

WPX Energy Rocky Mountain LLC- EBUS

RWF 344-25

Nabors 577

Post Job Summary

Cement Surface Casing

Date Prepared: 08/17/2014
Job Date: 08/17/2014

Submitted by: Kory Hugentobler – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123578	Quote #:	Sales Order #: 0901593336
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: VEARL TUCKER		
Well Name: SAVAGE	Well #: RWF 344-25	API/UWI #: 05-045-21998-00	
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SW SE-25-6S-94W-1147FSL-1381FEL			
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	1133ft 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	0	9.625	9.001	32.3	8 RD	J-55	0	1133	0	0
Open Hole Section			13.5				0	1143	0	0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		1133	Top Plug	9.625	1	HES
Float Shoe	9.625	1			Bottom Plug			
Float Collar	9.625	1		1086	SSR plug set			
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	

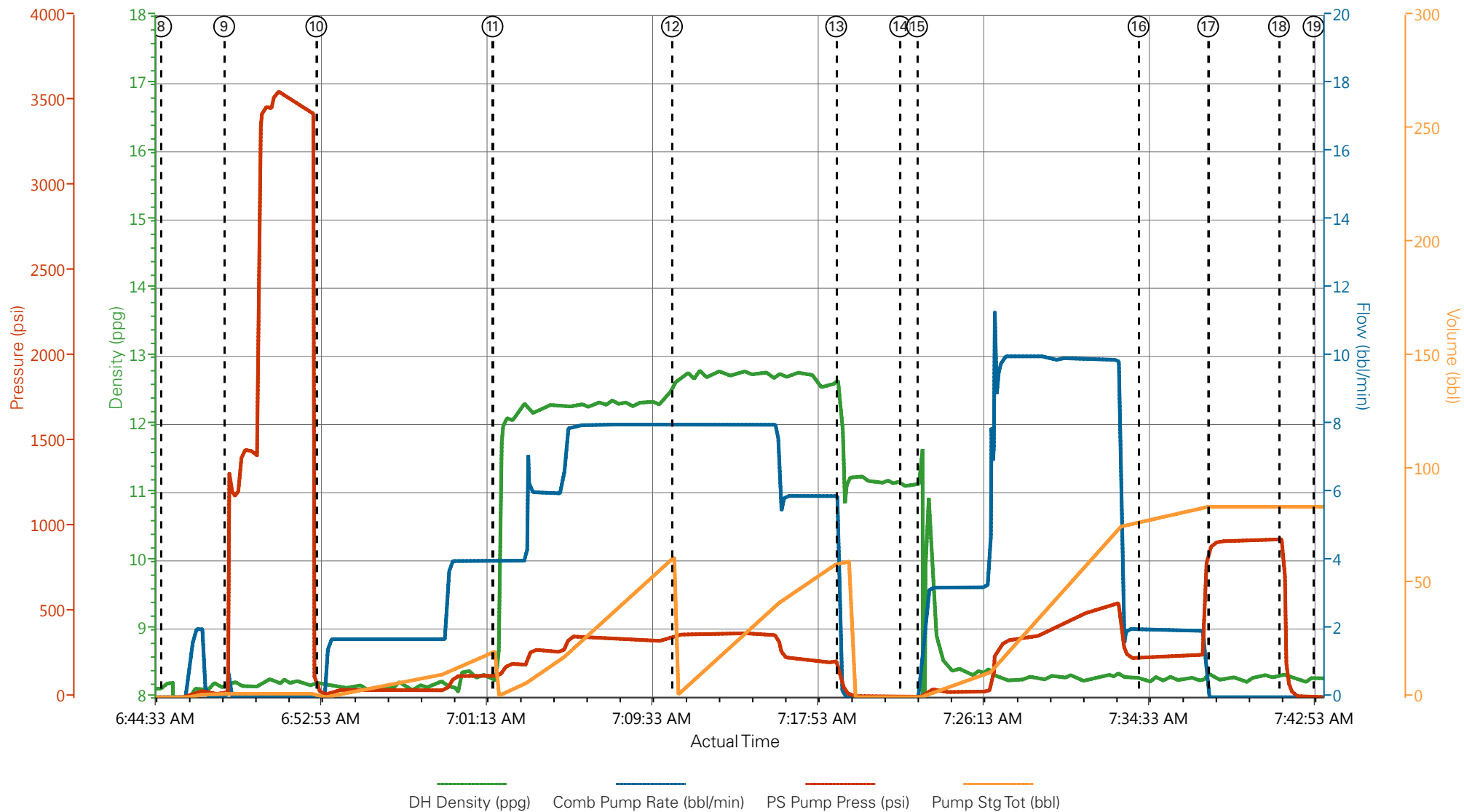
13.70 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VariCem GJ1	VARICEM (TM) CEMENT	165	sack	12.8	2.11		8.0	11.77
11.71 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	85.5	bbl	8.33			10.0	
Cement Left In Pipe		Amount	47 ft		Reason		Shoe Joint		
Comment									

