

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RGU 31-26-198

Aztec 1000

Post Job Summary

Cement Production Casing

Date Prepared: 9/15/2014

Job Date: 9/12/2014

Submitted by: Tony Eschete - Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3124449	Quote #: 0021914114	Sales Order #: 0901631560
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: JOSH GARIBAY		
Well Name: FEDERAL	Well #: RGU 31-26-198	API/UWI #: 05-103-11974-00	
Field: SULPHUR CREEK	City (SAP): MEEKER	County/Parish: RIO BLANCO	State: COLORADO
Legal Description: 23-1S-98W-1025FSL-663FEL			
Contractor: AZTEC WELL	Rig/Platform Name/Num: AZTEC 1000		
Job BOM: 7523			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180	Srv Supervisor: Craig Kukus		
Job			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	12735ft Job Depth TVD 12734.99
Water Depth	Wk Ht Above Floor 4 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	8.921	36			0	3934		
Casing		4.5	4	11.6			0	12735		0
Open Hole Section			8.75				3934	9000		
Open Hole Section			7.875				9000	12737		0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	4.5	1		12735	Top Plug	4.5	1	OTHER
Float Shoe	4.5				Bottom Plug	4.5		HES
Float Collar	4.5	1			SSR plug set	4.5		HES
Insert Float	4.5				Plug Container	4.5	1	HES
Stage Tool	4.5				Centralizers	4.5		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	100	bbl	8.3			7		
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	Scanger	EXTENDACEM (TM) SYSTEM	665	sack	11	2.75		8	16.11
16.11 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	EconoCem Lead	ECONOCCEM (TM) SYSTEM	335	sack	12.7	1.91		8	10.13
10.27 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	ThermaCem Tail	THERMACEM (TM) SYSTEM	780	sack	13.5	1.75		8	8.24
8.32 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
5	Displacement	Displacement	197	bbl	8.34			10	
Cement Left In Pipe		Amount	45.54 ft		Reason		Shoe Joint		
Comment NO RETURNS THRU OUT DISPLACEMENT LIFT 2500 PSI LAND PLUG 1930 PSI BUMP 2830 PSI									

