

**HALLIBURTON**

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**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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RWF 512-25  
RULISON  
Garfield County , Colorado

**Cement Surface Casing**

20-Oct-2013

**Post Job Report**

*The Road to Excellence Starts with Safety*

Sold To #: 300721	Ship To #: 3162981	Quote #:	Sales Order #: 900833732
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Moore, Frank	
Well Name: RWF	Well #: 512-25	API/UWI #: 05-045-21971	
Field: RULISON	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
<b>Legal Description:</b>			
Lat: N 39.497 deg. OR N 39 deg. 29 min. 49.124 secs.		Long: W 107.841 deg. OR W -108 deg. 9 min. 31.954 secs.	
Contractor: Aztec		Rig/Platform Name/Num: Aztec 1000	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc Supervisor: REEVES, BRANDON	MBU ID Emp #: 287883

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/20/2013 12:30							
Depart from Service Center or Other Site	10/20/2013 15:00							
Arrive At Loc	10/20/2013 16:30							
Assessment Of Location Safety Meeting	10/20/2013 18:30							
Other	10/20/2013 18:40							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	10/20/2013 18:50							
Rig-Up Equipment	10/20/2013 19:00							
Pre-Job Safety Meeting	10/20/2013 19:50							
Start Job	10/20/2013 20:05							TD-1145' TP-1137.87' SJ-44.20 MW-11.0 PPG. HOLE-13 1/2" CASING-9 5/8" 32.3 PPF.
Test Lines	10/20/2013 20:07					2960. 0		
Pump Spacer 1	10/20/2013 20:11		4	20			125.0	FRESH WATER SPACER
Pump Lead Cement	10/20/2013 20:18		8	76.3			400.0	180 SKS. @ 12.3 PPG. 2.38 YIELD 13.75 GAL/SK.
Pump Tail Cement	10/20/2013 20:28		8	60.1			350.0	160 SKS. @ 12.8 PPG. 2.11 YIELD 11.75 GAL/SK.
Drop Top Plug	10/20/2013 20:37							
Pump Displacement	10/20/2013 20:39		10				500.0	FRESH WATER DISPLACEMENT.

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SUMMIT Version: 7.3.0106

Tuesday, December 10, 2013 03:37:00

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Slow Rate	10/20/2013 20:47		2	54			205.0	SLOWED THE PUMP RATE TO 2 BPM AFTER CIRCULATING CEMENT TO SURFACE AT 54 BBLs. INTO DISPLACEMENT.
Bump Plug	10/20/2013 21:02		2	86			260.0	PLUG LANDED AT 260 PSI. PRESSURED UP TO 730 PSI.
Check Floats	10/20/2013 21:04							FLOATS HELD. .5 BBL. FLOW BACK.
End Job	10/20/2013 21:06							THE WELL WAS CIRCULATED BEFORE STARTING THE JOB. GOOD CIRCULATION THROUGHOUT THE JOB. THE PIPE WAS NOT RECIPROCATED. CIRCULATED 32 BBLs. OF CEMENT TO SURFACE.
Comment	10/20/2013 21:08							THANK YOU FOR USING HALLIBURTON CEMENTING. BRANDON REEVES AND CREW.

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Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc Supervisor: REEVES, BRANDON	MBU ID Emp #: 287883

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ATKINSON, STEPHAN Michael	0.0	513940	BANKS, BRENT A	0.0	371353	EICKHOFF, ROBERT Edward	0.0	495311
REEVES, BRANDON W	0.0	287883						

**Equipment**

HES Unit #	Distance-1 way						
10567589C	60 mile	10867094	60 mile	10867304	60 mile	10897925	60 mile
10951246	60 mile	11071559	60 mile	11808847	60 mile		

