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**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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**PA 312-11  
Parachute  
Garfield County , Colorado**

**Cement Surface Casing**  
**17-Apr-2013**

**Job Site Documents**

# HALLIBURTON

# Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2993189	Quote #:	Sales Order #: 900367602
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: DUNIHOO, AL	
Well Name: PA	Well #: 312-11	API/UWI #:	
Field: RULISON	City (SAP): PARACHUTE	County/Parish: Weld	State: Colorado
Contractor: Cylcone Drilling	Rig/Platform Name/Num: Cyclone 17		
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BRENNECKE, ANDREW Bailey	6.0	486345	SALAZAR, PAUL Omar	6.0	445614	SMITH, CHRISTOPHER Scott	6.0	452619

### Equipment

HES Unit #	Distance-1 way						
10616651C	60 mile	10713212	60 mile	10951245	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
04.17.2013	6	1						
TOTAL			Total is the sum of each column separately					

### Job

### Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
				On Location	17 - Apr - 2013	09:00	MST
Form Type			BHST	Job Started	17 - Apr - 2013	15:30	MST
Job depth MD	950. ft		Job Depth TVD	Job Started	17 - Apr - 2013	19:31	MST
Water Depth			Wk Ht Above Floor	Job Completed	17 - Apr - 2013	20:16	MST
Perforation Depth (MD)	From		To	Departed Loc	17 - Apr - 2013	21:30	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				12.25					930.		
SURFACE CASING	New		9.625	9.001	32.3		I-80		930.		

### Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe	9.625	1	WTF	934'	Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar	9.625	1	WTF	891'	Retainer					SSR plug set			
Insert Float										Plug Container	9.625	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 <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
Stage/Plug #: 1										

