

WPX Rocky Mountain LLC - EBUS

RWF 534-25

Nabors 577

Post Job Summary

Cement Surface Casing

Date Prepared: 09/23/2014

Job Date: 09/18/2014

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123574	Quote #:	Sales Order #: 0901675449
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: LUKE HUBBARD	
Well Name: SAVAGE		Well #: RWF 534-25	API/UWI #: 05-045-21994-00
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SW SE-25-6S-94W-1117FSL-1391FEL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 577	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: Dustin Smith	
Job			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1130ft Job Depth TVD
Water Depth	Wk Ht Above Floor 5 FT
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	NEW	9.625	9.001	32.3	8 RD		0	1130	0	0
Open Hole Section			13.5				0	1140	0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1		1130		Top Plug	9.625	1	HES
Float Shoe	9.625	1							
Float Collar	9.625	1		1084					
Insert Float	9.625	1				Plug Container	9.625	1	HES
Stage Tool	9.625	1				Centralizers	9.625		

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	8.33			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	135	sack	12.3	2.38		8.0	13.77

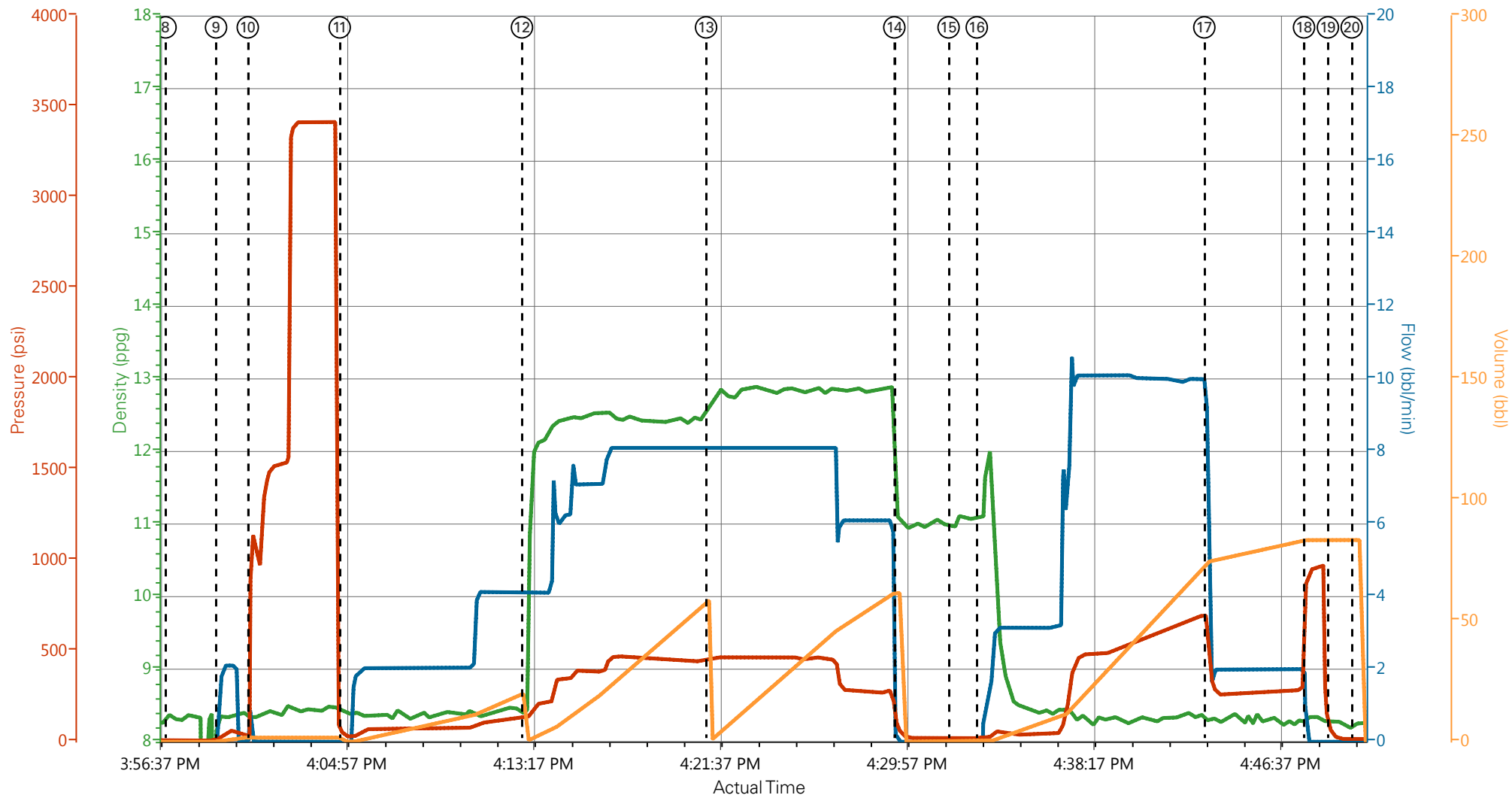
13.70 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VariCem GJ1	VARICEM (TM) CEMENT	165	sack	12.8	2.11		8.0	11.77
11.71 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	85.3	bbl	8.34			10.0	
Cement Left In Pipe		Amount	46 ft		Reason		Shoe Joint		
Comment									

