

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 23-6

Nabors 574

Post Job Summary

Cement Surface Casing

Date Prepared: 04/25/2014

Submitted by: Grand Junction Cement Engineering

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3207604	Quote #:	Sales Order #: 0901285323
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Vearl Tucker	
Well Name: PA	Well #: 23-6	API/UWI #: 05-045-22229-00	
Field: PARACHUTE	City (SAP): PAR	County/Parish: GARFIELD	State: COLORADO
Legal Description: 6-7S-95W-746FSL-749FWL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 574	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HAL7171		Srvc Supervisor: Edward Deussen	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	1208ft		Job Depth TVD
Water Depth			Wk Ht Above Floor
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
Open Hole Section			13.5				0	1208		0
Casing		9.625	9.001	32.3			0	1208		0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe				1208	Top Plug	9.625	1	HES
Float Shoe					Bottom Plug			HES
Float Collar					SSR plug set			HES
Insert Float					Plug Container	9.625	1	HES
Stage Tool					Centralizers			HES

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 ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water Spacer	Fresh Water Spacer	20	bbl	8.34			4.0		
Stage/Plug #: 2										
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	145	sack	12.3	2.38		7.0	13.77	

13.70 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	Tail Cement	VARICEM (TM) CEMENT	165	sack	12.8	2.11		7.0	11.77
11.71 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	91.4	bbl	8.34			10.0	
Cement Left In Pipe	Amount	46 ft		Reason	Shoe Joint				
Comment									

Summary Report



Sales Order #: 0901285323
WO #: 0901285323
PO/AFE #: N/A

Crew: _____

Job Start Date: 4/21/2014

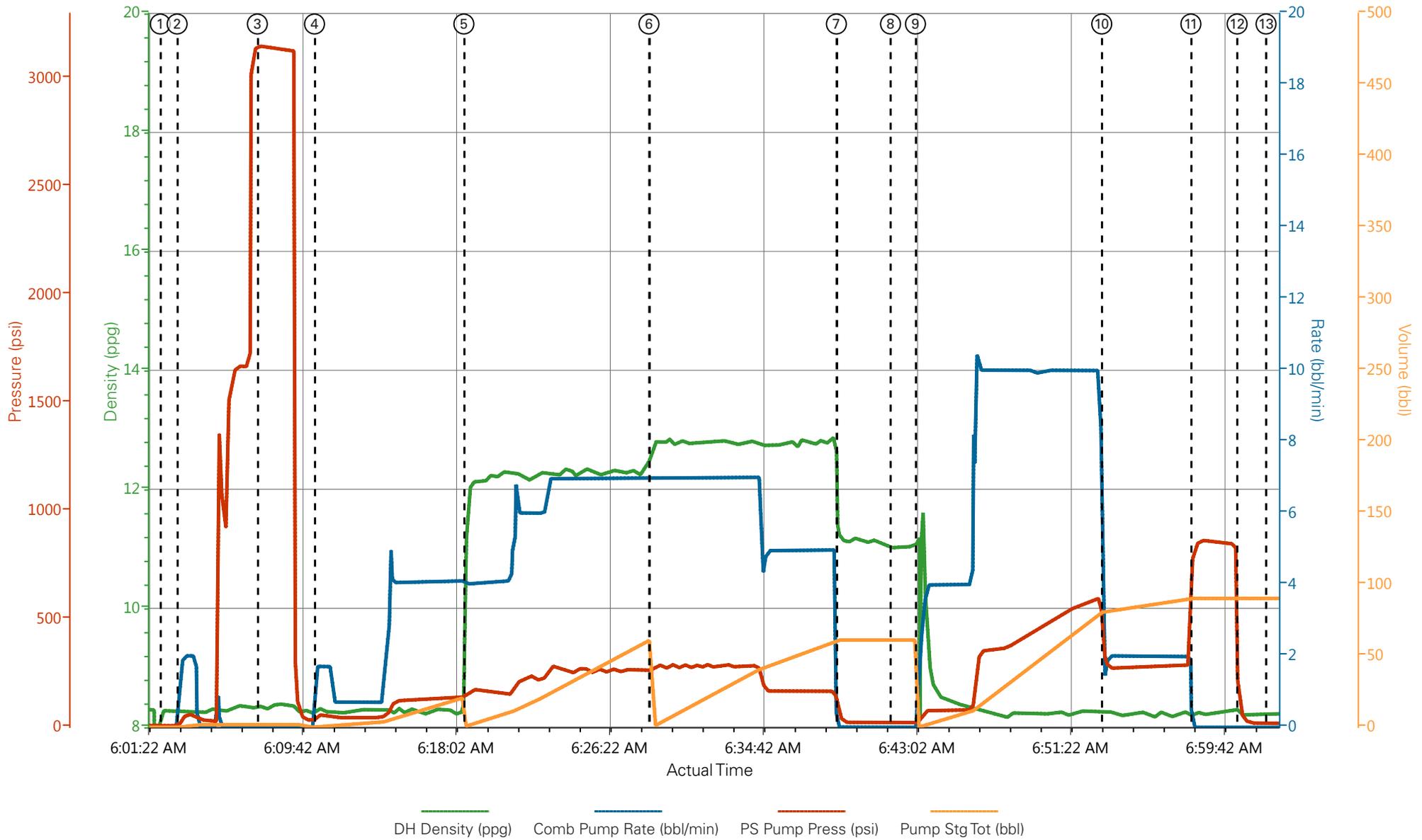
Customer:	WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Field:	PARACHUTE	Job Type:	CMT SURFACE CASING BOM
UWI / API Number:	05-045-22229-00	County/Parish:	GARFIELD	Service Supervisor:	Edward Deussen
Well Name:	PA	State:	COLORADO		
Well No:	23-6	Latitude:	39.461816	Cust Rep Name:	Veart Tucker
		Longitude:	-108.046604	Cust Rep Phone #:	
		Sect / Twn / Rng:	6/7/95		

