

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RGU 33-23-198

Aztec 1000

Post Job Summary

Cement Production Casing

Date Prepared: 2/24/2015

Job Date: 02/16/2015

Submitted by: Aaron Katz – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 3124453		Quote #:		Sales Order #: 0902112827				
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep:						
Well Name: FEDERAL			Well #: RGU 33-23-198			API/UWI #: 05-103-11979-00				
Field: SULPHUR CREEK		City (SAP): MEEKER		County/Parish: RIO BLANCO		State: COLORADO				
Legal Description: 23-1S-98W-1055FSL-629FEL										
Contractor: AZTEC WELL SERVICING CO				Rig/Platform Name/Num: AZTEC 1000						
Job BOM: 7523										
Well Type: DIRECTIONAL GAS										
Sales Person: HALAMERICA\HB50180				Srcv Supervisor:						
Job										
Formation Name										
Formation Depth (MD)		Top			Bottom					
Form Type					BHST					
Job depth MD		12848ft			Job Depth TVD		12,848			
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
Casing		9.625	8.921	36			0	4058		0
Casing		4.5	4	11.6			0	12848		0
Open Hole Section			8.75				4058	9815	0	0
Open Hole Section			7.875				9815	12858	0	0
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make		
Guide Shoe	4.5	1		12848	Top Plug	4.5	1			
Float Shoe	4.5	1			Bottom Plug					
Float Collar	4.5	1		12817	SSR plug set					
Insert Float	4.5	1			Plug Container	4.5	1	HES		
Stage Tool	4.5	1			Centralizers	4.5	1			
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			5		

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	
2	ExtendaCem GJ1	EXTENDACEM (TM) SYSTEM	655	sack	11	2.75		8	16.08	
16.18 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	EconoCem GJ1	ECONOCEM (TM) SYSTEM	250	sack	12.7	1.91		8	10.07	
10.25 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	ThermaCem GJ1	THERMACEM (TM) SYSTEM	925	sack	13.5	1.75		8	8.23	
8.32 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	
5	Displacement	Displacement	199	bbl	8.34			10		
Cement Left In Pipe		Amount	32 ft		Reason			Shoe Joint		
Comment										