3.5 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stage Total (bbl)	Comment
Event	1	Call Out	8/16/2014	21:00:00	USER					ELITE #2
Event	2	Pre-Convoy Safety Meeting	8/17/2014	00:30:00	USER					ALL HES EMPLOYEES
Event	3	Arrive At Loc	8/17/2014	02:00:00	USER					ARRIVED ON LOCATION 1 HOUR EARLY DIDNT START CHARGING TIME UNTIL REQUESTED ON LOCATION TIME RIG POOH W/ DP
Event	4	Assessment Of Location Safety Meeting	8/17/2014	05:00:00	USER					ALL HES EMPLOYEES
Event	5	Pre-Rig Up Safety Meeting	8/17/2014	05:30:00	USER					ALL HES EMPLOYEES
Event	6	Rig-Up Equipment	8/17/2014	05:45:00	USER					1 HT-400 PUMP TRUCK (ELITE #2) 1 660 BULK TRUCK 1 F-550 PICKUP
Event	7	Pre-Job Safety Meeting	8/17/2014	06:30:00	USER					ALL HES EMPLOYEES AND RIG CREW RIG CIRCULATED FOR 1 HOUR PRIOR TO THE JOB @ 14.5 BPM
Event	8	Start Job	8/17/2014	06:45:00	USER					TD: 1143 TP: 1133 SJ: 47 CSG: 9 5/8 32.3# J-55 OH: 13 1/2 MUD WT: 9.6 PPG
Event	9	Test Lines	8/17/2014	06:48:10	COM5	8.33	0.00	3558	2.0	PRESSURE TEST OK
Event	10	Pump Fresh Water Spacer	8/17/2014	06:52:48	COM5	8.33	4.0	127	20	PUMP 20 BBL FRESH WATER SPACER
Event	11	Pump Lead Cement	8/17/2014	07:01:40	COM5	12.3	8.0	361	57.2	135 SKS 12.3 PPG 2.38 YIELD 13.77 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGHOUT LEAD CEMENT
Event	12	Pump Tail Cement	8/17/2014	07:10:42	COM5	12.8	8.0	368	62	165 SKS 12.8 PPG 2.11 YIELD 11.77 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGHOUT TAIL CEMENT
Event	13	Shutdown	8/17/2014	07:18:58	COM5					
Event	14	Drop Top Plug	8/17/2014	07:22:11	COM5					PLUG AWAY NO PROBLEMS
Event	15	Pump Displacement	8/17/2014	07:23:02	COM5	8.33	10.0	553	85.5	FRESH WATER DISPLACEMENT
Event	16	Slow Rate	8/17/2014	07:34:11	COM5	8.33	2.0	260	75	SLOW RATE TO BUMP PLUG
Event	17	Bump Plug	8/17/2014	07:37:41	COM5	8.33	2.0	930	85.5	PSI BEFORE BUMPING PLUG @ 260 BUMPED UP TO 960 PSI
Event	18	Check Floats	8/17/2014	07:41:15	COM5					FLOATS HELD 1 BBL BACK TO DISPLACEMENT TANKS

Event	19	End Job	8/17/2014	07:43:00	COM5	GOOD RETURNS THROUGHOUT JOB RETURNED 10 BBLS OF CEMENT TO SURFACE
Event	20	Pre-Rig Down Safety Meeting	8/17/2014	08:00:00	USER	ALL HES EMPLOYEES
Event	21	Rig-Down Equipment	8/17/2014	08:30:00	USER	
Event	22	Pre-Convoy Safety Meeting	8/17/2014	09:20:00	USER	ALL HES EMPLOYEES
Event	23	Crew Leave Location	8/17/2014	09:30:00	USER	THANK YOU FOR USING HALLIBURTON CEMENT DUSTIN SMITH AND CREW

WPX - RWF 344-25 - 9 5/8 SURFACE



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

▼ **HALLIBURTON** | iCem® Service

Created: 2014-08-17 02:06:29, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 8/17/2014 6:01:10 AM

