

WPX Energy Rocky Mountain LLC - EBUS

RGU 333-23-198

Aztec 1000

Post Job Summary

Cement 2-Stage Surface Casing

Date Prepared: 12/27/2014

Job Date: 12/12/2014

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3560620	Quote #:	Sales Order #: 0901917237
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: BRANDON HARRIE	
Well Name: FEDERAL	Well #: RGU 333-23-198	API/UWI #: 05-103-12143-00	
Field: SULPHUR CREEK	City (SAP): MEEKER	County/Parish: RIO BLANCO	State: COLORADO
Legal Description: SE SE-23-1S-98W-1050FSL-635FEL			
Contractor: AZTEC DRLG		Rig/Platform Name/Num: AZTEC 1000	
Job BOM: 392189			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: Craig Kukus	
Job			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	4045ft Job Depth TVD 4035 FT
Water Depth	Wk Ht Above Floor 4
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			14.75				0	1800		
Casing		9.625	8.921	36			0	4035		0
Open Hole Section			13.5				1800	4045		0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make	
Guide Shoe	9.625	1		4035	Top Plug	9.625		HES	
Float Shoe	9.625				Bottom Plug	9.625		HES	
Float Collar	9.625	1			SSR plug set	9.625	1	WF	
Insert Float	9.625				Plug Container	9.625	1	HES	
Stage Tool	9.625	1		1749	Centralizers	9.625		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	Fresh Water	50	barrel	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	VersaCem GJ1	VERSACEM (TM) SYSTEM	735	sack	12.8	1.77		8	9.31	

9.33 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	VariCem GJ1	VARICEM (TM) CEMENT	240	sack	12.8	2.11		8	11.77
11.71 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	308	bbl	8.3			13 / 2	
Cement Left In Pipe	Amount	46 ft			Reason			Shoe Joint	
Fluid Data									
Stage/Plug #: 2									
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
1	Fresh Water	Fresh Water	30	bbl	8.3			4	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
2	VariCem GJ5	VARICEM (TM) CEMENT	875	sack	12.8	2.18		8	12.11
12.05 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	Fresh Water Displacement	Fresh Water Displacement	135	bbl	8.3			10 / 2	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
4	Halcem	HALCEM (TM) SYSTEM	0	sack	15.6	1.21		0	5.4
5.22 Gal		FRESH WATER							
Cement Left In Pipe	Amount	46 ft			Reason			Shoe Joint	

