

WPX Energy Rocky Mountain LLC - EBUS

RGU 444-23-198

Aztec 1000

Post Job Summary
Cement Surface Casing

Date Prepared: 11/13/2014
Job Date: 11/05/2014

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 3560630		Quote #:		Sales Order #: 0901795810				
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: Brandon Haire						
Well Name: FEDERAL		Well #: RGU 444-23-198		API/UWI #: 05-103-12139-00						
Field: SULPHUR CREEK		City (SAP): MEEKER		County/Parish: RIO BLANCO		State: COLORADO				
Legal Description: SE SE-23-1S-98W-1028FSL-645FEL										
Contractor:				Rig/Platform Name/Num: Aztec 1000						
Job BOM: 7521										
Well Type: DIRECTIONAL GAS										
Sales Person: HALAMERICA\HX23209				Srv Supervisor: Dustin Hyde						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		3947ft		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
Casing	0	9.625	9.001	36	8 RD	J-55	0	3947	0	3947
Open Hole Section			13.5				0	3951	0	3951
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	9.625	1		3911		Top Plug	9.625			
Float Shoe	9.625	1				Bottom Plug	9.625			
Float Collar	9.625	1				SSR plug set	9.625			
Insert Float	9.625	1				Plug Container	9.625	1	HES	
Stage Tool	9.625	1				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 ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Fresh Water	Fresh Water		50	bbl	8.34			10	
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	Stage 1 Lead	VARICEM (TM) CEMENT	695	sack	12.8	1.77		8	9.31
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
3	Stage 1 Tail	VARICEM (TM) CEMENT	240	sack	12.8	2.11		5	11.77
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
4	Fresh Water Displacement	Fresh Water Displacement	302	bbl	8.34			12	
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
5	Fresh Water Spacer	Fresh Water Spacer	30	bbl	8.34			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
6	Stage 2 Primary	VARICEM (TM) CEMENT	875	sack	12.8	2.18		8	12.11
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
7	Fresh Water Displacement	Fresh Water Displacement	135.3	bbl	8.34			10	
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
8	Super Flush 100	Super Flush 100	45	GAL	11.7				
		FRESH WATER							

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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
9	Top Out Cement	HALCEM (TM) SYSTEM	225	sack	15.6	1.21		2	5.5
		FRESH WATER							
Cement Left In Pipe		Amount	46 ft			Reason		Shoe Joint	
Comment									

4.5 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	11/4/2014	11:00:00	USER					ROLLED FROM FIELD ON LOCATION TO BE@ 1500
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	11/4/2014	11:45:00	USER					
Event	3	Crew Leave Yard	Crew Leave Yard	11/4/2014	12:00:00	USER					CREW WITH BULK TRUCKS AND MATERIALS LEFT YARD @ 10:00. CREW WITH PUMP AND PICKUP LEFT OTHER LOCATION AT 12:00
Event	4	Arrive At Loc	Arrive At Loc	11/4/2014	15:00:00	USER					RIG PULLING DRILL PIPE UPON HES ARRIVAL
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	11/4/2014	15:30:00	USER					PERFORMED JSA AND WATER TEST
Event	6	Other	Spot Equipment	11/5/2014	00:00:00	USER					
Event	7	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	11/5/2014	00:30:00	USER					2 1700 CUFT SILO'S, 1 BULK TRUCK, 1 HT 400 PUMP TRUCK ELITE #8, 1 550 PICKUP TRUCK. 9 5/8" HEAD WITH POSITIVE DISPLACEMENT ALSO WITH T WITH 1" FOR RIG TO CIRCULATE AND 2" FOR CEMENT JOB
Event	8	Rig-Up Equipment	Rig-Up Equipment	11/5/2014	00:45:00	USER					
Event	9	Rig-Up Completed	Rig-Up Completed	11/5/2014	01:45:00	USER					
Event	10	Pre-Job Safety Meeting	Pre-Job Safety Meeting	11/5/2014	02:45:00	USER					MUD 9.6 PPG, VIS 35, YP 21
Event	11	Start Job	Start Job	11/5/2014	03:00:36	COM5					TD 0-1750' OF 14 3/4" OH, 1750- 3951' OF 13.5" OH, TP 3947' OF 9 5/8" 36# J-55 SURFACE CASING WITH A SI OF 46'

