

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

GM 511-13

H&P 318

# **Post Job Summary**

## **Cement Surface Casing**

Date Prepared: 7/11/2014  
Job Date: 7/1/2014

Submitted by: Tony Eschete - Cement Engineer

*The Road to Excellence Starts with Safety*

Sold To #: 300721	Ship To #: 3273434	Quote #:	Sales Order #: 0901477880
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: W.C WILSON	
Well Name: C&C ENERGY	Well #: GM 511-13	API/UWI #: 05-045-22268-00	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SW SW-12-7S-96W-288FSL-973FWL			
Contractor:		Rig/Platform Name/Num: H&P 318	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: Dustin Hyde	
<b>Job</b>			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1351ft 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	1351		0
Casing		9.625	9.001	32.3	8 RD	H-40	0	1351	0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make	
Guide Shoe	9.625	1		1351	Top Plug	9.625	1	HES	
Float Shoe	9.625	1			Bottom Plug				
Float Collar	9.625	1		1307	SSR plug set				
Insert Float	9.625	1			Plug Container	9.625	1	HES	
Stage Tool	9.625	1			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 ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	20	bbl	8.34			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	170	sack	12.3	2.38		8	13.77	

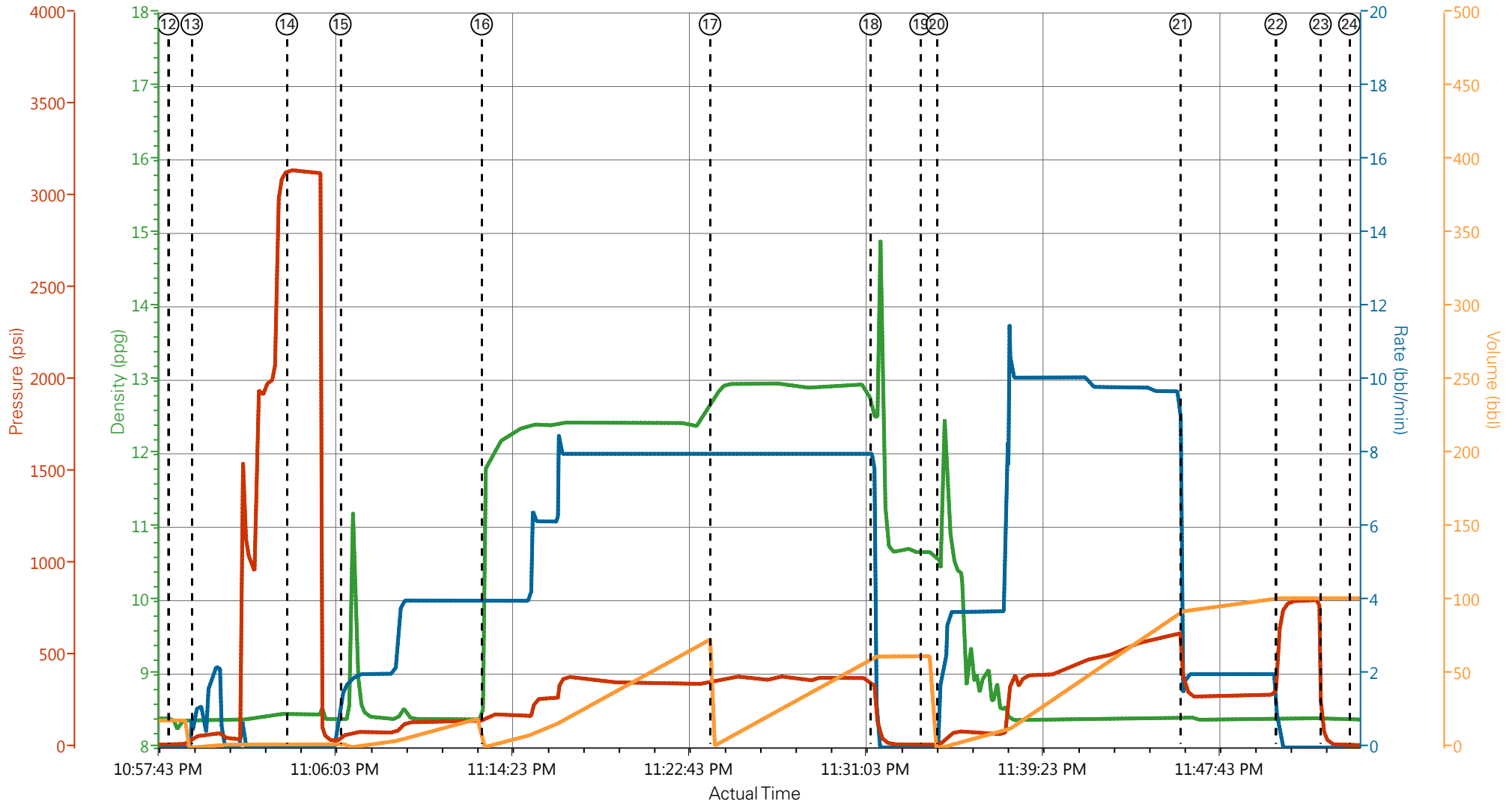
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	Tail Cement	VARICEM (TM) CEMENT	165	sack	12.8	2.11		8	11.77
11.71 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
4	Displacement	Displacement	103	bbl	8.34			10	
<b>Cement Left In Pipe</b>		<b>Amount</b>	44 ft		<b>Reason</b>		Shoe Joint		
<b>Comment</b>									

