

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 313-2

AZTEC/1000

Post Job Summary

Cement Surface Casing

Date Prepared: 03/30/2014

Submitted by: Grand Junction Cement Engineering

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3191544	Quote #:	Sales Order #: 0901161409
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: FRANK MOORE	
Well Name: WPX ENERGY	Well #: PA 313-2	API/UWI #: 05-045-22142-00	
Field: PARACHUTE	City (SAP): PAR	County/Parish: GARFIELD	State: COLORADO
Legal Description: NE SW-2-7S-95W-2047FSL-1549FWL			
Contractor:		Rig/Platform Name/Num: Aztec 1000	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: Eric Carter	
Job			

Formation Name			
Formation Depth (MD)	Top	0 FT.	Bottom 1140 FT.
Form Type	BHST		
Job depth MD	1122ft	Job Depth TVD	
Water Depth			Wk Ht Above Floor 5 FT.
Perforation Depth (MD)	From		To

Well Data										
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing		9.625	9.001	32.3		H-40	0	1122		0
Open Hole Section			13.5				0	1140		1140

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625			1097		Top Plug	9.625	1	HES
Float Shoe	9.625					Bottom Plug	9.625		HES
Float Collar	9.625					SSR plug set	9.625		HES
Insert Float	9.625					Plug Container	9.625	1	HES
Stage Tool	9.625					Centralizers	9.625		HES

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

Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water Spacer	Fresh Water Spacer	7	bbl	8.33			4		

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	Lead Cement	VARICEM (TM) CEMENT	120	Sack/Ton	12.3	2.38		8	13.75
13.77 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VARICEM Tail	VARICEM (TM) SYSTEM		Sack/Ton	12.8	2.11		8	11.75
11.77 Gal		FRESH WATER							
94 lbm		TYPE I / II CEMENT, BULK (101439798)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Displacement	Displacement	85.6	bbl	8.3			10	
Cement Left In Pipe		Amount	43.78 ft		Reason		Shoe Joint		
Comment									



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3.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comment
Event	1	Arrive at Location from Other Job or Site	Arrive at Location from Other Job or Site	3/3/2014	06:30:00	USER					RIG RUNNING CASING
Event	2	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	3/3/2014	10:15:00	USER					ATTENDED BY ALL HES CREW
Event	3	Other	Other	3/3/2014	10:20:00	USER					SPOT EQUIPMENT
Event	4	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	3/3/2014	10:25:00	USER					ATTENDED BY ALL HES CREW
Event	5	Rig-Up Equipment	Rig-Up Equipment	3/3/2014	10:30:00	USER					
Event	6	Pre-Job Safety Meeting	Pre-Job Safety Meeting	3/3/2014	11:15:00	USER					ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP
Event	7	Start Job	Start Job	3/3/2014	11:43:00	USER					TP 1097.42', TD 1140', SJ 43.78', L 34', MW 10.5 PPG, CASING 9.625", 32.3#, H-40, HOLE 13.5", 12 CENTRALIZERS, RIG CIRCULATED FOR 2 HRS PRIOR TO JOB
Event	8	Other	Other	3/3/2014	11:43:39	USER	40	8.33	2	7	FILL LINES
Event	9	Test Lines	Test Lines	3/3/2014	11:47:47	USER					PRESSURED UP TO 3767 PSI, PRESSURE HELD
Event	10	Pump Spacer	Pump Spacer	3/3/2014	11:51:59	USER	100	8.33	4	20	FRESH WATER
Event	11	Pump Lead Cement	Pump Lead Cement	3/3/2014	11:57:23	USER	300	12.3	8	50.9	120 SKS VARICEM MIXED AT 12.3 PPG, 2.38 YIELD, 13.75 GL/SK
Event	12	Pump Tail Cement	Pump Tail Cement	3/3/2014	12:04:14	USER	280	12.8	8	65.8	175 SKS VARICEM MIXED AT 12.8 PPG, 2.11 YIELD, 11.75 GL/SK
Event	13	Shutdown	Shutdown	3/3/2014	12:13:01	USER					
Event	14	Drop Top Plug	Drop Top Plug	3/3/2014	12:13:46	USER					PLUG LAUNCHED
Event	15	Pump Displacement	Pump Displacement	3/3/2014	12:13:57	USER	500	8.33	10	75.6	FRESH WATER

