

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RWF 434-25

Nabors 577

Post Job Summary

Cement Surface Casing

Date Prepared: 09/29/2014
Job Date: 09/28/2014

Submitted by: Aaron Katz – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123580	Quote #:	Sales Order #: 0901703162
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Luke Hubbard	
Well Name: SAVAGE		Well #: RWF 434-25	API/UWI #: 05-045-22000-00
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SW SE-25-6S-94W-1117FSL-1381FEL			
Contractor:		Rig/Platform Name/Num: Nabors 577	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HX23209		Srvc Supervisor: Edward Deussen	

Job

Formation Name	
Formation Depth (MD)	Top
Form Type	BHST
Job depth MD	1136 ft
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	0	9.625	9.001	32.3	8 RD	J-55	0	1136		
Open Hole Section			13.5				0	1136		

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe					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	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	VariCem GJ1	VARICEM (TM) CEMENT	145	sack	12.3	2.38		8.0	13.77	

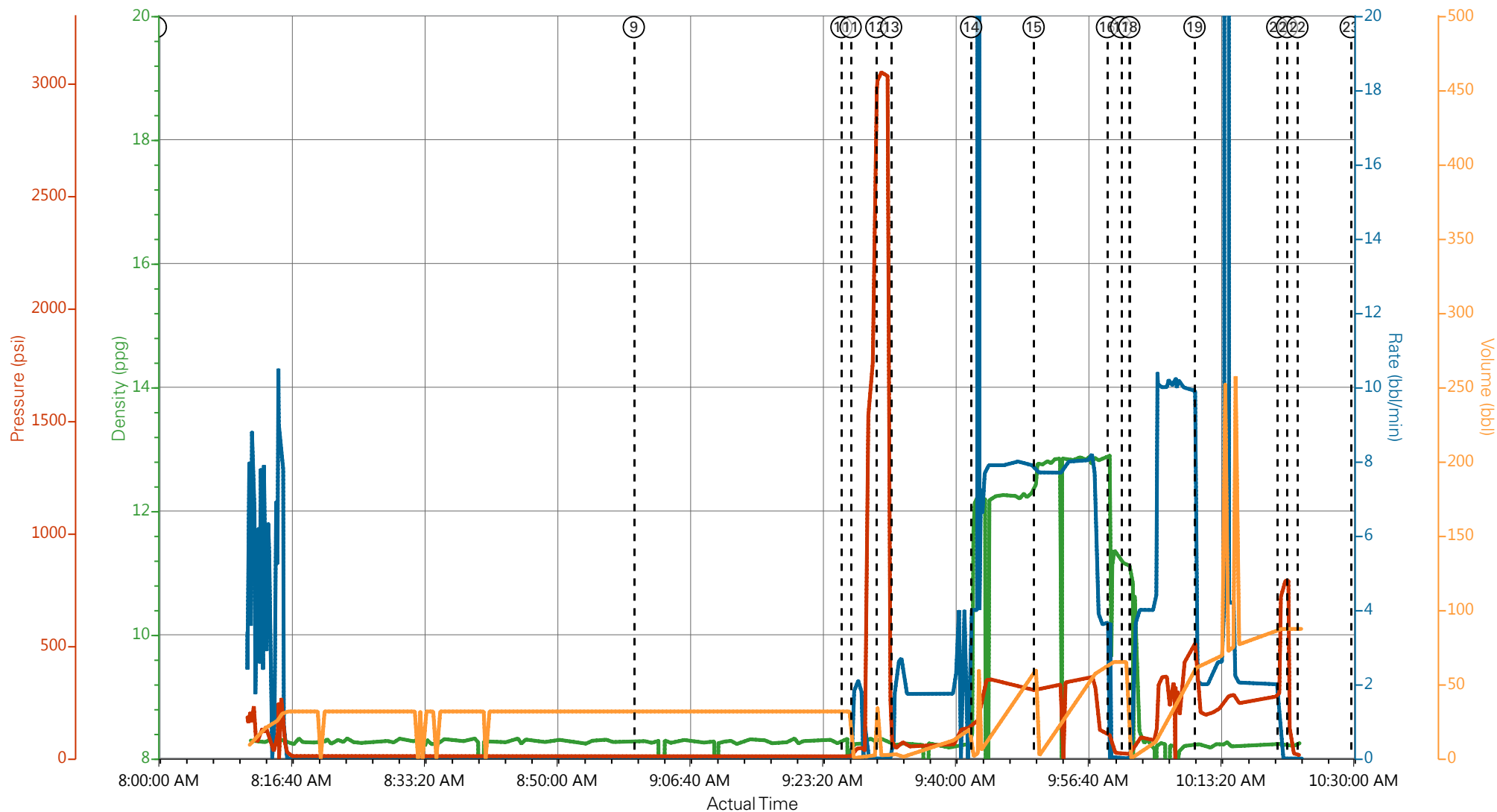
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	VariCem GJ1	VARICEM (TM) CEMENT	165	sack	12.8	2.11		8.0	11.77
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	85.0	bbl	8.34			10.0	
Cement Left In Pipe		Amount	46 ft		Reason		Shoe Joint		
Comment									

