

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 24-2

Aztec 1000

Post Job Summary

Cement Surface Casing

Date Prepared: 06/17/2014
Job Date: 03/30/2014

Submitted by: Kory Hugentobler – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3191091	Quote #:	Sales Order #: 0901231564
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Josh Garibay	
Well Name: WPX ENERGY	Well #: PA 24-2	API/UWI #: 05-045-22148-00	
Field: PARACHUTE	City (SAP): PAR	County/Parish: GARFIELD	State: COLORADO
Legal Description: NE SW-2-7S-95W-2014FSL-1567FWL			
Contractor:		Rig/Platform Name/Num: AZTEC 1000	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HAM2616		Srvc Supervisor: Edward Deussen	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	898.5ft		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	898.5		
Open Hole Section			13.5				0	898.5	0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe				898.5		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

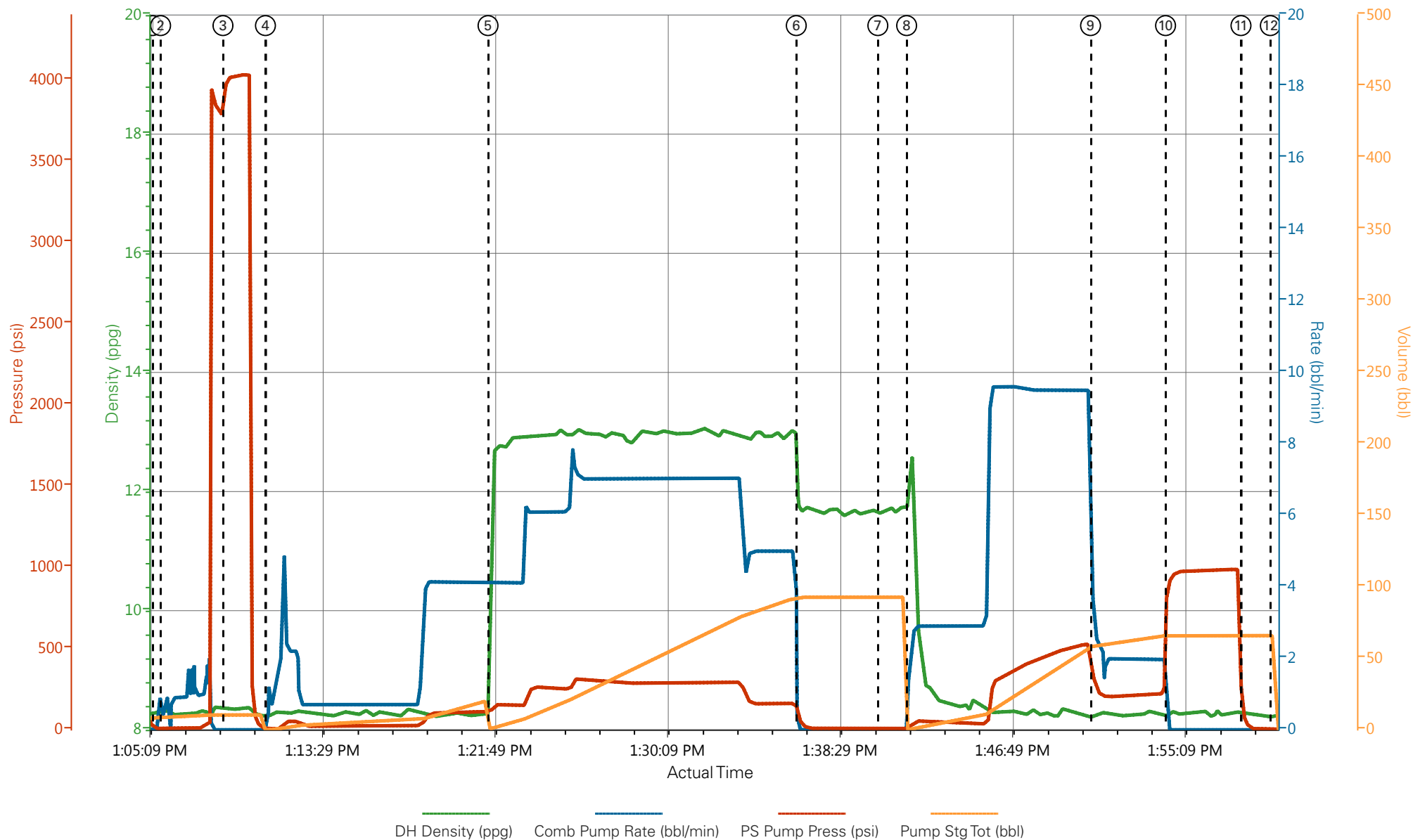
Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	20.0	bbl	8.34			4.0		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	Tail Cement	VARICEM (TM) CEMENT	250	Sack/Ton	12.8	2.11		7.0	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/min	Total Mix Fluid Gal
3	Displacement	Displacement		67.2	bbl	8.34			10.0	
