

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RGU 323-24-198

Cyclone 29

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 #: 3276486		Quote #:		Sales Order #: 0901286443					
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep:							
Well Name: FEDERAL		Well #: RGU 323-24-198		API/UWI #: 05-103-12082-00							
Field: SULPHUR CREEK		City (SAP): MEEKER		County/Parish: RIO BLANCO		State: COLORADO					
Legal Description: 24-1S-98W-2150FSL-1708FEL											
Contractor: CYCLONE				Rig/Platform Name/Num: Cyclone 29							
Job BOM: 392189											
Well Type: DIRECTIONAL GAS											
Sales Person: HALAMERICA\HAL7171				Srvc Supervisor: Andrew Brennecke							
Job											
Formation Name											
Formation Depth (MD)		Top		Bottom							
Form Type				BHST							
Job depth MD		3944ft		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			14.75				0	1750	0	0	
Casing		9.625	8.921	36	8 RD	H-40	0	3944	0	0	
Open Hole Section			13.5				1750	3948	0	0	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	9.625	1		3944		Top Plug					
Float Shoe						Bottom Plug					
Float Collar	9.625					SSR plug set					
Insert Float						Plug Container	9.625	1	HES		
Stage Tool	9.625	1		1791		Centralizers					
Miscellaneous Materials											
Gelling Agt		Conc		Surfactant		Conc		Acid Type		Qty	
Treatment Fld		Conc		Inhibitor		Conc		Sand Type		Size	
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			40	bbl	8.34			4.0	

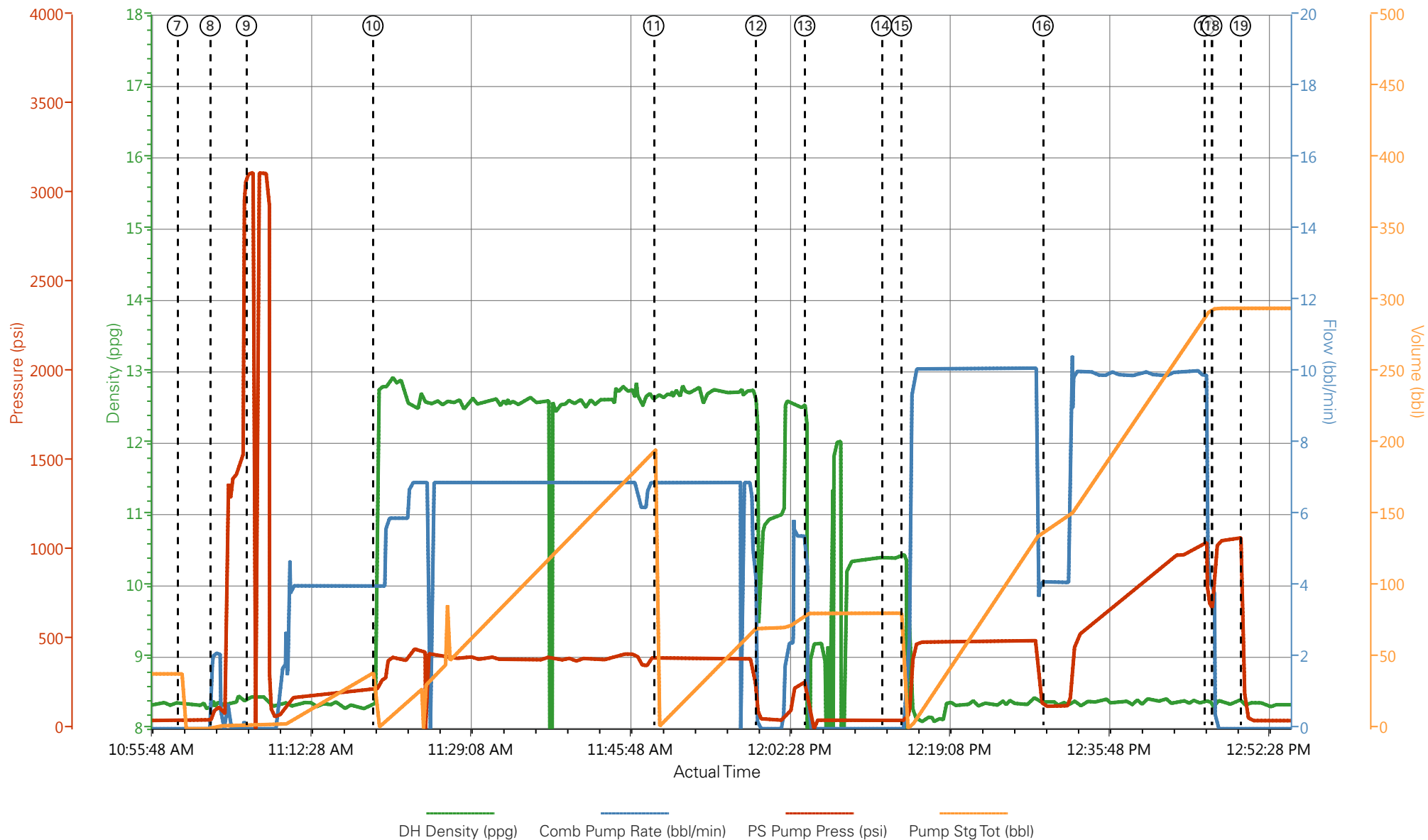
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
2	VersaCem (TM) System	VERSACEM (TM) SYSTEM	640	sack	12.8	1.77		7	9.33
9.33 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	VersaCem (TM) System	VARICEM (TM) CEMENT	245	sack	12.8	1.96		7	10.95
10.91 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	Displacement	Displacement	303	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		7	10.95
10.91 Gal		FRESH WATER							
Cement Left In Pipe		Amount	27.42 ft		Reason		Shoe Joint		
Comment									