1.0 Real-Time Job Summary

1.1 Job Event Log

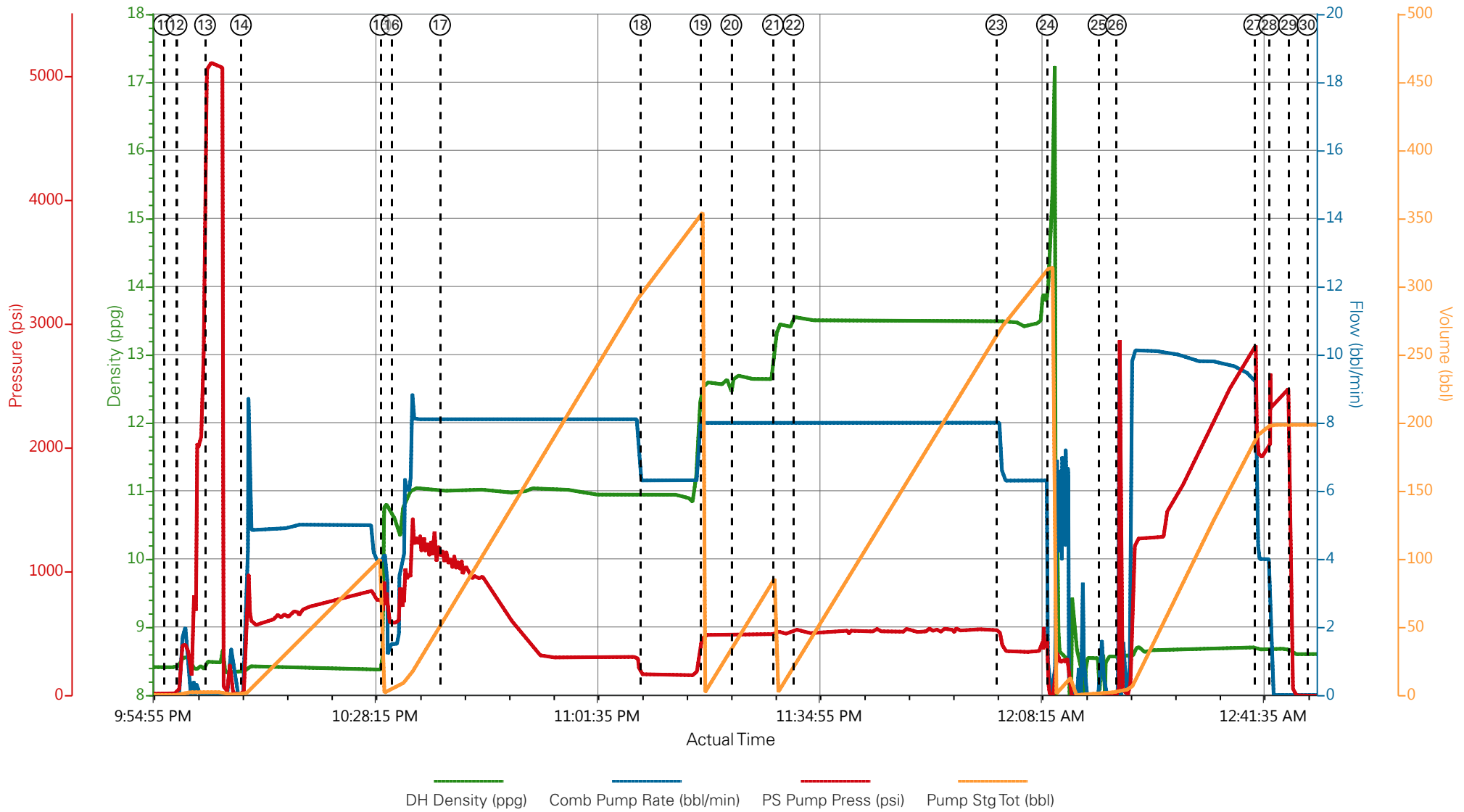
Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	Call Out	2/15/2015	10:00:00	USER					O/L @ 1500
Event	2	Pre-Job Safety Meeting	Pre-Job Safety Meeting	2/15/2015	13:15:00	USER					ALL HES EMPLOYEES PRESENT
Event	3	Crew Leave Yard	Crew Leave Yard	2/15/2015	13:30:00	USER					1 HT 400 PUMP TRUCK E #7, 1 660 BULK TRUCK, 1 BODY LOAD, 1 550 PICKUP
Event	4	Arrive At Loc	Arrive At Loc	2/15/2015	18:30:00	USER					LATE TO LOCATION DUE TO SHORT CALL AND FROST LAWS ON ROADS, RIG STILL RUNNING CASING UPON HES ARRIVAL
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	2/15/2015	19:00:00	USER					PERFORMED JSA AND WATER TEST
Event	6	Other	Spot Equipment	2/15/2015	19:15:00	USER					1 HT 400 PUMP TRUCK E #7, 1 660 BULK TRUCK, 1 BODY LOAD, 1 550 PICKUP
Event	7	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	2/15/2015	19:30:00	USER					ALL HES EMPLOYEES PRESENT
Event	8	Rig-Up Equipment	Rig-Up Equipment	2/15/2015	19:45:00	USER					1 HT 400 PUMP TRUCK E #7, 1 660 BULK TRUCK, 1 BODY LOAD, 1 550 PICKUP
Event	9	Rig-Up Completed	Rig-Up Completed	2/15/2015	21:15:00	USER					MESA VERDE @ 7,994', TOP OF GAS @ 9,044'
Event	10	Pre-Job Safety Meeting	Pre-Job Safety Meeting	2/15/2015	21:30:00	USER					ALL HES EMPLOYEES PRESENT / AND RIG PERSONNELL
Event	11	Start Job	Start Job	2/15/2015	21:56:58	COM8					TP 12484', SJ 31.22', OH

5,757' OF 8 3/4", 3,033' OF
7 7/8", SURFACE CSG 9 5/8"
J-55 36# @ 4058',
PRODUCTION CSG 4 1/2" P-
110 11.6#, WF/WT 9.4 PPG

