

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 514-2

**Aztec 1000**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 04/20/2014

Submitted by: Grand Junction Cement Engineering

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3191534	Quote #:	Sales Order #: 0901271470
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: FRANK MOORE	
Well Name: WPX ENERGY		Well #: PA 514-2	API/UWI #: 05-045-22139-00
Field: PARACHUTE	City (SAP): PAR	County/Parish: GARFIELD	State: COLORADO
Legal Description: NE SW-2-7S-95W-2003FSL-1562FWL			
Contractor:		Rig/Platform Name/Num: AZTEC 1000	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HAM2616		Srvc Supervisor: Francisco Javier Castillo	
Job			

Formation Name	
Formation Depth (MD)	Top Bottom 985
Form Type	BHST
Job depth MD	985ft 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	985		0
Casing		9.625	9.001	32.3	8 RD	H-40	0	975	0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1	WTF	975		Top Plug	9.625	1	HES
Float Shoe						Bottom Plug			
Float Collar	9.625	1	WTF	930		SSR plug set			
Insert Float						Plug Container	9.625	1	HES
Stage Tool						Centralizers	9.625	9	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		
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	Tail Cement	VARICEM (TM) CEMENT	275	sack	12.8	2.11		7	11.77	
11.71 Gal			FRESH WATER							

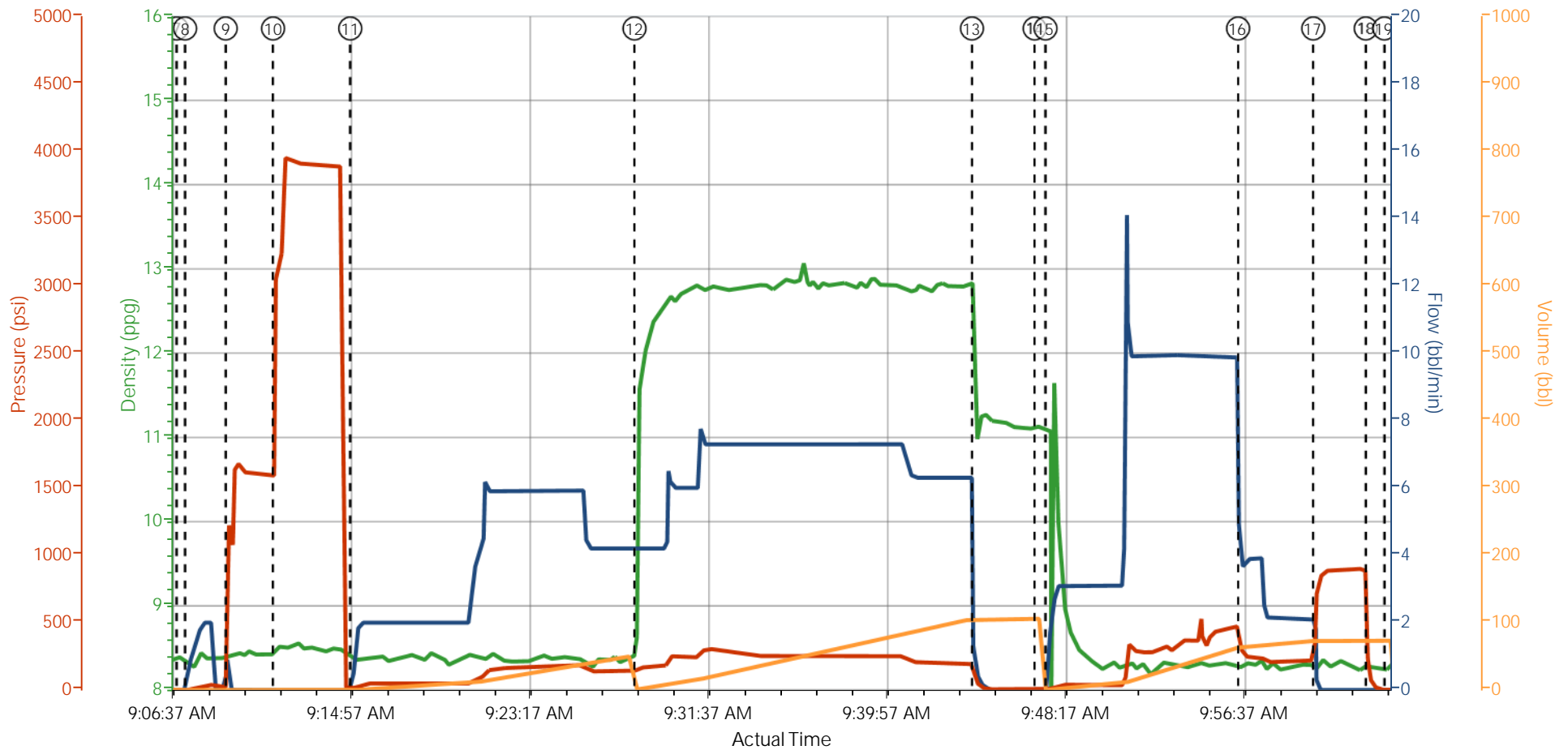
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	Displacement	Displacement	73	bbl	8.34			10	
Cement Left In Pipe		Amount	48 ft		Reason		Shoe Joint		
Comment									