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours

**TOTAL** Total is the sum of each column separately

**Job**

**Job Times**

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	20 - Oct - 2013	12:30	MST
Form Type		BHST	Job Started	20 - Oct - 2013	16:30	MST
Job depth MD	1137.9 ft	Job Depth TVD	Job Started	20 - Oct - 2013	20:05	MST
Water Depth		Wk Ht Above Floor	Job Completed	20 - Oct - 2013	21:06	MST
Perforation Depth (MD)	From	To	Departed Loc	20 - Oct - 2013	00:00	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

**Sales/Rental/3<sup>rd</sup> Party (HES)**

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 9 5/8, HWE, 8.16 MIN/9.06 MA	1	EA		

**Tools and Accessories**

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

**Miscellaneous Materials**

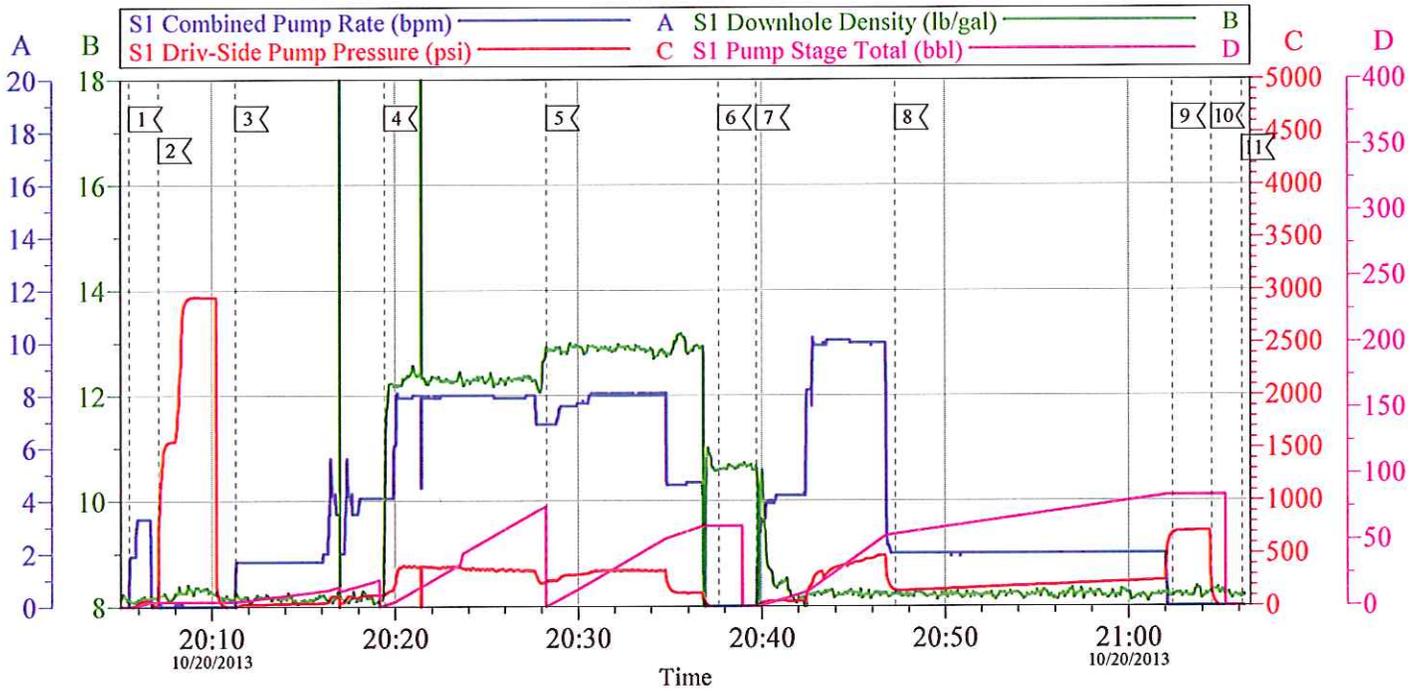
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc %
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty

