

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

RWF 311-25

CYCLONE 17

Post Job Summary

Cement Surface Casing

Date Prepared: 01/18/2014
Version: 1

Service Supervisor: BRENNECKE, ANDREW

Submitted by: Grand Junction Cement Engineering

HALLIBURTON

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123559	Quote #:	Sales Order #: 901037571
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Duniho, Al		
Well Name: RWF	Well #: 311-25	API/UWI #: 05-045-21977	
Field: RULISON	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Lat: N 39.497 deg. OR N 39 deg. 29 min. 49.294 secs.	Long: W 107.841 deg. OR W -108 deg. 9 min. 32.137 secs.		
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	Srvc Supervisor: BRENNECKE, ANDREW	MBU ID Emp #: 486345	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BRENNECKE, ANDREW Bailey	7	486345	LAULAINEN, ROGER Edward	7	524413	PONDER, THOMAS Lynn	7	427112
YENTER, TRAVIS Drake	7	556030						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10296152C	60 mile	10867322	60 mile	10995025	60 mile	11583931	60 mile
11808849	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
01/14/2014	7	2						

TOTAL Total is the sum of each column separately

Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	14 - Jan - 2014	07:00	MST
Form Type	BHST		Job Started	14 - Jan - 2014	11:00	MST
Job depth MD	1129. ft	Job Depth TVD	Job Started	14 - Jan - 2014	15:56	MST
Water Depth		Wk Ht Above Floor	Job Completed	14 - Jan - 2014	16:48	MST
Perforation Depth (MD)	From	To	Departed Loc	14 - Jan - 2014	18:00	MST

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	9 5/8	1	WTF	1129	Packer					Top Plug	9 5/8	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar	9 5/8	1	WTF	1082.65	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

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

Stage/Plug #: 1

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	.0	
2	VariCem GJ! Lead Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75		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		11.75
11.75 Gal		FRESH WATER							
4	Fresh Water Displacement			bbl	.	.0	.0	.0	
Calculated Values		Pressures		Volumes					
Displacement	85.2	Shut In: Instant		Lost Returns		Cement Slurry	127.9	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	20	Actual Displacement	85.2	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	223.1
Rates									
Circulating	RIG	Mixing	8	Displacement	10	Avg. Job	8		
Cement Left In Pipe	Amount	0 ft	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					

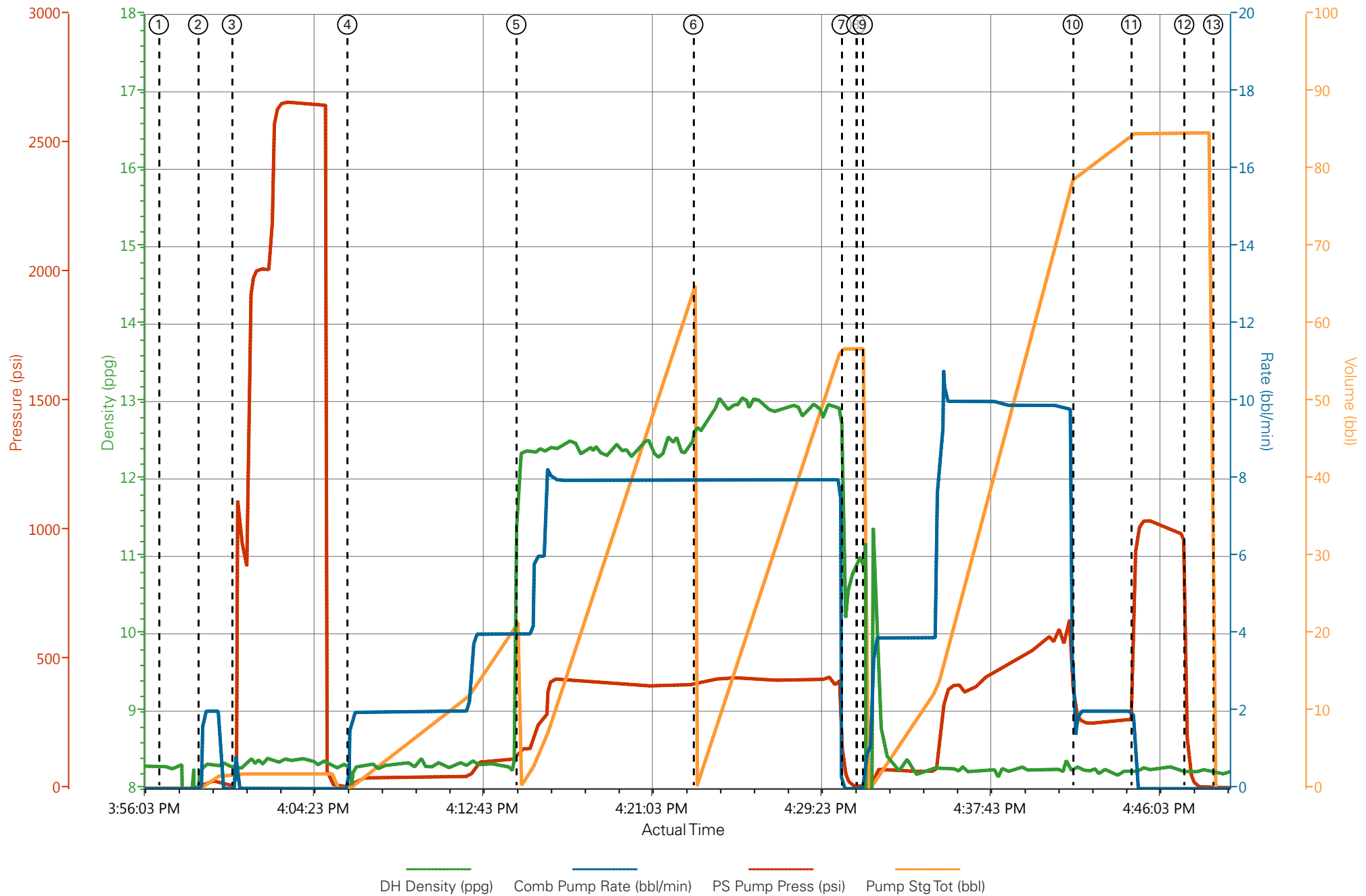
The Road to Excellence Starts with Safety