## 4.1 Job Event Log

Type	Seq. No.	Graph Labeler	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	7/1/2014	14:30:00	USER					ELITE # 7
Event	2	Pre-Convoy Safety Meeting	7/1/2014	16:45:00	USER					ALL HES EMPLOYEES
Event	3	Arrive At Loc	7/1/2014	19:00:00	USER					RIG RIGGING UP CASERS UPON HES ARRIVAL
Event	4	Assessment Of Location Safety Meeting	7/1/2014	19:30:00	USER					ALL HES EMPLOYEES
Event	5	Rig-Up Completed	7/1/2014	20:57:36	USER					
Event	6	Pre-Rig Up Safety Meeting	7/1/2014	21:00:00	USER					ALL HES EMPLOYEES
Event	7	Rig-Up Equipment	7/1/2014	21:30:00	USER					1 HT-400 PUMP TRUCK (ELITE #7) 1-660 BULK TRUCK
Event	8	Pre-Job Safety Meeting	7/1/2014	22:30:00	USER					ALL HES EMPLOYEES AND RIG CREW
Event	9	Start Job	7/1/2014	22:58:20	COM5					TP 1350.6, SJ 44', OH 13.5, CSG 9 5/8 32.3# H-40, RIG HAD HOLE IN THEIR DME UNABLE TO CIRCULATE PLANNED VOLUME
Event	10	Prime Pumps	7/1/2014	22:59:34	COM5	8.38	2	68	2	
Event	11	Test Lines	7/1/2014	23:03:34	USER			3140		PRESSURE HELD
Event	12	Pump Spacer 1	7/1/2014	23:06:25	COM5	8.33	4.0	4	20	FRESH WATER
Event	13	Pump Lead Cement	7/1/2014	23:13:06	COM5	12.3	8.0	355	72	170 SKS, 12.3 PPG, 2.38 YIELD, 13.77 GAL/SK
Event	14	Pump Tail Cement	7/1/2014	23:23:52	COM5	12.8	8.0	385	62	165 SKS, 12.8 PPG, 2.11 YIELD, 11.77 GAL/SK
Event	15	Shutdown	7/1/2014	23:31:25	USER					
Event	16	Drop Top Plug	7/1/2014	23:33:47	USER					VERIFIED BY TATTLE TAIL