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	12	Prime Pumps	Prime Lines	11/5/2014	03:02:57	COM5	8.33	2.0	134	2	FRESH WATER
Event	13	Test Lines	Test Lines	11/5/2014	03:08:28	COM5			3700		PRESSURE HELD @ 3700 FALLING 1 EVERY 4-6 SECONDS
Event	14	Pump Spacer 1	Pump H2O Spacer	11/5/2014	03:12:09	COM5	8.33	10.0	560	50	50 BBLS OF FRESH WATER
Event	15	Check Weight	Check weight	11/5/2014	03:15:29	COM5					FIRST TUB CHECKED WEIGHT
Event	16	Slow Rate	Slow Rate	11/5/2014	03:19:03	USER	8.33	4.0	230	5	SLOWED TO 4 BBLS A MIN TO GO INTO CMT
Event	17	Pump Lead Cement	Pump Lead Cement	11/5/2014	03:21:15	COM5	12.8	8.0	546	219	695 SKS 12.8 PPG 1.77 FT3/SKS 9.31 GAL/SKS
Event	18	Slow Rate	Slow Rate	11/5/2014	03:29:26	USER	12.8	.5	0	60	SLOWED DUE TO RIG PUMP SUCKING FROM CELLUR BROKE DOWN
Event	19	Resume	Resume	11/5/2014	03:44:05	USER	12.8	8.0	390	80	SWITCHED OVER HOSES RESUMED PUMPING
Event	20	Slow Rate	Slow Rate	11/5/2014	03:58:18	USER	12.8	6.0	255	180	ENDING SILO
Event	21	Pump Tail Cement	Pump Tail Cement	11/5/2014	04:02:35	COM5	12.8	8.0	350	90	240 SKS 12.8 PPG 2.11 FT3/SKS 11.77 GAL/ SKS
Event	22	Slow Rate	Slow Rate	11/5/2014	04:06:48	USER	12.8	.5	0	20	SLOWED FOR RIG TO SWAP HOSES BACK AROUND
Event	23	Shutdown	Shutdown	11/5/2014	04:21:15	COM5					WASHING UP ON TOP
Event	24	Drop Plug	Drop Plug	11/5/2014	04:27:53	COM5					PLUG DROPPED VERIFIED BY CO. REP
Event	25	Pump Displacement	Pump Displacement	11/5/2014	04:33:16	COM5	8.33	12	950	302	FRESH WATER WITH FIRST 10 BBLS OUT OF MIXING TUB
Event	26	Slow Rate	Slow Rate	11/5/2014	04:45:53	USER	8.33	4.0	35	125	SLOWED RATE FOR PLUG TO GO THROUGH TOOL
Event	27	Resume	Resume	11/5/2014	04:52:27	USER	8.33	12	574	145	RESUMED RATE AFTER PLUG WENT THROUGH TOOL
Event	28	Slow Rate	Slow Rate	11/5/2014	05:03:46	USER	8.33	4.0	500	280	

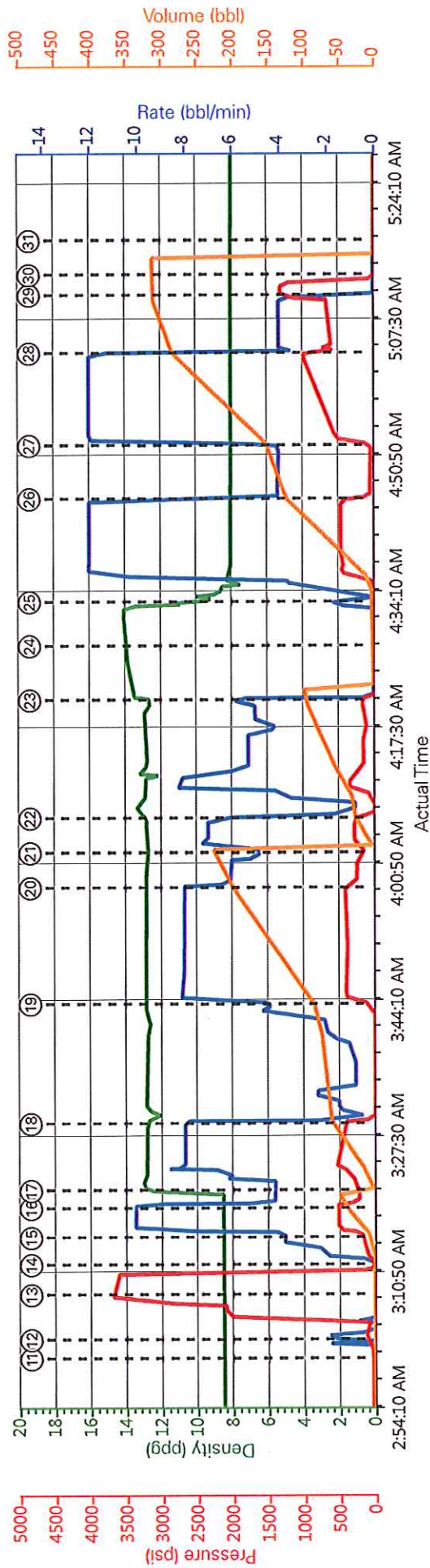
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Created: Wednesday, November 05, 2014

