

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RWF 43-25

Nabors 577

Post Job Summary

Cement Surface Casing

Date Prepared: 05/31/2014
Job Date: 05/26/2014

Submitted by: Aaron Katz – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123572	Quote #:	Sales Order #: 0901373658
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Vearl Tucker	
Well Name: SAVAGE	Well #: RWF 43-25	API/UWI #: 05-045-21992-00	
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SW SE-25-6S-94W-1192FSL-1382FEL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 577	
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	1166ft 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	1166		0
Casing		9.625	9.001	32.3	8 RD	H-40	0	1166	0	0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe				1166	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 ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	20	bbl	8.34			3.0		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	Lead Cement	VARICEM (TM) CEMENT	140	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	165	sack	12.8	2.11		8.0	11.75

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	Displacement	Displacement	88.2	bbl	8.34			10.0	

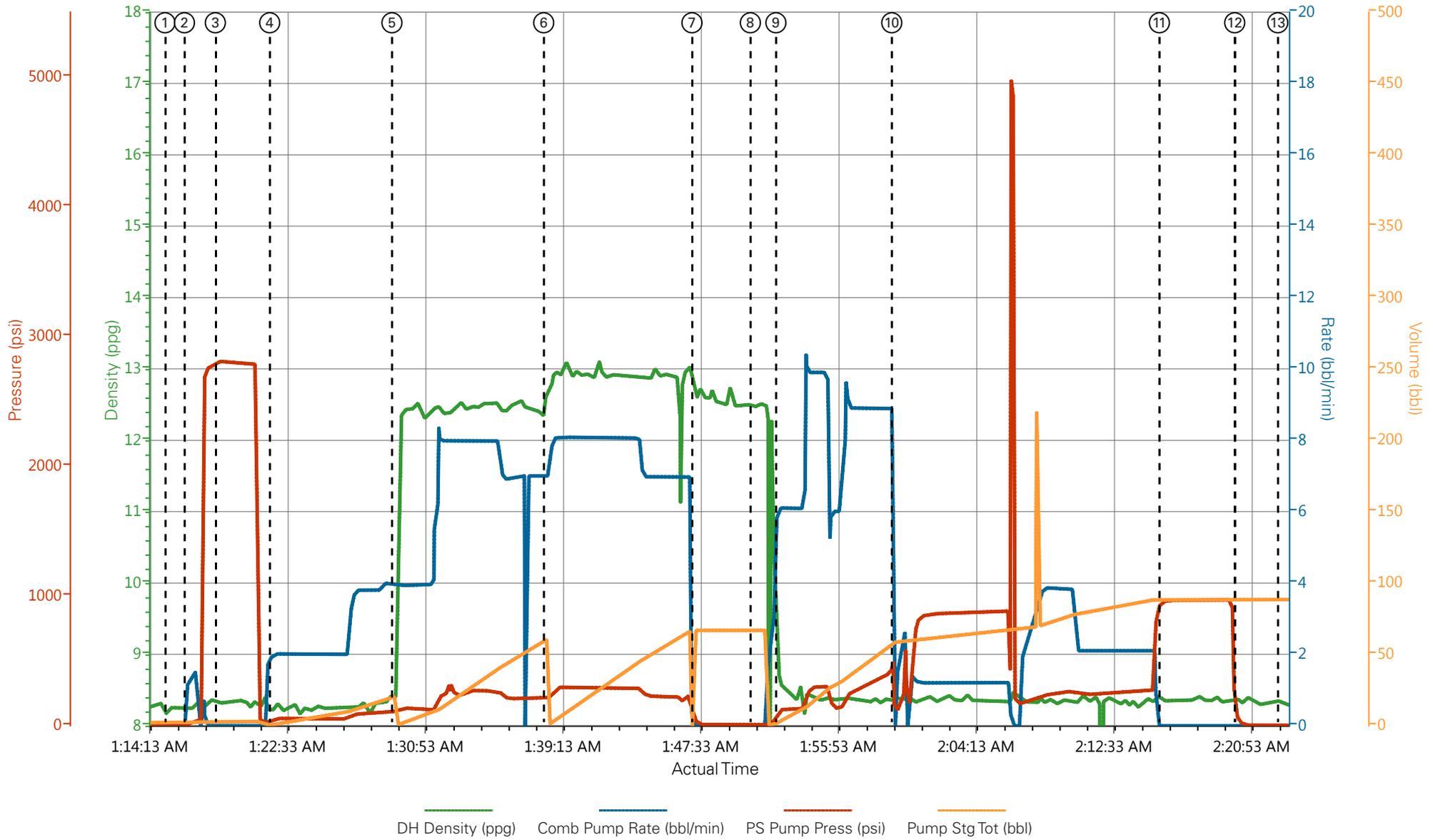
Cement Left In Pipe	Amount	45 ft	Reason	Shoe Joint
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Comment