## 1.1 Job Event Log

Type	Seq. No.	Graph Label/Activity	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	CALL OUT	4/16/2014	20:00:00	USER					ON LOCATION AT 04:00 HRS
Event	2	DEPART YARD SAFETY MEETING	4/16/2014	20:50:00	USER					
Event	3	LEAVE THE YARD	4/16/2014	21:00:00	USER					
Event	4	ARRIVE ON LOCATION	4/16/2014	22:00:00	USER					RIG WAS STILL DRILLING / STAGED TRUCKS AT A NEAR BY LOCATION TILL THE RIG SITE WAS CLEARED
Event	5	START RUNNING CASING	4/17/2014	06:00:00	USER					LANDED CASING T 08:00 HRS
Event	6	PRE-JOB SAFETY MEETING	4/17/2014	09:00:00	USER					ALL HES PERSONEL AND RIG CREW
Event	7	START JOB	4/17/2014	09:07:00	COM5					TD-985', OH-13.5", TP-975', SJ-45', FC-930', CSG-9.625", 32.3#, H-40, MUD-10.4 PPG, FV-58, PV-20, YP-16, pH-9.3
Event	8	FILL LINES	4/17/2014	09:07:23	USER	8.33 PPG	2 BPM	39 PSI	2 BBLS	FRESH WATER
Event	9	STALL OUT	4/17/2014	09:09:17	COM5					TESTED AT 1620 PSI
Event	10	TEST LINES	4/17/2014	09:11:29	COM5					TESTED AT 3911 PSI
Event	11	PUMP WATER SPACER	4/17/2014	09:15:05	COM5	8.33 PPG	6 BPM	185 PSI	50 BBLS	
Event	12	PUMP CEMENT SLURRY	4/17/2014	09:28:20	COM5	12.8 PPG	7 BPM	258 PSI	103 BBLS	275 SKS, 12.8 PPG, 2.11 FT3/SK, 11.77 GAL/SK, SETUP TIME 1:51 HRS AT 70 BC
Event	13	SHUTDOWN	4/17/2014	09:44:04	USER					
Event	14	DROP PLUG	4/17/2014	09:46:59	USER					VERIFIED BY CUSTOMER
Event	15	PUMP DISPLACEMENT	4/17/2014	09:47:30	COM5	8.33 PPG	10 BPM	452 PSI	63 BBLS	FRESH WATER
Event	16	SLOW RATE	4/17/2014	09:56:28	USER	8.33 PPG	2 BPM	217 PSI	10 BBLS	
Event	17	BUMP PLUG	4/17/2014	09:59:58	COM5			899 PSI	TOTAL DISP. 73 BBLS	CIRCULATED 28 BBLS/75 SKS OF CEMENT TO SURFACE
Event	18	CHECK FLOATS	4/17/2014	10:02:25	USER					FLOATS HELD WITH .75 BBL FLOW BACK TO DISPLACEMENT TANK
Event	19	END JOB	4/17/2014	10:03:18	USER					40 LBS OF SUGAR IN CELLAR AND HAD GOOD CIRCULATION THRUOUGH OUT THE JOB
Event	20	RIG DOWN SAFETY	4/17/2014	10:10:00	USER					

