

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 343-3

Aztec 1000

Post Job Summary

Cement Surface Casing

Date Prepared: 05/31/2014

Job Date: 05/23/2014

Submitted by: Aaron Katz – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3191542	Quote #:	Sales Order #: 0901371315
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Brandon Haire	
Well Name: WPX ENERGY		Well #: PA 343-3	API/UWI #: 05-045-22145-00
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: NE SW-2-7S-95W-2062FSL-1529FWL			
Contractor:		Rig/Platform Name/Num: Aztec 1000	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: Edward Deussen	

Job

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	1286.97ft		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			0	1286.97		0
Open Hole Section			13.5				0	1286.97		0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe				1286.97	Top Plug	9.625	1	HES
Float Shoe					Bottom Plug			
Float Collar					SSR plug set			
Insert Float					Plug Container	9.625	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

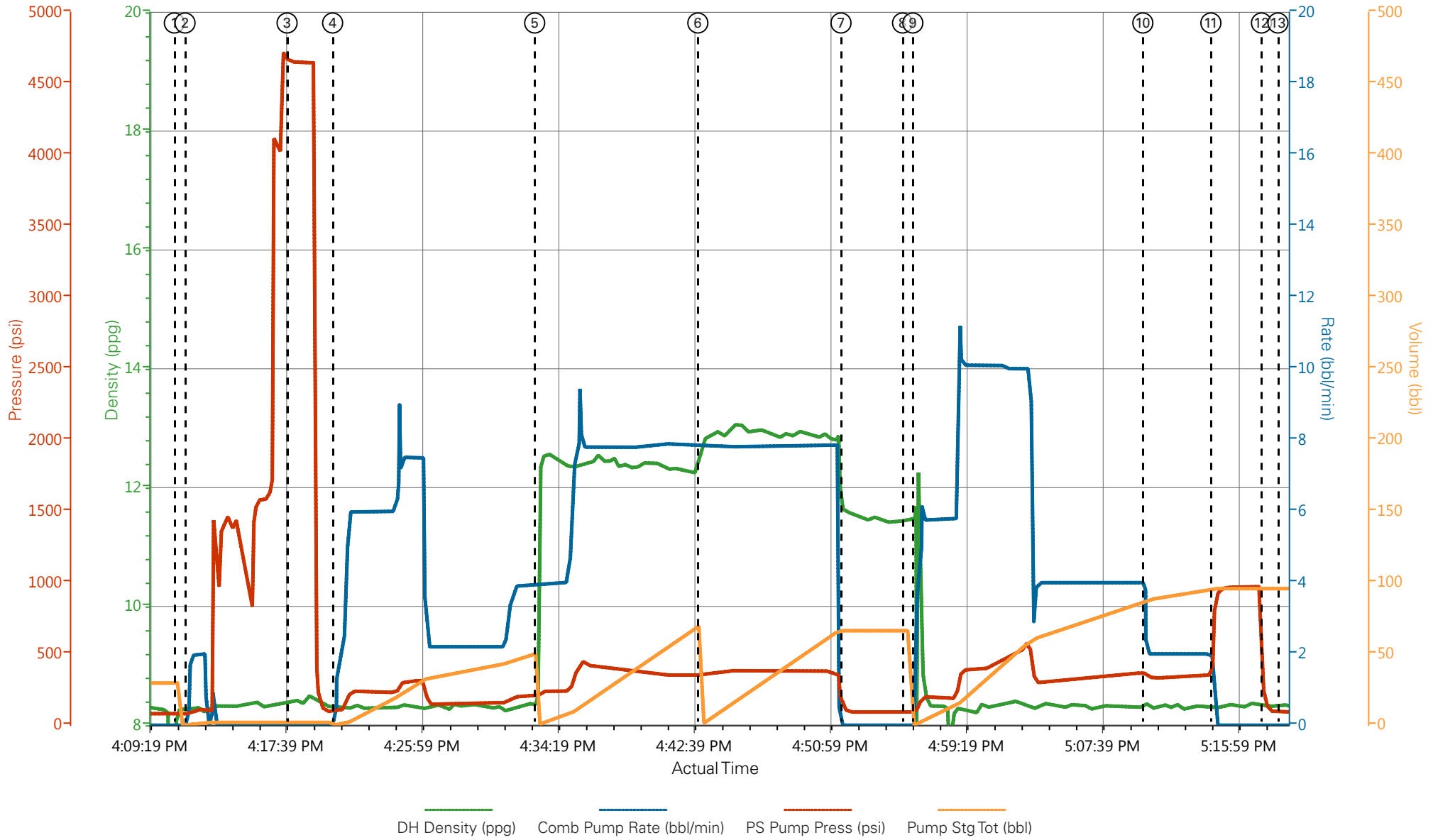
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water Spacer	Fresh Water Spacer	50	bbl	8.34			7.0		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	

