

WPX Rocky Mountain LLC-EBUS

RWF 44-25

Nabors 577

Post Job Summary **Cement Surface Casing**

Date Prepared: 07/25/2014
Job Date: 07/16/2014

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123583	Quote #:	Sales Order #: 0901507590
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: VEARL TUCKER	
Well Name: SAVAGE	Well #: RWF 44-25	API/UWI #: 05-045-22003-00	
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SW SE-25-6S-94W-1155FSL-1381FEL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 577	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: Kyle Bath	
Job			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1135ft 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	1135		0
Open Hole Section			13.5				0	1143		0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1		1135		Top Plug	9.625	1	HES
Float Shoe	9.625	1				Bottom Plug	9.625	1	HES
Float Collar	9.625	1				SSR plug set	9.625	1	HES
Insert Float	9.625	1				Plug Container	9.625	1	HES
Stage Tool	9.625	1				Centralizers	9.625	1	HES

Miscellaneous Materials										
Gelling Agt		Conc		Surfactant		Conc		Acid Type		Qty
Treatment Fld		Conc		Inhibitor		Conc		Sand Type		Size

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	20	bbl	8.34				

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	140	sack	12.3	2.38		8	13.77

13.72 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	VariCem GJ1	VARICEM (TM) CEMENT	165	sack	12.8	2.11		8	11.77
11.77 Gal		FRESH WATER							
94 lbm		TYPE I / II CEMENT, BULK (101439798)							
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
4	Displacement	Displacement	85	bbl	8.3				
Cement Left In Pipe		Amount	47 ft		Reason		Shoe Joint		
Comment									

Summary Report



Crew: _____

Job Start Date: 7/16/2014

Sales Order #: 0901507590
WO #: 0901507590
PO/AFE #: NA

Customer:	WPX ENERGY ROCKY MOUNTAIN Field:	RULISON	Job Type:	CMT SURFACE
	LLC-EBUS			CASING BOM
UWI / API Number:	05-045-22003-00	County/Parish:	Service Supervisor:	Kyle Bath
Well Name:	SAVAGE	State:		
Well No:	RWF 44-25	Latitude:	Cust Rep Name:	VEARL TUCKER
		Longitude:	Cust Rep Phone #:	
		Sect / Twn / Rng:		

Remarks:

