

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RGU 534-24-198

Cyclone 29

Post Job Summary

Cement 2-Stage Surface

Date Prepared: 07/13/2014
Job Date: 07/02/2014

Submitted by: Kory Hugentobler – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3276467	Quote #:	Sales Order #: 0901373662
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: TED RAGSDALE	
Well Name: FEDERAL	Well #: RGU 534-24-198	API/UWI #: 05-103-12077-00	
Field: SULPHUR CREEK	City (SAP): MEEKER	County/Parish: RIO BLANCO	State: COLORADO
Legal Description: 24-1S-98W-2128FSL-1688FEL			
Contractor:		Rig/Platform Name/Num: Cyclone 29	
Job BOM: 392189			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: Dustin Smith	

Job

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	3951ft		Job Depth TVD 3951
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
Open Hole Section			13.5				0	3951		0
Casing		9.625	8.921	36	8 RD	J-55	0	3951		0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		3951	Top Plug	9.625	1	
Float Shoe	9.625	1			Bottom Plug			
Float Collar	9.625	1		3924.33	SSR plug set			
					Plug Container	9.625	1	HES
Stage Tool	9.625	1		1822.73	Centralizers	9.625		

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 ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	20	bbl	8.34			4.0		

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal

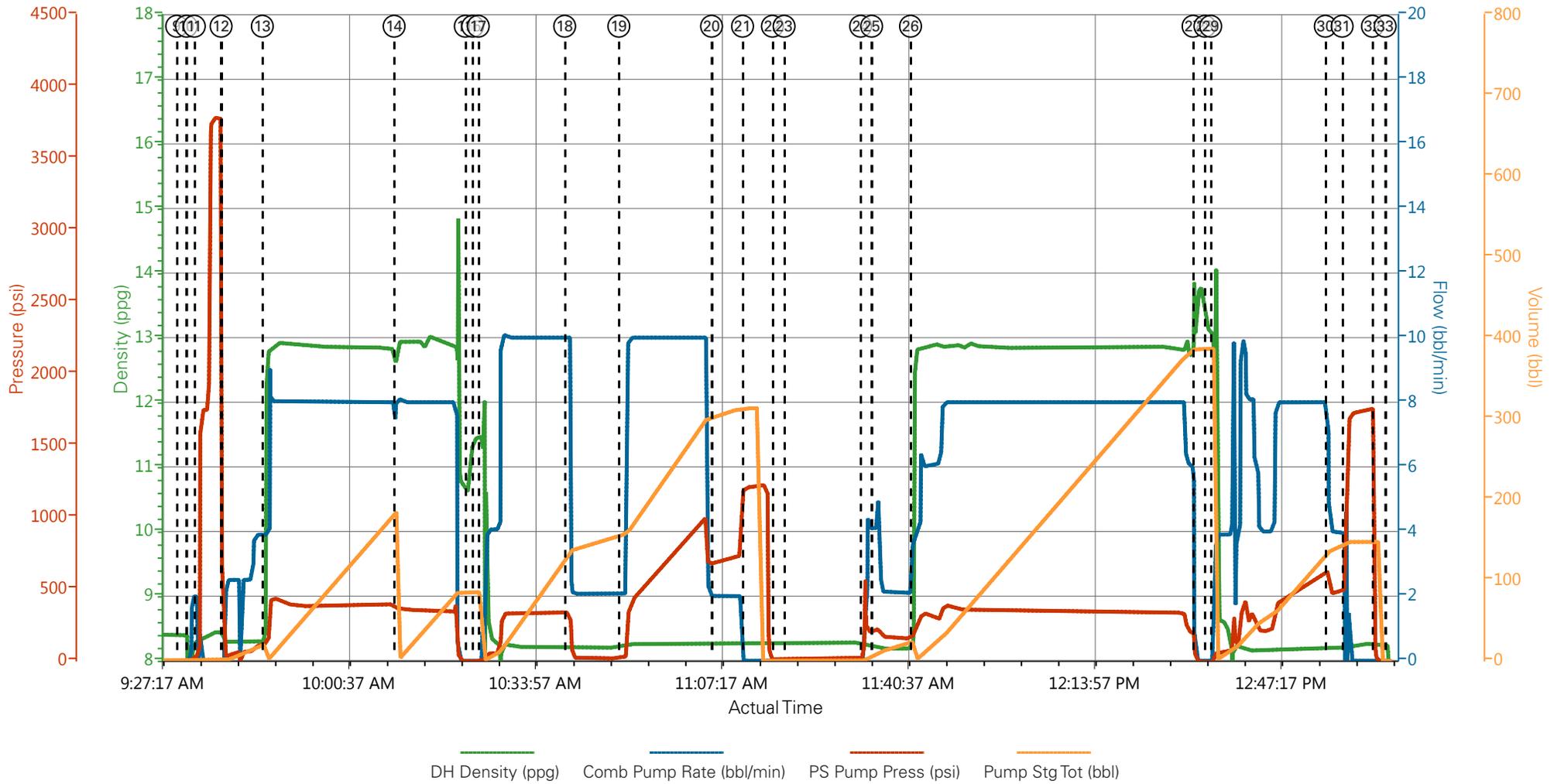
2	VersaCem (TM) System	VERSACEM (TM) SYSTEM	590	sack	12.8	1.77		8.0	9.33	
9.33 Gal		FRESH WATER								
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
3	VersaCem (TM) System	VARICEM (TM) CEMENT	230	sack	12.8	1.96		8.0	10.95	
10.91 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/mi n	Total Mix Fluid Gal	
4	Displacement	Displacement	302.7	bbl	8.34			10.0		
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	Fresh Water Spacer	Fresh Water Spacer	20	bbl	9.34			4.0		
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	
6	VersaCem (TM) System	VERSACEM (TM) SYSTEM	1060	sack	12.8	1.96		8.0	10.95	
10.91 Gal		FRESH WATER								
Cement Left In Pipe		Amount	26.35 ft		Reason			Shoe Joint		
Comment										

