

HALLIBURTON

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**GM 701-28
PARACHUTE
Garfield County , Colorado**

Cement Intermediate Casing

12-Dec-2013

Post Job Report

Sold To # : 300721

Ship To # :3116922

Quote # :

Sales Order # : 900961293

SUMMIT Version: 7.3.0109

Monday, December 23, 2013 03:28:00

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3116922	Quote #:	Sales Order #: 900961293
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Duniho, Al	
Well Name: GM		Well #: 701-28-HN1	API/UWI #:
Field: RULISON	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat:		Long:	
Contractor: Aztec		Rig/Platform Name/Num: 1000	
Job Purpose: Cement Multiple Stages			Ticket Amount:
Well Type: Exploratory / Wildcat		Job Type: Cement Multiple Stages	
Sales Person: MASON, KYLE		Srv Supervisor: BRENNECKE, ANDREW	MBU ID Emp #: 486345

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/11/2013 06:15							
Pre-Convoy Safety Meeting	12/11/2013 10:30							ALL HES PERSONEL
Crew Leave Yard	12/11/2013 10:45							
Arrive At Loc	12/11/2013 12:30							CEMENTER ARRIVED ON LOCATION AT 12:30 WHILE CREW REAMINED BELOW LOCATION CHAINING UP VEHICLES. RIG STARTED CIRCULATING ON BOTTOM AT 08:30
Assessment Of Location Safety Meeting	12/11/2013 13:00							ALL HES PERSONEL
Rig-Up Equipment	12/11/2013 13:30							1-ELITE, 3-660 BULK TRUCKS,1-1700 SILO,1-1600 STORAGE BIN, 2" PUMPING IRON, 9.625" PLUG CONTAINER AND QUICKLATCH, 1-BOOSTER TRAILER
Rig-Up Completed	12/11/2013 16:00							
Pre-Job Safety Meeting	12/11/2013 16:30							ALL HES PERSONEL AND RIG CREW
Start Job	12/11/2013 16:46							TD- 11252', TP- 11247', OH- 12 1/4", CASING- 9 5/8" 47#, SURFACE CASING SET @ 2950' 13 3/8" 68#, SJ- 40.14', DV TOOL SET @ 4518'