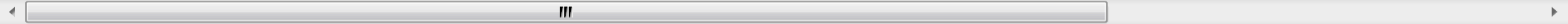
Event	12	Prime Pumps	Prime Lines	2/15/2015	21:58:52	USER	8.33	2.0	430	2	FRESH WATER
Event	13	Test Lines	Test Lines	2/15/2015	22:03:09	COM8			5085		KICK OUTS WERE FUNCTIONAL, STALLED OUT @ 2097 PSI, HELD PRESSURE @ 5085 PSI DROPIING 1 PSI EVERY 3 SECONDS
Event	14	Pump Spacer 1	Pump H2Ospacer	2/15/2015	22:08:32	COM8	8.33	5.0	847	100	FRESH WATER
Event	15	Pump Spacer 2	Pump Scavenger Cement	2/15/2015	22:29:28	COM8	11	8.0	940	321	655 SKS EXTENDACEM CMT, 11 PPG, 2.75 YEILD, 16.08 GAL/SK, 5 BOXES OF TUFF FIBER IN FIRST 100 BBLS
Event	16	Slow Rate	Slow Rate	2/15/2015	22:31:08	USER					SLOWED DUE TO CMT DELIVERY
Event	17	Check Weight	Check weight	2/15/2015	22:38:26	COM8					MUD CUP MATCHED RECIRC DENSITY
Event	18	Slow Rate	Slow Rate	2/15/2015	23:08:30	USER					SLOWED TO END SILO
Event	19	Pump Lead Cement	Pump Lead Cement	2/15/2015	23:17:31	COM8	12.7	8.0	510	85	250 SKS ECONOCEM, 12.7 PPG, 1.91 YEILD, 10.07 GAL / SK
Event	20	Check Weight	Check Weight	2/15/2015	23:22:09	USER					MUD CUP MATCHED RECIRC DENSITY
Event	21	Pump Tail Cement	Pump Tail Cement	2/15/2015	23:28:24	COM8	13.5	8.0	530	288.3	925 SKS THERMACEM, 13.5 PPG, 1.75 YIELD, 8.23 GAL / SK, LOST RETURNS 278 BBLS INTO TAIL CMT
Event	22	Check Weight	Check weight	2/15/2015	23:31:29	COM8					MUD CUP MATCHED RECIRC DENSITY
Event	23	Slow Rate	Slow Rate	2/16/2015	00:01:56	USER					SLOWED TO END SILO

Event	24	Clean Lines	Shutdown / Clean Lines	2/16/2015	00:09:33	COM8						USED ABOUT 14 BBLS
Event	25	Drop Top Plug	Drop Top Plug	2/16/2015	00:17:16	COM8						HAD TO POP OFF CAP AND CHECK THAT PLUG WENT AND IT WAS GONE
Event	26	Pump Displacement	Pump Displacement	2/16/2015	00:19:53	COM8	8.4	10.0	2770	189		1 GAL MMCR IN FIRST 10 BBLS, 1 BAG BE-6 IN FIRST 30 BBLS, 1 BAG KCL IN EVERY 10 BBLS
Event	27	Slow Rate	Slow Rate	2/16/2015	00:40:39	USER	8.4	4.0	1940	10		SLOWED TO BUMP PLUG
Event	28	Bump Plug	Bump Plug	2/16/2015	00:42:53	COM8	8.4	4.0	1960	199		PLUG BUMPED
Event	29	Check Floats	Check Floats	2/16/2015	00:45:50	USER				2400		FLOATS HELD 2 BBL FLOW BACK
Event	30	End Job	End Job	2/16/2015	00:48:39	COM8						HAD RETURNS FOR ABOUT 40 BBLS AFTER 30 BBLS OF DISPLACEMENT AND THEN LOST THEM
Event	31	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	2/16/2015	01:00:00	USER						ALL HES EMPLOYEES PRESENT
Event	32	Rig-Down Equipment	Rig-Down Equipment	2/16/2015	01:15:00	USER						1 HT 400 PUMP TRUCK E #7, 1 660 BULK TRUCK, 1 BODY LOAD, 1 550 PICKUP
Event	33	Rig-Down Completed	Rig-Down Completed	2/16/2015	02:45:00	USER						NO INJURIES TO REPORT
Event	34	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	2/16/2015	03:15:00	USER						ALL HES EMPLOYEES PRESENT
Event	35	Crew Leave Location	Crew Leave Location	2/16/2015	03:30:00	USER						THANK YOU FOR USING HALLIBURTON CMT