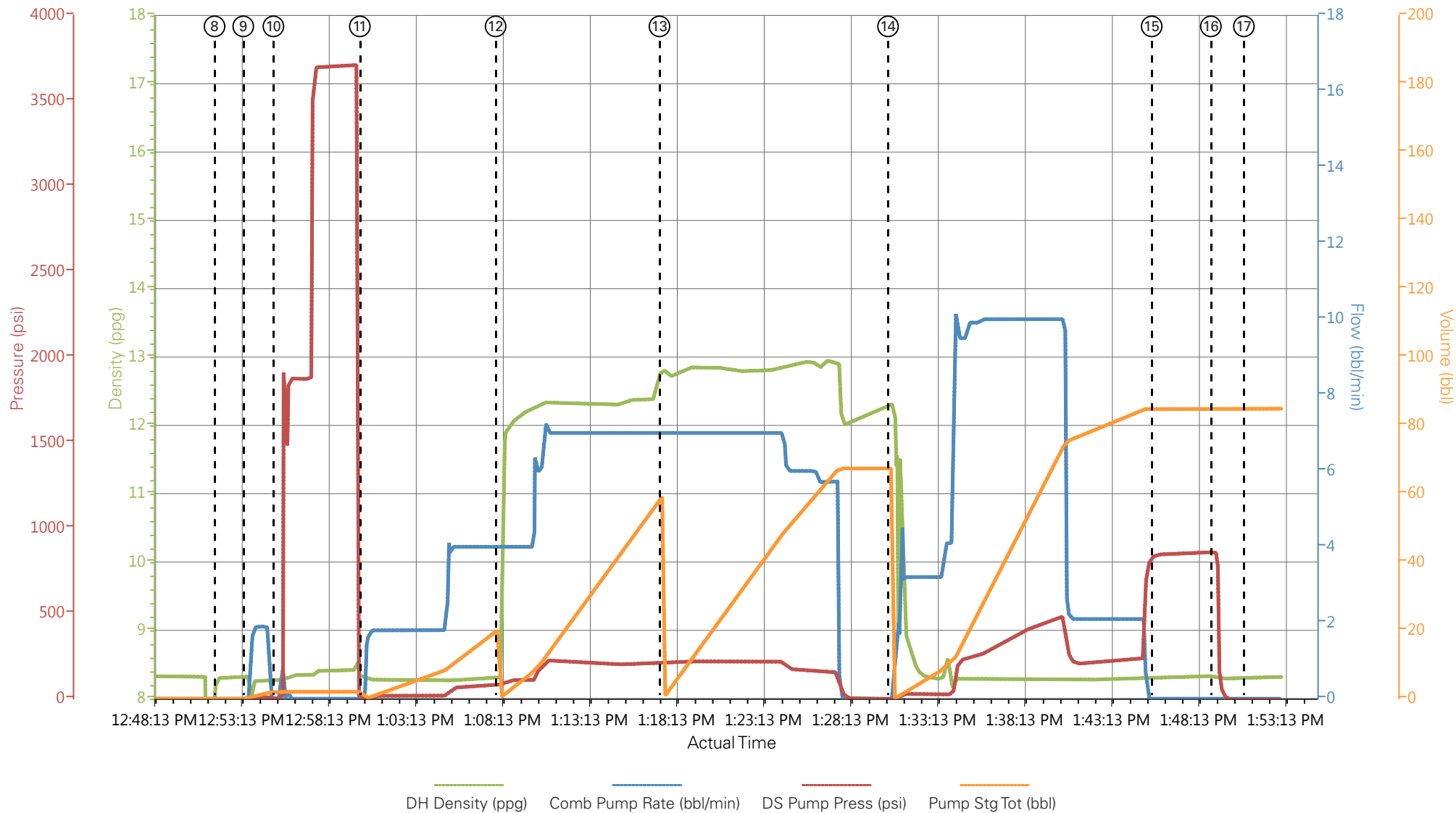
The Information Stated Herein Is Correct	Customer Representative Signature	Date
	Customer Representative Printed Name	

3.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1		Call Out	7/16/2014	05:00:00	USER					
Event	2		Pre Convoy Safety Meeting	7/16/2014	07:30:00	USER					
Event	3		Depart Yard For Location	7/16/2014	07:45:00	USER					
Event	4		Arrive On Location	7/16/2014	09:45:00	USER					RIG RUNNING CASING UPON HES ARRIVAL
Event	5		Site Assesment Safety Meeting	7/16/2014	10:00:00	USER					
Event	6		Pre Rig Up Safety Meeting	7/16/2014	10:20:00	USER					
Event	7		Pre job Safety Meeting	7/16/2014	12:30:00	USER					
Event	8		Start Job	7/16/2014	12:51:50	COM3					TP1135, SJ 47, CSG 9 5/8 32.3 H-40
Event	9		Prime Pumps	7/16/2014	12:53:29	COM3	8.33	2	2	2	2 BBLS FRESH WATER
Event	10		Test Lines	7/16/2014	12:55:13	COM3			3694		TEST LINES TO 3694 PSI
Event	11		Pump Water Spacer	7/16/2014	13:00:11	COM3	8.33	4	82	20	PUMP 20 BBL FRESH WATER SPACER
Event	12		Pump Lead Cement	7/16/2014	13:07:59	COM3	12.3	7	230	59	MIX AND PUMP 140 SKS AT 12.3 PPG, 2.23 FT3/FT, 13.77 GAL/SK
Event	13		Pump Tail Cement	7/16/2014	13:17:24	COM3	12.8	7	210	62	MIX AND PUMP 165 SKS AT 12.8 PPG, 2.11 FT3/FT, 11.77 GAL/SK
Event	14		Pump Displacement	7/16/2014	13:30:32	COM3	8.33	10	450	85	PUMP 85 BBLS FRESH WATER DISPLACEMENT
Event	15		Bump Plug	7/16/2014	13:45:41	COM3					BUMP AT 247 PSI TAKE TO 857 PSI
Event	16		Check Floats	7/16/2014	13:49:05	COM3					TOOK .5 BBL BACK TO TRUCK
Event	17		End Job	7/16/2014	13:50:59	COM3					GOOD CIRCULATION THROUGHOUT JOB, 30 BBLS CMT TO SURFACE