3.5 Job Event Log

Type	Seq. No.	Activity	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stage Total (bbl)	Comment
Event	1	Call Out	9/18/2014	09:30:00	USER					ELITE # 2
Event	2	Pre-Convoy Safety Meeting	9/18/2014	11:00:00	USER					ALL HES EMPLOYEES
Event	3	Arrive At Loc	9/18/2014	13:00:00	USER					
Event	4	Assessment Of Location Safety Meeting	9/18/2014	14:00:00	USER					ALL HES EMPLOYEES
Event	5	Pre-Rig Up Safety Meeting	9/18/2014	14:05:00	USER					ALL HES EMPLOYEES
Event	6	Rig-Up Equipment	9/18/2014	14:15:00	USER					1 HT-400 PUMP TRUCK (ELITE #2) 1 660 BULK TRUCK 1 F-550 PICKUP
Event	7	Pre-Job Safety Meeting	9/18/2014	15:30:00	USER					ALL HES EMPLOYEES AND RIG CREW RIG CIRCULATED FOR 1 HOUR PRIOR TO THE JOB
Event	8	Start Job	9/18/2014	15:57:00	COM5					TD:1140 TP: 1130 SJ: 46 CSG: 9 5/8 32.2 # OH: 13 1/2" MUD WT: 10.5 PPG
Event	9	Prime Pumps	9/18/2014	15:59:15	COM5	8.33	2.0	60	2.0	PRIME LINES WITH 2 BBLs FRESH WATER
Event	10	Test Lines	9/18/2014	16:00:40	COM5	8.33	0.00	3417	2.0	PRESSURE TEST OK
Event	11	Pump Spacer 1	9/18/2014	16:04:46	COM5	8.33	4.0	129	20	PUMP 20 BBL FRESH WATER SPACER
Event	12	Pump Lead Cement	9/18/2014	16:12:54	COM5	12.3	8.0	470	57.2	135 SKS 12.3 PPG 2.38 YIELD 13.77 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES
Event	13	Pump Tail Cement	9/18/2014	16:21:07	COM5	12.8	8.0	460	62	165 SKS 12.8 PPG 2.11 YIELD 11.77 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES
Event	14	Shutdown	9/18/2014	16:29:31	COM5					
Event	15	Drop Top Plug	9/18/2014	16:31:56	COM5					PLUG AWAY NO PROBLEMS WASHED UP ON TOP OF THE PLUG AS PER THE COMPANY REP
Event	16	Pump Displacement	9/18/2014	16:33:12	COM5	8.33	10.0	698	85.3	FRESH WATER DISPLACEMENT
Event	17	Other	9/18/2014	16:43:21	COM5	8.33	2.0	285	75	SLOW RATE TO BUMP PLUG
Event	18	Bump Plug	9/18/2014	16:47:48	COM5	8.33	2.0	972	85.3	PSI BEFORE BUMPING PLUG @ 285 PSI BUMPED PLUG UP TO 972 PSI
Event	19	Other	9/18/2014	16:48:52	COM5					FLOATS HELD 1/2 BBL BACK TO DISPLACEMENT TANKS

Event	20	End Job	9/18/2014	16:49:55	COM5	GOOD RETURNS THROUGHOUT JOB RETURNED 25 BBLS OF CEMENT TO SURFACE PIPE STATIC DURING JOB RIG USED 80#S OF SUGAR
Event	21	Pre-Rig Down Safety Meeting	9/18/2014	16:55:00	USER	ALL HES EMPLOYEES
Event	22	Rig-Down Equipment	9/18/2014	17:15:00	USER	
Event	23	Pre-Convoy Safety Meeting	9/18/2014	18:20:00	USER	ALL HES EMPLOYEES
Event	24	Crew Leave Location	9/18/2014	18:30:00	USER	THANK YOU FOR USING HALLIBURTON CEMENT DUSTIN SMITH AND CREW

WPX - RWF 534-25 - 9 5/8 SURFACE



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

- | | | | | |
|-----------------------------------------|--------------------------|---------------------------|---------------------|--------------------------------|
| ① Call Out | ⑥ Rig-Up Equipment | ⑪ Pump Fresh Water Spacer | ⑮ Pump Displacement | 21 Pre-Rig Down Safety Meeting |
| ② Pre-Convoy Safety Meeting | ⑦ Pre-Job Safety Meeting | ⑫ Pump Lead Cement | ⑯ Slow Rate | 22 Rig-Down Equipment |
| ③ Arrive At Loc | ⑧ Start Job | ⑬ Pump Tail Cement | ⑰ Bump Plug | 23 Pre-Convoy Safety Meeting |
| ④ Assessment Of Location Safety Meeting | ⑨ Prime Lines | ⑭ Shutdown | ⑱ Check Floats | 24 Crew Leave Location |
| ⑤ Pre-Rig Up Safety Meeting | ⑩ Test Lines | ⑰ Drop Top Plug | ⑳ End Job | |

