

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS
DO NOT MAIL - ACH-43241
TULSA, Oklahoma

RWF 312-25

CYCLONE 17

Post Job Summary

Cement Surface Casing

Date Prepared: 01/18/2014
Version: 1

Service Supervisor: ARNOLD, EDWARD

Submitted by: Grand Junction Cement Engineering

HALLIBURTON

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3276964	Quote #:	Sales Order #: 901016921
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep:		
Well Name: RWF	Well #: 312-25	API/UWI #:	
Field: RULISON	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Contractor: CYCLONE 17	Rig/Platform Name/Num: 17		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: MAYO, MARK	Srv Supervisor: ARNOLD, EDWARD	MBU ID Emp #:	439784

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ARNOLD, EDWARD John	8.5	439784	BROWN, TRAVIS A	8.5	396848	ROBINSON, JAMES Daniel	8.5	560123
WOLFE, JON P	8.5	485217						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10616651C	60 mile	10867304	60 mile	11259882	60 mile	11360871	60 mile
11808827	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
2014-01-05	8.5	3						

TOTAL	Total is the sum of each column separately							
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Job

Formation Name	Formation Depth (MD)	Top	Bottom	Job Type	Job depth MD	Water Depth	Perforation Depth (MD)	From	To
				BHST	1170. ft				
					Job Depth TVD				
					1170. ft				
					Wk Ht Above Floor				
					3. ft				
					Job Started				
					05 - Jan - 2014				
					Job Completed				
					05 - Jan - 2014				
					Deparated Loc				
					05 - Jan - 2014				

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
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Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9 5/8"	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8"	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/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
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Stage/Plug #: 1	Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
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Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water Spacer		20.00	bbl	.	.0	.0	4	
2	VariCem GJ! Lead Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75	7.5	13.75
13.75 Gal		FRESH WATER							
3	VariCem GJ1 Tail Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.8	2.11	11.75	7.5	11.75
11.75 Gal		FRESH WATER							
4	Fresh Water Displacement		86.00	bbl	.	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	86.8	Shut In: Instant		Lost Returns		Cement Slurry	127.9	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	18	Actual Displacement	86.8	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	234.7
Rates									
Circulating	RIG	Mixing	7.5	Displacement	10	Avg. Job	8		
Cement Left In Pipe	Amount	45.8FT	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