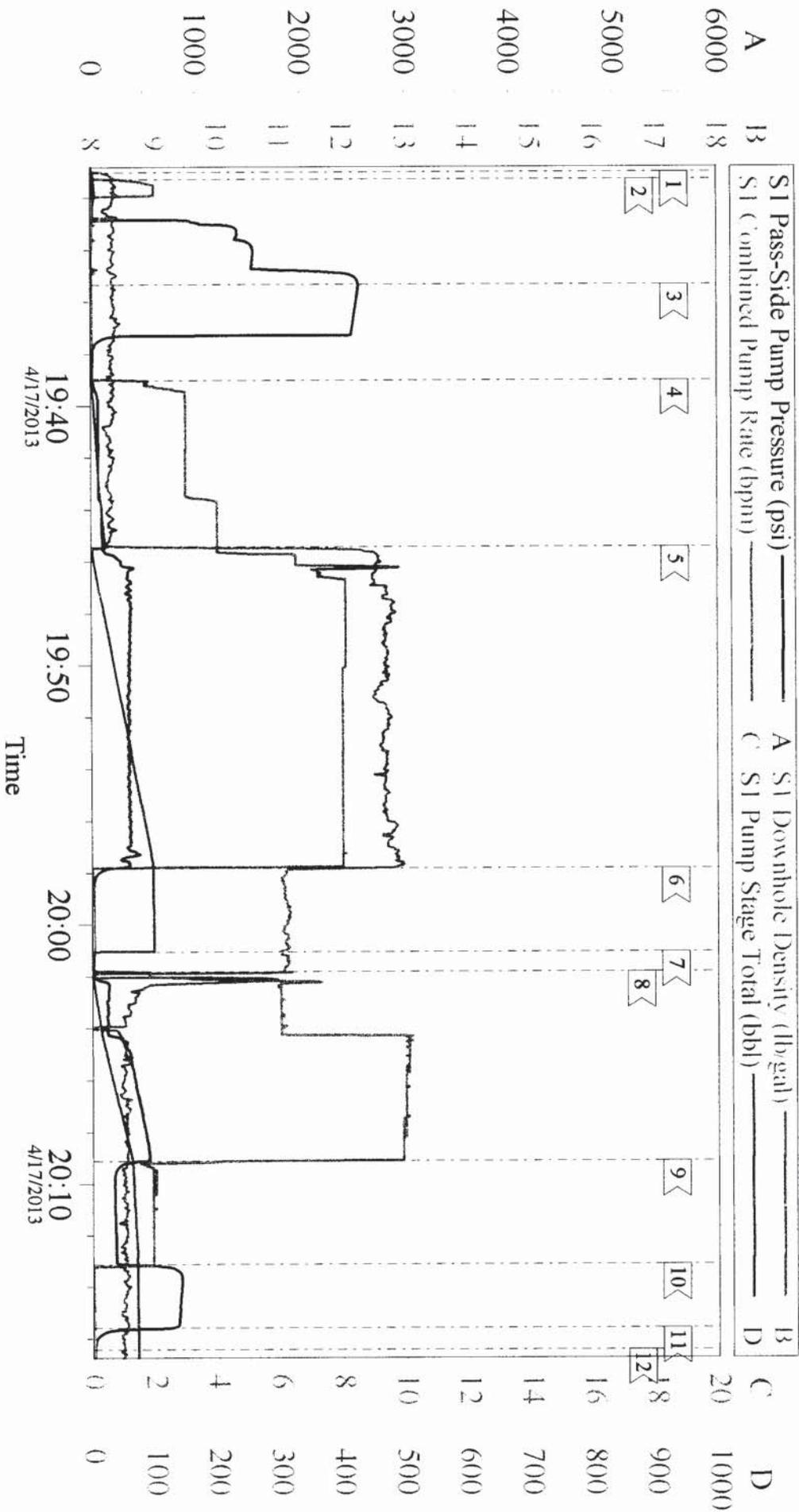
# HALLIBURTON

## Cementing Job Summary

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	.	.0	.0	4.0	
2	VersaCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	250.0	sacks	12.8	2.11	11.75	8.0	11.75
	11.75 Gal	FRESH WATER							
3	Fresh Water Displacement		70.00	bbl	.	.0	.0	10.0	
Calculated Values		Pressures			Volumes				
Displacement	70	Shut In: Instant		Lost Returns	0	Cement Slurry	94	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	10	Actual Displacement	70	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	184
Rates									
Circulating	12	Mixing	8	Displacement	10	Avg. Job	10		
Cement Left In Pipe	Amount	42.85	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					
				<i>Al Sanchez</i>					

# WPX, RWF 312-11

## 9.625" SURFACE



Local Event Log								
1	START JOB	19:31:01	2	FILL LINES	19:31:17	3	TEST LINES	19:35:20
4	H2O SPACER	19:39:00	5	TAIL CEMENT	19:45:26	6	SHUTDOWN	19:57:50
7	DROP PLUG	20:01:03	8	H2O SPACER	20:01:50	9	SLOW RATE	20:09:08
10	BUMP PLUG	20:13:08	11	CHECK FLOATS	20:15:36	12	END JOB	20:16:26

Customer: WPX	Job Date: 17-Apr-2013	Sales Order #: 90036702
Well Description: RWF 312-11	Job Type: SURFACE	ADC Used: YES
Company Rep: AL DUNIHOO	Cement Supervisor: C.SMITH	Operator/ Pump: C.SMITH/E3

# HALLIBURTON

## Cementing Job Log

*The Road to Excellence Starts with Safety*

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Well Name: PA	Well #: 312-11	API/UWI #:	
Field: RULISON	City (SAP): PARACHUTE	County/Parish: Weld GARFIELD	State: Colorado
Legal Description:			
Lat:		Long:	
Contractor: Cylcone Drilling		Rig/Platform Name/Num: Cyclone 17	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	04/17/2013 09:00							REQUEST ON LOCATION AT 15:30
Pre-Convoy Safety Meeting	04/17/2013 14:00							WITH ALL HES PERSONNEL SAFE DRIVING PRACTICES AND TRAVEL ROUTE REVIEWED
Arrive at Location from Service Center	04/17/2013 15:30							RIG PULLING DRILL PIPE
Assessment Of Location Safety Meeting	04/17/2013 17:45							WITH ALL HES PERSONNEL
Pre-Rig Up Safety Meeting	04/17/2013 18:40							WITH ALL HES PERSONNEL
Rig-Up Equipment	04/17/2013 18:45							1 ELITE HT 400 PUMP, 1 660 BULK TRUCK, 1 F-450 PICK-UP, 1 PLUG CONTAINER, 2" IRON TO STAND PIPE
Pre-Job Safety Meeting	04/17/2013 19:15							WITH ALL HES PERSONNEL, RIG CREW AND CO REP
Start Job	04/17/2013 19:31							TD 950', TP 934', FC 891.15', SJ 42.85', OH 13.5", SURFACE CASING 9.625" 32.3# H-40.
Pump Water	04/17/2013 19:31		2	2			29.0	FRESH H2O, TO PRIME LINES
Test Lines	04/17/2013 19:35		0.5	0.5				ALL LINES HELD PRESSURE AT 2563 PSI
Pump Spacer 1	04/17/2013 19:39		4	20			90.0	FRESH H2O
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl		Pressure psig		Comments