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Water	12/11/2013 16:47		2	2			448.0	FILL LINES
Pressure Test	12/11/2013 16:50		0.1	0.1				PRESSURE TEST LINES WITH 4516 PSI, GOOD TEST NO LEAKS IN THE LINES
Pump Spacer	12/11/2013 16:56		4	30			630.0	MUD FLUSH
Pump Spacer 1	12/11/2013 17:08		5.5	70			808.0	1ST STAGE TSIII 70 BBL 13.5PPG, 1.81FT3/SK, 10.66 GAL/SK
Pump Lead Cement	12/11/2013 17:25		6	93.6			1315.0	1ST STAGE 360 SKS, 14.2 PPG, 1.46 FT3/SK, 6 GAL/SK
Pump Tail Cement	12/11/2013 17:41		7	487			1113.0	1ST STAGE 1860 SKS, 14.2 PPG, 1.47 FT3/SK, 5.95 GAL/SK
Shutdown	12/11/2013 19:02							WASHED UP ON TOP OF PLUG
Drop Plug	12/11/2013 19:06							TOOK CAP OFF CEMENT HEAD OFF TO DROP DART
Pump Displacement	12/11/2013 19:11		8	310			480.0	WATER BASED MUD
Slow Rate	12/11/2013 19:56		4	30	340		154.0	SLOWED RATE FOR DART TO PASS THROUGH TOOL
Pump Displacement	12/11/2013 20:04		8	136	476		1058.0	WATER BASED MUD
Pump Water	12/11/2013 20:21		8	20			990.0	FRESH WATER
Pump Gel - Start	12/11/2013 20:24		8	8			1100.0	GEL SPACER
Pump Displacement	12/11/2013 20:25		8	306			1760.0	WATER BASED MUD, @ 230 BBL AWAY RETURNS SLOWED, STARTED TO LOOK LIKE STRAIGHT LCM.
Slow Rate	12/11/2013 21:02		2	10	316		1301.0	GOOD RETURNS THROUGH MOST OF THE JOB
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Bump Plug	12/11/2013 21:08				316		1480. 0	FRONT END LOADER WAS REMOVING SHAKINGS FROM CATCH TANK THROUGH MOST OF THE JOB FROM THE RETURNS THROUGH THE JOB.
Check Floats	12/11/2013 21:10						1900. 0	FLOATS HELD/ 4.5 BBLs FLOW BACK TO DISPLACEMENT TANK
Drop Opening Device For Multiple Stage Cementer	12/11/2013 21:15							
Open Multiple Stage Cementer	12/11/2013 21:59		3	10			434.0	TOOL OPENED 3 BBLs AWAY 1230 PSI
End Job	12/11/2013 22:05							RETURNS WERE NOT FLOWING AS FAST AS THE PUMP RATE, APPEARED THAT RETURNS WERE TAPERING OFF AFTER 10 MINS OF CIRCULATION AFTER OPENING TOOL, RIG WAS CIRCULATING @ 8 BPM, STOPPED GETTING RETURNS AFTER APPROX 100 BBL OF CIRCULATION,
Comment	12/11/2013 22:06							RETURNS SLOWLY STARTED TO COME BACK WHEN RIG BEGAN PUMPING @ 10 BPM FOR A COUPLE MINS IN RATE 10 BPM OUT RATE WAS .5 BPM WHICH EVENTUALLY STOPPED COMPLETELY. BEFORE RETURNS STOPPED WE STARTED TO SEE SOME MUD MIXED INTO THE CEMENT RETURNS.
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Comment	12/12/2013 07:00							RIG COULD NOT GET CIRCULATION BACK, AFTER 9 HOURS OF CIRCULATING CUSTOMER REP DECIDED TO RELEASE CREW AT 07:00, AND FIGURE OUT WHERE TO GO WITH THE CEMENT JOB BEFORE CALLING THE NEXT CREW.
Comment	12/12/2013 08:32							AT 6 BBLS AWAY AFTER OPENING MSC TSIII WAS IDENTIFIED RETURNING TO SURFACE, FOR THE 4 REMAINING BBLS OF CIRCULATION FROM ELITE PUMP WAS TSIII AS WELL.
Comment	12/12/2013 15:04							TURNOVER TO RIG BY SWAPPING VALVES ON MANIFOLD ON RIG FLOOR TO REDUCE DELAY OF CIRCULATION THROUGH THE TOOL, RIG WAS CIRCULATING AT 8 BPM. APPROX CIRCULATED 24 BBLS TSIII TO SURFACE BEFORE BECOMING CEMENT. 50 BBLS CEMENT TO SURFACE.

The Road to Excellence Starts with Safety

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Well Name: GM			Well #: 701-28-HN1			API/UWI #:	
Field: RULISON		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
Contractor: Aztec			Rig/Platform Name/Num: 1000				
Job Purpose: Cement Multiple Stages							
Well Type: Exploratory / Wildcat				Job Type: Cement Multiple Stages			
Sales Person: MASON, KYLE			Srvc Supervisor: BRENNECKE, ANDREW			MBU ID Emp #: 486345	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ARNOLD, EDWARD John	0.0	439784	BRENNECKE, ANDREW Bailey	0.0	486345	BROWN, TRAVIS A	0.0	396848
HAMMOND, DENNIS C	0.0	287025	LAULAINEN, ROGER Edward	0.0	524413	PONDER, THOMAS Lynn	0.0	427112
ROSS, CHARLES Raymond	0.0	453128	WILSON, BENJAMIN Wallace	0.0	533647			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10616651C	60 mile	10784080	60 mile	10867094	60 mile	10867423	60 mile
10872429	60 mile	10897925	60 mile	11164590	60 mile	11360883	60 mile
11562538	60 mile	11583931	60 mile	11808827	60 mile	11808847	60 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
TOTAL								

Total is the sum of each column separately

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
					11 - Dec - 2013	07:00	MST
Form Type			BHST	On Location	11 - Dec - 2013	12:30	MST
Job depth MD	11252. ft		Job Depth TVD	11252. ft	Job Started	11 - Dec - 2013	16:46
Water Depth			Wk Ht Above Floor		Job Completed	11 - Dec - 2013	00:00
Perforation Depth (MD)	From		To		Departed Loc		

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
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Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