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	29	Bump Plug	Bump Plug	11/5/2014	05:10:54	COM5	8.33	4.0	500	302	PLUG BUMPED
Event	30	Check Floats	Check Floats	11/5/2014	05:13:24	USER			1314		1.5 BBLS BACK FLOATS HELD
Event	31	Drop Plug	Drop Opening Device	11/5/2014	05:17:36	COM5					DROPPED OPENING DEVICE AND PRE LOADED TOP PLUG
Event	32	Open Multiple Stage Cementer	Open Multiple Stage Cementer	11/5/2014	05:31:35	COM5					TOOK 480 PSI TO OPEN MSC STARTED 2 ND STAGE
Event	33	Pump Spacer	Pump H2O Spacer	11/5/2014	05:32:55	USER	8.33	4.0	177	30	FRESH WATER
Event	34	Check Weight	Check weight	11/5/2014	05:36:10	COM5					
Event	35	Pump Tail Cement	Pump Tail Cement	11/5/2014	05:39:04	COM5	12.8	8.0	419	340	875 SKS 12.8 PPG 2.18 FT3/SKS 12.11 GAL/SKS
Event	36	Slow Rate	Slow Rate	11/5/2014	06:20:49	USER	12.8	6.0	200	320	SLOWED TO END SILO LAST 20 BBLS
Event	37	Shutdown	Shutdown	11/5/2014	06:23:43	USER					
Event	38	Drop Top Plug	Drop Plug	11/5/2014	06:26:17	COM5					DROPPED CLOSING TOOL
Event	39	Pump Displacement	Pump Displacement	11/5/2014	06:28:07	COM5	8.33	10	730	135	FRESH WATER WITH FIRST 10 BBLS OUT OF MIXING TUB
Event	40	Slow Rate	Slow Rate	11/5/2014	06:43:42	USER	8.33	4.0	407	125	
Event	41	Bump Plug	Bump Plug	11/5/2014	06:48:23	COM5	8.33	4.0	417	135	20 BBLS OF CMT TO SURFACE FELL BACK ABOUT 150' WHEN WE SHUT DOWN AND PLUG BUMPED
Event	42	Check Floats	Check Floats	11/5/2014	06:51:43	USER			1744		1.5 BBLS BACK CLOSED OF CASING
Event	43	End Job	End Job	11/5/2014	06:55:00	USER					END OF 2 STAGE SURFACE GETTING READY FOR TOP OUT

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	44	Start Job	Start Job	11/5/2014	08:37:02	USER					TOP OUT
Event	45	Prime Pumps	Prime Lines	11/5/2014	08:38:34	USER	8.33	.8	0	1.0	WATER AHEAD TO MAKE SURE LINES CLEAR
Event	46	Pump Cement	Pump Cement	11/5/2014	08:39:06	USER	15.6	2.0	30	44	225 SKS 15.6 PPG 1.21 YIELD, 5.5 GAL / SK WITH 30 GAL OF CALCIUM CHLORIDE AND 45 GAL OF SUPERFLUSH 100
Event	47	Shutdown	Shutdown	11/5/2014	08:43:40	USER					MIX MORE CEMENT
Event	48	Resume	Resume	11/5/2014	08:49:17	USER					PUMP CEMENT
Event	49	Shutdown	Shutdown	11/5/2014	08:54:32	USER					MIX MORE CEMENT
Event	50	Resume	Resume	11/5/2014	09:00:50	USER					
Event	51	Shutdown	Shutdown	11/5/2014	09:18:44	USER					
Event	52	End Job	End Job	11/5/2014	09:19:30	USER					BROUGHT CEMENT TO SURFACE
Event	53	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	11/5/2014	10:30:00	USER					
Event	54	Rig-Down Equipment	Rig-Down Equipment	11/5/2014	10:45:00	USER					
Event	55	Rig-Down Completed	Rig-Down Completed	11/5/2014	12:00:00	USER					
Event	56	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	11/5/2014	12:15:00	USER					
Event	57	Crew Leave Location	Crew Leave Location	11/5/2014	12:30:01	USER					THANK YOU FOR USING HALLIBURTON, DUSTIN HYDE AND CREW

WPX FEDERAL RGU 444-23-198



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

① Call Out n/a;n/a;n/a	20 Slow Rate 12.81;6.1;300;201.5	39 Pump Displacement 8.29;3.1;24;3.8
② Pre-Convoy Safety Meeting n/a;n/a;n/a	21 Pump Tail Cement 12.79;4.9;139;0	40 Slow Rate 8.04;4;402;126.9
③ Crew Leave Yard n/a;n/a;n/a	22 Slow Rate 13.17;1.7;27.4	41 Bump Plug 8.08;0;1693.05;141.8
④ Arrive At Loc n/a;n/a;n/a	23 Shutdown 13.59;0;11;97.4	42 Check Floats 8.03;0;-14;141.8
⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a	24 Drop Plug 13.95;0;-24;0	43 End Job 8.02;0;-18;0
⑥ Spot Equipment n/a;n/a;n/a	25 Pump Displacement 9.68;0;-19;1.4	44 Start Job -0.35;0;-37;0
⑦ Pre-Rig Up Safety Meeting n/a;n/a;n/a	26 Slow Rate 8.03;4;49;124.9	45 Prime Lines -0.35;0;-36;0
⑧ Rig-Up Equipment n/a;n/a;n/a	27 Resume 8.05;11.8;406;153.1	46 Pump Cement 8.48;1.4;-36;0.4
⑨ Rig-Up Completed 8.53;0;9;0	28 Slow Rate 8.04;4;583;285.7	47 Shutdown 14.86;0;-23;8.8
⑩ Pre-Job Safety Meeting 8.49;0;24;0	29 Bump Plug 8.06;0;1307;311.3	48 Resume 13.11;0.9;-35;9
⑪ Start Job 8.5;0;25;0	30 Check Floats 8.03;0;-21;311.3	49 Shutdown 11.78;0;-39;17.9
⑫ Prime Lines 8.55;1.9;130;1.3	31 Drop Opening Device 8.02;0;-22;0	50 Resume 14.38;1.1;-31;18.5
⑬ Test Lines 8.59;0;3647;2.1	32 Open Multiple Stage Cementer 8.02;0;-10;0	51 Shutdown 16.45;0.5;-45;45.2
⑭ Pump H2O Spacer 8.49;0;23;2.1	33 Pump H2O Spacer 8.06;4.3;163;4.4	52 End Job 1.97;0;-49;45.7
⑮ Check weight 8.52;3.8;177;9.1	34 Check weight 8.04;4.3;155;18.3	53 Post-Job Safety Meeting (Pre Rig-Down) n/a;n/a;n/a
⑯ Slow Rate 8.53;10;525;43.6	35 Pump Tail Cement 10.42;4.2;152;30.5	54 Rig-Down Equipment n/a;n/a;n/a
⑰ Pump Lead Cement 12.99;4.2;261;2.8	36 Slow Rate 12.94;5.8;201;328.8	55 Rig-Down Completed n/a;n/a;n/a
⑱ Slow Rate 12.43;1.7;87;61.6	37 Shutdown 12.29;5.8;178;345.5	56 Pre-Convoy Safety Meeting n/a;n/a;n/a
⑲ Resume 12.82;6.1;227;87.6	38 Drop Plug 12.34;0;-3;348	57 Crew Leave Location n/a;n/a;n/a