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Legal Description:							
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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			Srv Supervisor: BRENNECKE, ANDREW			MBU ID Emp #: 486345	

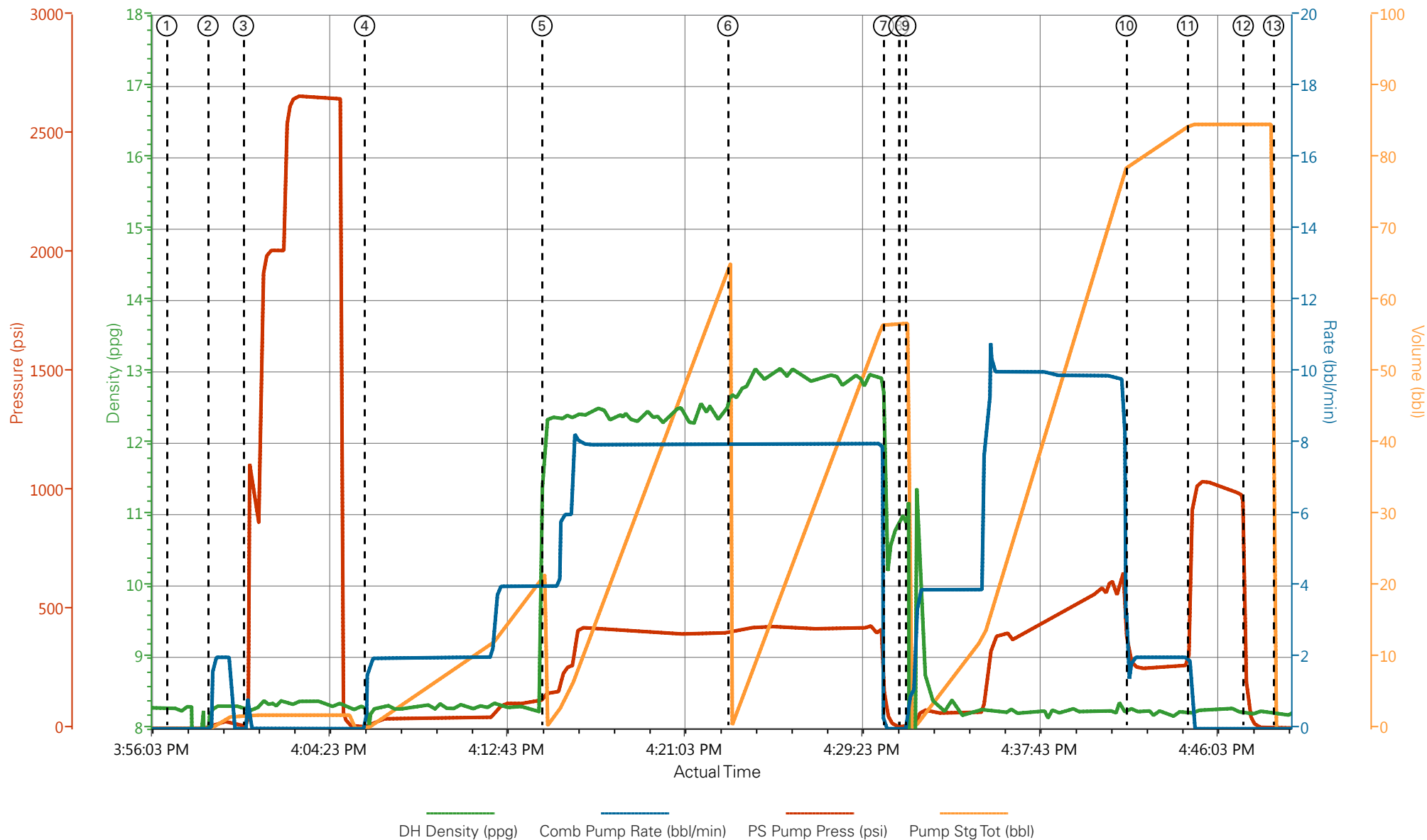
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	01/14/2014 07:00							CREW WAS IN THE FIELD
Pre-Convoy Safety Meeting	01/14/2014 09:45							ALL HES PERSONEL
Crew Leave Yard	01/14/2014 10:00							
Arrive At Loc	01/14/2014 11:15							RIG HAD NOT STARTED RUNNING CASING YET. TRUCKS STATIONED AT ENTRANCE OF LOCATION
Assessment Of Location Safety Meeting	01/14/2014 14:30							ALL HES PERSONEL
Rig-Up Equipment	01/14/2014 15:00							1-ELITE, 1-660 BULK TRUCKS, 2" PUMPING IRON, 9.625" PLUG CONTAINER AND QUICKLATCH
Rig-Up Completed	01/14/2014 15:30							
Pre-Job Safety Meeting	01/14/2014 15:30							ALL HES PERSONEL AND RIG CREW
Start Job	01/14/2014 15:56							TD-1150', TP-1129', SJ-46.35', FC-1082.65', OH-13.5, CSG-9.625", 32.3#, MUD-10 PPG, VISC-60
Pump Water	01/14/2014 15:58		2	2			22.0	FILL LINES
Pressure Test	01/14/2014 16:00		0.5	0.5				PRESSURE TEST LINES WITH 2660 PSI
Pump Spacer	01/14/2014 16:06		4	10			114.0	FRESH WATER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	01/14/2014 16:14		8	67.8			425.0	160 SKS, 12.3 PPG, 2.38 FT3/SK, 13.75 GAL/SK
Pump Tail Cement	01/14/2014 16:23		8	60.1			424.0	160 SKS, 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK
Shutdown	01/14/2014 16:30							
Drop Plug	01/14/2014 16:31							PLUG DROP VERIFIED BY CUSTOMER
Pump Displacement	01/14/2014 16:31		10	75			653.0	FRESH WATER, WASHED UP MIXING TUB WITH FIRST 10 BBL OF DISPLACEMENT
Slow Rate	01/14/2014 16:41		2	10			252.0	GOOD RETURNS THROUGH OUT JOB. CIRCULATED 20 BBL OF CEMENT TO SURFACE
Bump Plug	01/14/2014 16:44						1036.0	ALL HES PERSONEL
Check Floats	01/14/2014 16:47							FLOATS HELD/ 1/2 BBLS FLOW BACK TO DISPLACEMENT TANK
End Job	01/14/2014 16:48							THANK YOU FOR CHOOSING HALLIBURTON, ANDREW BRENNECKE AND CREW