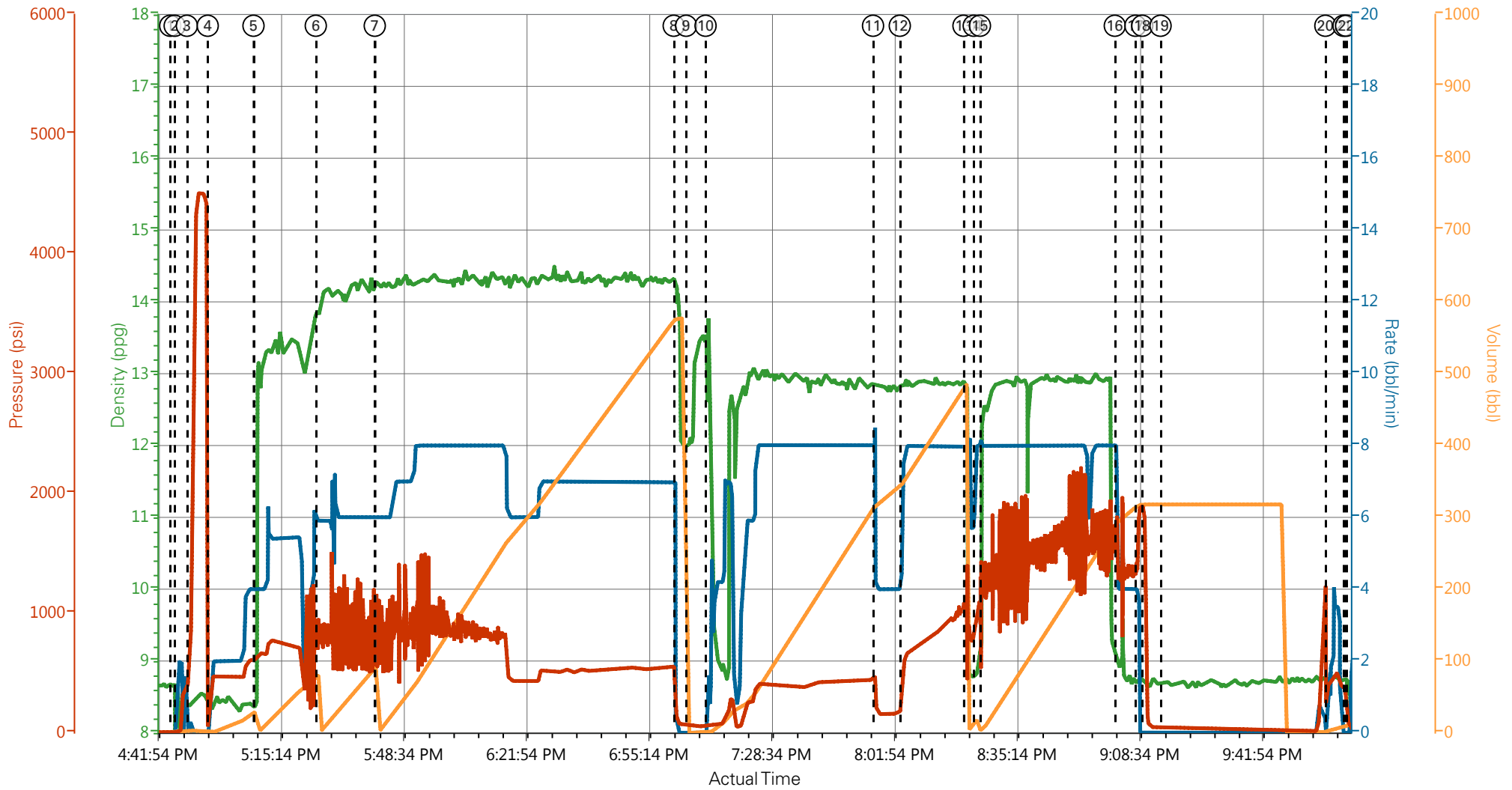
Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
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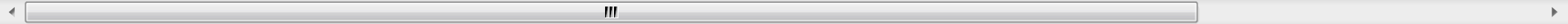
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	MUD FLUSH III	MUD FLUSH III - SBM (528788)	30.00	bbl	8.4	.0	.0	.0	
2	TUNED SPACER III	TUNED SPACER III - SBM (483826)	70.00	bbl	13.5	1.81	10.66	.0	
45.83 gal/bbl		FRESH WATER							
332.833 lbm/bbl		BARITE, BULK (100003681)							
3	Lead Cement First Stage	THERMACEM (TM) SYSTEM (452975)	360.0	sacks	14.2	1.47	6.0		6.0
6 Gal		FRESH WATER							
4	Tail Cement First Stage	THERMACEM (TM) SYSTEM (452975)	1860.0	sacks	14.2	1.47	5.95		5.95
0.3 %		SUPER CBL, 50 LB PAIL (100003668)							
5.95 Gal		FRESH WATER							
5	FRESH WATER DISPLACEMENT		494.00	bbl	8.3	.0	.0	.0	
6	GEL WATER DISPLACEMENT		8.00	bbl	8.85	.0	.0	.0	
18.75 lbm/bbl		AQUAGEL - 100 LB BAG (101252566)							
7	MUD DISPLACEMENT		315.00	bbl	.	.0	.0	.0	
8	MUD FLUSH III	MUD FLUSH III - SBM (528788)	30.00	bbl	8.4	.0	.0	.0	
9	TUNED SPACER III	TUNED SPACER III - SBM (483826)	70.00	bbl	13.5	1.82	10.81	.0	
32.37 gal/bbl		FRESH WATER							
322.3333 lbm/bbl		BARITE, BULK (100003681)							
10	Lead Cement Second Stage	HALCEM (TM) SYSTEM (452986)	180.0	sacks	14.2	1.4	6.6		6.6
0.2 %		SUPER CBL, 50 LB PAIL (100003668)							
0.25 lbm		POLY-E-FLAKE (101216940)							
6.6 Gal		FRESH WATER							
11	Tail Cement Second Stage	HALCEM (TM) SYSTEM (452986)	710.0	sacks	14.2	1.4	6.61		6.61
0.2 %		SUPER CBL, 50 LB PAIL (100003668)							
0.25 lbm		POLY-E-FLAKE (101216940)							
6.61 Gal		FRESH WATER							
12	FRESH WATER DISPLACEMENT		330.00	bbl	8.3	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	0 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