WPX Energy Federal RGU 33-23-198 4 1/2" Production



- | | | | | | | |
|--------------------------|---|--------------------------|-------------------------|--------------------|---------------------------|------------------|
| ① Call Out | ⑤ Assessment Of Location Safety Meeting | ⑨ Rig-Up Completed | ⑬ Test Lines | ⑰ Check weight | 21 Pump Tail Cement | 25 Drop Top Plug |
| ② Pre-Job Safety Meeting | ⑥ Spot Equipment | ⑩ Pre-Job Safety Meeting | ⑭ Pump H2O Spacer | ⑱ Slow Rate | 22 Check weight | 26 Pump Displac |
| ③ Crew Leave Yard | ⑦ Pre-Rig Up Safety Meeting | ⑪ Start Job | ⑮ Pump Scavenger Cement | ⑲ Pump Lead Cement | 23 Slow Rate | 27 Slow Rate |
| ④ Arrive At Loc | ⑧ Rig-Up Equipment | ⑫ Prime Lines | ⑯ Slow Rate | 20 Check Weight | 24 Shutdown / Clean Lines | 28 Bump Plug |



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Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 2/15/2015

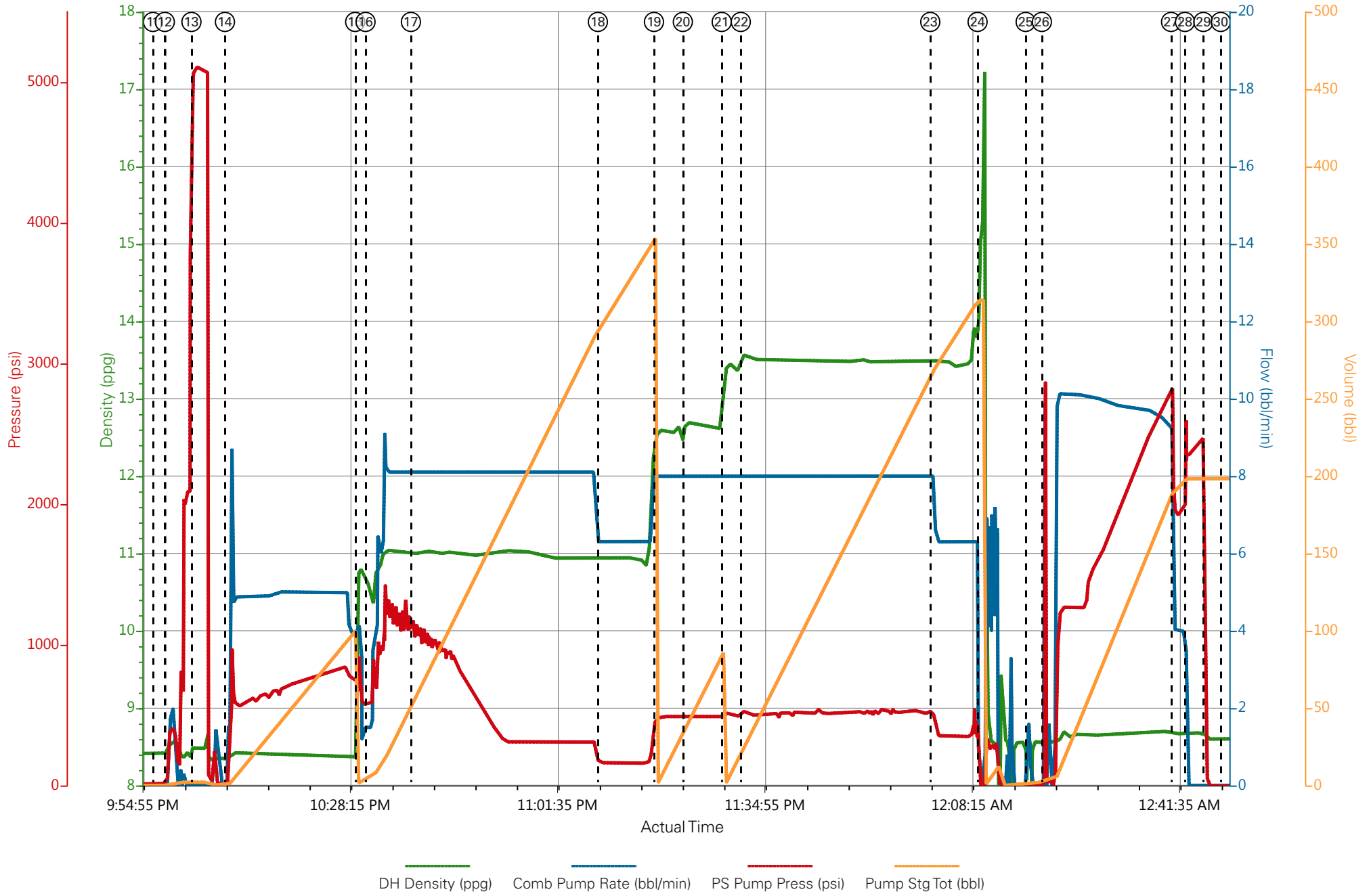
Well: Federal RGU 33-23-198

Representative: Beaude Oaks

Sales Order #: 902112827

Elite # 7: Dustin Hyde / Roger Laulainen / Stephan Smith

WPX Energy Federal RGU 33-23-198 4 1/2" Production



HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: Dustin Hyde
Attention: J.TROUT
Lease: FEDERAL
Well #: RGU 33-23-198

Date: 2/15/2015
Date Rec.: 2/15/2015
S.O.#: 902112827
Job Type: PRODUCTION

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	200 Mg / L
Calcium (Ca)	<i>500</i>	120 Mg / L
Iron (FE2)	<i>300</i>	3 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Temp	<i>40-80</i>	55 Deg
Total Dissolved Solids		310 Mg / L

Respectfully: Dustin Hyde

Title: Cement 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

Sales Order #: 0902112827	Line Item: 10	Survey Conducted Date: 2/16/2015
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative: BEAUDE OAKS		API / UWI: (leave blank if unknown) 05-103-11979-00
Well Name: FEDERAL		Well Number: 0080129282
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	2/16/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB43597