Remarks:		
The Information Stated Herein Is Correct	Customer Representative Signature	Date
	Customer Representative Printed Name	
	<i>Veart Tucker</i>	4/21/14
	Veart Tucker	

3.1 Job Event Log

Type	Seq. No.	Graph Label/Activity	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Pre-Job Safety Meeting	4/21/2014	05:45:00	USER					O/L/ Time 0000
Event	2	Start Job	4/21/2014	06:02:10	COM5					TP 1208', SJ 1162', Mud 9.7 ppg, 13 1/2" OH, 9 5/8" 32.3 lb H-40 csg
Event	3	Prime Lines	4/21/2014	06:03:04	USER	8.27	2.0	60	2.0	
Event	4	Test Lines	4/21/2014	06:07:25	COM5			3150.00		Pressure Held Well
Event	5	Pump H2O Spacer	4/21/2014	06:10:31	COM5	8.32	4.0	138	20.0	Fresh Water
Event	6	Pump Lead Cement	4/21/2014	06:18:37	COM5	12.3	7.0	275	61.6	145 sks, 12.3 ppg, 2.38 yield, 13.77 gal/sk
Event	7	Pump Tail Cement	4/21/2014	06:28:40	COM5	12.8	7.0	295	62.0	165 sks, 12.8 ppg, 2.11 yield, 11.77 gal/sk
Event	8	Shutdown/Wash Up	4/21/2014	06:38:49	USER					Wash up on top of plug
Event	9	Drop Top Plug	4/21/2014	06:41:45	USER					
Event	10	Pump Displacement	4/21/2014	06:43:07	COM5	8.35	10.0	601	91.4	Fresh Water
Event	11	Slow Rate	4/21/2014	06:53:13	USER	8.25	2.0	270	10.0	Good returns throughout job
Event	12	Bump Plug	4/21/2014	06:58:03	USER			288		30 bbls cement to surface
Event	13	Check Floats	4/21/2014	07:00:33	USER			855		Floats held - 1/2 bbl flowback
Event	14	End Job	4/21/2014	07:02:07	COM5					40 lbs sugar, no add hours
Event	15	Pre-Rig Down Safety Meeting	4/21/2014	07:15:00	USER	8.17	1.80	34.00	97.0	
Event	16	Rig-Up Equipment	4/21/2014	07:30:00	USER					
Event	17	Pre-Convoy Safety Meeting	4/21/2014	08:30:00	USER					
Event	18	Crew Leave Location	4/21/2014	08:45:00	USER					Thank you for using Halliburton

WPX - PA 23-6 - 9 5/8" SURFACE



- ① Start Job 8.27;0;7;0
- ② Prime Lines 8.22;1.2;19;0.1
- ③ Test Lines 8.37;0;3150;1.8
- ④ Pump H2O Spacer 8.32;1.7;58;0.4
- ⑤ Pump Lead Cement 11.36;4;156;1.1
- ⑥ Pump Tail Cement 12.6;7;258;0.1
- ⑦ Shutdown/Wash Up 11.21;0;52;61.1
- ⑧ Drop Top Plug 11.05;0;19;61.1
- ⑨ Pump Displacement 11.05;1.8;22;0
- ⑩ Slow Rate 8.26;1.5;320;81.2
- ⑪ Bump Plug 8.21;0;818;90.3
- ⑫ Check Floats 8.2;0;81;90.3
- ⑬ End Job 8.22;0;17;90.3