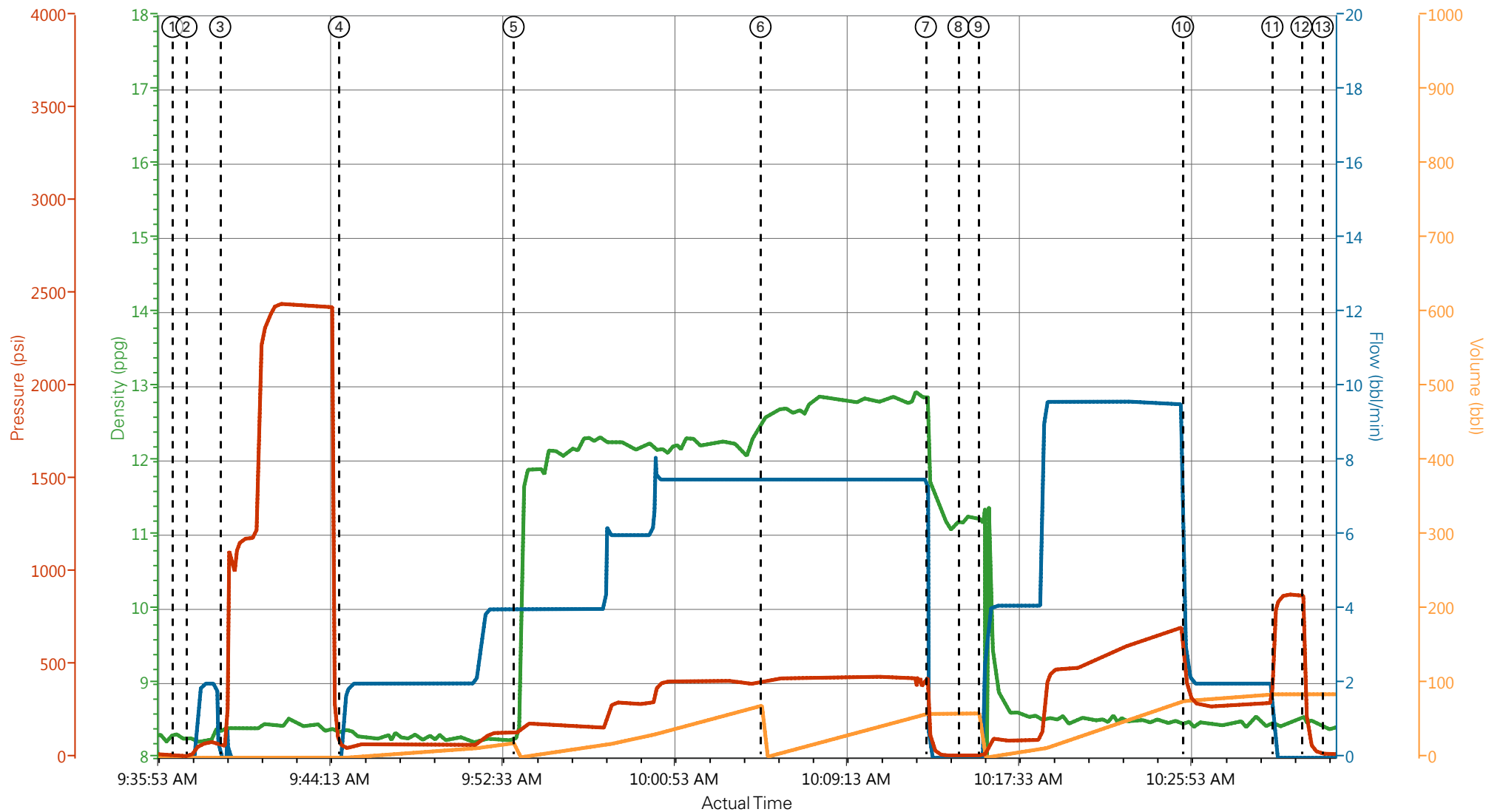
The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 3276964		Quote #:		Sales Order #: 901016921	
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Well Name: RWF			Well #: 312-25			API/UWI #:	
Field: RULISON		City (SAP): RIFLE		County/Parish: Garfield			State: Colorado
Legal Description:							
Lat:				Long:			
Contractor: CYCLONE 17			Rig/Platform Name/Num: 17				
Job Purpose: Cement Surface Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: MAYO, MARK			Srvc Supervisor: ARNOLD, EDWARD			MBU ID Emp #: 439784	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	01/04/2014 23:30							
Pre-Convoy Safety Meeting	01/05/2014 01:15							Including entire cement crew.
Crew Leave Yard	01/05/2014 01:30							
Arrive At Loc	01/05/2014 03:00							Rig pulling drill pipe.
Assessment Of Location Safety Meeting	01/05/2014 08:00							Water; PH 7; KCL 200; So4 <200; Fe 3; Calcium 120; Chlorides 0; Temp 50.
Pre-Rig Up Safety Meeting	01/05/2014 08:15							Including entire cement crew.
Rig-Up Equipment	01/05/2014 08:45							1 Elite # 4; 1 660 bulk truck; 1 hard line to floor; 1 line to upright; 1 line to rig tank. 9.625" compact head.
Rig-Up Completed	01/05/2014 09:15							
Pre-Job Safety Meeting	01/05/2014 09:20							Including everyone on location.
Start Job	01/05/2014 09:36							TD 1170; TP 1149.2; SJ 45.9; OH 13 1/2"; Casing 9.625" 32.3# H-40; Mud 9.5 ppg.
Pump Water	01/05/2014 09:37		2	2			90.0	Fill lines with fresh water.
Test Lines	01/05/2014 09:39					2430.0		Good pressure test, no leaks.
Pump Spacer 1	01/05/2014 09:44		4	20			135.0	20 BBL fresh water spacer.
Pump Lead Cement	01/05/2014 09:53		7.5	67.8			411.0	160 sks Lead Cement, 12.3 ppg, 2.38 cf3, 13.75 gal/sk.

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	01/05/2014 10:05		7.5	60.1			435.0	160 sks Tail Cement, 12.8 ppg, 2.11 cf3, 11.75 gal/sk.
Shutdown	01/05/2014 10:13							
Drop Plug	01/05/2014 10:14							Plug left container.
Pump Displacement	01/05/2014 10:15			76.8			710.0	Fresh water displacement.
Slow Rate	01/05/2014 10:25			10			290.0	Slow rate last 10 BBL's of displacement prior to bumping the plug.
Bump Plug	01/05/2014 10:29				86.8		875.0	Bumped plug, took 500 PSI over.
Check Floats	01/05/2014 10:31							Floats held, 1/2 BBL back. 18 bbl.'s good cement to surface.
End Job	01/05/2014 10:32							
Pre-Rig Down Safety Meeting	01/05/2014 10:35							Including entire cement crew.
Rig-Down Equipment	01/05/2014 10:40							
Rig-Down Completed	01/05/2014 11:20							
Pre-Convoy Safety Meeting	01/05/2014 11:25							Including entire cement crew.
Crew Leave Location	01/05/2014 11:30							Crew leave location for Service Center or another location.
Other	01/05/2014 11:30							Thank You for using Halliburton. Ed Arnold and Crew.