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	5/26/2014	01:15:19	COM5					O/L 5/25 2230 - TP 1166', SJ 45', Mud 9.2 ppg, 13 1/2" OH, 9 5/8" 32.3# csg
Event	2	Prime Lines	5/26/2014	01:16:29	USER	8.32	2.0	37	2.0	
Event	3	Test Lines	5/26/2014	01:18:21	COM5			2808		Pressure held well
Event	4	Pump H2O Spacer	5/26/2014	01:21:39	COM5	8.34	3.0	60	20.0	Fresh Water
Event	5	Pump Lead Cement	5/26/2014	01:29:02	COM5	12.3	8.0	260	59.3	140 sks, 12.3 ppg, 2.38 yield, 13.77 gal/sk
Event	6	Pump Tail Cement	5/26/2014	01:38:13	COM5	12.8	8.0	282	62.0	165 sks, 12.8 ppg, 2.11 yield, 11.75 gal/sk
Event	7	Shutdown/Wash Up	5/26/2014	01:47:12	USER					Wash up on top of plug
Event	8	Drop Top Plug	5/26/2014	01:50:44	USER					
Event	9	Pump Displacement	5/26/2014	01:52:16	COM5	8.36	10	304	88.2	Fresh Water
Event	10	Slow Rate	5/26/2014	01:59:17	USER	8.40	2.0	241	10.0	Valve closed inadvertently during displacement, causing pressure spike
Event	11	Bump Plug	5/26/2014	02:15:29	USER			280		22 bbls cement to surface
Event	12	Check Floats	5/26/2014	02:20:02	USER			967		Floats held - 1/2 bbl flowback
Event	13	End Job	5/26/2014	02:22:39	USER					40 lbs sugar used

WPX - RWF 43-25 - 9 5/8" SURFACE



- ① Start Job 8.27;0;10;2.1
- ② Prime Lines 8.22;1.3;13;2.2
- ③ Test Lines 8.28;0;2808;3
- ④ Pump H2O Spacer 8.22;1.9;48;0.8
- ⑤ Pump Lead Cement 8.38;4;109;0.1
- ⑥ Pump Tail Cement 12.75;7;208;0.1
- ⑦ Shutdown/Wash Up 12.67;0;41;66.8
- ⑧ Drop Top Plug 12.48;0;5;66.8
- ⑨ Pump Displacement 8.56;6.1;117;2.7
- ⑩ Slow Rate 8.42;0;125;58.6
- ⑪ Bump Plug 8.34;0;954;88.4
- ⑫ Check Floats 8.36;0;49;88.4
- ⑬ End Job 8.33;0;2;88.4

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Created: 2014-05-25 23:13:57, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 5/26/2014 12:22:01 AM