3.5 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stage Total (bbl)	Comment
Event	1	Call Out	7/1/2014	20:30:00	USER					ELITE # 8
Event	2	Pre-Convoy Safety Meeting	7/1/2014	23:00:00	USER					ALL HES EMPLOYEES
Event	3	Arrive At Loc	7/2/2014	02:00:00	USER					ARRIVED ON LOCATION @ REQUESTED ON LOCATION TIME RIG PREPARING TO RUN CASING
Event	4	Assessment Of Location Safety Meeting	7/2/2014	06:00:00	USER					ALL HES EMPLOYEES
Event	5	Pre-Rig Up Safety Meeting	7/2/2014	06:10:00	USER					ALL HES EMPLOYEES
Event	6	Rig-Up Equipment	7/2/2014	06:30:00	USER					1 HT-400 PUMP TRUCK (ELITE # 8) 2 660 BULK TRUCKS 2 FIELD STORAGE SILOS
Event	7	Pre-Job Safety Meeting	7/2/2014	06:50:00	USER					ALL HES EMPLOYEES AND RIG CREW
Event	8	Rig-Up Completed	7/2/2014	07:00:00	USER					RIG CIRCULATED FOR 1 HOUR PRIOR TO THE JOB @ 10 BPM
Event	9	Start Job	7/2/2014	09:30:23	COM5					TD: 3950.68 TP: 3950.68 SJ: 26.35 448' OF 9 5/8 40# J-55 CSG 3502.68' OG 9 5/8 36# J-55 CSG 14 3/4 OH TO 1750 13 1/2 OH FROM 1750 TO TD 18" CONDUCTOR SET @ 63' MUD WT: 9.3 PPG
Event	10	Prime Lines	7/2/2014	09:32:08	COM5					PRIME LINES
Event	11	Test Lines	7/2/2014	09:33:33	COM5	8.33	0.00	3791	2.0	PRESSURE TEST OK
Event	12	Pump Fresh Water Spacer	7/2/2014	09:38:20	COM5	8.33	4.0	107	20	PUMP FRESH WATER SPACER
Event	13	Pump Lead Cement	7/2/2014	09:45:42	COM5	12.8	8.0	415	185.0	590 SKS 12.8 PPG 1.77 YIELD 9.33 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGHOUT LEAD CEMENT
Event	14	Pump Tail Cement	7/2/2014	10:09:16	COM5	12.8	8.0	363	80.3	230 SKS 12.8 PPG 1.96 YIELD 10.95 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGHOUT TAIL CEMENT
Event	15	Shutdown	7/2/2014	10:22:00	USER					
Event	16	Drop 1st Stage Plug	7/2/2014	10:23:20	COM5					PLUG AWAY NO PROBLEMS
Event	17	Pump Displacement	7/2/2014	10:24:19	COM5	8.33	10.0	978	302.7	FRESH WATER DISPLACMENT
Event	18	Slow Rate	7/2/2014	10:39:46	USER	8.33	2.0	24	130	SLOW RATE TO ALLOW PLUG TO PASS THROUGH DV TOOL
Event	19	Resume Rate	7/2/2014	10:49:27	USER	8.33	10	978	150	RESUME RATE OF 10 BPM 10 BBLS AFTER CALCULATED DISPLACEMENT OF TOOL
Event	20	Slow Rate	7/2/2014	11:06:01	USER	8.33	2.0	735	285	SLOW RATE TO LAND PLUG