Cement Left In Pipe		Amount	45 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	Pre-Job Safety Meeting	3/30/2014	12:45:00	USER					All personnel on site
Event	2	Start Job	3/30/2014	13:05:25	COM5					TP 898.5', SJ 45', Mud 10.6 ppg, 13 ½" OH, 9 5/8" csg
Event	3	Prime Lines	3/30/2014	13:05:48	USER	8.27	2.0	31	2.0	Fresh Water
Event	4	Test Lines	3/30/2014	13:08:49	COM5			4098		Pressure held well
Event	5	Pump H2O Spacer	3/30/2014	13:10:52	COM5	8.29	4.0	153	20.0	Fresh Water
Event	6	Pump Tail Cement	3/30/2014	13:21:37	COM5	12.8	7.0	283	93.9	250 sks, 12.8 ppg, 2.11 yield, 11.77 gal/sk
Event	7	Shutdown/Wash Lines	3/30/2014	13:36:30	USER					Wash up on top of plug
Event	8	Drop Top Plug	3/30/2014	13:40:27	USER					
Event	9	Pump Displacement	3/30/2014	13:41:50	COM5	8.37	10.0	533	67.2	Fresh Water
Event	10	Slow Rate	3/30/2014	13:50:43	COM5	8.33	2.0	210	10.0	Good returns throughout
Event	11	Bump Plug	3/30/2014	13:54:20	COM5			224		20 bbls cement to surface
Event	12	Check Floats	3/30/2014	13:57:59	USER			970		Floats held—½ bbl flowback
Event	13	End Job	3/30/2014	13:59:24	COM5					50 lbs sugar used/No add hours
Event	14	Pre-Rig Down Safety Meeting	3/30/2014	14:15:00	USER					
Event	15	Rig-Down Equipment	3/30/2014	14:30:00	USER					
Event	16	Pre-Convoy Safety Meeting	3/30/2014	15:30:00	USER					
Event	17	Crew Leave Location	3/30/2014	15:45:00	USER					Thank you for using Halliburton – Ed Deussen