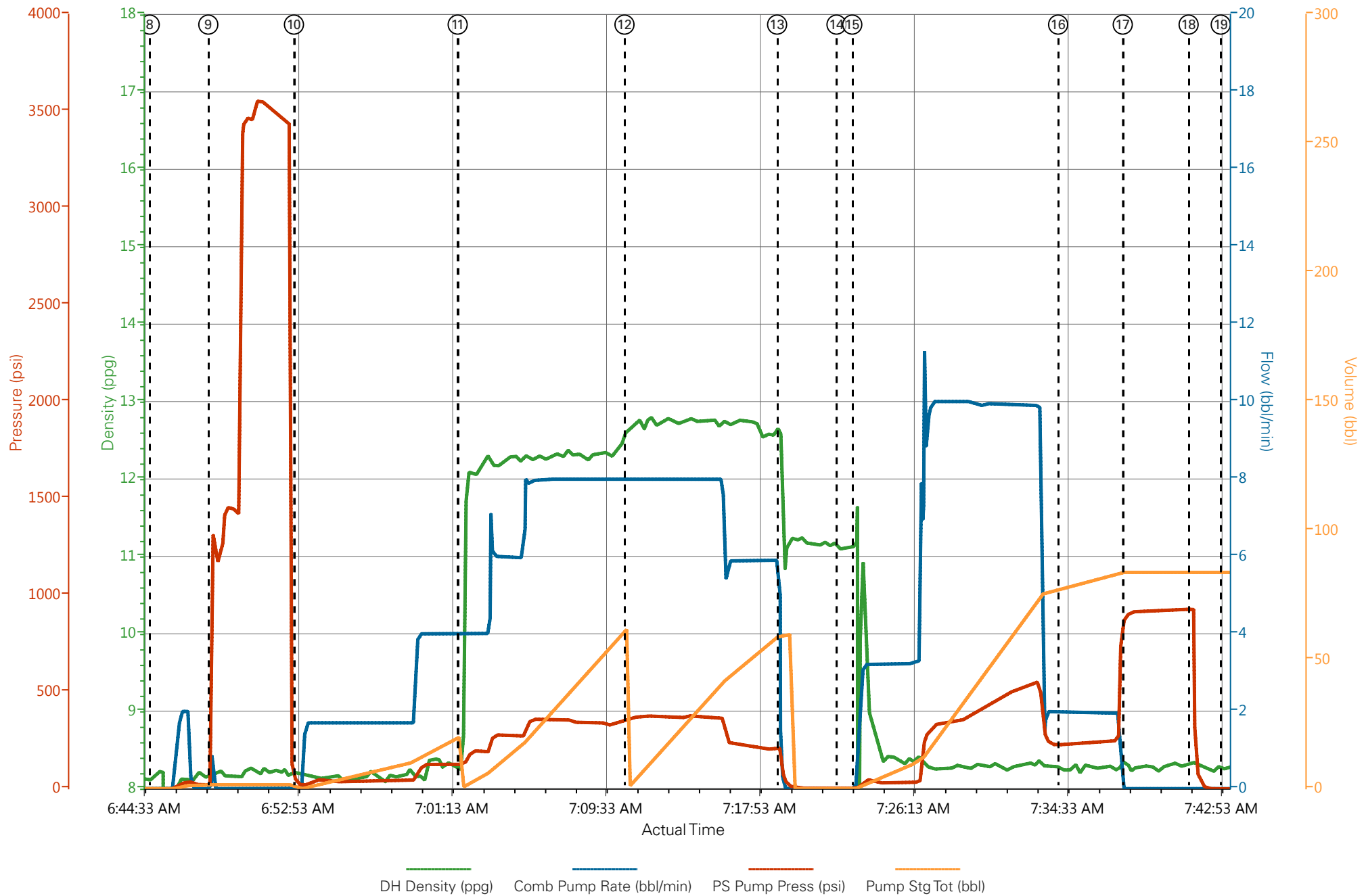
Well: RWF 344-25

Representative: VEARL TUCKER

Sales Order #: 0901593336

ELITE # 2: DUSTIN SMITH / ROB EICKHOFF

WPX - RWF 344-25 - 9 5/8 SURFACE



HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: DUSTIN SMITH

Attention:

Lease RWF

Well # 344-25

Date: 8/17/2014

Date Rec.: 8/17/2014

S.O.# 901593336

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
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>	UNDER 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-90</i>	70 Deg
Total Dissolved Solids		490 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 #: 0901593336	Line Item: 10	Survey Conducted Date: 8/17/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-21998-00
Well Name: SAVAGE		Well Number: 0080125653
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	8/17/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX37079
Customer Participation	Did the customer participate in this survey? (Y/N)	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	8/17/2014
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)	3
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?	
Pumping Hours	1
Total number of hours pumping fluid on this job. Enter in decimal format.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	6
Number Of Jsas Performed	
Was this a Primary Cement Job (Yes / No)	Yes
Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Customer Non-Productive Rig Time (hrs)	0

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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, 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