Event	21	Bump Plug	7/2/2014	11:11:34	COM5	8.33	2.0	1223	302.7	PSI BEFORE LANDING PLUG @ 735 PSI BUMPED PLUG UP TO 1223 PSI
Event	22	Check Floats	7/2/2014	11:16:54	COM5					FLOATS HELD 1 1/2 BBLS BACK TO DISPLACEMENT TANKS
Event	23	Drop Opening Device For Multiple Stage Cementer	7/2/2014	11:19:00	USER					DROP OPENING DEVICE AND WAIT 12 MINS FOR DEVICE TO LAND ON MSC AND PRE-LOAD CLOSING PLUG IN PLUG CONTAINER
Event	24	Open Multiple Stage Cementer	7/2/2014	11:32:41	USER	8.33	1.5	585	0.2	PRESSURED UP TO 585 PSI TO OPEN MSC GAINED RETURNS 4 BBL AFTER OPENING MSC AS PER COMPANY REP WENT DIRECTLY INTO 2ND STAGE OF THE JOB
Event	25	Pump Fresh Water Spacer	7/2/2014	11:34:39	USER	8.33	4.0	184	20	PUMP FRESH WATER SPACER
Event	26	Pump Tail Cement	7/2/2014	11:41:36	COM5	12.8	8.0	372	370	1060 SKS 12.8 PPG 1.96 YIELD 10.95 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGHOUT TAIL CEMENT
Event	27	Shutdown	7/2/2014	12:32:07	USER					SHUTDOWN
Event	28	Drop Closing Plug	7/2/2014	12:34:14	COM5					PLUG AWAY NO PROBLEMS
Event	29	Pump Displacement	7/2/2014	12:35:16	COM5	8.33	10	627	140	FRESH WATER DISPLACEMENT
Event	30	Slow Rate	7/2/2014	12:55:45	USER	8.33	4.00	500	130	SLOW RATE TO LAND PLUG / CLOSE MSC
Event	31	Bump Plug	7/2/2014	12:58:46	COM5	8.33	4.0	1756	140	PSI BEFORE LANDING PLUG @ 500 PSI BUMPED PLUG UP TO 1756 PSI TO CLOSE MSC
Event	32	Check Floats	7/2/2014	13:04:11	USER					FLOATS HELD 1 BBL BACK TO DISPLACEMENT TANKS
Event	33	End Job	7/2/2014	13:06:28	COM5					GOOD RETURNS THROUGHOUT 1ST AND 2ND STAGE OF THE JOB CIRCULATED 50 BBLS OF FIRST STAGE CEMENT TO SURFACE AFTER OPENING MSC AND RETURNED 115 BBLS OF CEMENT TO SURFACE ON THE 2ND STAGE
Event	34	Comment	7/2/2014	13:07:00	USER					RIG TOPPED OF WELL# RGU 43-24 WITH CEMENT RETURNS FROM JOB WELL TOOK 14 BBLS TO TOP OUT
Event	35	Pre-Rig Down Safety Meeting	7/2/2014	13:20:00	USER					ALL HES EMPLOYEES
Event	36	Rig-Down Equipment	7/2/2014	13:30:00	USER					
Event	37	Pre-Convoy Safety Meeting	7/2/2014	15:20:00	USER					ALL HES EMPLOYEES
Event	38	Crew Leave Location	7/2/2014	15:30:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT DUSTIN SMITH AND CREW