WPX - PA 24-2 - 9 5/8" SURFACE



- | | | | |
|-------------------------------|---------------------------------------|--------------------------------------|-------------------------------|
| ① Start Job 8.28;0;10;79 | ④ Pump H2O Spacer 8.22;1.2;4;0 | ⑦ Drop Top Plug 11.65;0;7;92.7 | ⑩ Bump Plug 8.3;0;905;65.9 |
| ② Prime Lines 8.27;0.7;3;8.1 | ⑤ Pump Tail Cement 11.14;4.1;119;0.9 | ⑧ Pump Displacement 12.26;1.8;22;0.2 | ⑪ Check Floats 8.27;0;78;65.9 |
| ③ Test Lines 8.39;0;3981;10.4 | ⑥ Shutdown/Wash Lines 11.63;0;60;92.7 | ⑨ Slow Rate 8.23;3.2;305;58.8 | ⑫ End Job 8.22;0;2;65.9 |

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Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 3/30/2014 11:59:41 AM

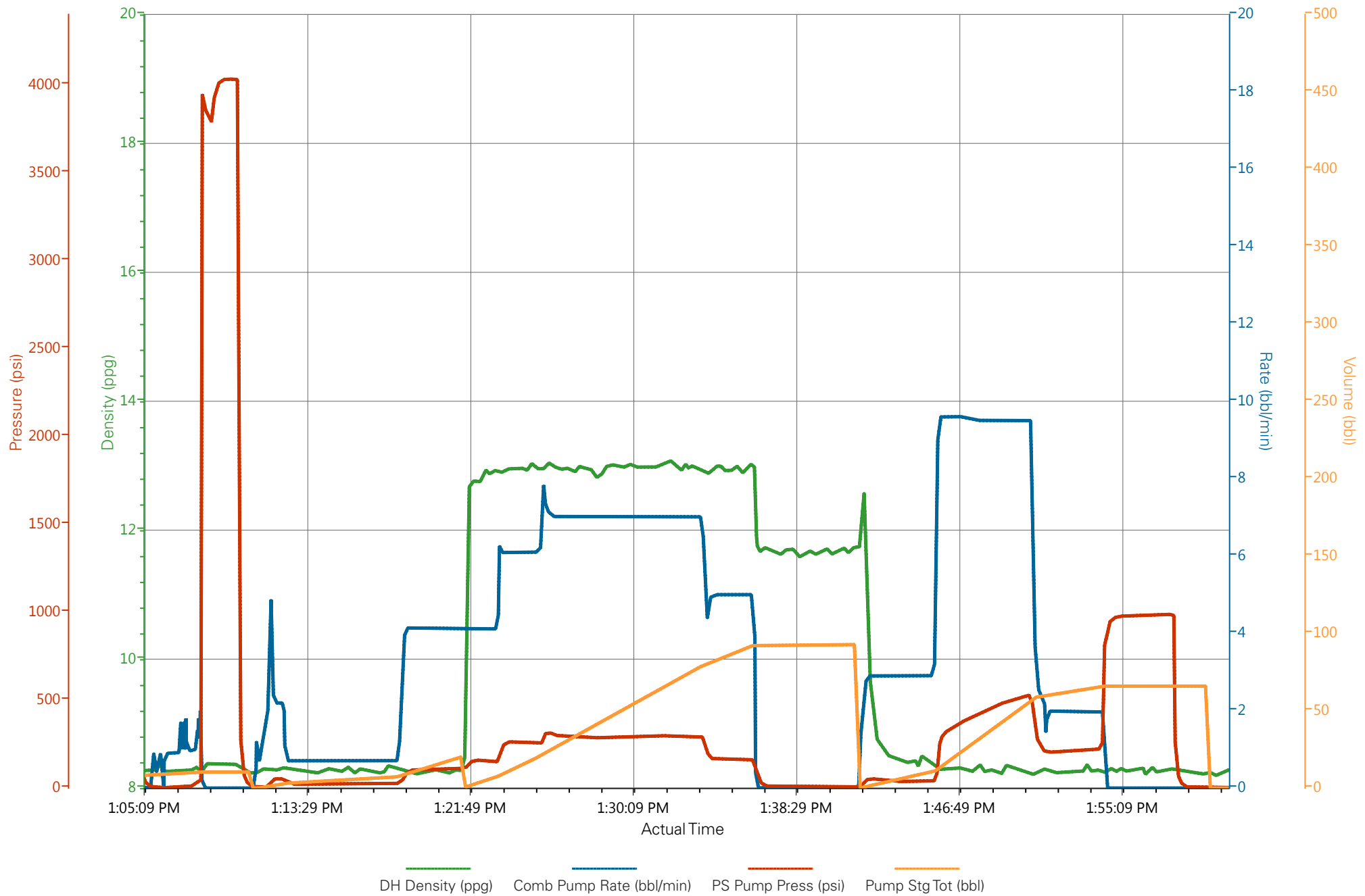
Well: PA 24-2

Representative: Josh Garibay

Sales Order #: 901231564

Elite #9: Ed Deussen / Rob Eickhoff

WPX - PA 24-2 - 9 5/8" SURFACE



HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: ED DEUSSEN

Attention: J.TROUT

Lease: PA

Well #: 24-2

Date: 3/30/2014

Date Rec.: 3/30/2014

S.O.#: 901231564

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>	120 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>	49 Deg
Total Dissolved Solids		330 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 its use.

Sales Order #: 0901231564	Line Item: 10	Survey Conducted Date: 3/30/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22148-00
Well Name: WPX ENERGY		Well Number: 0080226541
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	3/30/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB57194
Customer Participation	Did the customer participate in this survey? (Y/N)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

CUSTOMER SIGNATURE

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KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	3/30/2014
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)	4.5
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)	1.5
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