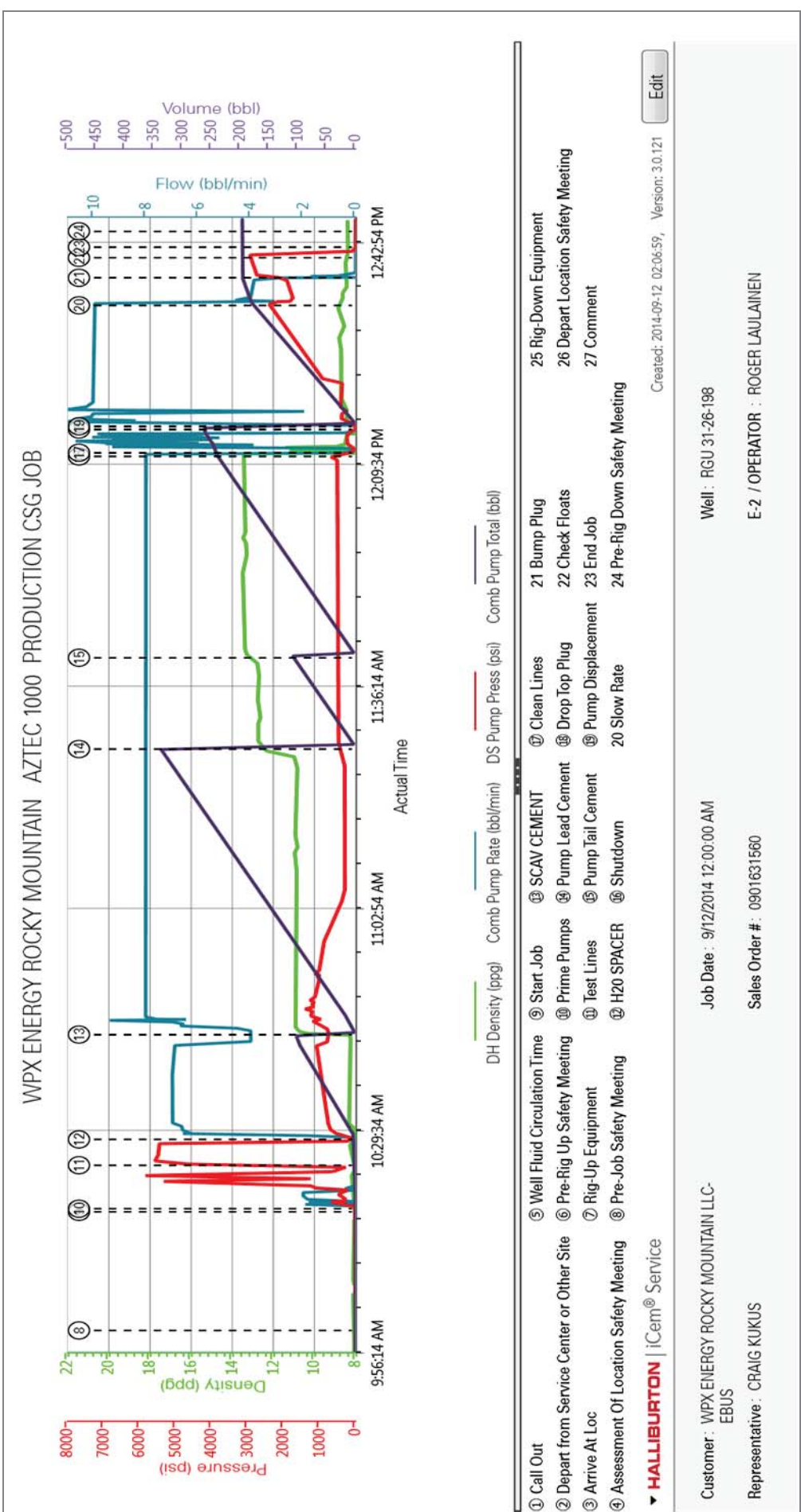
3.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Comb Pump Total (bbl)	Comment
Event	1	Call Out	9/11/2014	19:00:00	USER					CREW CALL OUT
Event	2	Depart from Service Center or Other Site	9/11/2014	21:30:00	USER					ALL HES CREW PRESENT
Event	3	Arrive At Loc	9/12/2014	01:00:00	USER					ARRIVE EARLY RIG RUNNING CSG / HES EQUIPMENT ON LOC 2 EA SILO'S - 1 EA CEMENT PUMP - 2 EA 660 BULK TRUCKS - 1 EA SERVICE PICK UP - 1 EA BAIL BASKET - 1 EA QUICK LATCH / CEMENT HEAD
Event	4	Assessment Of Location Safety Meeting	9/12/2014	01:10:00	USER					ASSESMENT WALK THRU OF LOC
Event	5	Well Fluid Circulation Time	9/12/2014	07:13:00	USER					RIG CIRCULATE WELL
Event	6	Pre-Rig Up Safety Meeting	9/12/2014	08:00:00	USER					ALL HES CREW PRESENT FOR SAFETY MEETING
Event	7	Rig-Up Equipment	9/12/2014	08:10:00	USER					RIG UP IRON TO RED ZONE AND STAND PIPES / RIG UP CLEAN UP LINE TO CHIP BOX / RIG UP SUCTION HOSES TO FRESH WATER
Event	8	Pre-Job Safety Meeting	9/12/2014	10:00:00	USER	8.10	0.00	2.00	0.0	ALL RIG PERSONEL AND HES PRESENT
