

HALLIBURTON

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**RWF 412-25
Rulison
Garfield County , Colorado**

Cement Surface Casing
11-Sep-2013

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3100106	Quote #:	Sales Order #: 900728871
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep:		
Well Name: RWF	Well #: 412-25	API/UWI #: 05-045-21976	
Field: Rulison	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Lat: N 39.497 deg. OR N 39 deg. 29 min. 49.002 secs.	Long: W 107.841 deg. OR W -108 deg. 9 min. 31.99 secs.		
Contractor: Aztec	Rig/Platform Name/Num: Aztec 1000		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: MAYO, MARK	Srvc Supervisor: CARTER, ERIC	MBU ID Emp #: 345598	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CAMPBELL, DAVID Arthur	0.0	544403	CARTER, ERIC Earl	0.0	345598	SINCLAIR, DAN J	0.0	338784

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10784064	60 mile	10872429	60 mile	11006314	60 mile	11583933	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

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Wk Ht Above Floor	Perforation Depth (MD)	From	To	Deparated Loc
				BHST	1147. ft	11470. ft	5. ft				
Called Out	11 - Sep - 2013	02:00	MST	On Location	11 - Sep - 2013	05:00	MST	Job Started	11 - Sep - 2013	08:14	MST
Job Completed	11 - Sep - 2013	09:08	MST								
Deparated Loc	11 - Sep - 2013	10:00	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
OPEN HOLE				13.5					1165.		
SURFACE CASING	Unknown		9.625	9.001	32.3		H-40		1147.		

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 ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
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Stage/Plug #: 1

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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	VersaCem GJ1 Lead Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75		13.75
	13.75 Gal	FRESH WATER							
3	VersaCem 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		89.00	bbl	8.33	.0	.0	10.0	
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	43.6 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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Well Name: RWF			Well #: 412-25		API/UWI #: 05-045-21976		
Field: Rulison		City (SAP): RIFLE		County/Parish: Garfield		State: Colorado	
Legal Description:							
Lat: N 39.497 deg. OR N 39 deg. 29 min. 49.002 secs.				Long: W 107.841 deg. OR W -108 deg. 9 min. 31.99 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: CARTER, ERIC			MBU ID Emp #: 345598	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume Bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/11/2013 02:00							
Depart Yard Safety Meeting	09/11/2013 03:20							ATTENDED BY ALL HES CREW
Crew Leave Yard	09/11/2013 03:30							
Arrive At Loc	09/11/2013 05:00							RIG RUNNING CASING
Assessment Of Location Safety Meeting	09/11/2013 05:10							ATTENDED BY ALL HES CREW
Other	09/11/2013 06:40							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	09/11/2013 06:50							ATTENDED BY ALL HES CREW
Rig-Up Equipment	09/11/2013 07:00							
Pre-Job Safety Meeting	09/11/2013 07:40							ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP
Start Job	09/11/2013 08:14							TP 1147', LJ 30', TD 1165', SJ 43.64', FC 1103.36', MW 9.2 PPG, CASING 9.625", 32.3#, H-40, HOLE 13.5" 11 CENTRALIZERS, RIG CIRCULATED FOR PRIOR TO JOB
Other	09/11/2013 08:15		2	2			38.0	FILL LINES
Test Lines	09/11/2013 08:17							PRESSURED UP TO 2790 PSI, PRESSURE HELD
Pump Spacer 1	09/11/2013 08:21		4	20			99.0	FRESH WATER
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl		Pressure psig		Comments