3.1 Job Event Log

Type	Seq No.	Graph Label	Date	Time	Source	Pass-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Comment
Event	1	Call Out	9/27/2014	19:00:00	USER					Crew already in field
Event	2	Pre-Convoy Safety Meeting	9/27/2014	21:45:00	USER					O/L time 00:00
Event	3	Crew Leave Yard	9/27/2014	22:00:00	USER					1 Elite, 1 660, 1 pickup
Event	4	Arrive At Loc	9/27/2014	23:30:00	USER					Rig still pulling drill pipe
Event	5	Assessment Of Location Safety Meeting	9/27/2014	23:45:00	USER					JSA performed
Event	6	Pre-Rig Up Safety Meeting	9/28/2014	06:45:00	USER					
Event	7	Rig-Up Equipment	9/28/2014	07:00:00	USER					1 Hard line to standpipe, water hose to upright, bulk hose to 660
Event	8	Rig-Up Completed	9/28/2014	08:00:00	USER					
Event	9	Pre-Job Safety Meeting	9/28/2014	09:00:00	USER					Mud 9.8 ppg
Event	10	Start Job	9/28/2014	09:26:04	USER					TD 1136', TP 1126', SJ 46', 13 1/2" OH, 32# 9 5/8" CSG
Event	11	Prime Lines	9/28/2014	09:27:13	USER	57	8.33	2.0	2.0	Fresh Water
Event	12	Test Lines	9/28/2014	09:30:27	COM5	3056				Pressure held well
Event	13	Pump H2O Spacer	9/28/2014	09:32:17	COM5	121	8.33	4.0	20.0	Fresh Water
Event	14	Pump Lead Cement	9/28/2014	09:42:20	COM5	355	12.3	8.0	61.5	145 sks, 12.3 ppg, 2.38 yield, 13.77 gal/sk
Event	15	Pump Tail Cement	9/28/2014	09:50:11	COM5	353	12.8	8.0	62.0	165 sks, 12.8 ppg, 2.11 yield, 11.77 gal/sk
Event	16	Shutdown	9/28/2014	09:59:24	USER					Wash up on top of plug
Event	17	Drop Top Plug	9/28/2014	10:01:10	USER					
Event	18	Pump Displacement	9/28/2014	10:02:11	COM5	494	8.33	10.0	85.0	Fresh Water
Event	19	Slow Rate	9/28/2014	10:10:23	USER	257	8.33	2.0	10.0	Good returns throughout job
Event	20	Bump Plug	9/28/2014	10:20:46	COM5	281				15 bbls cement to surface