Event	9	Start Job	9/12/2014	10:17:48	COM6	8.01	0.00	3.00	0.0	START JOB: TD 12737 FT TP 12734 FT SJT 45.54 FT OH 8 3/4 IN IN CSG 4.5 IN 11.6 # P-110 USE TOP PLUG LATCH DOWN SUPPLIED BY WPX
Event	10	Prime Pumps	9/12/2014	10:18:16	USER	8.06	0.00	19.00	3.0	PRIME LINES
Event	11	Test Lines	9/12/2014	10:24:48	COM6	8.21	0.00	5604.00	.2	PRESSURE TEST LINES 5TH GEAR STALL OUT AT 1300 PSI
Event	12	H2O SPACER	9/12/2014	10:28:40	COM6	8.03	1.60	141.00	100	PUMP 100 BBL H2O SPACER AHEAD / RETURNS GOOD
Event	13	SCAV CEMENT	9/12/2014	10:44:25	COM6	10.68	4.00	751.00	325	PUMP 665 SKS SCAV CEMENT AT 11.0 PPG 2.75 Y 16.11 GAL/SKS W- TUF FIBER FIRST 100 BBLs RETURNS GOOD
Event	14	Pump Lead Cement	9/12/2014	11:27:16	COM6	12.53	8.00	473.00	114	PUMP 335 SKS LEAD CEMENT AT 12.7 PPG 1.91 Y 10.13 GAL/SKS RETURNS GOOD / CEMENT DIP GOOD
Event	15	Pump Tail Cement	9/12/2014	11:40:59	COM6	13.31	8.00	521.00	243.1	PUMP 780 SKS TAIL CEMENT AT 13.5 PPG 1.75 Y 8.24 GAL/SKS / RETURNS GOOD AND CEMENT DIP GOOD
Event	16	Shutdown	9/12/2014	12:11:12	USER	13.43	8.10	387.00	671.3	SHUT DOWN END CEMENT / SWAP LINES TO WASH UP