Event	17	Pump Displacement	7/1/2014	23:34:33	COM5	8.33	10	600	93	FRESH WATER
Event	18	Slow Rate	7/1/2014	23:46:02	USER	8.33	2.0	287	10	
Event	19	Bump Plug	7/1/2014	23:50:31	USER			288	103	PLUG BUMPED
Event	20	Check Floats	7/1/2014	23:52:38	USER			802		FLOATS HELD
Event	21	End Job	7/1/2014	23:54:00	USER	8.38	0.00	12.00	101.7	GOOD RETURNS THROUGH OUT JOB, 22 BBLS OF CMT TO SURFACE
Event	22	Pre-Rig Down Safety Meeting	7/2/2014	00:00:01	USER	8.38	0.00	11.00	101.7	ALL HES EMPLOYEES
Event	23	Rig-Down Equipment	7/2/2014	00:15:00	USER					
Event	24	Pre-Convoy Safety Meeting	7/2/2014	01:30:00	USER					ALL HES EMPLOYEES, NO INJURIES TO REPORT
Event	25	Crew Leave Location	7/2/2014	02:00:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT

WPX GM 511-13 9 5/8" SURFACE CASING



DH Density (ppg) 8.37    Comb Pump Rate (bbl/min) 0    PS Pump Press (psi) 16    Pump Stg Tot (bbl) 104

- |   |                               |                             |                          |                      |                 |
|---|-------------------------------|-----------------------------|--------------------------|----------------------|-----------------|
| ① Call Out                              | ⑤ Rig-Up Completed            | ⑨ Crew Leave Location       | ⑬ Pre-Job Safety Meeting | ⑰ Pump Tail Cement   | 21 Slow Rate    |
| ② Pre-Convoy Safety Meeting             | ⑥ Pre-Rig Down Safety Meeting | ⑩ Pre-Rig Up Safety Meeting | ⑭ Pump Spacer 1          | ⑱ Shutdown           | 22 Bump Plug    |
| ③ Arrive At Loc                         | ⑦ Rig-Down Equipment          | ⑪ Rig-Up Equipment          | ⑮ Prime Pumps            | ⑲ Drop Top Plug      | 23 Check Floats |
| ④ Assessment Of Location Safety Meeting | ⑧ Pre-Convoy Safety Meeting   | ⑫ Start Job                 | ⑯ Pump Lead Cement       | 20 Pump Displacement | 24 End Job      |

▼ HALLIBURTON | iCem® Service

Created: 2014-07-01 20:51:23, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 7/1/2014 10:20:17 PM