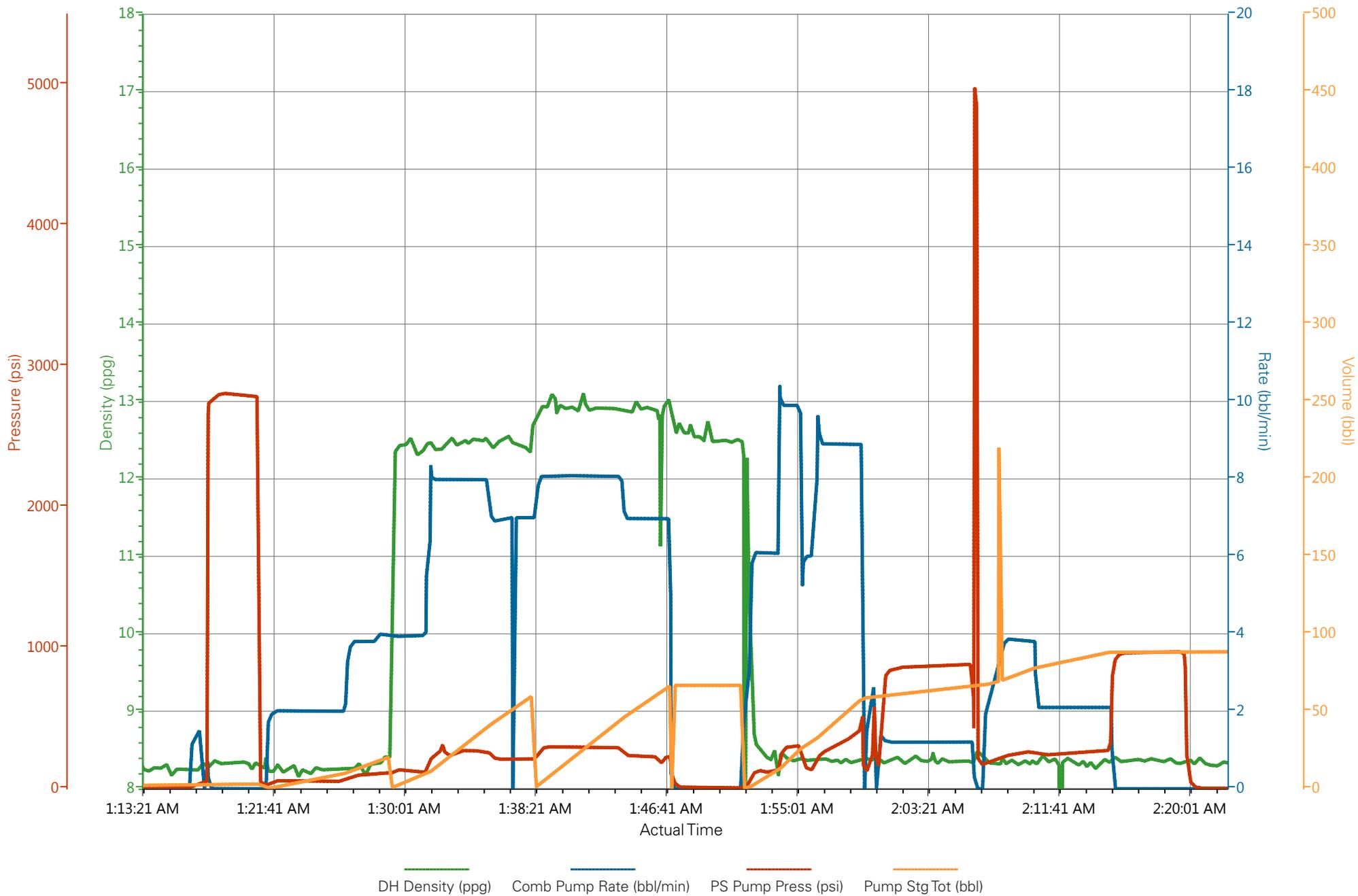
Well: RWF 43-25

Representative: Vearl Tucker

Sales Order #: 901373658

Elite #6: Ed Deussen / Robert McIntosh

WPX - RWF 43-25 - 9 5/8" SURFACE



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

HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: ED DEUSSEN
Attention: J.TROUT
Lease: RWF
Well #: 43-25

Date: 5/25/2014
Date Rec.: 5/25/2014
S.O.#: 901373658
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>	55 Deg
Total Dissolved Solids		130 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 #: 0901373658	Line Item: 10	Survey Conducted Date: 5/26/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-21992-00
Well Name: SAVAGE		Well Number: 0080125647
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	5/26/2014
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	5/26/2014
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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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	95
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	90
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