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Created: 2014-11-04 18:40:39, Version: 4.0.248

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 11/5/2014 1:40:29 AM

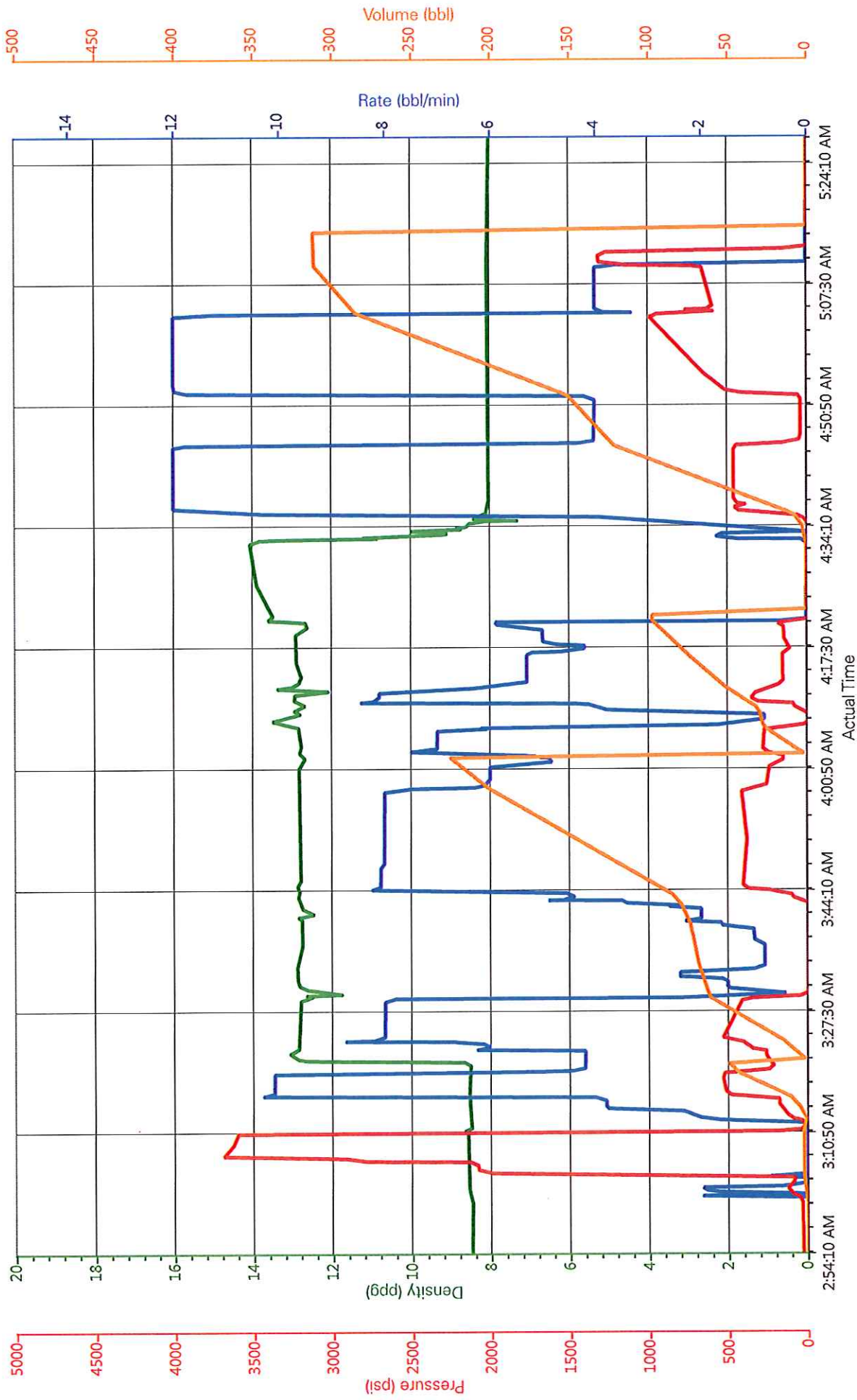
Well: Fed Rgu 444-23-198

Representative: Brandon Haire

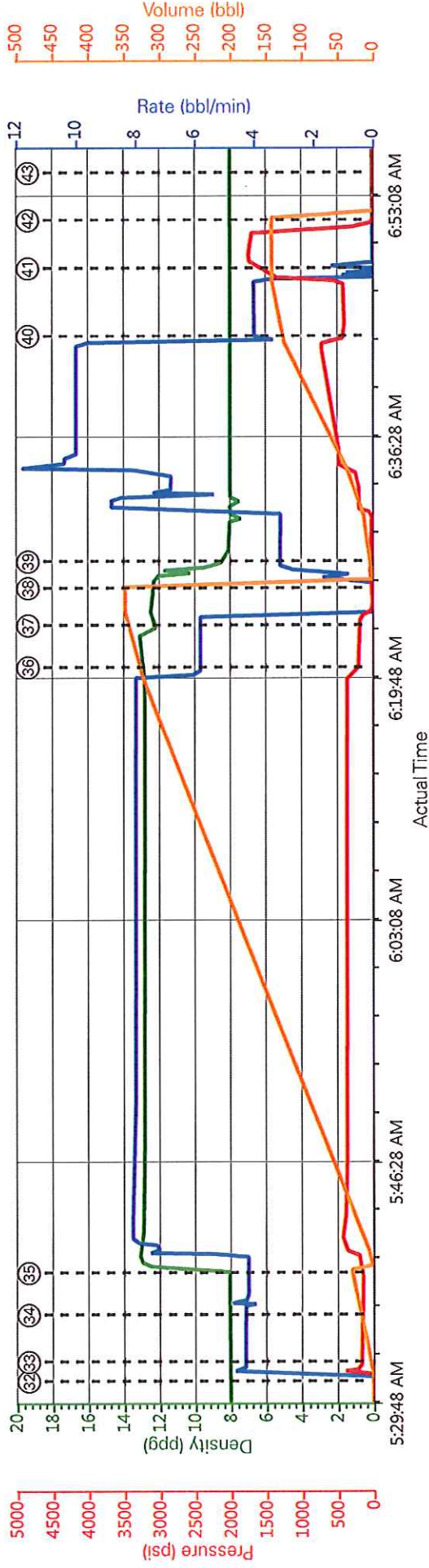
Sales Order #: 901795810

Elite # 8: Dustin Hyde / Max Lobato

Edit



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



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

1	Call Out	n/a;n/a;n/a;n/a	20	Slow Rate	12.81;6.1;300;201.5	39	Pump Displacement	8.29;3.1;24;3.8
2	Pre-Convoy Safety Meeting	n/a;n/a;n/a;n/a	21	Pump Tail Cement	12.79;4.9;139;0	40	Slow Rate	8.04;4.402;126.9
3	Crew Leave Yard	n/a;n/a;n/a;n/a	22	Slow Rate	13.17;1.7;17;27.4	41	Bump Plug	8.08;0;1693.05;141.8
4	Arrive At Loc	n/a;n/a;n/a;n/a	23	Shutdown	13.59;0;11;97.4	42	Check Floats	8.03;0;-14;141.8
5	Assessment Of Location Safety Meeting	n/a;n/a;n/a;n/a	24	Drop Plug	13.95;0;-24;0	43	End Job	8.02;0;-18;0
6	Spot Equipment	n/a;n/a;n/a;n/a	25	Pump Displacement	9.68;0;-19;1.4	44	Start Job	-0.35;0;-37;0
7	Pre-Rig Up Safety Meeting	n/a;n/a;n/a;n/a	26	Slow Rate	8.03;4.49;124.9	45	Prime Lines	-0.35;0;-36;0