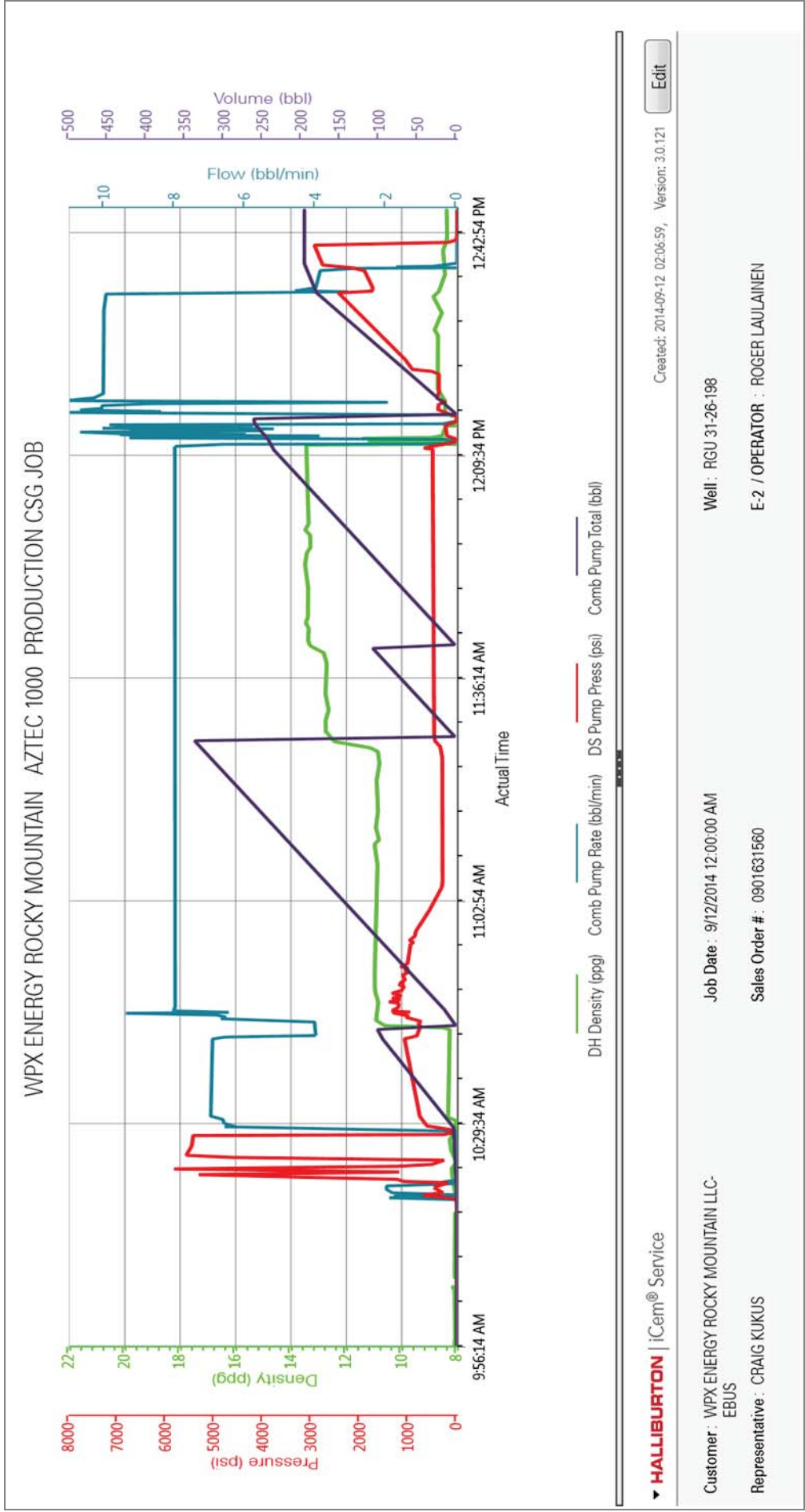
Event	17	Clean Lines	9/12/2014	12:11:45	COM6	1.24	0.00	0.00	10.00	12	WASH UP LINES TO PIT / SWAP BACK
Event	18	Drop Top Plug	9/12/2014	12:15:15	USER	0.00	0.00	-12.00	0	0	DROP TOP PLUG / PLUG AWAY
Event	19	Pump Displacement	9/12/2014	12:15:43	COM6	8.40	3.70	36.00	186	186	PUMP KCL DISPLACEMENT / NO RETURNS
Event	20	Slow Rate	9/12/2014	12:33:53	USER	8.71	9.90	2458.00	186	186	SLOW RATE TO 4 BBL MIN / NO RETURNS
Event	21	Bump Plug	9/12/2014	12:38:01	COM6	8.49	0.00	2800.00	196.9	196.9	PLUG LANDED AT 1930 PSI
Event	22	Check Floats	9/12/2014	12:41:01	USER	8.43	0.00	2961.00	982.2	982.2	CHECK FLOATS / FLOATS HELD / GOT BACK 2 BBL TO TANKS
Event	23	End Job	9/12/2014	12:42:37	COM6						END JOB / HAD RETURNS THRU OUT CEMENT / NO RETURNS THRU OUT DISPLACEMENT / RIG RECIPICATED THRU OUT THE JOB 20 FT STROKES
Event	24	Pre-Rig Down Safety Meeting	9/12/2014	12:45:00	USER	8.41	0.00	-10.00	0	0	ALL HES CREW PRESENT
Event	25	Rig-Down Equipment	9/12/2014	12:50:00	USER						RIG FLOOR DOWN AND WASH UP TO PIT / RIG DOWN IRON AND RACK UP
Event	26	Depart Location Safety Meeting	9/12/2014	13:45:00	USER						ALL HES CREW PRESENT
Event	27	Comment	9/12/2014	13:50:00	USER						THANK YOU FOR USING HALLIBURTON CEMENTING SERVICES AND THE CREW OF CRAIG KUKUS