1.1 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	Call Out	4/22/2014	18:30:00	USER					
Event	2	Pre-Convoy Safety Meeting	4/22/2014	19:45:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	4/22/2014	20:00:00	USER					
Event	4	Arrive At Loc	4/22/2014	23:00:00	USER					RIG DRILLING
Event	5	Rig-Up Equipment	4/23/2014	07:30:00	USER					1-ELITE, 1-660 BULK TRUCK, 2" IRON, 9.625"-QUICKLATCH
Event	6	Pre-Job Safety Meeting	4/23/2014	10:30:00	USER					ALL HES AND RIG CREW PRESENT
Event	7	Start Job	4/23/2014	10:58:49	COM5	8.34	0.00	45.00	38.4	TP-3949.19', SJ-27.42', TL-1789.35', OH-14.75" 0-1750', 13.5" 1750-3949.19', MUD-9.4PPG,
Event	8	Prime Pumps	4/23/2014	11:02:14	USER	8.39	2.20	88.00	0.4	FRESH WATER
Event	9	Test Lines	4/23/2014	11:06:01	USER	8.46	0.00	3118.00	2.1	PSI HELD @3118
Event	10	Pump Lead Cement	4/23/2014	11:19:14	COM5	12.83	7.00	440.00	201.8	640SKS, 12.8PPG, 1.77FT3/SK, 9.33GAL/SK
Event	11	Pump Tail Cement	4/23/2014	11:48:33	COM5	12.82	7.00	400.00	85.5	245SKS, 12.8PPG, 1.96FT3/SK, 10.95FT3/SK
Event	12	Shutdown	4/23/2014	11:59:12	USER	12.82	0.00	69.00	85.5	SHUT DOWN TO BRING WEIGHT UP
Event	13	Shutdown	4/23/2014	12:04:19	USER	12.8	0.00	133.00	85.5	
Event	14	Drop Plug	4/23/2014	12:12:21	USER	10.38	0.00	0.00	0.00	PLUG DROP VERIFIED BY TATTLE TAIL
Event	15	Pump Displacement	4/23/2014	12:14:24	COM5	8.39	10.00	495.00	203.3	FRESH WATER
Event	16	Other	4/23/2014	12:29:12	COM5	8.35	4.10	125.00	138.8	SLOW DOWN FOR DART THROUGH TOOL
Event	17	Slow Rate	4/23/2014	12:46:03	USER	8.38	4.00	1033.00	10.0	
Event	18	Bump Plug	4/23/2014	12:46:48	COM5	8.36	0.00	679.00	303.3	PLUG BUMPED 679 PSI
Event	19	Check Floats	4/23/2014	12:49:48	USER	8.33	0.00	1065.00	303.3	1.5BBLs BACK, GOOD RETURNS THROUGH FIRST STAGE
Event	20	Drop Opening Device For Multiple Stage Cementer	4/23/2014	12:58:00	USER	8.31	0.00	45.00	0.00	
Event	21	Pump Spacer 1	4/23/2014	13:06:06	USER	8.31	4.00	137.00	20.00	FRESH WATER
Event	22	Open Multiple Stage Cementer	4/23/2014	13:07:09	USER	8.39	0.50	643.00	0.7	OPENED AT 643PSI