WPX - GM 701-28 HN1 - MULTI STAGE INTERMEDIATE



DH Density (ppg) 8.74 Comb Pump Rate (bbl/min) 3.3 PS Pump Press (psi) 70 Pump Stg Tot (bbl) 14.7

- | | | | | |
|------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|--|
| ① Start Job 8.65;0;5;0 | ⑤ Pump Spacer 2 12.15;4;635;0.1 | ⑨ Drop Top Plug 12.14;0;55;0 | ⑬ Pump Water 12.81;8;1029;0.1 | ⑰ Bump Plug 8.77;0.2;1883;317.9 |
| ② Pump Water 8.59;1.6;6;0.1 | ⑥ Pump Lead Cement 13.93;5.9;825;0.1 | ⑩ Pump Displacement 12.98;0.8;58;0.6 | ⑭ Pump Gel Spacer 8.82;8;979.89;0.14 | ⑱ Check Floats 8.75;0;871;317.9 |
| ③ Test Lines 8.43;0;809;3.1 | ⑦ Pump Tail Cement 14.27;6;582;0.9 | ⑪ Slow Rate 12.84;4;185;318.4 | ⑮ Pump Displacement 12.57;8;1197;5.7 | ⑲ Drop Opening Device For Multiple Stage C |
| ④ Pump Spacer 1 8.37;1;232;0 | ⑧ Shutdown 14.09;0;94;577.2 | ⑫ Pump Displacement 12.84;6;368;348.2 | ⑯ Slow Rate 8.92;4;1378;295.3 | 20 Open Multiple Stage Cemen 8.72;1;405;2 |



HALLIBURTON | iCem® Service

Created: 2013-12-10 16:30:44, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 12/11/2013 3:57:43 PM