WPX - RWF 312-25 - 9 5/8" SURFACE



DH Density (ppg) 8.4 Comb Pump Rate (bbl/min) 0 PS Pump Press (psi) 17 Pump Stg Tot (bbl) 85.6

- | | | | | |
|----------------------------|--------------------------------------|----------------------------------|--------------------------------|--------------------------|
| ① Start Job 8.31;0;11;0 | ④ Pump Spacer 1 8.37;0;57;0 | ⑦ Shutdown 12.32;0;161;59.7 | ⑩ Slow Rate 8.47;2.7;409;77 | ⑬ End Job 8.38;0;20;85.6 |
| ② Prime Pumps 8.29;0;10;0 | ⑤ Pump Lead Cement 8.25;4;135;0.1 | ⑧ Drop Plug 11.15;0;12;59.7 | ⑪ Bump Plug 8.46;0;800;85.6 | |
| ③ Test Lines 8.42;0;65;1.9 | ⑥ Pump Tail Cement 12.54;7.5;418;0.1 | ⑨ Pump Displacement 11.16;0;13;0 | ⑫ Check Floats 8.45;0;624;85.6 | |

▼ **HALLIBURTON** | iCem® Service

Created: 2014-01-05 06:42:08, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 1/5/2014 9:06:14 AM

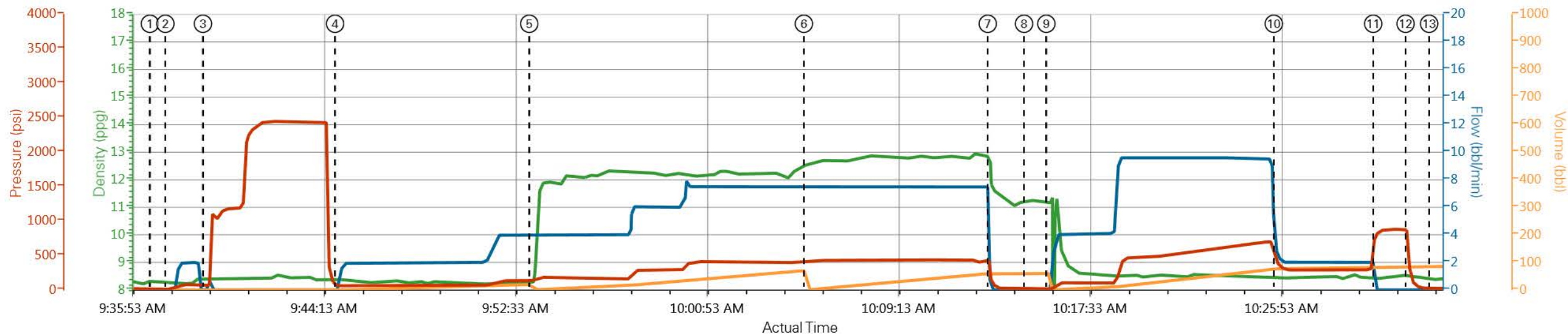
Well: RWF 312-25

Representative: MIKE BRUNK

Sales Order #: 901016921

ELITE #4: ED ARNOLD / TRAVIS BROWN

WPX - RWF 312-25 - 9 5/8" SURFACE



① Start Job 8.31;0;11;0	④ Pump Spacer 18.37;0;57;0	⑦ Shutdown 12.32;0;161;59.7	⑩ Slow Rate 8.47;2.7;409;77	⑬ End Job 8.38;0;20;85.6
② Prime Pumps 8.29;0;10;0	⑤ Pump Lead Cement 8.25;4;135;0.1	⑧ Drop Plug 11.15;0;12;59.7	⑪ Bump Plug 8.46;0;800;85.6	
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Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 1/5/2014 9:06:14 AM

Well: RWF 312-25

Representative: MIKE BRUNK

Sales Order #: 901016921

ELITE #4: ED ARNOLD / TRAVIS BROWN

HALLIBURTON

Water Analysis Report

Company:

wpx

Submitted by:

ed arnold

Attention:

Lease

rwf

Well #

312-25

Date:

1/5/2014

Date Rec.:

1/5/2014

S.O.#

901016921

Job Type:

surface

Specific Gravity	MAX	1
pH	8	7
Potassium (K)	5000	200 Mg / L
Calcium (Ca)	500	120 Mg / L
Iron (FE2)	300	0 Mg / L
Chlorides (Cl)	3000	0 Mg / L
Sulfates (SO ₄)	1500 <200	Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	40-80	50 Deg
Total Dissolved Solids		0 Mg / L

Respectfully:

ED ARNOLD

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 #: 901016921	Line Item: 10	Survey Conducted Date: 1/5/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) AFEYSUEZOJKGW2M0AAA
Well Name: RWF		Well Number: 312-25
Well Type: Development Well	Well Country: United States of America	
H2S Present:	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	1/5/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	EDWARD ARNOLD (HX46731)
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 #: 901016921	Line Item: 10	Survey Conducted Date: 1/5/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) AFEYSUEZOJKGW2M0AAA
Well Name: RWF		Well Number: 312-25
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	1/5/2014

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
Operating Hours (Pumping Hours) Total number of hours pumping fluid on this job. Enter in decimal format.	1
Customer Non-Productive Rig Time (hrs) 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.	0
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
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Was this a Primary Cement Job (Yes / No)	Yes

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Customer Representative:		API / UWI: (leave blank if unknown) AFEYSUEZOJKGW2M0AAA
Well Name: RWF		Well Number: 312-25
Well Type: Development Well	Well Country: United States of America	
H2S Present:	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	97
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	99
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