Event	23	Pump Tail Cement	4/23/2014	13:15:57	COM5	12.84	7.0	500.00	370	1060SKS, 12.8PPG, 1.96FT3/SK, 10.95GAL/SK LOST RETURNS AT 100 BBLS, RETURNS BACK AT 240 BBLS, AND LOST AGAIN AT 325 BBLS
Event	24	Shutdown	4/23/2014	14:12:00	USER	11.77	0.00	82.00	370	
Event	25	Drop Plug	4/23/2014	14:13:25	USER	11.65	0.00	0.00	0.00	PLUG DROP VERIFIED BY TATTLE TAIL
Event	26	Pump Displacement	4/23/2014	14:13:44	COM5	8.65	10.00	722.00	128	FRESH WATER, 37 BBLS RETURNS STARTED AND LOST AT 65 BBLS
Event	27	Slow Rate	4/23/2014	14:29:59	USER	8.33	4.00	386.00	10	
Event	28	Bump Plug	4/23/2014	14:30:59	USER	8.30	4.00	431.00	138.3	PLUG BUMPED AT 431 PSI
Event	29	Check Floats	4/23/2014	14:35:07	USER	8.38	0.00	1671.00	136.1	FLOATS HELD 1.25BBLS BACK
Event	30	End Job	4/23/2014	14:38:55	COM5					
Event	31	Crew Leave Location	4/23/2014	16:00:00	USER					THANK YOU FOR CHOOSING HALLIBURTON, ANDREW BRENNECKE AND CREW

WPX - RGU 323-24-198 - 9.625" SURFACE MULTI STAGE 1



① Call Out n/a;n/a;n/a;n/a ③ Crew Leave Yard n/a;n/a;n/a;n/a ⑤ Rig-Up Equipment n/a;n/a;n/a;n/a ⑦ Start Job 8.34;0;45;38.4 ⑨ Test Lines 8.47;0;3117;2.1 ⑪ Pump T
 ② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a ④ Arrive At Loc n/a;n/a;n/a;n/a ⑥ Pre-Job Safety Meeting n/a;n/a;n/a;n/a ⑧ Prime Pumps 8.37;2.2;92;0.5 ⑩ Pump Lead Cement 8.4;4;216;0.1 ⑫ Shutdo



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Created: 2014-04-23 09:58:06, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 4/23/2014 10:43:43 AM