Event	18	Pre Rig Down Safety Meeting	7/16/2014	14:20:00	USER	
Event	19	Pre Convoy Safety Meeting	7/16/2014	15:00:00	USER	
Event	20	Depart Location	7/16/2014	15:15:00	USER	THANK YOU FOR USING HALLIBURTON, KYLE BATH AND CREW!

WPX ~ RWF 44-25 ~ SURFACE CASING



① Call Out n/a;n/a;n/a;n/a	⑥ Pre Rig Up Safety Meeting n/a;n/a;n/a;n/a	⑪ Pump Water Spacer 8.31;0;0;0	⑯ Check Floats 8.33;0;858;84.9
② Pre Convoy Safety Meeting n/a;n/a;n/a;n/a	⑦ Pre job Safety Meeting 8.34;0;-6;0	⑫ Pump Lead Cement 8.29;4;82;20.4	⑰ End Job 8.31;0;-6;84.9
③ Depart Yard For Location n/a;n/a;n/a;n/a	⑧ Start Job 8.3;0;-11;0	⑬ Pump Tail Cement 12.83;7;210;59.4	⑱ Pre Rig Down Safety Meeting n/a;n/a;n/a;n/a
④ Arrive On Location n/a;n/a;n/a;n/a	⑨ Prime Pumps 8.33;0;-10;0	⑭ Pump Displacement 12.31;0;-3;0	⑲ Pre Convoy Safety Meeting n/a;n/a;n/a;n/a
⑤ Site Assesment Safety Meeting n/a;n/a;n/a;n/a	⑩ Test Lines 8.28;0;-2;1.9	⑮ Bump Plug 8.31;0;840;84.9	⑳ Depart Location n/a;n/a;n/a;n/a