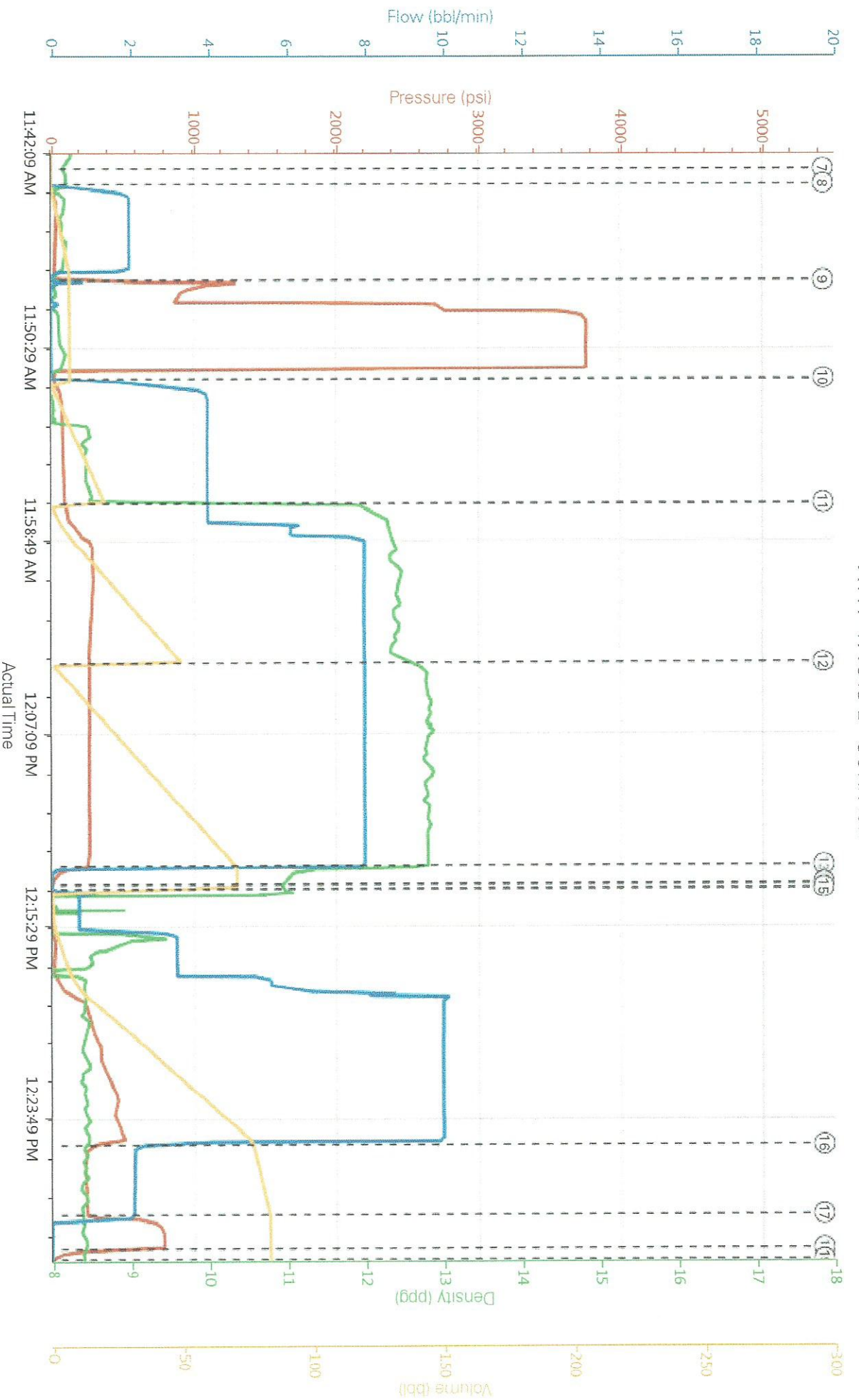
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Event	16	Slow Rate	Slow Rate	3/3/2014	12:25:06	USER	265	8.33	2	10	
Event	17	Bump Plug	Bump Plug	3/3/2014	12:28:05	USER	790				PLUG LANDED
Event	18	Check Floats	Check Floats	3/3/2014	12:29:32	USER					FLOATS HELD
Event	19	End Job	End Job	3/3/2014	12:30:00	USER					GOOD CIRCULATION THROUGH OUT JOB, PIPE NOT MOVED DURING JOB, 15 BBLS CEMENT TO SURFACE
Event	20	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	3/3/2014	12:35:00	USER					ATTENDED BY ALL HES CREW
Event	21	Rig-Down Equipment	Rig-Down Equipment	3/3/2014	12:40:00	USER					
Event	22	Depart Location Safety Meeting	Depart Location Safety Meeting	3/3/2014	13:20:00	USER					ATTENDED BY ALL HES CREW
Event	23	Crew Leave Location	Crew Leave Location	3/3/2014	13:30:00	USER					THANK YOU FOR USING HALLBURTON CEMENT, ERIC CARTER AND CREW.

WPX - PA 313-2 - SURFACE



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Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-

Job Date : 3/3/2014 11:10:29 AM

Well : PA 313-2

EBUS

Representative : FRANK MOORE

Sales Order # : 901161409

ERIC CARTER : ANDREW LINN/ELITE 2

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Water Analysis Report

Company: WPX
Submitted by: ERIC CARTER
Attention: J.Trout
Lease: AZTEC 1000
Well #: PA 313-2

Date: 3/3/2014
Date Rec.: 3/3/2014
S.O.#: 901161409
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>400</i> Mg / L
Hardness	<i>500</i>	<i>120</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>500</i> Mg / L
Sulfates (SO ₄)	<i>1500</i>	<i><200</i> Mg / L
Temp	<i>40-80</i>	<i>45</i> Deg
Total Dissolved Solids		<i>600</i> Mg / L

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 #: 0901161409	Line Item: 10	Survey Conducted Date: 3/3/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: FRANK MOORE		API / UWI: (leave blank if unknown) 05-045-22142-00
Well Name: WPX ENERGY		Well Number: 0080226540
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	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	3/3/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	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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Customer Representative: FRANK MOORE		API / UWI: (leave blank if unknown) 05-045-22142-00
Well Name: WPX ENERGY		Well Number: 0080226540
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	3/3/2014

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.	Deviated
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: WPX ENERGY		Well Number: 0080226540
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	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