WPX - FEDERAL RGU 534-24-198 - 9 5/8 2 STAGE SURFACE



- | | | | | |
|---|---------------------------|--|----------------------------|--------------------------------|
| ① Call Out | ⑨ Start Job | ⑰ Pump Displacement | 25 Pump Fresh Water Spacer | 33 End Job |
| ② Pre-Convoy Safety Meeting | ⑩ Prime Lines | ⑱ Slow Rate | 26 Pump Tail Cement | 34 Comment |
| ③ Arrive At Loc | ⑪ Test Lines | ⑲ Resume Rate | 27 Shutdown | 35 Pre-Rig Down Safety Meeting |
| ④ Assessment Of Location Safety Meeting | ⑫ Pump Fresh Water Spacer | 20 Slow Rate | 28 Drop Closing Plug | 36 Rig-Down Equipment |
| ⑤ Pre-Rig Up Safety Meeting | ⑬ Pump Lead Cement | 21 Bump Plug | 29 Pump Displacement | 37 Pre-Convoy Safety Meeting |
| ⑥ Rig-Up Equipment | ⑭ Pump Tail Cement | 22 Check Floats | 30 Slow Rate | 38 Crew Leave Location |
| ⑦ Pre-Job Safety Meeting | ⑮ Shutdown | 23 Drop Opening Device For Multiple Stage Cementer | 31 Bump Plug | |
| ⑧ Rig-Up Completed | ⑯ Drop 1st Stage Plug | 24 Open Multiple Stage Cementer | 32 Check Floats | |

▼ **HALLIBURTON** | iCem® Service

Created: 2014-07-01 21:23:11, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 7/2/2014 8:32:08 AM