▼ **HALLIBURTON** | iCem® Service

Created: 2014-07-16 10:36:09, Version: 3.0.148

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 7/16/2014 12:01:04 PM

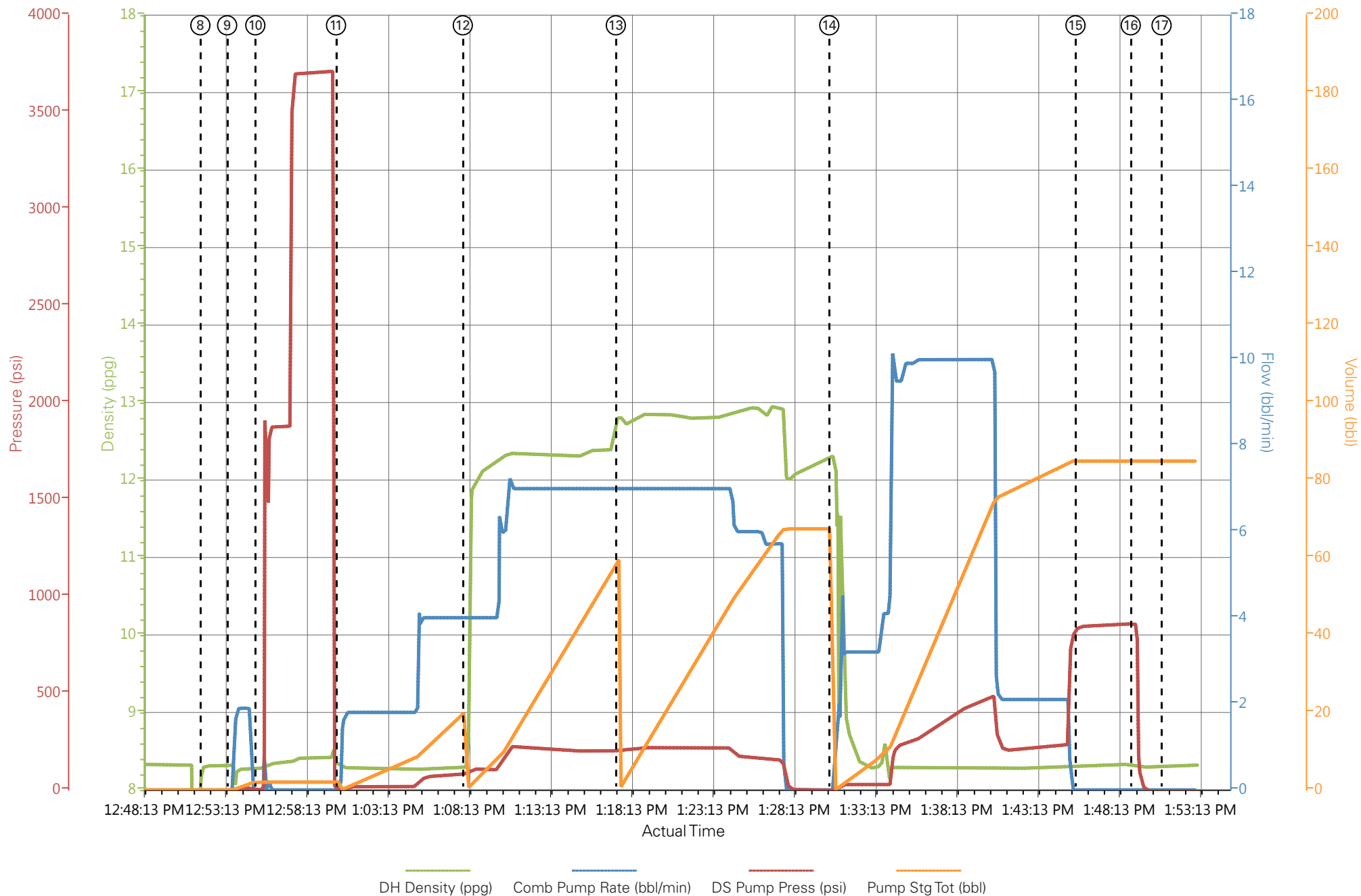
Well: RWF 44-25

Representative: VEARL TUCKER

Sales Order #: 901507590

Supervisor/Operator: Kyle Bath/Dan Sinclair E7

WPX ~ RWF 44-25 ~ SURFACE CASING



HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: KYLE BATH

Attention: DALLAS SCOTT

Lease RWF

Well # 44-25

Date: 7/16/2014

Date Rec.: 7/16/2014

S.O.# 901495613

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	220 Mg / L
Hrdness	<i>500</i>	0 Mg / L
Iron (FE2)	<i>300</i>	200 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Temp	<i>40-80</i>	70 Deg
Total Dissolved Solids		380 Mg / L

Respectfully: KYLE BATH

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 #: 0901507590	Line Item: 10	Survey Conducted Date: 7/16/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22003-00
Well Name: SAVAGE		Well Number: 0080125658
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	7/16/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB49384
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

Sales Order #: 0901507590	Line Item: 10	Survey Conducted Date: 7/16/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22003-00
Well Name: SAVAGE		Well Number: 0080125658
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	7/16/2014

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.	3
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.	1
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

Sales Order #: 0901507590	Line Item: 10	Survey Conducted Date: 7/16/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22003-00
Well Name: SAVAGE		Well Number: 0080125658
Well Type: DIRECTIONAL GAS	Well Country: USA	
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)	NA
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	98
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	98
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