Sold To #: 300721

Ship To #: 2993189

Quote #:

Sales Order #: 900367602

SUMMIT Version: 7.3.0078

Wednesday, April 17, 2013 09:04:00

# HALLIBURTON

## Cementing Job Log

		#	Stage	Total	Tubing	Casing	
Pump Tail Cement	04/17/2013 19:45		8	94		360.0	250 SKS 12.8 PPG 2.11 FT3/SK 11.75 GAL/SK WEIGHED VERIFIED VIA MUD SCALES WET AND DRY SAMPLES SUBMITTED
Shutdown	04/17/2013 19:57						WASH UP ON TOP OF PLUG
Drop Top Plug	04/17/2013 20:01						VERIFY PLUG LAUNCHED
Pump Displacement	04/17/2013 20:02		10	60		506.0	H2O DISPLACEMENT
Slow Rate	04/17/2013 20:09		4	10		200.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	04/17/2013 20:13			70		829.0	BUMP PLUG HOLD 2 MINS
Check Floats	04/17/2013 20:15						FLOATS HOLDING, GOOD RETURNS THROUGHOUT JOB
End Job	04/17/2013 20:16						NO ADD HOURS OR DERRICK CHARGE. 100 LBS SUGAR USED, 10 BBLS OF CEMENT TO SURFACE, PIPE WAS NOT MOVED DURING THE JOB.
Pre-Rig Down Safety Meeting	04/17/2013 20:20						WITH ALL HES PERSONNEL
Rig-Down Equipment	04/17/2013 20:30						AREA FREE FROM DEBRIS
Pre-Convoy Safety Meeting	04/17/2013 21:20						WITH ALL HES PERSONNEL
Crew Leave Location	04/17/2013 21:30						THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. CHRIS SMITH AND CREW

Sold To # : 300721

Ship To # :2993189

Quote # :

Sales Order # : 900367602

SUMMIT Version: 7.3.0078

Wednesday, April 17, 2013 09:04:00

# HALLIBURTON

## Water Analysis Report

Company: WILLIAMS  
Submitted by: C.SMITH  
Attention: D.SCOTT  
Lease PA  
Well # 312-11

Date: 04.17.2013  
Date Rec.: \_\_\_\_\_  
S.O.# 900367602  
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	8	7
Potassium (K)	5000	250 Mg / L
Calcium (Ca)	500	350 Mg / L
Iron (FE2)	300	0 Mg / L
Chlorides (Cl)	3000	0 Mg / L
Sulfates (SO <sub>4</sub> )	1500	<200 Mg / L
Chlorine (Cl <sub>2</sub> )		0 Mg / L
Temp	40-80	45 Deg
Total Dissolved Solids		760 Mg / L

Respectfully: C.SMITH

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

<b>Sales Order #:</b> 900367602	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 4/17/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> AL DUNIHO		<b>API / UWI: (leave blank if unknown)</b> AFEYKETLVHKM1UI5AAA
<b>Well Name:</b> PA		<b>Well Number:</b> 312-11
<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> <del>Weld</del> 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	4/17/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHRISTOPHER SMITH (HB20137)
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 MENI

CUSTOMER SIGNATURE

<b>Sales Order #:</b> 900367602	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 4/17/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> AL DUNIHO		<b>API / UWI: (leave blank if unknown)</b> AFEYKETLVHKM1UI5AAA
<b>Well Name:</b> PA		<b>Well Number:</b> 312-11
<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> Weld <b>CARFIELD</b>

## KEY PERFORMANCE INDICATORS

### General

**Survey Conducted Date** 4/17/2013  
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)** 2  
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** 7  
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