**Fluid Data**

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water Spacer		20.00	bbl	8.33	.0	.0	.0	
2	VariCem GJ1 Lead Cement	VARICEM (TM) CEMENT (452009)	180.0	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	Displacement Fluid			bbl	8.34	.0	.0	.0	
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
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 @
The Information Stated Herein Is Correct				Customer Representative Signature					

## WPX ENERGY RWF 512-25 9 5/8" SURFACE



Local Event Log											
Intersection	SDPP	Intersection	SDPP	Intersection	SDPP						
1	START JOB	20:05:31	-14.70	2	TEST LINES	20:07:06	314.6	3	PUMP H2O SPACER	20:11:19	-0.668
4	PUMP LEAD CEMENT	20:19:26	114.9	5	PUMP TAIL CEMENT	20:28:17	232.5	6	DROP TOP PLUG	20:37:39	-8.696
7	PUMP DISPLACEMENT	20:39:43	-9.696	8	SLOW RATE	20:47:16	152.7	9	LAND PLUG	21:02:24	682.9
10	CHECK FLOATS	21:04:31	217.8	11	END JOB	21:06:10	-11.70				

Customer: WPX ENERGY	Job Date: 20-Oct-2013	Sales Order #: 900833732
Well Description: RWF 512-25	Job Type: 9 5/8" SURFACE	ADC Used: YES
Supervisor: BRANDON REEVES	Company Rep: FRANK MOORE	Elite/Operator: 3/BRENT BANKS

OptiCem v6.4.10  
20-Oct-13 21:09

# HALLIBURTON

## Water Analysis Report

Company: WPX  
Submitted by: BRANDON REEVES  
Attention: J. TROUT/C.MARTINEZ  
Lease: RWF  
Well #: 512-25

Date: 10/20/2013  
Date Rec.: 10/20/2013  
S.O.#: 900833732  
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>250 Mg / L</b>
Calcium (Ca)	<i>500</i>	<b>120 Mg / L</b>
Iron (FE2)	<i>300</i>	<b>0 Mg / L</b>
Chlorides (Cl)	<i>3000</i>	<b>0 Mg / L</b>
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>UNDER 200 Mg / L</b>
Chlorine (Cl <sub>2</sub> )		<b>0 Mg / L</b>
Temp	<i>40-80</i>	<b>54 Deg</b>
Total Dissolved Solids		<b>400 Mg / L</b>

Respectfully: BRANDON REEVES

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

<b>Sales Order #:</b> 900833732	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 10/20/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> FRANK MOORE		<b>API / UWI: (leave blank if unknown)</b> 05-045-21971
<b>Well Name:</b> RWF		<b>Well Number:</b> 512-25
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> 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	10/20/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	BRANDON REEVES (HBT9414)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	FRANK MOORE
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	
<b>Survey Conducted Date</b> The date the survey was conducted	10/20/2013

Cementing KPI Survey	
<b>Type of Job</b> Select the type of job. (Cementing or Non-Cementing)	0
<b>Select the Maximum Deviation range for this Job</b> What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
<b>Total Operating Time (hours)</b> Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	2
<b>HSE Incident, Accident, Injury</b> HSE Incident, Accident, Injury. This should be recordable incidents only.	No
<b>Was the job purpose achieved?</b> Was the job delivered correctly as per customer agreed design?	Yes
<b>Operating Hours (Pumping Hours)</b> Total number of hours pumping fluid on this job. Enter in decimal format.	1
<b>Customer Non-Productive Rig Time (hrs)</b> 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
<b>Type of Rig Classification Job Was Performed</b> Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
<b>Number Of JSAs Performed</b> Number Of Jsas Performed	6
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

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<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b>	Top
Did We Run Top And Bottom Casing Wiper Plugs?	
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b>	95
Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	
<b>Was Automated Density Control Used?</b>	Yes
Was Automated Density Control (ADC) Used ?	
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b>	95
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	
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b>	0
Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	
<b>Nbr of Remedial Plug Jobs Rqd - HES</b>	0
Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b>	0
Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	