8	Rig-Up Equipment	n/a;n/a;n/a;n/a	27	Resume	8.05;11.8;406;153.1	46	Pump Cement	8.48;1.4;-36;0.4
9	Rig-Up Completed	8.53;0;9;0	28	Slow Rate	8.04;4.583;285.7	47	Shutdown	14.86;0;-23;8.8
10	Pre-Job Safety Meeting	8.49;0;24;0	29	Bump Plug	8.06;0;1307;311.3	48	Resume	13.11;0.9;-35;9
11	Start Job	8.5;0;25;0	30	Check Floats	8.03;0;-21;311.3	49	Shutdown	11.78;0;-39;17.9
12	Prime Lines	8.55;1.9;130;1.3	31	Drop Opening Device	8.02;0;-22;0	50	Resume	14.38;1.1;-31;18.5
13	Test Lines	8.59;0;3647;2.1	32	Open Multiple Stage Cementer	8.02;0;-10;0	51	Shutdown	16.45;0.5;-45;45.2
14	Pump H2O Spacer	8.49;0;23;2.1	33	Pump H2O Spacer	8.06;4.3;163;4.4	52	End Job	1.97;0;-49;45.7
15	Check weight	8.52;3.8;177;9.1	34	Check weight	8.04;4.3;155;18.3	53	Post-Job Safety Meeting (Pre Rig-Down)	n/a;n/a;n/a;n/a
16	Slow Rate	8.53;10;525;43.6	35	Pump Tail Cement	10.42;4.2;152;30.5	54	Rig-Down Equipment	n/a;n/a;n/a;n/a
17	Pump Lead Cement	12.99;4.2;261;2.8	36	Slow Rate	12.94;5.8;201;328.8	55	Rig-Down Completed	n/a;n/a;n/a;n/a
18	Slow Rate	12.43;1.7;87;61.6	37	Shutdown	12.29;5.8;178;345.5	56	Pre-Convoy Safety Meeting	n/a;n/a;n/a;n/a
19	Resume	12.82;6.1;227;87.6	38	Drop Plug	12.34;0;-3;348	57	Crew Leave Location	n/a;n/a;n/a;n/a