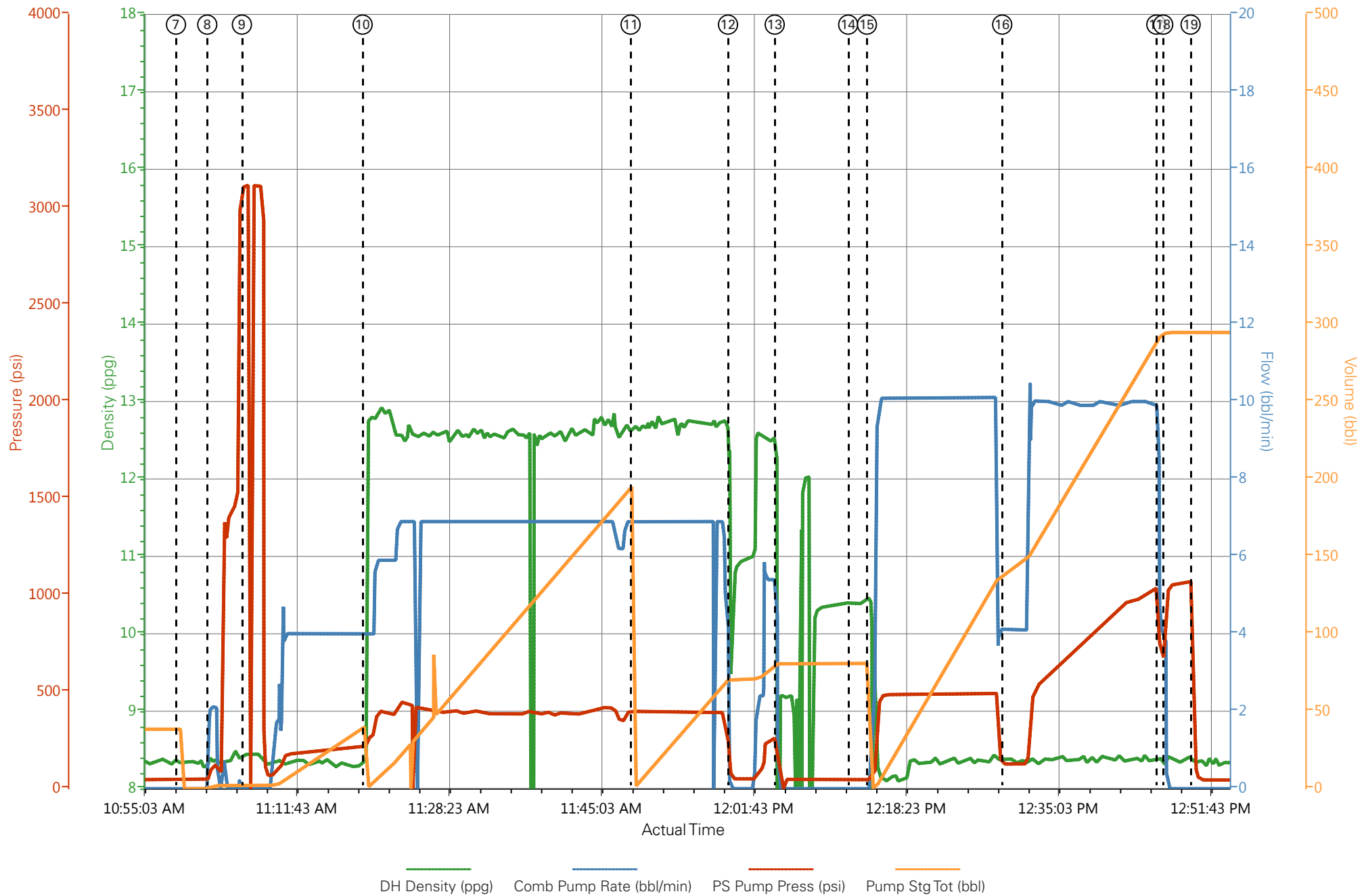
Well: RGU 323-24-198

Representative: TED RAGSDALE

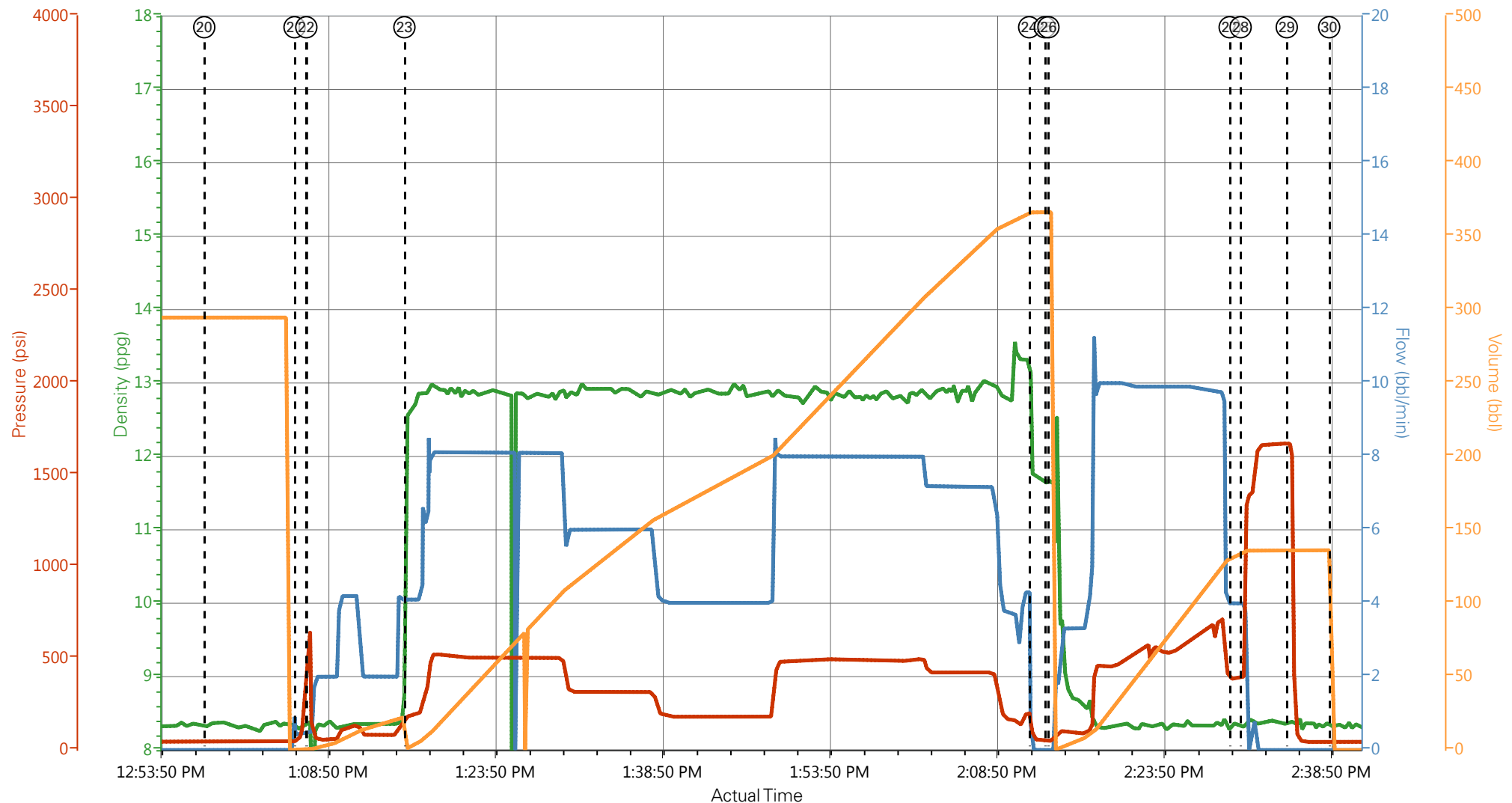
Sales Order #: 901286433

ELITE#9: A.BRENNECKE/R.MCINTOSH

WPX - RGU 323-24-198 - 9.625" SURFACE MULTI STAGE 1



WPX - RGU 323-24-198 - 9.625" SURFACE MULTI STAGE 2



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

45;38.4	⑩ Pump Lead Cement 8.39;4;216;40.4	⑬ Shutdown 0.36;0;133;80.9	⑯ Other 8.35;4.1;125;138.8	⑲ Check Floats 8.33;0;375;294.6	22 O
9;2.2;88;0.4	⑪ Pump Tail Cement 12.69;6.9;400;196.4	⑭ Drop Plug 10.38;0;47;80.9	⑰ Slow Rate 8.38;4.7;756;291.7	20 Drop Opening Device For Multiple Stage Cementer 8.31;0;45;294.6	23 P
3117;2.1	⑫ Shutdown 9.61;0;69;70.7	⑮ Pump Displacement 10.39;0;47;0	⑱ Bump Plug 8.36;0.4;939;294.6	21 Pump Spacer 1 8.31;0.5;56;0.1	24 S

▼ **HALLIBURTON** | iCem® Service

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Job Date: 4/23/2014 10:43:43 AM