Event	21	Check Floats	9/28/2014	10:22:00	COM5	797	Floats held – ½ bbl flowback
Event	22	End Job	9/28/2014	10:23:18	COM5		60 lbs sugar – 3 add hours
Event	23	Pre-Rig Down Safety Meeting	9/28/2014	10:30:00	USER		
Event	24	Rig-Down Equipment	9/28/2014	10:45:00	USER		
Event	25	Rig-Down Completed	9/28/2014	11:30:00	USER		
Event	26	Pre-Convoy Safety Meeting	9/28/2014	11:45:00	USER		
Event	27	Crew Leave Location	9/28/2014	12:00:00	USER		Thank you for using Halliburton

WPX - RWF 434-25 - 9 5/8" SURFACE



- | | | | | |
|---|---|--|-------------------------------|--------------------------|
| ① Call Out n/a;n/a;n/a;n/a | ④ Arrive At Loc n/a;n/a;n/a;n/a | ⑦ Rig-Up Equipment n/a;n/a;n/a;n/a | ⑩ Start Job 8.3;0;10;31.7 | ⑬ Pump H2O Spacer 8.22; |
| ② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a | ⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a | ⑧ Rig-Up Completed n/a;n/a;n/a;n/a | ⑪ Prime Lines 8.25;1.7;21;0.3 | ⑭ Pump Lead Cement 12.7; |
| ③ Crew Leave Yard n/a;n/a;n/a;n/a | ⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a | ⑨ Pre-Job Safety Meeting 8.3;0;11;31.7 | ⑫ Test Lines 8.3;0;3056;2.2 | ⑮ Pump Tail Cement 12.7; |

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Created: 2014-09-27 23:24:38, Version: 4.0.248