▼ **HALLIBURTON** | iCem® Service

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Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 11/5/2014 1:40:29 AM

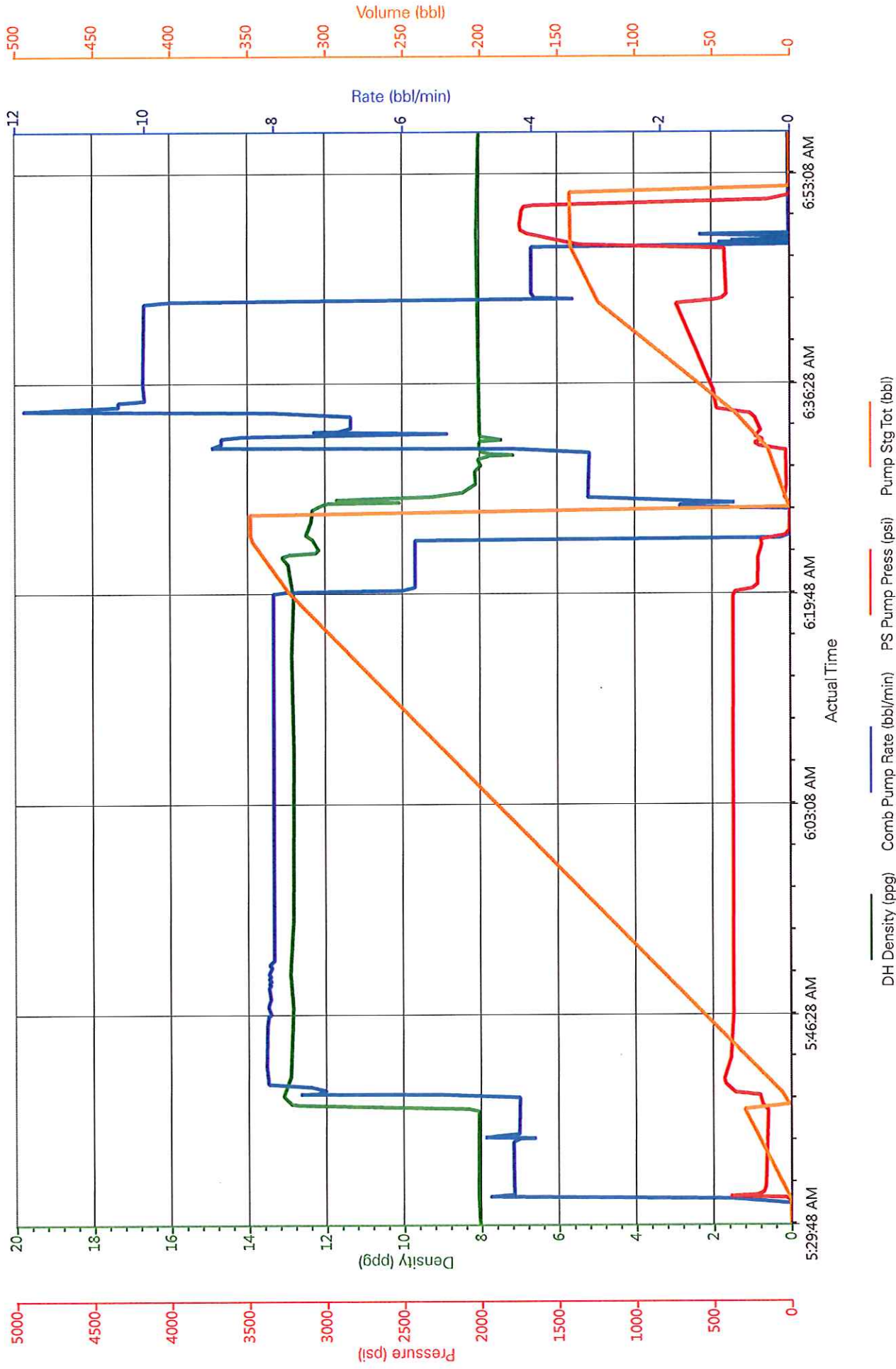
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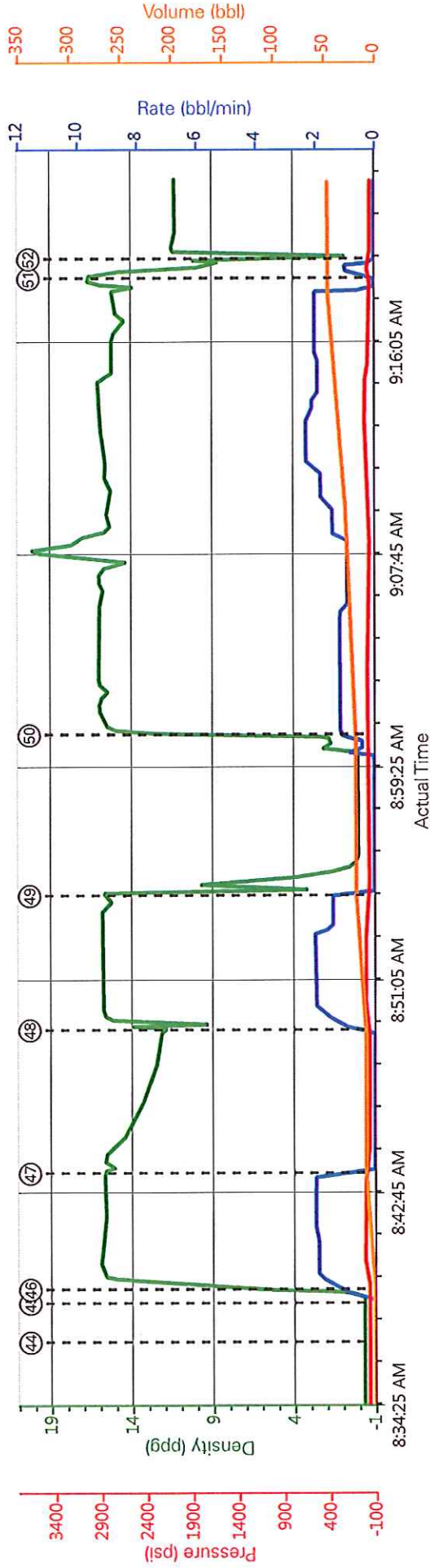
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DH Density (ppg) Comb Pump Rate (bbl/min) PS Pump Press (psi) Pump Stg Tot (bbl)