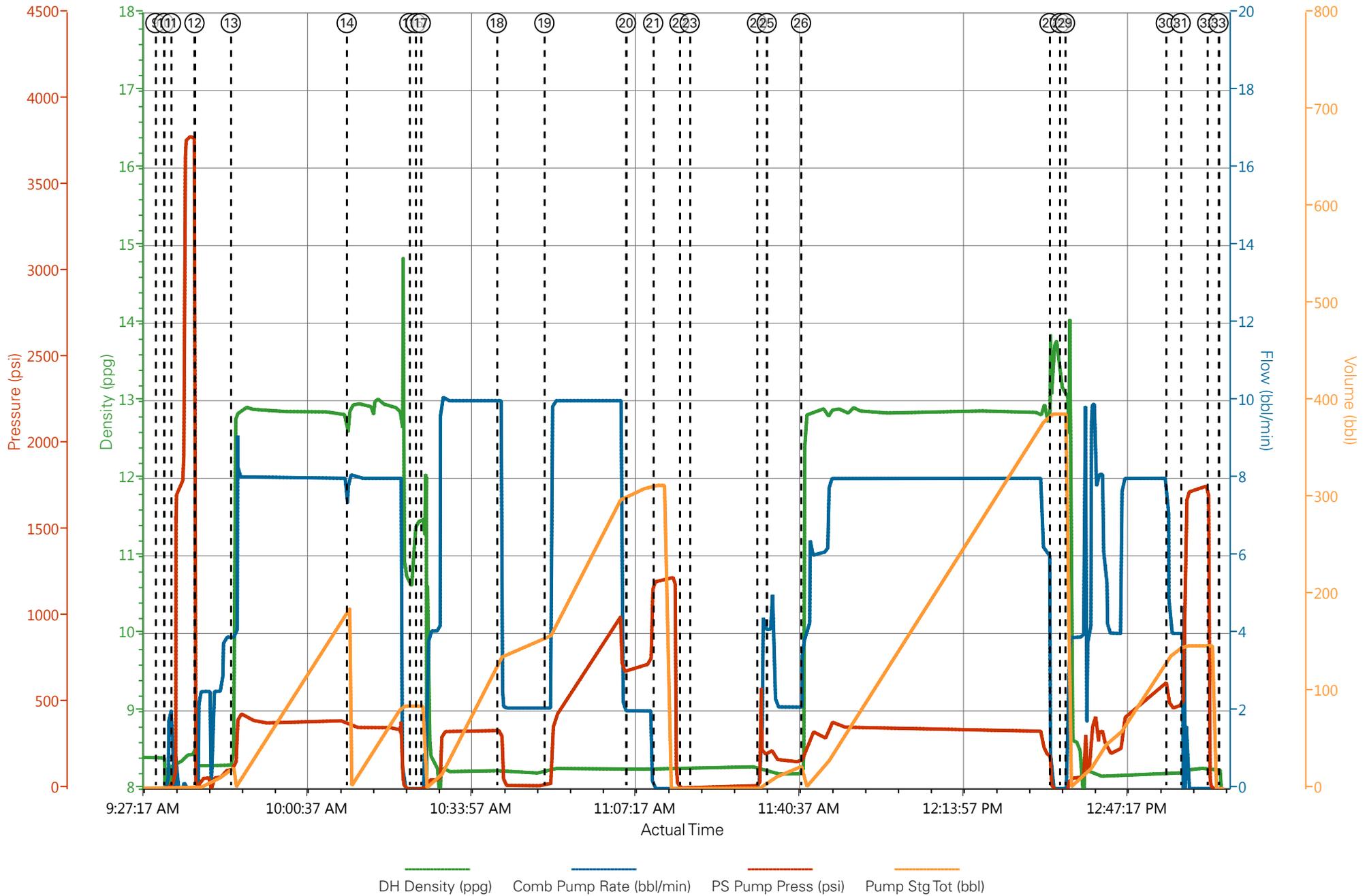
Well: FEDERAL RGU 534-24-198

Representative: TED RAGSDALE

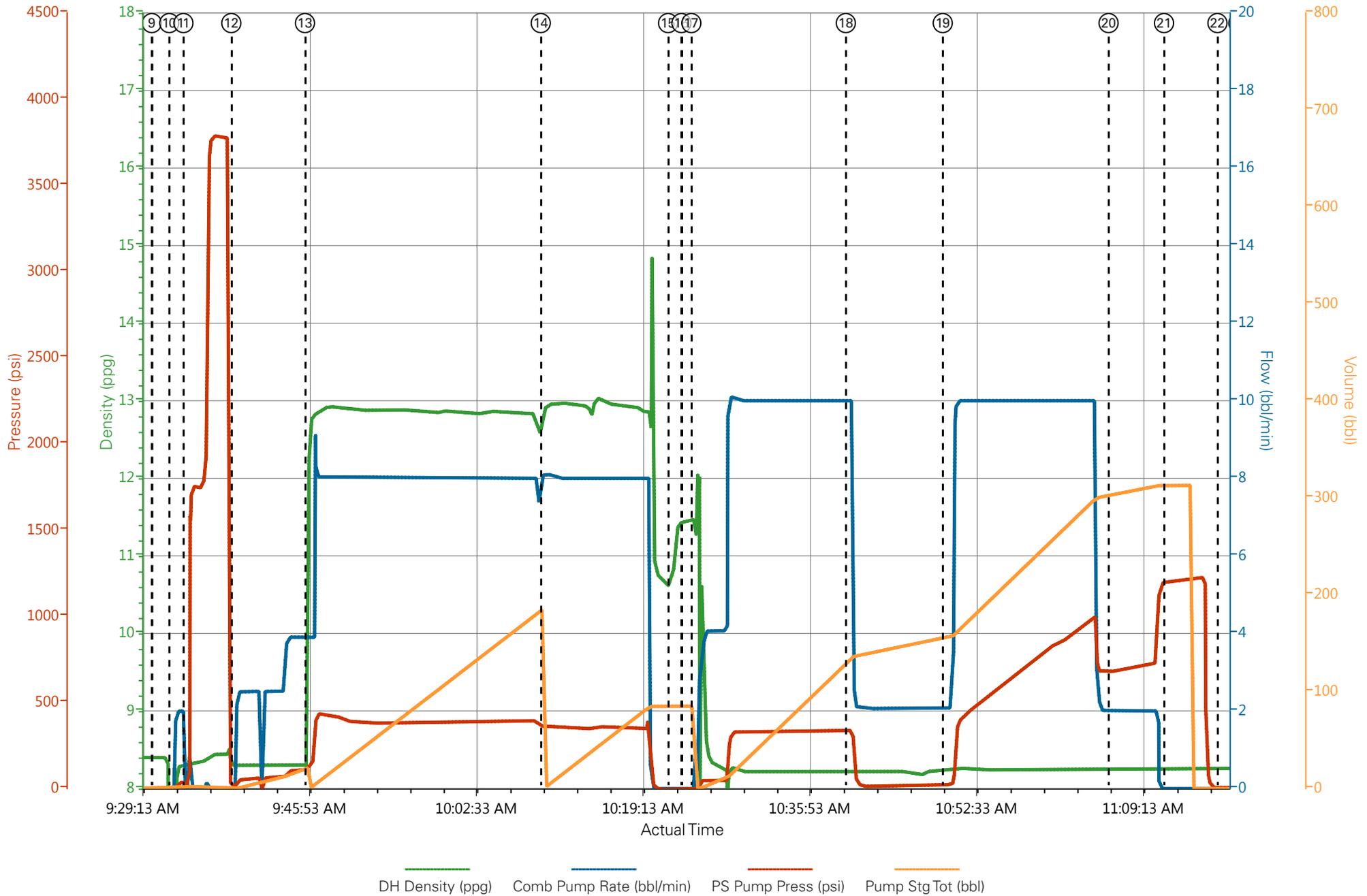
Sales Order #: 0901373662

ELITE # 8: DUSTIN SMITH / SHANE JENSEN

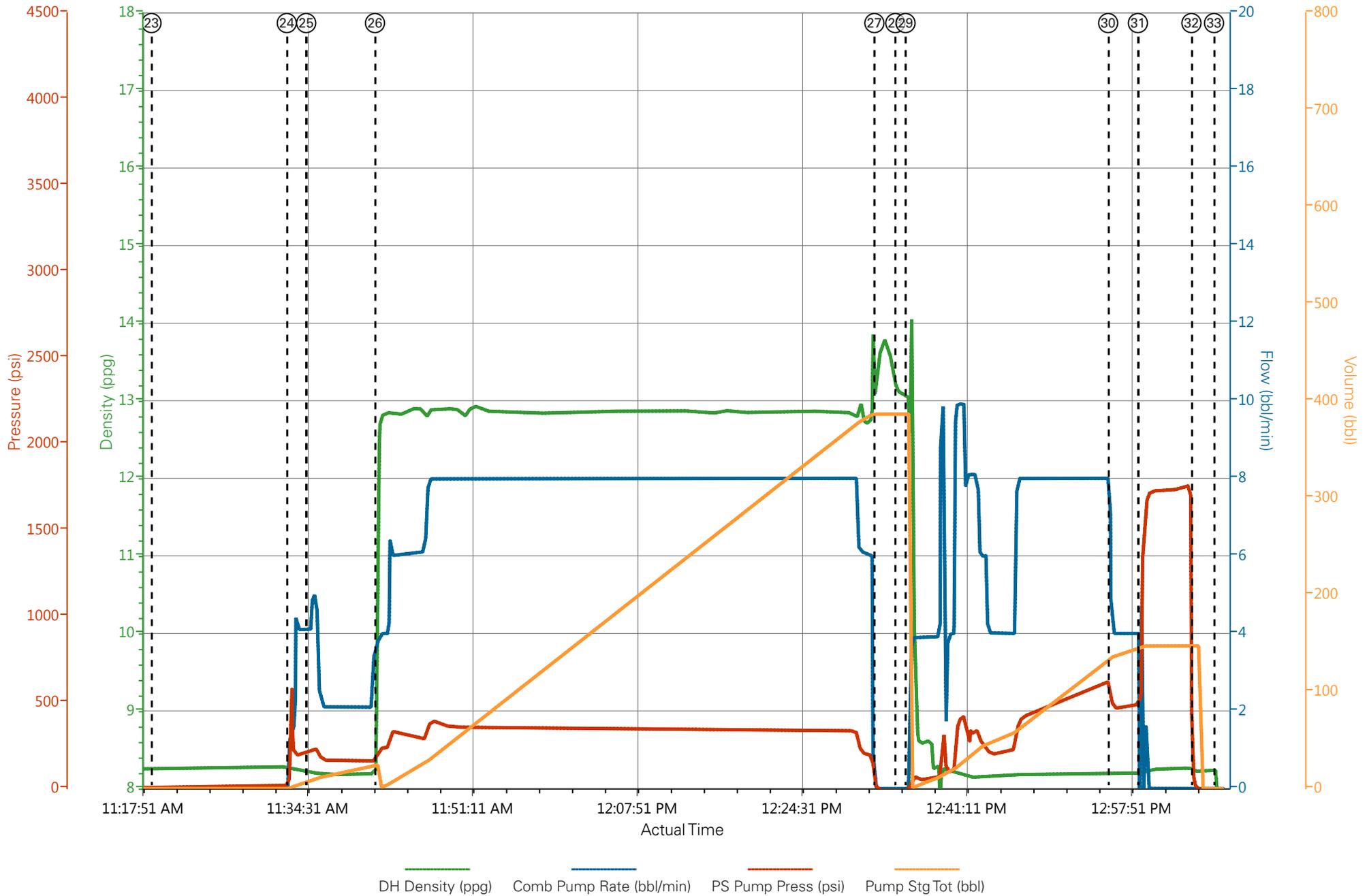
WPX - FEDERAL RGU 534-24-198 - 9 5/8 2 STAGE SURFACE



WPX - FEDERAL RGU 534-24-198 - 9 5/8 1ST STAGE



WPX - FEDERAL RGU 534-24-198 - 9 5/8 2ND STAGE



HALLIBURTON

Water Analysis Report

Company: WPX

Date: 7/2/2014

Submitted by: DUSTIN SMITH

Date Rec.: 7/2/2014

Attention: _____

S.O.# 901373662

Lease FEDERAL RGU

Job Type: SURFACE

Well # 534-24-198

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>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	UNDER 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-90</i>	50 Deg
Total Dissolved Solids		250 Mg / L

Respectfully: DUSTIN SMITH

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

Sales Order #: 0901373662	Line Item: 10	Survey Conducted Date: 7/2/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT MULTIPLE STAGES BOM
Customer Representative: TOM BOWEN		API / UWI: (leave blank if unknown) 05-103-12077-00
Well Name: FEDERAL		Well Number: 0080359367
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	7/2/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX37079
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	TOM BOWEN
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	JOB WENT WELL, THX TOM.

CUSTOMER SIGNATURE

Sales Order #: 0901373662	Line Item: 10	Survey Conducted Date: 7/2/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT MULTIPLE STAGES BOM
Customer Representative: TOM BOWEN		API / UWI: (leave blank if unknown) 05-103-12077-00
Well Name: FEDERAL		Well Number: 0080359367
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: RIO BLANCO

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	7/2/2014
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)	7
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	3.5
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	6
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

Sales Order #: 0901373662	Line Item: 10	Survey Conducted Date: 7/2/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT MULTIPLE STAGES BOM
Customer Representative: TOM BOWEN		API / UWI: (leave blank if unknown) 05-103-12077-00
Well Name: FEDERAL		Well Number: 0080359367
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)	NO
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	90
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	90
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