MEETING						
Event	21	RIG DOWN COMPLETE	4/17/2014	11:30:00	USER	
Event	22	DEPART LOCATION SAFETY MEETING	4/17/2014	11:45:00	USER	NO INJURIES TO REPORT AFTER THE JOB
Event	23	CREW LEAVE LOCATION	4/17/2014	12:00:00	USER	FIELD TICKET WAS VERIFIED WITH BRITNEY
Event	24	THANK YOU	4/17/2014	12:01:00	USER	THANK YOU FOR YOUR BUSINESS FROM JAVIER CASTILLO AND CREW

# WPX PA 514-2 9 5/8 SURFACE



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

- |   |  |   |   |   |
|---|--|---|---|---|
| • CALL OUT <span style="color: green;">n/a;n/a;n/a;n/a</span>                   | • PRE-JOB SAFETY MEETING <span style="color: green;">8.34;0.60;22.3</span> | • PUMP WATER SPACER <span style="color: green;">8.4;0.9;16.0</span>       | • SLOW RATE <span style="color: green;">8.24;3.6;287;64</span>                | 2 |
| • DEPART YARD SAFETY MEETING <span style="color: green;">n/a;n/a;n/a;n/a</span> | • START JOB <span style="color: green;">8.42;0.0;0</span>                  | • PUMP CEMENT SLURRY <span style="color: green;">11.17;4.2;151;1.2</span> | • BUMP PLUG <span style="color: green;">8.25;0.756;73.1</span>                | 2 |
| • LEAVE THE YARD <span style="color: green;">n/a;n/a;n/a;n/a</span>             | • FILL LINES <span style="color: green;">8.37;0.9;1.0.1</span>             | • SHUTDOWN <span style="color: green;">11.08;0.7;70;105.7</span>          | • CHECK FLOATS <span style="color: green;">8.31;0.101;73.1</span>             | 2 |
| • ARRIVE ON LOCATION <span style="color: green;">n/a;n/a;n/a;n/a</span>         | • STALL OUT <span style="color: green;">8.4;0.1214;2</span>                | • DROP PLUG <span style="color: green;">11.13;0.5;105.8</span>            | • END JOB <span style="color: green;">8.31;0.1;73.1</span>                    | 2 |
| • START RUNNING CASING <span style="color: green;">n/a;n/a;n/a;n/a</span>       | • TEST LINES <span style="color: green;">8.5;0.3144;2</span>               | • PUMP DISPLACEMENT <span style="color: green;">11.11;0.7;5.0</span>      | 20 RIG DOWN SAFETY MEETING <span style="color: green;">n/a;n/a;n/a;n/a</span> |   |