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⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a	24 Drop Plug 13.95;0;24;0	43 End Job 8.02;0;-18;0
⑥ Spot Equipment n/a;n/a;n/a	25 Pump Displacement 9.68;0;-19;1.4	44 Start Job -0.35;0;-37;0
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⑩ Pre-Job Safety Meeting 8.49;0;24;0	29 Bump Plug 8.06;0;1307;311.3	48 Resume 13.11;0.9;-35;9
⑪ Start Job 8.5;0;25;0	30 Check Floats 8.03;0;-21;311.3	49 Shutdown 11.78;0;-39;17.9
⑫ Prime Lines 8.55;1.9;130;1.3	31 Drop Opening Device 8.02;0;-22;0	50 Resume 14.38;1.1;-31;18.5
⑬ Test Lines 8.59;0;3647;2.1	32 Open Multiple Stage Cementer 8.02;0;-10;0	51 Shutdown 16.45;0.5;-45;45.2
⑭ Pump H2O Spacer 8.49;0;23;2.1	33 Pump H2O Spacer 8.06;4.3;163;4.4	52 End Job 1.97;0;-49;45.7
⑮ Check weight 8.52;3.8;177;9.1	34 Check weight 8.04;4.3;155;18.3	53 Post-Job Safety Meeting (Pre Rig-Down) n/a;n/a;n/a
⑯ Slow Rate 8.53;10;525;43.6	35 Pump Tail Cement 10.42;4.2;152;30.5	54 Rig-Down Equipment n/a;n/a;n/a
⑰ Pump Lead Cement 12.99;4.2;261;2.8	36 Slow Rate 12.94;5.8;201;328.8	55 Rig-Down Completed n/a;n/a;n/a
⑱ Slow Rate 12.43;1.7;87;61.6	37 Shutdown 12.29;5.8;178;345.5	56 Pre-Convoy Safety Meeting n/a;n/a;n/a
⑲ Resume 12.82;6.1;227;87.6	38 Drop Plug 12.34;0;-3;348	57 Crew Leave Location n/a;n/a;n/a