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	BEAUDE OAKS
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 #: 0902112827	Line Item: 10	Survey Conducted Date: 2/16/2015
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Customer Representative: BEAUDE OAKS		API / UWI: (leave blank if unknown) 05-103-11979-00
Well Name: FEDERAL		Well Number: 0080129282
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: RIO BLANCO

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	2/16/2015
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	Deviated
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?	
Pumping Hours	3
Total number of hours pumping fluid on this job. Enter in decimal format.	
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	
Was this a Primary Cement Job (Yes / No)	Yes
Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Customer Non-Productive Rig Time (hrs)	0

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Customer Representative: BEAUDE OAKS		API / UWI: (leave blank if unknown) 05-103-11979-00
Well Name: FEDERAL		Well Number: 0080129282
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: RIO BLANCO

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.	
Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment? Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?	No
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
If a top plug was run, was the plug bumped? (Yes/No/N/A) If a top plug was run, was the plug bumped? (Yes/No/N/A)	Yes
If applicable, was Halliburton float equipment used? (Yes/No/N/A) If applicable, was Halliburton float equipment used? (Yes/No/N/A)	Not Available
If applicable, did the floats hold? (Yes/No/N/A) If applicable, did the floats hold? (Yes/No/N/A)	Yes
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
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	97
If applicable, were there returns throughout the job? (Yes/No/N/A) If applicable, were there returns throughout the job? (Yes/No/N/A)	Yes
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