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 9/28/2014 8:11:01 AM

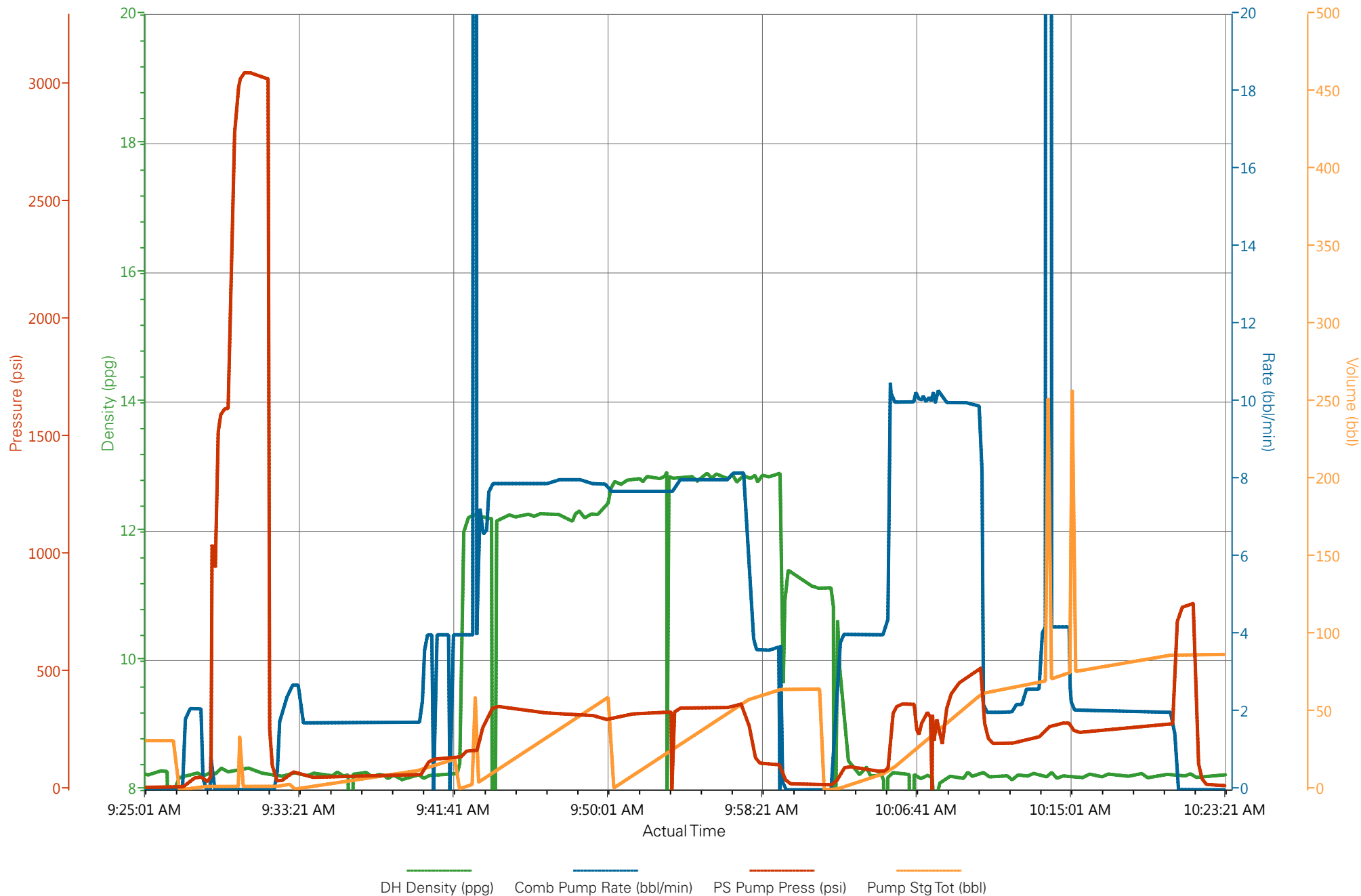
Well: RWF 434-25

Representative: Luke Hubbardr

Sales Order #: 901703162

Elite #3: Ed Deussen / Brent Banks

WPX - RWF 434-25 - 9 5/8" SURFACE



HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: ED DEUSSEN

Attention: J.TROUT

Lease RWF

Well # 434-25

Date: 9/27/2014

Date Rec.: 9/27/2014

S.O.# 901703162

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	6.5
Potassium (K)	<i>5000</i>	400 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>	53 Deg
Total Dissolved Solids		180 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 #: 0901703162	Line Item: 10	Survey Conducted Date: 9/28/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: LUKE HUBBARD		API / UWI: (leave blank if unknown) 05-045-22000-00
Well Name: SAVAGE		Well Number: 0080125655
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	9/28/2014
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	LUKE HUBBARD
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 The date the survey was conducted	9/28/2014

Cementing KPI Survey	
Type of Job Select the type of job. (Cementing or Non-Cementing)	0
Select the Maximum Deviation range for this Job What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	4
HSE Incident, Accident, Injury HSE Incident, Accident, Injury. This should be recordable incidents only.	No
Was the job purpose achieved? Was the job delivered correctly as per customer agreed design?	Yes
Pumping Hours Total number of hours pumping fluid on this job. Enter in decimal format.	2
Type of Rig Classification Job Was Performed Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
Number Of JSAs Performed Number Of Jsas Performed	5
Was this a Primary Cement Job (Yes / No) Primary Cement Job= Casing job, Liner job, or Tie-back job.	Yes
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Customer Non-Productive Rig Time (hrs)	0

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H2S Present: No	Well State: COLORADO	Well County: GARFIELD

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.	
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
If a top plug was run, was the plug bumped? (Yes/No/N/A) If a top plug was run, was the plug bumped? (Yes/No/N/A)	Yes
If applicable, was Halliburton float equipment used? (Yes/No/N/A) If applicable, was Halliburton float equipment used? (Yes/No/N/A)	N/A
If applicable, did the floats hold? (Yes/No/N/A) If applicable, did the floats hold? (Yes/No/N/A)	Yes
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
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
If applicable, were there returns throughout the job? (Yes/No/N/A) If applicable, were there returns throughout the job? (Yes/No/N/A)	YES
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