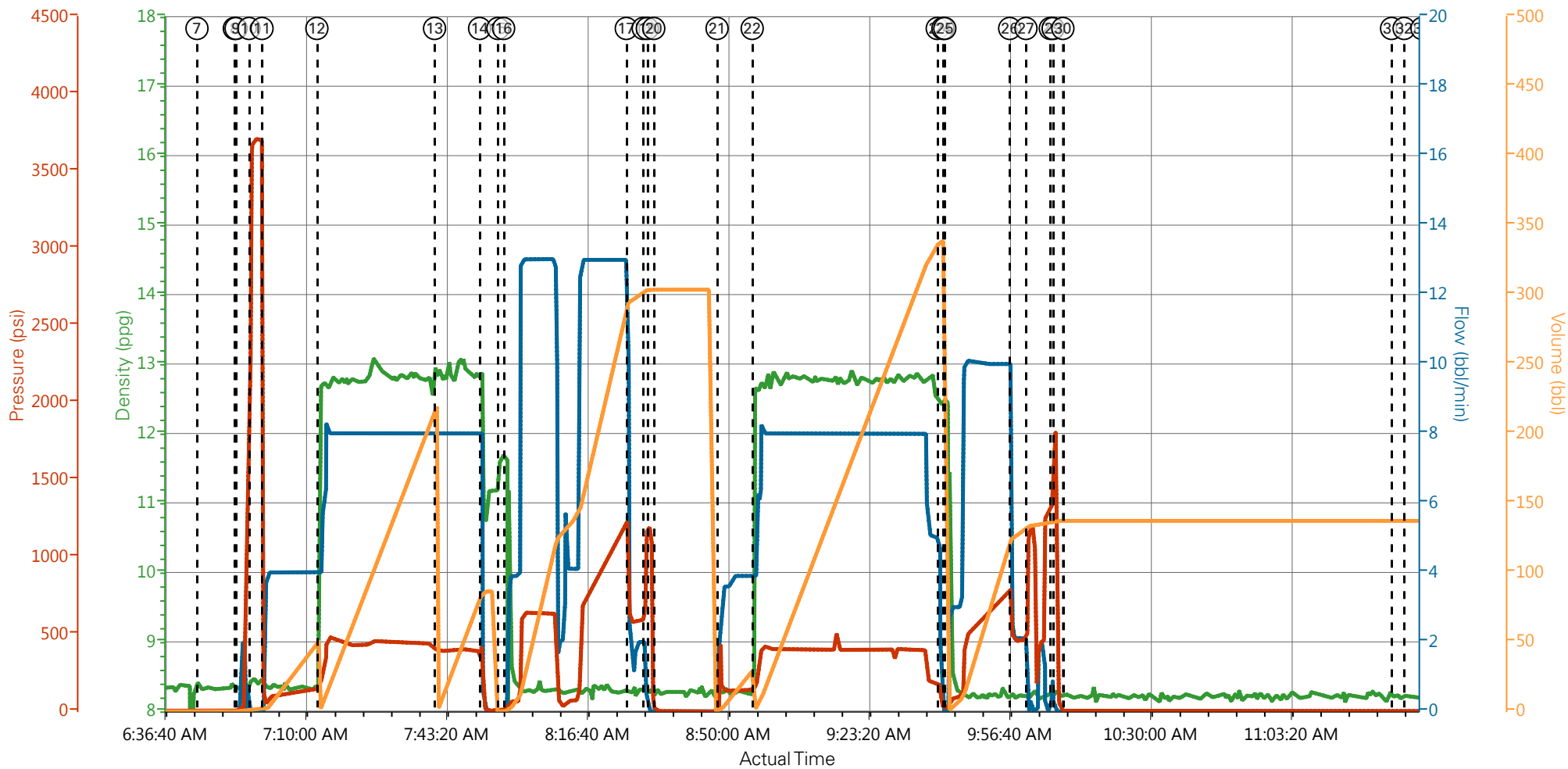
3.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	12/11/2014	15:00:00	USER					CREW CALL OUT
Event	2	Depart from Service Center or Other Site	12/11/2014	18:00:00	USER					PRE-DEPART SAFETY MEETING ALL HES CREW PRESENT
Event	3	Arrive At Loc	12/11/2014	21:30:00	USER					ARRIVE EARLY ON LOC RIG SETTING UP TO RUN CSG / HES EQUIPMENT ON LOC 1 EA CEMENT PUMP UNIT 2 EA 660 BULK UNITS 1 EA SERVICE PICK UP UNIT 2 EA CEMENT SILOS
Event	4	Pre-Rig Up Safety Meeting	12/12/2014	02:30:00	USER					PRE-RIG UP SAFETY ALL HES CREW PRESENT
Event	5	Rig-Up Equipment	12/12/2014	02:35:00	USER					RIG UP IRON TO STAND PIPE / RIG UP SUCTION HOSES TO FRESH WATER UP RIGHTS / RIG UP BULK EQUIP
Event	6	Rig-Up Completed	12/12/2014	03:30:00	USER	8.35	0.00	1.00	0.0	RIG UP COMPLETED / RIG CIRCULATING WELL
Event	7	Pre-Job Safety Meeting	12/12/2014	06:45:00	USER	8.30	0.00	4.00	0.0	PRE-JOB SAFETY MEETING ALL RIG PERSONEL AND HES CREW PRESENT
Event	8	Start Job	12/12/2014	06:53:50	COM6	8.34	0.00	4.00	0.0	START JOB : TD 4045 FT TP 4035 FT SJT 45.07 FT OH 14 3/4 IN 0-1709 FT 13.5 IN 1709-4045 FT CSG 9 5/8 IN 36# DV TOOL SET 1749 FT
Event	9	Prime Pumps	12/12/2014	06:54:15	USER	8.32	0.00	11.00	2.0	PRIME LINES WITH FRESH WATER
Event	10	Test Lines	12/12/2014	06:57:18	COM6	8.47	0.00	3698.00	0.1	PRESSURE TEST LINES 5TH GEAR STALL OUT AT 2170 PSI TEST TO 3500 PSI
Event	11	Pump Spacer 1	12/12/2014	07:00:24	COM6	8.35	3.10	32.00	50	PUMP 50 BBLs H2O AHEAD
Event	12	Pump Lead Cement	12/12/2014	07:13:22	COM6	12.65	4.00	202.00	232	PUMP 735 SKS 1 ST LEAD CEMENT AT 12.8 PPG 1.77 Y 9.31 GAL/SKS RETURNS GOOD AND CMT DIP GOOD / USE 4 BOXES TUFF FIBER
Event	13	Pump Tail Cement	12/12/2014	07:41:14	COM6	12.87	8.00	397.00	90	PUMP 1ST TAIL 240 SKS AT 12.8 PPG 2.11 Y 11.77 GAL/SKS RETURNS GOOD CMT DIP GOOD