WPX -RWF 311-25 - 9.625" SURFACE



WPX -RWF 311-25 - 9.625" SURFACE



- | | | | | |
|------------------------------|------------------------------------|----------------------------------|--------------------------------|----------------------|
| ① Start Job 8.29;0;1;0 | ④ Pump Spacer 1 8.22;1.7;12;0.1 | ⑦ Shutdown 10.2;0;67;56.8 | ⑩ Slow Rate 8.31;1.6;304;79 | ⑬ End Job 8.23;0;2;0 |
| ② Fill Lines 8.23;0.1;18;0 | ⑤ Pump Lead Cement 12.31;4;143;0.1 | ⑧ Drop Plug 11.03;0;6;56.8 | ⑪ Bump Plug 8.23;1.9;787;84.6 | |
| ③ Test Lines 8.29;0.5;10;1.8 | ⑥ Pump Tail Cement 12.68;8;405;0.2 | ⑨ Pump Displacement 2.35;0.9;8;0 | ⑫ Check Floats 8.23;0;161;84.7 | |

▼ **HALLIBURTON** | iCem® Service

Created: 2014-01-14 14:28:56, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 1/14/2014 3:42:46 PM

Well: RWF 311-25

Representative: A. DUNIHO

Sales Order #: 901037571

ELITE#9: R. LAULAINEN/A.BRENNECKE

HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: A.BRENNECKE

Attention: C.ROSS

Lease RWF

Well # 311-25

Date: 1/14/2014

Date Rec.: 1/14/2014

S.O.# 901037571

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7.7</i>
Potassium (K)	<i>5000</i>	<i>200</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>250</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>0</i> Mg / L
Sulfates (SO ₄)	<i>1500</i>	<i><200</i> Mg / L
Chlorine (Cl ₂)		<i>0</i> Mg / L
Temp	<i>40-80</i>	<i>49</i> Deg
Total Dissolved Solids		<i>220</i> Mg / L

Respectfully: A.BRENNECKE

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 #: 901037571	Line Item: 10	Survey Conducted Date: 1/14/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: AL DUNIHO		API / UWI: (leave blank if unknown) 05-045-21977
Well Name: RWF		Well Number: 311-25
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 our 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 honest 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	1/14/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	ANDREW BRENNECKE (HB58348)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	AL DUNIHO
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	GOOD JOB MEN

CUSTOMER SIGNATURE

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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	1/14/2014

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
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	7
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: AL DUNIHO		API / UWI: (leave blank if unknown) 05-045-21977
Well Name: RWF		Well Number: 311-25
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	95
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	8
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