▼ HALLIBURTON | iCem® Service

Created: 2014-04-17 08:22:16, Version: 3.0.121

Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date : 4/17/2014 8:23:53 AM

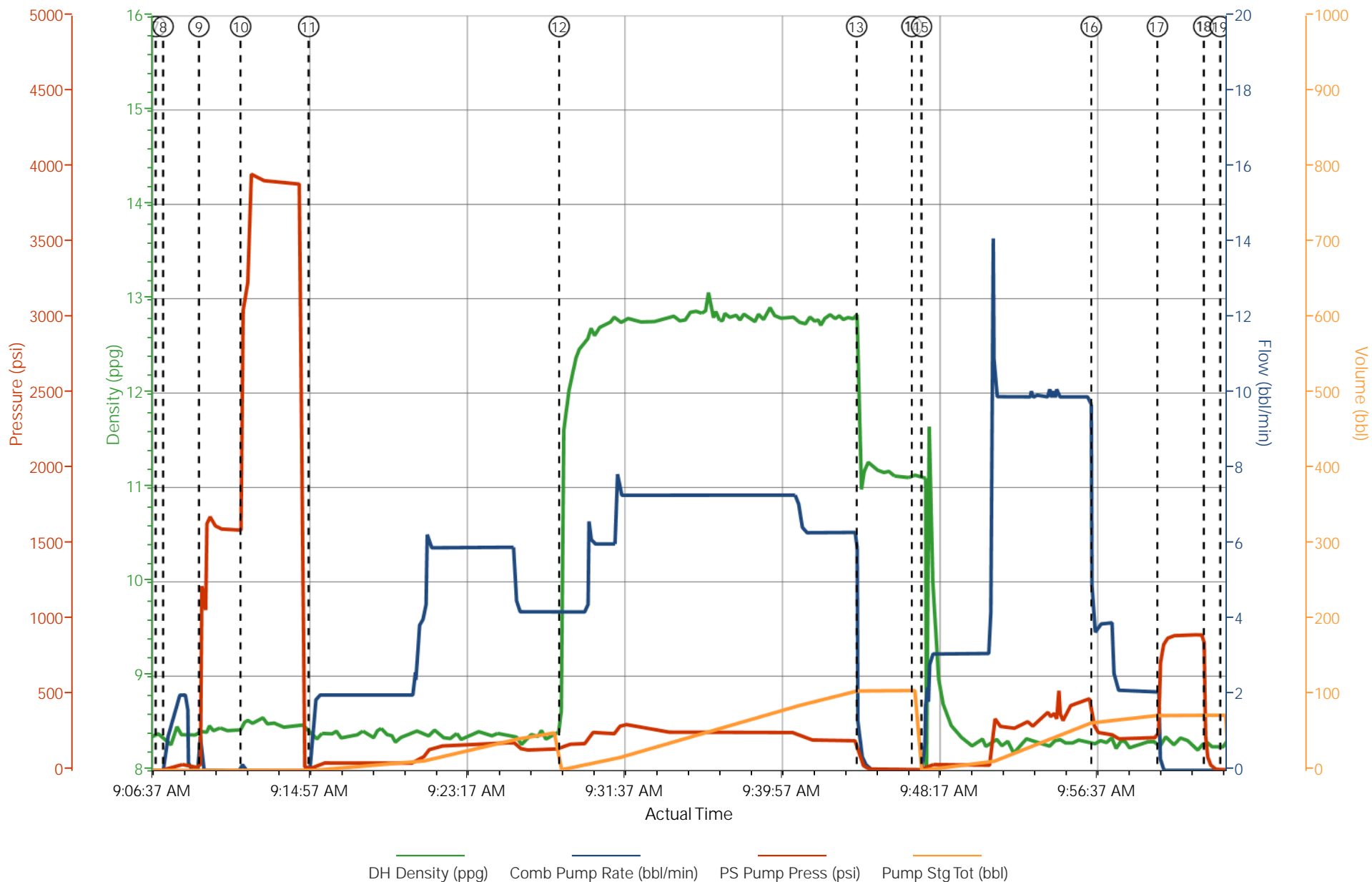
Well : PA 514-2

Representative: FRANK MOORE

Sales Order #: 901271470

ELITE #2: J. CASTILLO / DAN SINCLAIR

# WPX PA 514-2 9 5/8 SURFACE



# HALLIBURTON

## Water Analysis Report

Company: WPX

Submitted by: JAVIER CASTILLO

Attention: Chuck Ross

Lease: PA

Well #: 514-2

Date: 4/17/2014

Date Rec.: 4/17/2014

S.O.#: 901271470

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>200</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>120</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>200</b> Mg / L
Chlorine (Cl <sub>2</sub> )		<b>0</b> Mg / L
Temp	<i>40-80</i>	<b>40</b> Deg
Total Dissolved Solids		<b>210</b> Mg / L

Respectfully: JAVIER CASTILLO

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 if

<b>Sales Order #:</b> 0901271470	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 4/17/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> BRANDON HARIE		<b>API / UWI: (leave blank if unknown)</b> 05-045-22139-00
<b>Well Name:</b> WPX ENERGY		<b>Well Number:</b> 0080226428
<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	4/17/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB85312
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	BRANDON HARIE
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	4/17/2014

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.	13
<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	95
<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