Event	14	Shutdown	12/12/2014	07:51:54	USER	10.89	0.00	95.00	374.1	SHUT DOWN END CEMENT / READY TUB TO WASH UP ON TOP
Event	15	Drop Top Plug	12/12/2014	07:56:14	COM6	11.75	0.00	9.00	0.0	DROP FLOPPY PLUG / PLUG AWAY
Event	16	Pump Displacement	12/12/2014	07:57:35	COM6	11.63	1.60	12.00	308.4	PUMP H2O DISPLACEMENT
Event	17	Slow Rate	12/12/2014	08:26:37	USER	8.27	2.20	603.00	296.3	SLOW RATE LAST 15 BBLS
Event	18	Bump Plug	12/12/2014	08:30:38	COM6	8.29	0.00	1176.00	308.5	PLUG LANDED AT 690 PSI BUMP TO 1170 PSI
Event	19	Check Floats	12/12/2014	08:31:36	USER	8.33	0.00	1192.00	308.5	CHECK FLOATS / GOT BACK 1.5 BBLS TO TANKS
Event	20	Drop Opening Device For Multiple Stage Cementer	12/12/2014	08:33:07	USER	8.32	0.00	1.00	0	DROP OPENING DEVICE
Event	21	Open Multiple Stage Cementer	12/12/2014	08:48:07	COM6	8.34	2.00	223.00	30	OPEN TOOL AT 400 PSI
Event	22	Pump Lead Cement	12/12/2014	08:56:26	COM6	12.69	3.90	191.00	339.7	PUMP 875 SKS 2ND LEAD AT 12.8 PPG 2.18 Y 12.11 GAL/SKS HAVE RETURNS CEMENT DIP GOOD USE 3 BOXES TUFF FIBER
Event	23	Shutdown	12/12/2014	09:40:14	USER	12.37	0.00	67.00	339.7	SHUT DOWN END CEMENT / READY TUB TO WASH UP ON TOP
Event	24	Drop Top Plug	12/12/2014	09:41:35	COM6	12.43	0.00	22.00	0.0	DROP TOP PLUG / PLUG AWAY
Event	25	Pump Displacement	12/12/2014	09:42:02	COM6	12.38	1.60	26.00	135.2	PUMP H2O DISPLACEMENT / 25 AWAY CEMENT TO SURFACE
Event	26	Slow Rate	12/12/2014	09:57:23	USER	8.23	2.10	459.00	126.3	SLOW RATE TO 2 BBL MIN LAST 10 BBLS
Event	27	Close Multiple Stage Cementer	12/12/2014	10:01:15	COM6	8.20	0.00	1172.00	135.2	BUMP PLUG AND CLOSE TOOL
Event	28	Bump Plug	12/12/2014	10:07:00	USER	8.25	0.00	1789.00	137.1	CHECK FLOATS GOT 3 BBLS BACK RE-BUMP TO 1817 PSI
Event	29	Check Floats	12/12/2014	10:07:40	USER	8.28	0.00	1809.00	137.1	CHECK FLOATS / GOT BACK 1 BBL TO TANKS
Event	30	Wait on Cement	12/12/2014	10:09:59	USER	8.23	0.00	1.00	847.8	WOC ON CEMENT 1HRS
Event	31	End Job	12/12/2014	11:27:48	COM6					END JOB / HAD RETURNS THRU OUT THE JOB / NO 1 ST STAGE CEMENT BACK TO SURFACE / GOT 130 BBLS 2ND STAGE CEMENT TO SURFACE
Event	32	Pre-Rig Down Safety Meeting	12/12/2014	11:30:45	USER	8.28	0.00	2.00	0	PRE-RIG DOWN SAFETY MEETING ALL HES CREW PRESENT

