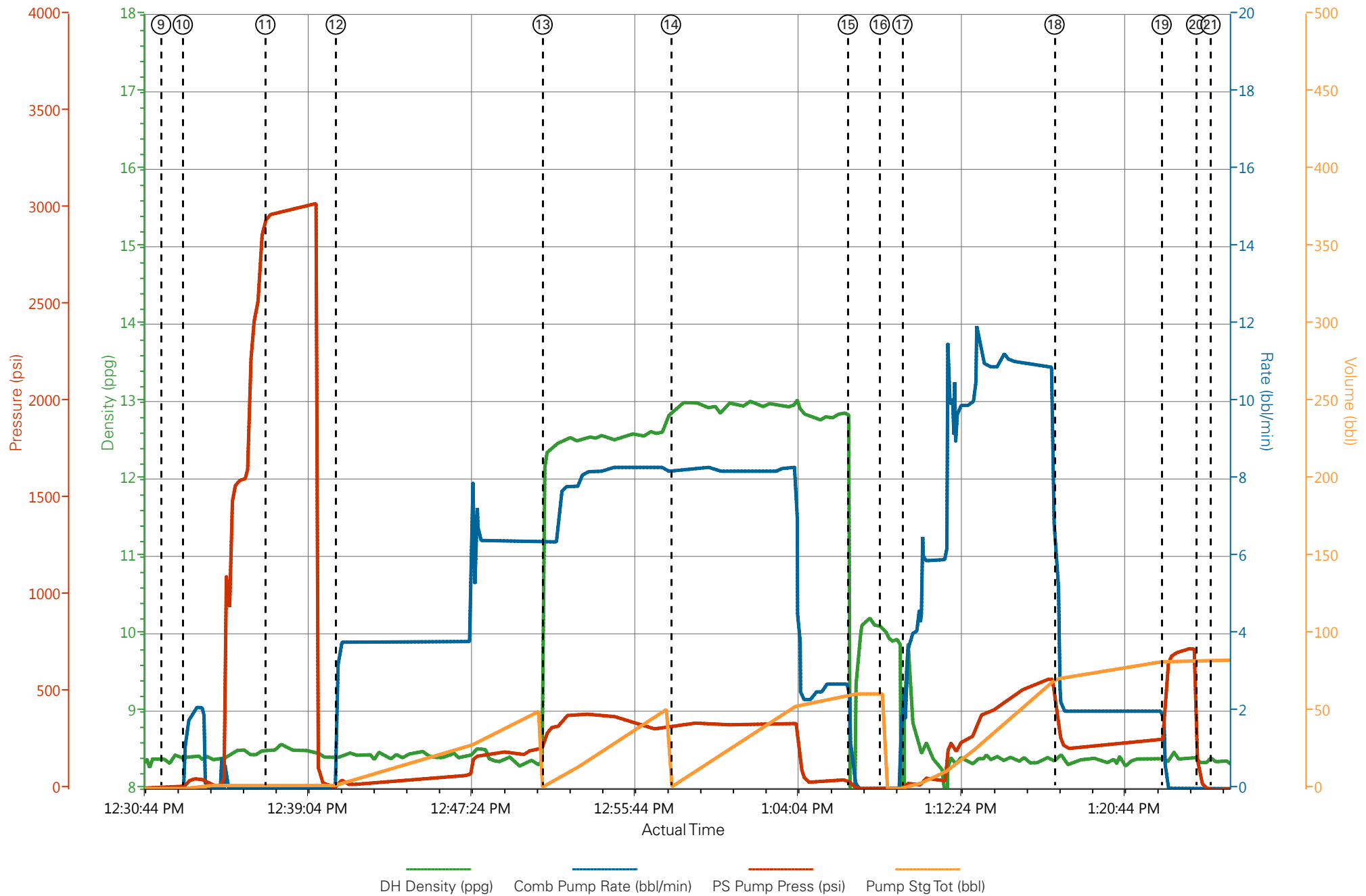
Well: PA 444-6

Representative: Brandon Haire

Sales Order #: 901488643

Elite # 2: Dustin Hyde / Brent Banks

# WPX PA 444-6 9 5/8" SURFACE



# HALLIBURTON

## Water Analysis Report

Company: WPX

Submitted by: Dustin Hyde

Attention: J.TROUT

Lease PA

Well # 444-6

Date: 7/8/2014

Date Rec.: 7/8/2014

S.O.# 901488643

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>0</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>120</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>0</i> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<i>&lt;200</i> Mg / L
Temp	<i>40-80</i>	<i>68</i> Deg
Total Dissolved Solids		<i>220</i> 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



<b>Sales Order #:</b> 0901488643	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 7/8/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> BRANDON HAIRE		<b>API / UWI: (leave blank if unknown)</b> 05-045-22406-00
<b>Well Name:</b> HICKS PA		<b>Well Number:</b> 0080606497
<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	7/8/2014
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	BRANDON HAIRE
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> The date the survey was conducted	7/8/2014

Cementing KPI Survey	
<b>Type of Job</b> Select the type of job. (Cementing or Non-Cementing)	0
<b>Select the Maximum Deviation range for this Job</b> What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
<b>Total Operating Time (hours)</b> Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	3
<b>HSE Incident, Accident, Injury</b> HSE Incident, Accident, Injury. This should be recordable incidents only.	No
<b>Was the job purpose achieved?</b> Was the job delivered correctly as per customer agreed design?	Yes
<b>Operating Hours (Pumping Hours)</b> Total number of hours pumping fluid on this job. Enter in decimal format.	1
<b>Customer Non-Productive Rig Time (hrs)</b> 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.	0
<b>Type of Rig Classification Job Was Performed</b> Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
<b>Number Of JSAs Performed</b> Number Of Jsas Performed	5
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

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<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> GARFIELD

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