
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**RU 313-5
Rulison
Garfield County , Colorado**

**Cement Surface Casing
09-Oct-2013**

Post Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3110786	Quote #:	Sales Order #: 900807637
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Hartl, Al	
Well Name: RU		Well #: 313-5	API/UWI #:
Field: Rulison	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Contractor: NABORS 574		Rig/Platform Name/Num: NABORS 574	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc 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	4	439784	DIAZ, ZACH Ryan	4	554549	JENSEN, SHANE	4	441759
SALAZAR, PAUL Omar	4	445614						

Equipment

HES Unit #	Distance-1 way						
10867425	60 mile	10872429	60 mile	10897891	60 mile	11259882	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
2013-10-09	4	4						
TOTAL			<i>Total is the sum of each column separately</i>					

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	09 - Oct - 2013	03:30	MST
Form Type	BHST		Job Started	09 - Oct - 2013	05:55	MST
Job depth MD	1185. ft	Job Depth TVD	1185. ft	Job Completed	09 - Oct - 2013	06:50
Water Depth		Wk Ht Above Floor	3. ft	Departed Loc	09 - Oct - 2013	08:00
Perforation Depth (MD)	<i>From</i>	<i>To</i>				

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/3rd 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	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 ft ³ /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	4	
2	VariCem GJ! Lead Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75	7	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	11.75
11.75 Gal		FRESH WATER							
4	Fresh Water Displacement		89.00	bbl	.	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	88.5	Shut In: Instant		Lost Returns		Cement Slurry	127.9	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	18	Actual Displacement	88.5	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	236.4
Rates									
Circulating	RIG	Mixing	7	Displacement	10	Avg. Job	8		
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					

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Well Name: RU		Well #: 313-5	API/UWI #:
Field: Rulison	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat:		Long:	
Contractor: NABORS 574		Rig/Platform Name/Num: NABORS 574	
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	10/08/2013 23:30							
Pre-Convoy Safety Meeting	10/09/2013 01:15							Including entire cement crew.
Crew Leave Yard	10/09/2013 01:30							
Arrive At Loc	10/09/2013 03:30							Rig still Running casing. Requested on location ASAP.
Assessment Of Location Safety Meeting	10/09/2013 04:00							Water; PH 7; KCL 400; So4 <200; Fe 0; Calcium 120; Chlorides 0; Temp 50; TDS 310.
Pre-Rig Up Safety Meeting	10/09/2013 04:15							Including entire cement crew.
Rig-Up Equipment	10/09/2013 04:25							1 Elite #7; 1 hard line to floor; 1 line to upright; 1 line to rig tank; 1 660 bulk truck; 1 9 5/8" compact cement head.
Rig-Up Completed	10/09/2013 05:30							
Pre-Job Safety Meeting	10/09/2013 05:40							Including everyone on location.
Start Job	10/09/2013 05:55							TD 1185; TP 1169; SJ 43.8; OH 13 1/2"; Casing 9.625" 32.3# H-40; Mud 10 ppg.
Pump Water	10/09/2013 05:56		2	2			52.0	Fill lines with fresh water.
Test Lines	10/09/2013 05:58					2960.0		Good pressure test, no leaks.
Pump Spacer 1	10/09/2013 06:05		4	20			151.0	20 BBL fresh water spacer.
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl		Pressure psig		Comments

Sold To # : 300721

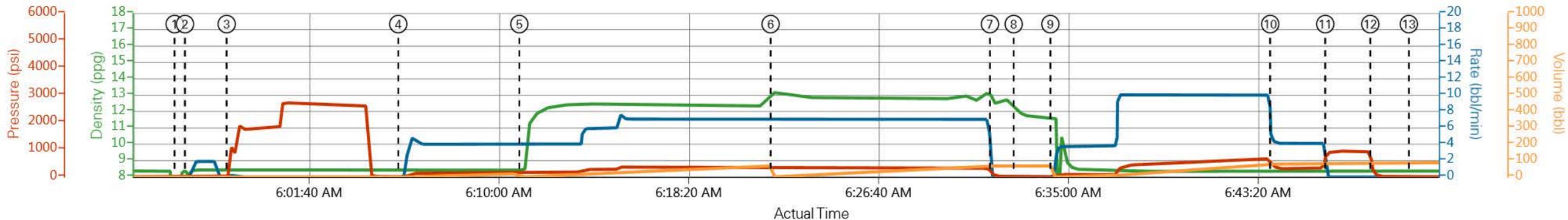
Ship To # :3110786

Quote # :

Sales Order # : 900807637

		#	Stage	Total	Tubing	Casing	
Pump Lead Cement	10/09/2013 06:10		7	67.1		330.0	160 sks Lead Cement, 12.3 ppg, 2.38 cf3, 13.75 gal/sk.
Pump Tail Cement	10/09/2013 06:21		7	60.8		313.0	160 sks Tail Cement, 12.8 ppg, 2.11 cf3, 11.75 gal/sk.
Shutdown	10/09/2013 06:31						
Drop Plug	10/09/2013 06:32						Plug left container.
Pump Displacement	10/09/2013 06:34		10	78.5		645.0	Fresh water displacement.
Slow Rate	10/09/2013 06:43		2	10		330.0	Slow rate last 10 BBL's of displacement prior to bumping the plug.
Bump Plug	10/09/2013 06:46				88.5	960.0	Bumped plug, took 500 PSI over.
Check Floats	10/09/2013 06:48						Floats held, 1/2 BBL back. 18 BBL.'s good cement to surface.
End Job	10/09/2013 06:50						
Pre-Rig Down Safety Meeting	10/09/2013 06:55						Including entire cement crew.
Rig-Down Equipment	10/09/2013 07:00						
Rig-Down Completed	10/09/2013 07:30						
Pre-Convoy Safety Meeting	10/09/2013 07:45						Including entire cement crew.
Crew Leave Location	10/09/2013 08:00						Crew leave location for Service Center or another location.
Other	10/09/2013 08:00						Thank You for using Halliburton. Ed Arnold and Crew.

WPX - RU 313-5 - 9 5/8" SURFACE



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

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

▼ **Halliburton** | iCem Service®

Created: 2013-10-09 04:18:12 , Version: 1.4.96

[Edit](#)

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 10/9/2013 5:20:52 AM

Well: RU 313-5

Representative: AL HARTLE

Sales Order #: 900807637

ELITE #7: ED ARNOLD / PAUL SALAZAR

HALLIBURTON

Water Analysis Report

Company:	<u>WPX</u>	Date:	<u>10/9/2013</u>
Submitted by:	<u>ED ARNOLD</u>	Date Rec.:	<u>10/9/2013</u>
Attention:	<u>JOHN TOUT</u>	S.O.#	<u>900807637</u>
Lease	<u>RU</u>	Job Type:	<u>SURFACE</u>
Well #	<u>313-5</u>		

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	0 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>	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	60 Deg
Total Dissolved Solids		100 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 #: 900807637	Line Item: 10	Survey Conducted Date: 10/9/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) AFEYSMKYWIKU0MGJAAA
Well Name: RU		Well Number: 313-5
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	10/9/2013
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

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Customer Representative:		API / UWI: (leave blank if unknown) AFEYSMKYWIKU0MGJAAA
Well Name: RU		Well Number: 313-5
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	10/9/2013
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)	4
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?	
Operating Hours (Pumping Hours)	1
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	0
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.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	5
Number Of Jsas Performed	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	Yes

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Customer Representative:		API / UWI: (leave blank if unknown) AFEYSMKYWIKU0MGJAAA
Well Name: RU		Well Number: 313-5
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