Event	33	Rig-Down Equipment	12/12/2014	11:35:00	USER	8.17	0.00	1.00	0	RIG FLOOR DOWN AND GROUND IRON WASH UP PUMP TO PIT
Event	34	Depart Location Safety Meeting	12/12/2014	12:25:00	USER					DEPART LOC SAFETY MEETING ALL HES CREW PRESENT
Event	35	Comment	12/12/2014	12:30:00	USER					THANK YOU FOR USING HALLIBURTON CEMENTING SERVICES AND THE CREW OF CRAIG KUKUS

WPX ENERGY ROCKY MOUNTAIN AZTEC 1000 CEMENT 2 STAGE SURFACE CSG



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

- | | | | | |
|--|--------------------|---------------------------------|----------------------------------|-----------------------------------|
| ① Call Out | ⑧ Start Job | ⑮ Drop Top Plug | 22 Pump 2ND Lead Cement | 29 Check Floats |
| ② Depart from Service Center or Other Site | ⑨ Prime Pumps | ⑯ Pump Displacement | 23 Shutdown | 30 Wait on Cement |
| ③ Arrive At Loc | ⑩ Test Lines | ⑰ Slow Rate | 24 Drop Top Plug | 31 End Job |
| ④ Pre-Rig Up Safety Meeting | ⑪ Pump Spacer 1 | ⑱ Bump Plug | 25 Pump Displacement | 32 Pre-Rig Down Safety Meeting |
| ⑤ Rig-Up Equipment | ⑫ Pump Lead Cement | ⑲ Check Floats | 26 Slow Rate | 33 Rig-Down Equipment |
| ⑥ Rig-Up Completed | ⑬ Pump Tail Cement | 20 Drop Opening Device | 27 Close Multiple Stage Cementer | 34 Depart Location Safety Meeting |
| ⑦ Pre-Job Safety Meeting | ⑭ Shutdown | 21 Open Multiple Stage Cementer | 28 Bump Plug | 35 Comment |

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Created: 2014-12-12 01:50:10, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 12/12/2014 3:04:19 AM