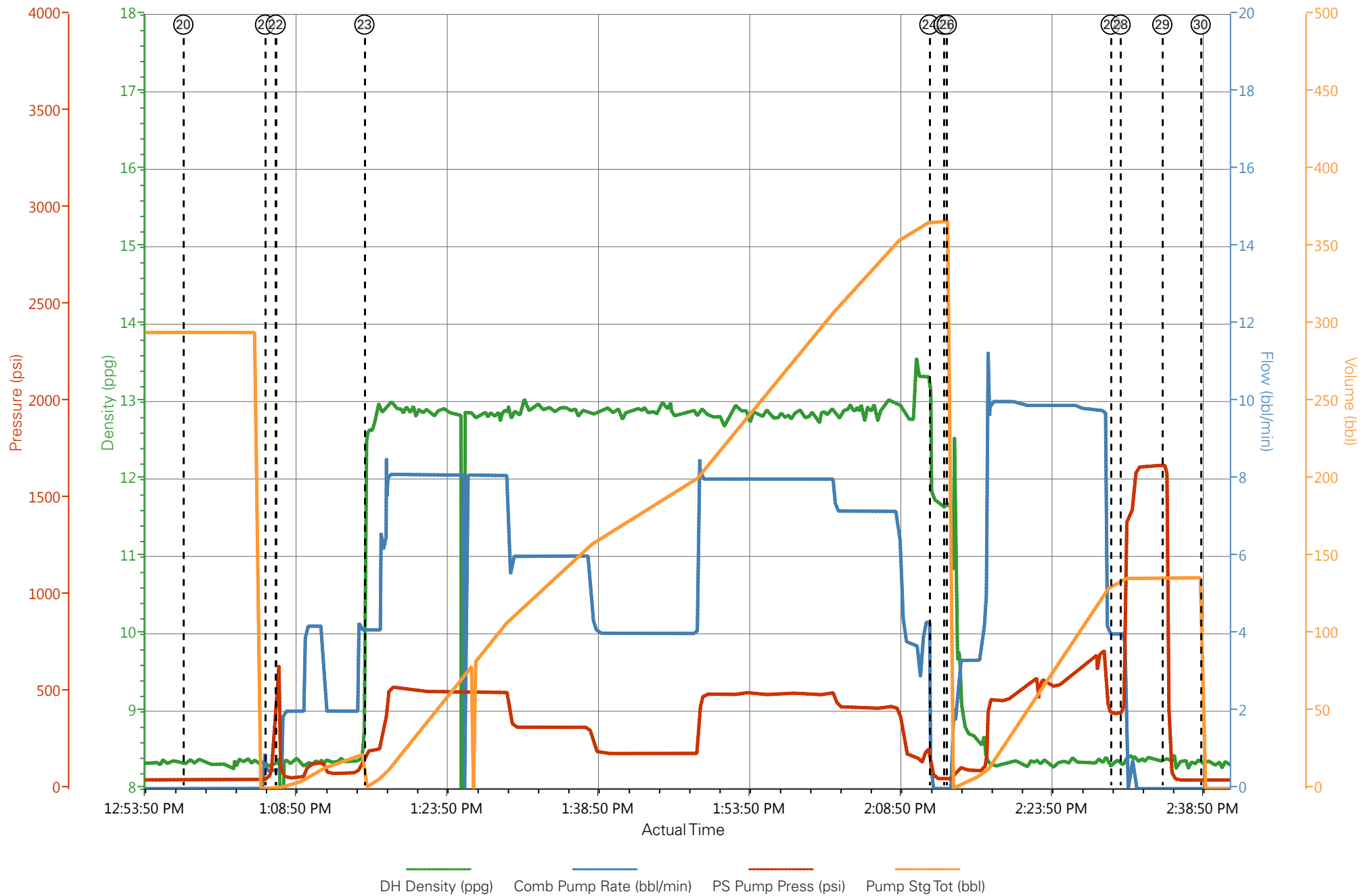
Well: RGU 323-24-198

Representative: TED RAGSDALE

Sales Order #: 901286433

ELITE#9: A.BRENNECKE/D.SINCLAIR

WPX - RGU 323-24-198 - 9.625" SURFACE MULTI STAGE 2





Water Analysis Report

Company: WPX
Submitted by: A.BRENNECKE
Attention: C.ROSS
Lease: RGU
Well #: 323-24-198

Date: 4/23/2014
Date Rec.: 4/23/2014
S.O.#: 901286433
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	8
Potassium (K)	<i>5000</i>	200 Mg / L
Calcium (Ca)	<i>500</i>	250 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>	49 Deg
Total Dissolved Solids		420 Mg / L

Respectfully: A.BRENNECKE

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 #: 0901286443	Line Item: 10	Survey Conducted Date: 4/23/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT MULTIPLE STAGES BOM
Customer Representative: TED RAGSDALE		API / UWI: (leave blank if unknown) 05-103-12082-00
Well Name: FEDERAL		Well Number: 0080359386
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	4/23/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB58348
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	TED RAGSDALE
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	GREAT JOB GUYS THANKS

CUSTOMER SIGNATURE

Sales Order #: 0901286443	Line Item: 10	Survey Conducted Date: 4/23/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT MULTIPLE STAGES BOM
Customer Representative: TED RAGSDALE		API / UWI: (leave blank if unknown) 05-103-12082-00
Well Name: FEDERAL		Well Number: 0080359386
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: RIO BLANCO

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	4/23/2014

Cementing KPI Survey	
Type of Job Select the type of job. (Cementing or Non-Cementing)	0
Select the Maximum Deviation range for this Job What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	6
HSE Incident, Accident, Injury HSE Incident, Accident, Injury. This should be recordable incidents only.	No
Was the job purpose achieved? Was the job delivered correctly as per customer agreed design?	Yes
Operating Hours (Pumping Hours) Total number of hours pumping fluid on this job. Enter in decimal format.	4.5
Customer Non-Productive Rig Time (hrs) 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.	0
Type of Rig Classification Job Was Performed Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
Number Of JSAs Performed Number Of Jsas Performed	5
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Was this a Primary Cement Job (Yes / No)	Yes

Sales Order #: 0901286443	Line Item: 10	Survey Conducted Date: 4/23/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT MULTIPLE STAGES BOM
Customer Representative: TED RAGSDALE		API / UWI: (leave blank if unknown) 05-103-12082-00
Well Name: FEDERAL		Well Number: 0080359386
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	97
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	7
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