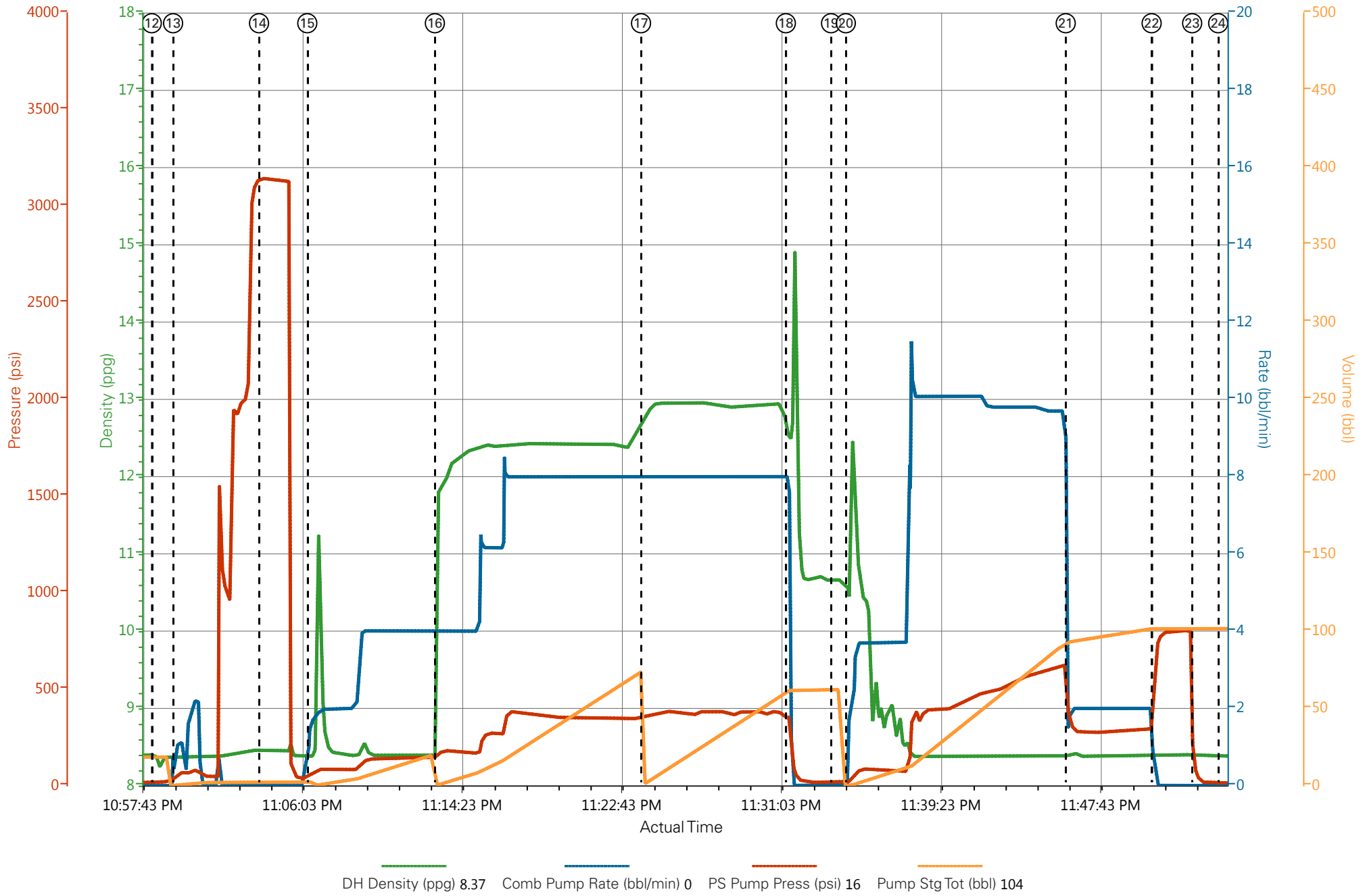
Well: GM 511-13

Representative: W.C.WILSON

Sales Order #: 901477880

ELITE #7: DUSTIN HYDE / BRENT BANKS

WPX GM 511-13 9 5/8" SURFACE CASING



DH Density (ppg) 8.37 Comb Pump Rate (bbl/min) 0 PS Pump Press (psi) 16 Pump Stg Tot (bbl) 104

# HALLIBURTON

## Water Analysis Report

Company: WPX

Date: 7/1/2014

Submitted by: Dustin Hyde

Date Rec.: 7/1/2014

Attention: J.TROUT

S.O.# 901477880

Lease GM

Job Type: SURFACE

Well # 511-13

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>6.5</b>
Potassium (K)	<i>5000</i>	<b>200 Mg / L</b>
Calcium (Ca)	<i>500</i>	<b>120 Mg / L</b>
Iron (FE2)	<i>300</i>	<b>0 Mg / L</b>
Chlorides (Cl)	<i>3000</i>	<b>0 Mg / L</b>
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>&lt;200 Mg / L</b>
Temp	<i>40-80</i>	<b>70 Deg</b>
Total Dissolved Solids		<b>310 Mg / L</b>

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> 0901477880	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 7/2/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> W.C WILSON		<b>API / UWI: (leave blank if unknown)</b> 05-045-22268-00
<b>Well Name:</b> C&C ENERGY		<b>Well Number:</b> 0080358210
<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	7/2/2014
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	W.C WILSON
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>	7/2/2014
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>	3
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	96
<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	95
<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