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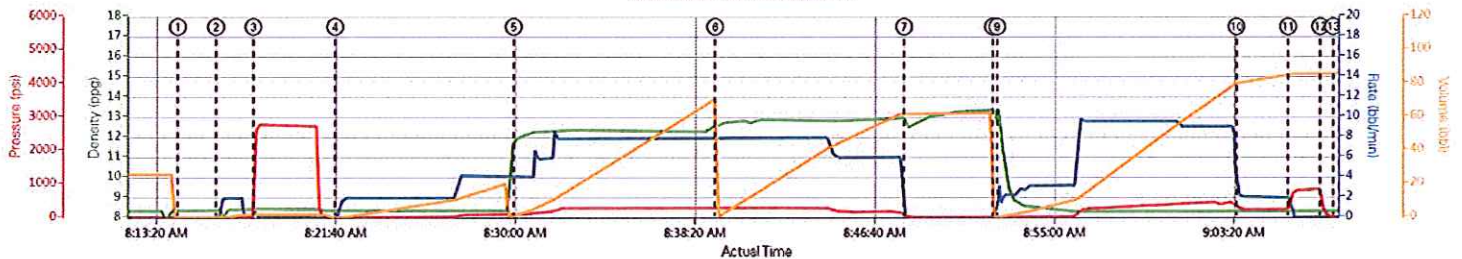
SUMMIT Version: 7.3.0106

Sunday, September 29, 2013 12:15:00

Cementing Job Log

		#		Stage	Total	Tubing	Casing	
Pump Lead Cement	09/11/2013 08:29		8	67.8			290.0	160 SKS VARICEM MIXED AT 12.3 PPG, 2.38 YIELD, 13.75 GL/SK
Pump Tail Cement	09/11/2013 08:39		8	60.1			302.0	160 SKS VARICEM MIXED AT 12.8 PPG, 2.11 YIELD, 11.75 GL/SK
Shutdown	09/11/2013 08:48							
Drop Top Plug	09/11/2013 08:52							PLUG LANCHED
Pump Displacement	09/11/2013 08:52		10	79.2			480.0	FRESH WATER
Slow Rate	09/11/2013 09:03		2	10			260.0	
Bump Plug	09/11/2013 09:05						880.0	PLUG LANDED
Check Floats	09/11/2013 09:07							FLOATS HELD
End Job	09/11/2013 09:08							GOOD CIRCULATION THROUGH OUT JOB, PIPE NOT MOVED DURING JOB, 9 BBLS CEMENT TO SURFACE
Post-Job Safety Meeting (Pre Rig-Down)	09/11/2013 09:10							ATTENDED BY ALL HES CREW
Rig-Down Equipment	09/11/2013 09:15							
Depart Location Safety Meeting	09/11/2013 09:50							ATTENDED BY ALL HES CREW
Crew Leave Location	09/11/2013 10:00							THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW.

WPX-RWF 412-25-SURFACE



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

- ① Start Job ⑥ Pump Tail Cement ⑩ Bump Plug
- ② Fill Lines ⑦ Shutdown ⑪ Check Floats
- ③ Test Lines ⑧ Drop Top Plug ⑫ End Job
- ④ Pump Spacer 1 ⑨ Pump Displacement
- ⑤ Pump Lead Cement ⑬ Slow Rate

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Created: 2013-09-11 06:55:44, Version: 1.4.96

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 9/11/2013 7:00:37 AM

Well: RWF 412-25

Representative: ERIC CARTER

Sales Order #: 900726871

HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: ERIC CARTER
Attention: J.Trout
Lease: AZTEC 1000
Well #: RWF 412-25

Date: 9/29/2013
Date Rec.: 9/29/2013
S.O.#: 900728871
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>125 Mg / L</i>
Hrdness	<i>500</i>	<i>120 Mg / L</i>
Iron (FE2)	<i>300</i>	<i>0 Mg / L</i>
Chlorides (Cl)	<i>3000</i>	<i>250 Mg / L</i>
Sulfates (SO ₄)	<i>1500</i>	<i><200 Mg / L</i>
Temp	<i>40-80</i>	<i>68 Deg</i>
Total Dissolved Solids		<i>520 Mg / L</i>

Respectfully: ERIC CARTER

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 #: 900728871	Line Item: 10	Survey Conducted Date: 9/11/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: FRANK MOORE		API / UWI: (leave blank if unknown) 05-045-21976
Well Name: RWF		Well Number: 412-25
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	9/11/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	ERIC CARTER (HX15491)
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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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	9/11/2013

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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Well Name: RWF		Well Number: 412-25
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	98
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	98
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