2	Lead Cement	VARICEM (TM) CEMENT	170	sack	12.3	2.38		8.0	13.77	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
3	Tail Cement	VARICEM (TM) CEMENT	170	sack	12.8	2.11		8.0	11.77	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
4	Fresh Water Displacement	Fresh Water Displacement	97.5	bbbl	8.34			7.0		
Cement Left In Pipe		Amount	47.57 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	Start Job	5/23/2014	16:11:00	COM5					O/L 1500 - TD 1295', TP 1286.97', SJ 47.57', Mud 10.0 ppg, 9 5/8" 32.3# csg, 13 1/2" OH
Event	2	Prime Lines	5/23/2014	16:11:39	COM5	8.30	2.0	116	2.0	
Event	3	Test Lines	5/23/2014	16:17:54	COM5			4657		
Event	4	Pump H2O Spacer	5/23/2014	16:20:41	COM5	8.29	7.0	310	50.0	Fresh Water
Event	5	Pump Lead Cement	5/23/2014	16:33:04	COM5	12.3	8.0	410	72.0	170 sks, 12.3 ppg, 2.38 yield, 13.77 gal/sk
Event	6	Pump Tail Cement	5/23/2014	16:43:03	COM5	12.8	8.0	366	63.9	170 sks, 12.8 ppg, 2.11 yield, 11.77 gal/sk
Event	7	Shutdown/Wash Lines	5/23/2014	16:51:49	USER					Wash up on top of plug
Event	8	Drop Top Plug	5/23/2014	16:55:35	COM5					
Event	9	Pump Displacement	5/23/2014	16:56:13	COM5	8.40	10.0	505	97.5	Fresh Water
Event	10	Slow Rate	5/23/2014	17:10:18	COM5	8.36	2.0	331	10.0	
Event	11	Bump Plug	5/23/2014	17:14:28	COM5			351		30 bbls cement to surface
Event	12	Check Floats	5/23/2014	17:17:34	COM5			966		Floats held – ½ bbl flowback
Event	13	End Job	5/23/2014	17:18:35	COM5					No add hours/No sugar

WPX - PA 343-3 - 9 5/8" SURFACE



- ① Start Job 8.25;0;81;29.6 ④ Pump H2O Spacer 8.29;0;93;0 ⑦ Shutdown/Wash Lines 11.64;0;113;66.3 ⑩ Slow Rate 8.36;2;358;87.7 ⑬ End Job 8.31;0;90;95.8
- ② Prime Lines 8.3;0;81;0 ⑤ Pump Lead Cement 8.81;4;208;0.4 ⑧ Drop Top Plug 11.46;0;92;66.3 ⑪ Bump Plug 8.29;0;808;95.8
- ③ Test Lines 8.41;0;4657;2 ⑥ Pump Tail Cement 12.63;79;357;0.2 ⑨ Pump Displacement 8.02;2.7;98;0.1 ⑫ Check Floats 8.35;0;182;95.8

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Created: 2014-05-23 14:28:37, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 5/23/2014 3:11:40 PM