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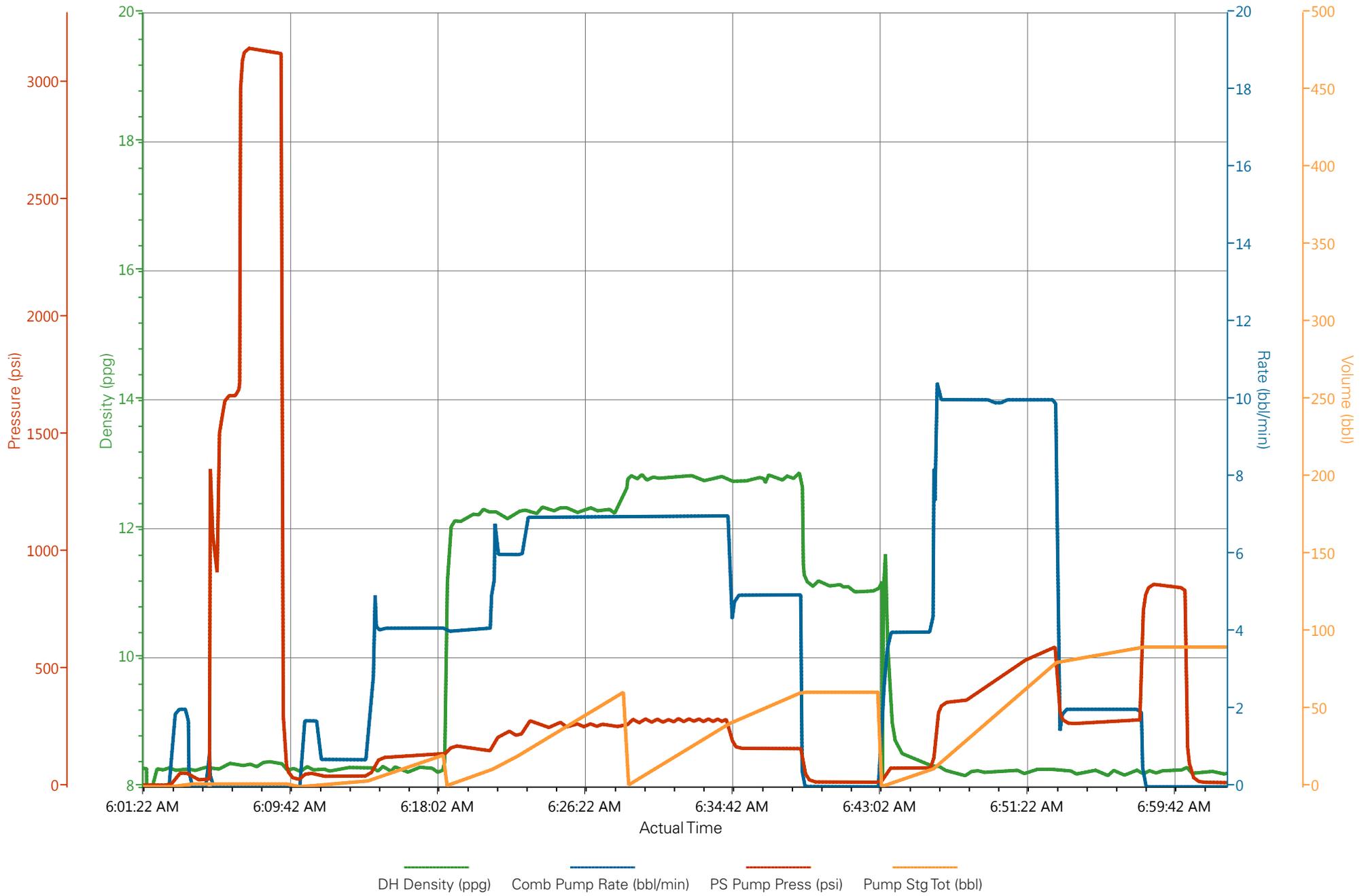
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Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS
 Representative: Vearl Tucker

Job Date: 4/21/2014 4:29:37 AM
 Sales Order #: 901285323

Well: PA 23-6
 Elite #3: Ed Deussen / Rob Eickhoff

WPX - PA 23-6 - 9 5/8" SURFACE



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

HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: ED DEUSSEN
Attention: J.TROUT
Lease: PA
Well #: 23-6

Date: 4/20/2014
Date Rec.: 4/20/2014
S.O.#: 901285323
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	6.5
Potassium (K)	<i>5000</i>	200 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
Temp	<i>40-80</i>	54 Deg
Total Dissolved Solids		210 Mg / L

Respectfully: ED DEUSSEN

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 #: 0901285323	Line Item: 10	Survey Conducted Date: 4/21/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: VEARL TUCKER		API / UWI: (leave blank if unknown) 05-045-22229-00
Well Name: PA		Well Number: 0080244865
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	4/21/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB57194
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	VEARL TUCKER
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: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	4/21/2014
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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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	99
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