▼ **HALLIBURTON** | iCem® Service

Created: 2014-11-04 18:40:39, Version: 4.0.248

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 11/5/2014 1:40:29 AM

Well: Fed Rgu 444-23-198

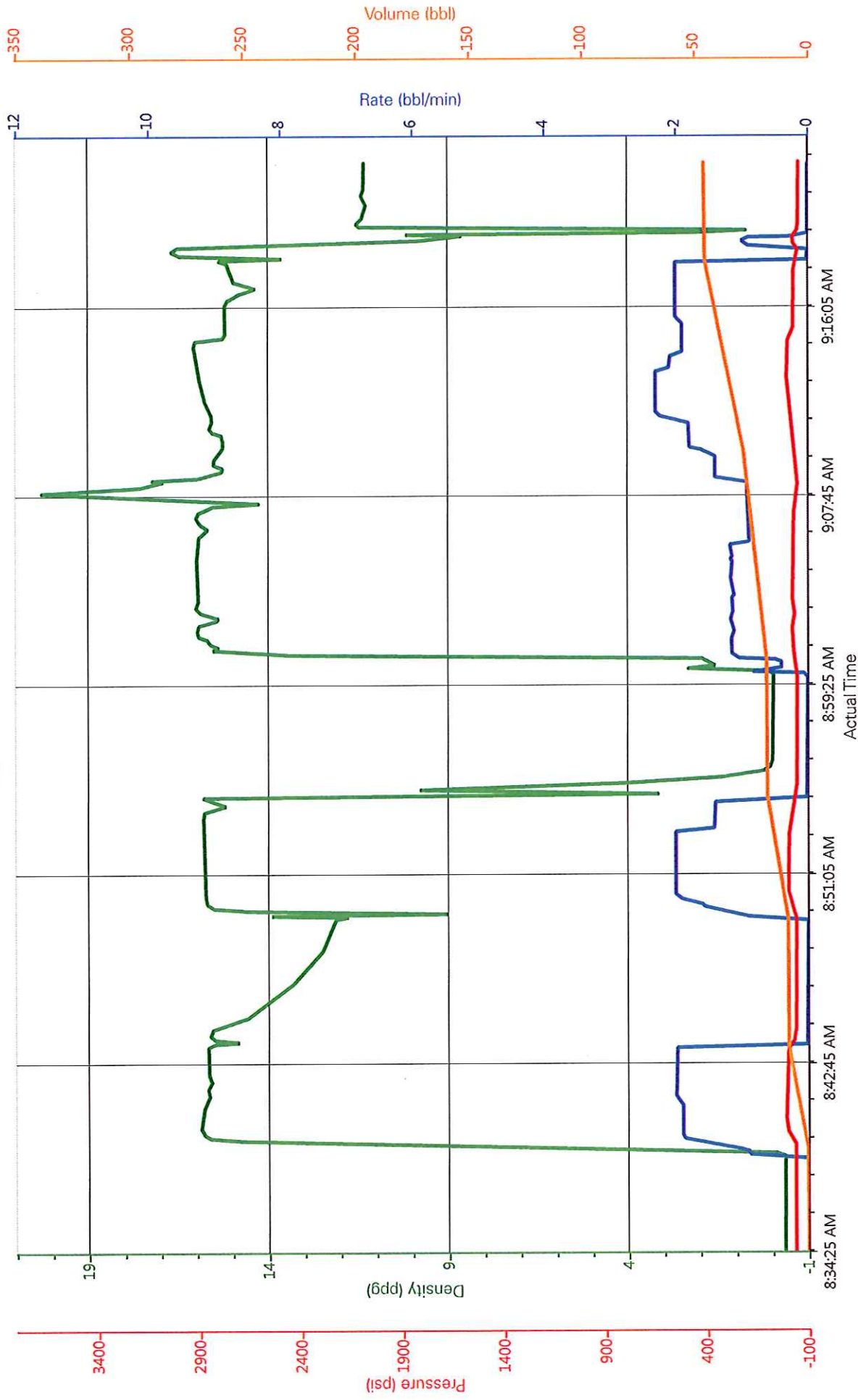
Representative: Brandon Haire

Sales Order #: 901795810

Elite # 8: Dustin Hyde / Max Lobato

Edit

WPX FEDERAL RGU 444-23-198



▼ **HALLIBURTON** | iCem® Service

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Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

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Sales Order #: 901795810

Elite # 8: Dustin Hyde / Max Lobato

HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: Dustin Hyde
Attention: J.TROUT
Lease: FED RGU
Well #: 444-23-198

Date: 11/4/2014
Date Rec.: 11/4/2014
S.O.#: 901795810
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	6.5
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>	<200 Mg / L
Temp	<i>40-80</i>	44 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 its use

Sales Order #: 0901795810	Line Item: 10	Survey Conducted Date: 11/5/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: JOSH GARIBAY		API / UWI: (leave blank if unknown) 05-103-12139-00
Well Name: FEDERAL		Well Number: 0080641193
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	11/5/2014
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	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

Sales Order #: 0901795810	Line Item: 10	Survey Conducted Date: 11/5/2014
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Well Name: FEDERAL		Well Number: 0080641193
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	11/5/2014

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.	9
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
Pumping Hours Total number of hours pumping fluid on this job. Enter in decimal format.	5
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
Was this a Primary Cement Job (Yes / No) Primary Cement Job= Casing job, Liner job, or Tie-back job.	Yes
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Customer Non-Productive Rig Time (hrs)	0

Sales Order #: 0901795810	Line Item: 10	Survey Conducted Date: 11/5/2014
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Customer Representative: JOSH GARIBAY		API / UWI: (leave blank if unknown) 05-103-12139-00
Well Name: FEDERAL		Well Number: 0080641193
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	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