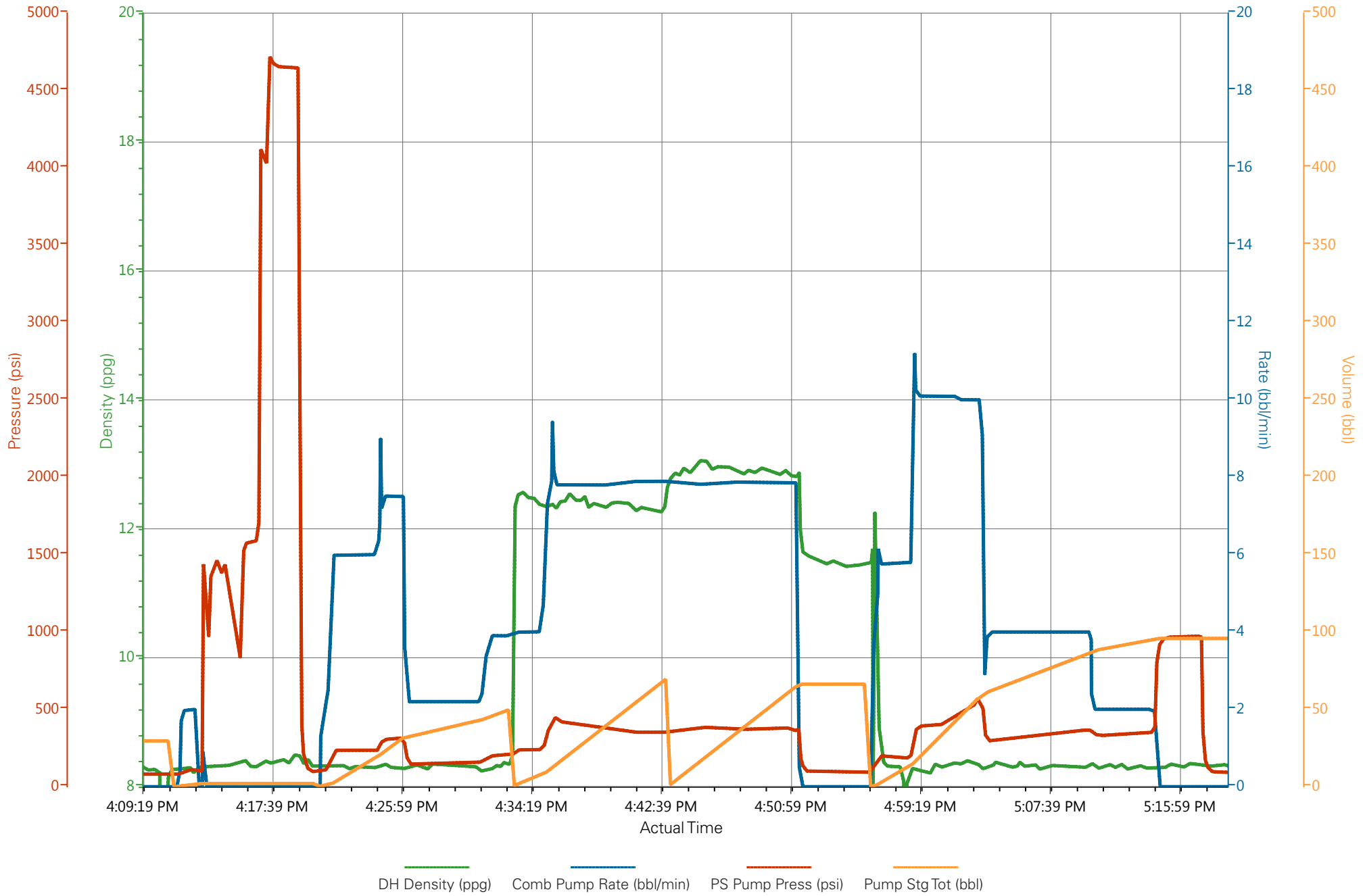
Well: PA 343-3

Representative: Brandon Haire

Sales Order #: 901371315

Elite #9: Ed Deussen / Wes Gowen

WPX - PA 343-3 - 9 5/8" SURFACE



HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: ED DEUSSEN
Attention: J.TROUT
Lease: PA
Well #: 343-3

Date: 5/23/2014
Date Rec.: 5/23/2014
S.O.#: 901371315
Job Type: 9 5/8" Surface

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	6.5
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
Temp	<i>40-80</i>	50 Deg
Total Dissolved Solids		310 Mg / L

Respectfully: ED DEUSSEN

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

Sales Order #: 0901371315	Line Item: 10	Survey Conducted Date: 5/23/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: BRANDON HAIRE		API / UWI: (leave blank if unknown) 05-045-22145-00
Well Name: WPX ENERGY		Well Number: 0080226503
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	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	5/23/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB57194
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	

CUSTOMER SIGNATURE

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KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	5/23/2014
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	Vertical
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)	2
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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Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	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	99
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	99
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