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Created: 2014-09-18 10:02:21, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 9/18/2014 3:09:31 PM

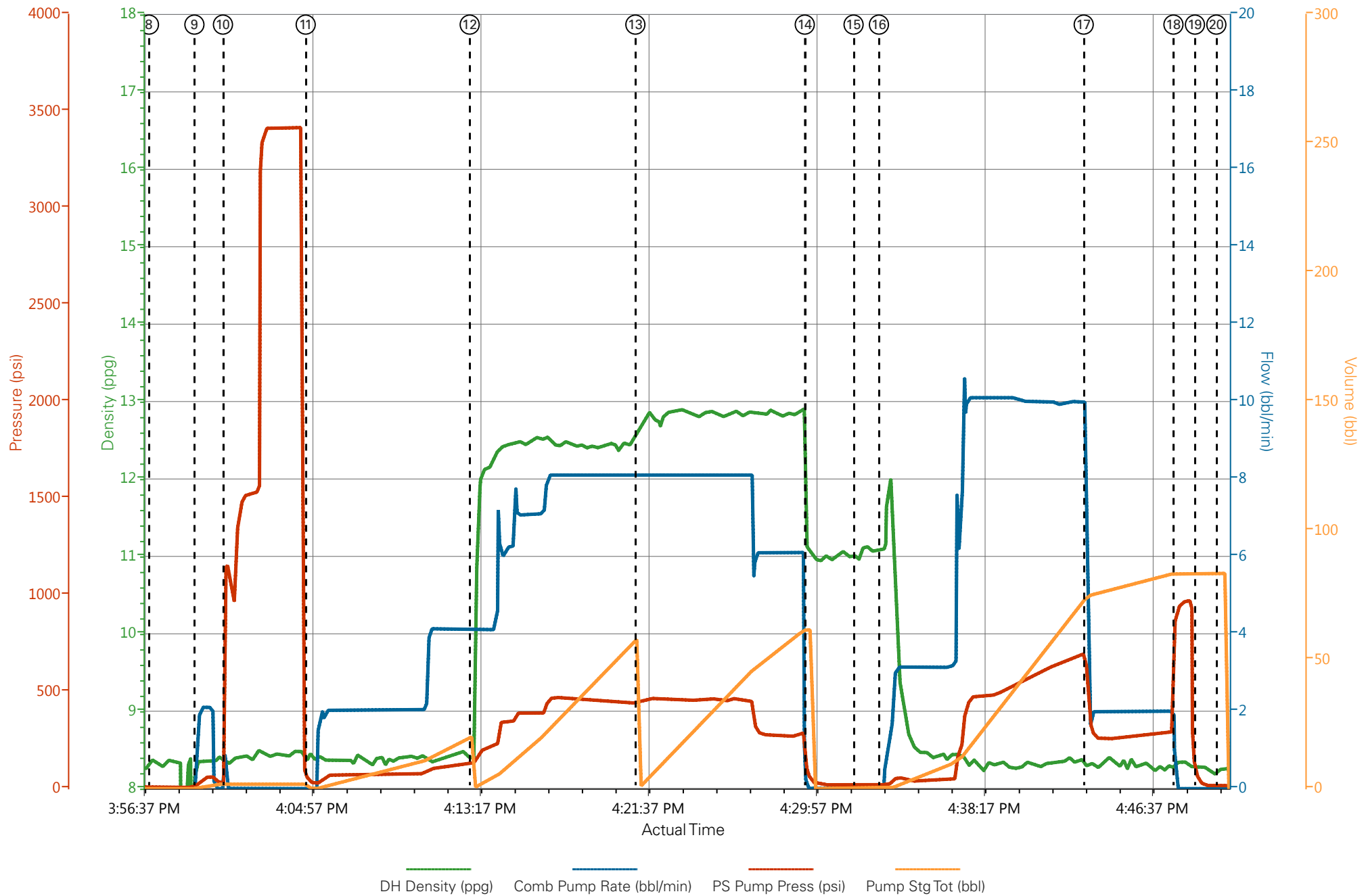
Well: RWF 534-25

Representative: LUKE HUBBARD

Sales Order #: 0901675449

ELITE # 2: DUSTIN SMITH / ROB EICKHOFF

WPX - RWF 534-25 - 9 5/8 SURFACE



HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: DUSTIN SMITH
Attention: _____
Lease: RWF
Well #: 534-25

Date: 9/18/2014
Date Rec.: 9/18/2014
S.O.#: 901675449
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	0 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>	UNDER 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-90</i>	74 Deg
Total Dissolved Solids		440 Mg / L

Respectfully: DUSTIN SMITH

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

Sales Order #: 0901675449	Line Item: 10	Survey Conducted Date: 9/18/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: LUKE HUBBARD		API / UWI: (leave blank if unknown) 05-045-21994-00
Well Name: SAVAGE		Well Number: 0080125649
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	9/18/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX37079
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	9/18/2014

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.	2.5
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	6
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, 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	90
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
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