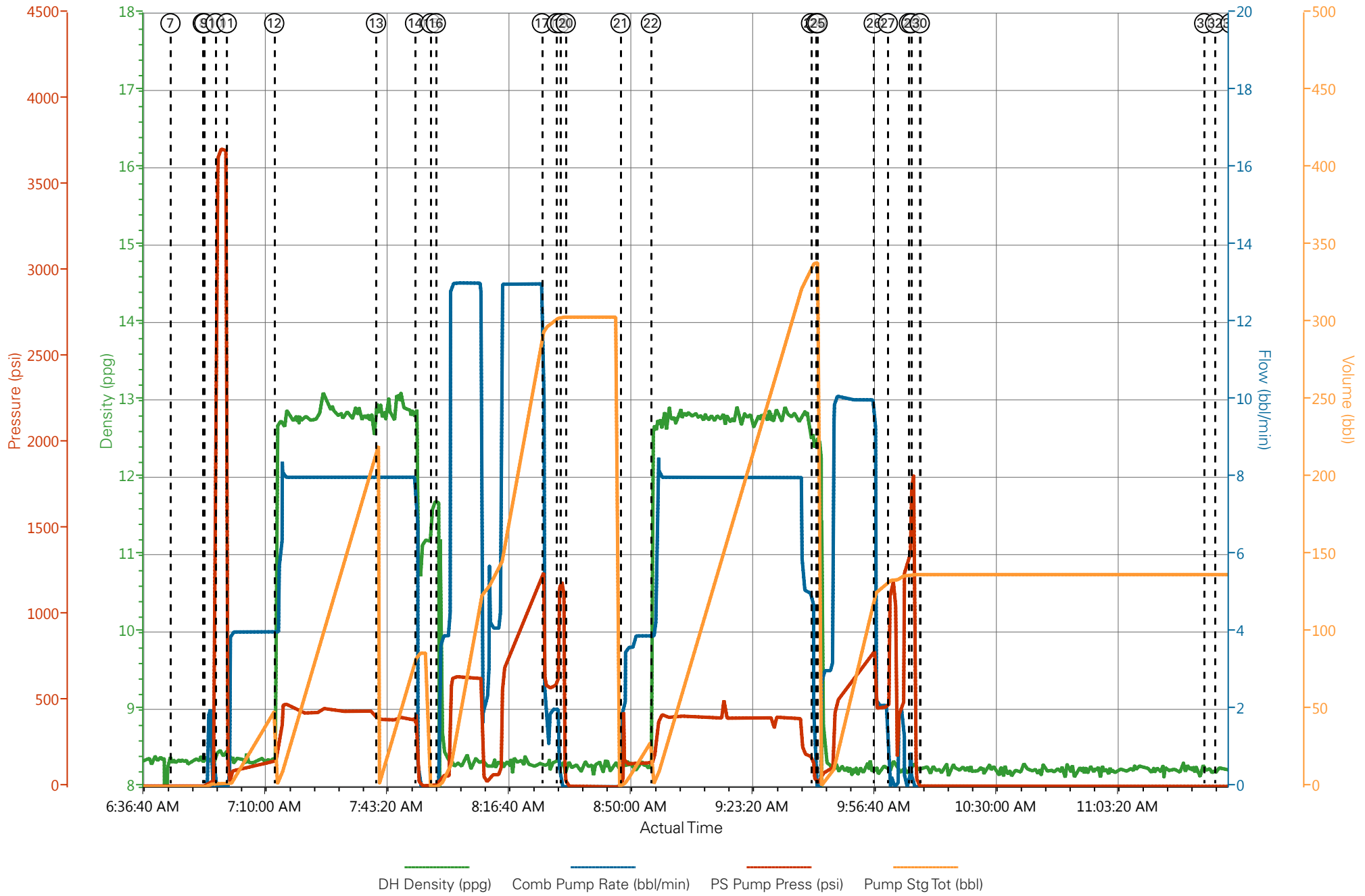
Well: 333-23-198

Representative: CRAIG KUKUS

Sales Order #: 0901917237

ELITE 6 / OPERATOR: ROGER LAULAINEN

WPX ENERGY ROCKY MOUNTAIN AZTEC 1000 CEMENT 2 STAGE SURFACE CSG



HALLIBURTON

Water Analysis Report

Company: WPX ENERGY

Date: 12/12/2014

Submitted by: CRAIG KUKUS

Date Rec.: 12/12/2014

Attention: _____

S.O.# 901917237

Lease FEDERAL

Job Type: 2 STAGE SURFACE

Well # RGU 333-23-198

Specific Gravity	<i>MAX</i>	0
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	200 Mg / L
HARDNESS	<i>500</i>	425 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>	58 Deg
Total Dissolved Solids		450 Mg / L

Respectfully: CRAIG KUKUS

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 #: 0901917237	Line Item: 10	Survey Conducted Date: 12/12/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT MULTIPLE STAGES BOM
Customer Representative: JOSH GERBAY		API / UWI: (leave blank if unknown) 05-103-12143-00
Well Name: FEDERAL		Well Number: 0080641183
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: RIO BLANCO

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	12/12/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX19742
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	JOSH GERBAY
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

Sales Order #: 0901917237	Line Item: 10	Survey Conducted Date: 12/12/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT MULTIPLE STAGES BOM
Customer Representative: JOSH GERBAY		API / UWI: (leave blank if unknown) 05-103-12143-00
Well Name: FEDERAL		Well Number: 0080641183
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: RIO BLANCO

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	12/12/2014
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)	6
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)	4.5
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	6
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

Sales Order #: 0901917237	Line Item: 10	Survey Conducted Date: 12/12/2014
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Customer Representative: JOSH GERBAY		API / UWI: (leave blank if unknown) 05-103-12143-00
Well Name: FEDERAL		Well Number: 0080641183
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: RIO BLANCO

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?	Both
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