4.0 Attachments

4.1 WPX ENERGY ROCKY MOUNTAIN-Custom Results1.png

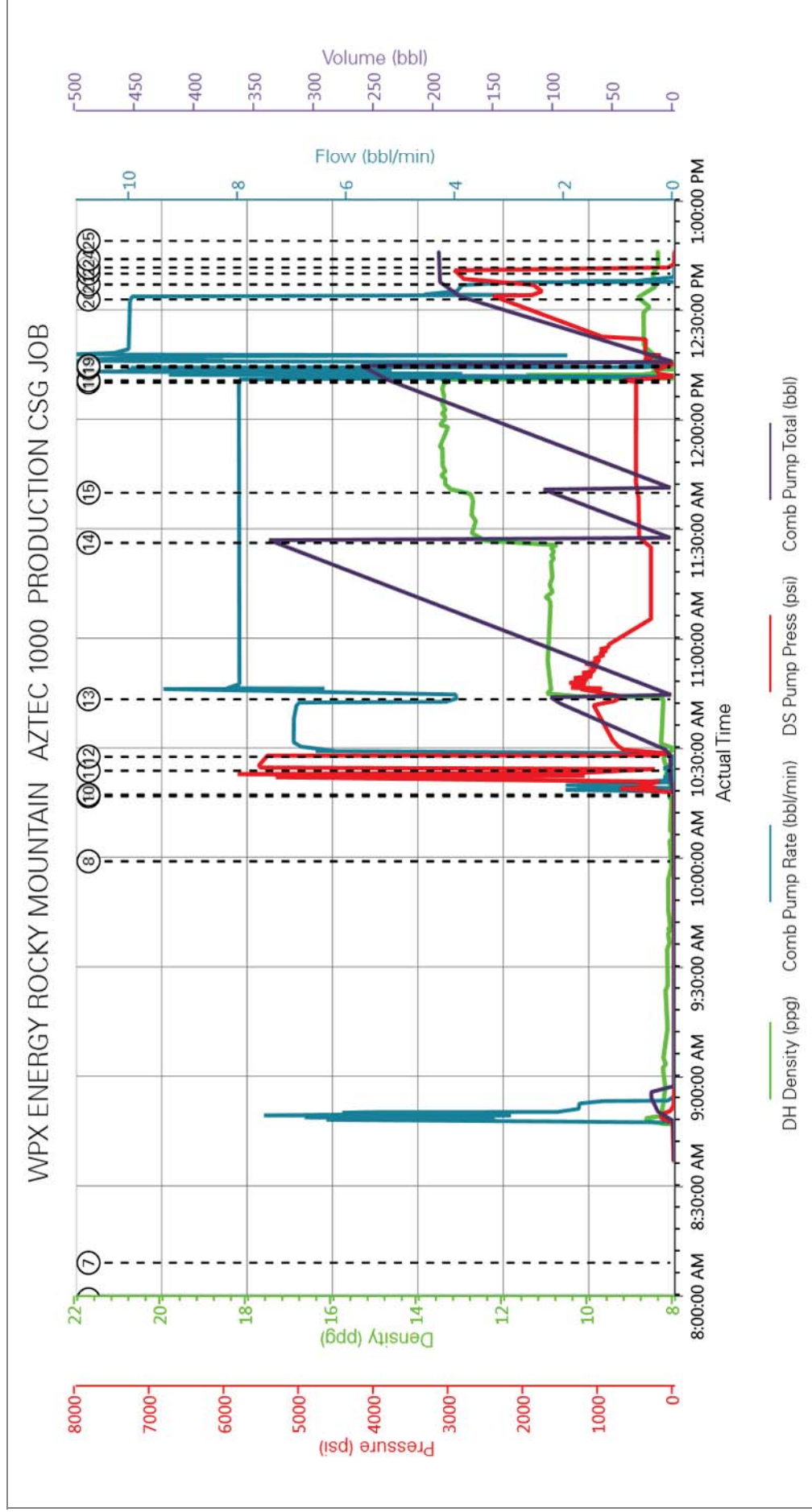


4.2 WPX ENERGY ROCKY MOUNTAIN-Custom Results2.png



5.0 Custom Graphs

5.1 Custom Graph



HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: CRAIG KUKUS
Attention:
Lease: FEDERAL
Well #: RGU 31-26-198

Date: 9/12/2014
Date Rec.: 9/12/2014
S.O.#: 901631560
Job Type: PRODUCTION

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>	64 Deg
Total Dissolved Solids		408 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 it

Sales Order #: 0901631560	Line Item: 10	Survey Conducted Date: 9/12/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative: JOSH GARIBAY		API / UWI: (leave blank if unknown) 05-103-11974-00
Well Name: FEDERAL		Well Number: 0080129277
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	9/12/2014
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 GARIBAY
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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KEY PERFORMANCE INDICATORS**General**

Survey Conducted Date	9/12/2014
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)	4.5
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)	3
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

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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?	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