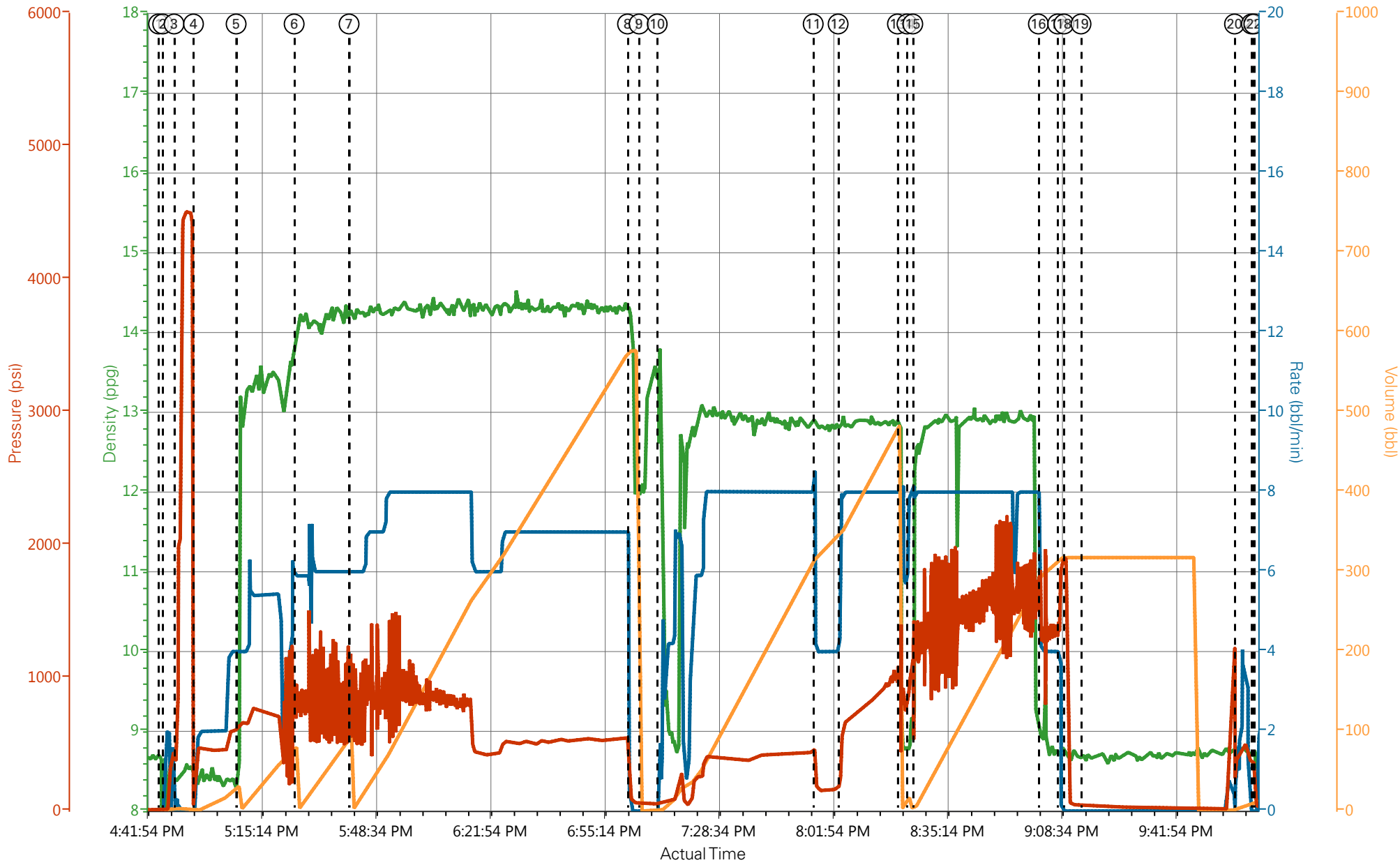
Well: GM 701-28-HN1

Representative: ANDREW BRUNK

Sales Order #: 900961293

ELITE #7/#4: ROGER LAULAINEN / ANDREW BRENNECKE

WPX - GM 701-28 HN1 - MULTI STAGE INTERMEDIATE



DH Density (ppg) 8.74 Comb Pump Rate (bbl/min) 3.3 PS Pump Press (psi) 69 Pump Stg Tot (bbl) 16.7

HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: A.BRENNECKE

Attention: C.ROSS

Lease GM

Well # 701-28-HN1

Date: 12/11/2013

Date Rec.: 12/11/2013

S.O.# 900961293

Job Type: INTERMEDIATE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	6.7
Potassium (K)	<i>5000</i>	200 Mg / L
Calcium (Ca)	<i>500</i>	50 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	400 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	43 Deg
Total Dissolved Solids		470 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.