

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 324-6

Nabors 574

Post Job Summary

Cement Surface Casing

Date Prepared: 05/28/2014
Job Date: 03/10/2014

Submitted by: Kory Hugentobler – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 3207593		Quote #:		Sales Order #: 0901180703	
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: GARY VALLAD			
Well Name: PA			Well #: 324-6		API/UWI #: 05-045-22221-00		
Field: PARACHUTE		City (SAP): PAR		County/Parish: GARFIELD		State: COLORADO	
Legal Description: 6-7S-95W-726FSL-772FWL							
Contractor: NABORS DRLG				Rig/Platform Name/Num: NABORS 574			
Job BOM: 7521							
Well Type: DIRECTIONAL GAS							
Sales Person: HALAMERICA\HB50180				Srvc Supervisor: EDWARD ARNOLD			
Job							

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	1068ft		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		9.625	9.001	32.3	8 RD	H-40	0	1068	0	1072
Open Hole Section			13.5				0	1082	0	1082

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	0		1068		Top Plug	9.625	1	HES
Float Shoe	9.625	0				Bottom Plug	9.625	0	HES
Float Collar	9.625	0				SSR plug set	9.625	0	HES
Insert Float	9.625	0				Plug Container	9.625	1	HES
Stage Tool	9.625	0				Centralizers	9.625	0	HES

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	20	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	
2	Lead Cement	VARICEM (TM) CEMENT	155	Sack/Ton	12.3	2.38		7	13.77	
13.70 Gal			FRESH WATER							

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	Tail Cement	VARICEM (TM) CEMENT	165	Sack/Ton	12.8	2.11		7	11.77
11.71 Gal		FRESH WATER							
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	Displacement	Displacement	80	bbl	8.34			10	
Cement Left In Pipe		Amount	45 ft		Reason		Shoe Joint		
Comment									

HALLIBURTON

Water Analysis Report

Company: WILLIAMS

Submitted by: ED ARNOLD

Attention: DALLAS SCOTT

Lease PA

Well # 324-6

Date: 3/9/2014

Date Rec.: 3/9/2014

S.O.# 901180703

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>200</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>120</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>0</i> Mg / L
Sulfates (SO ₄)	<i>1500</i>	<i><200</i> Mg / L
Chlorine (Cl ₂)		<i>0</i> Mg / L
Temp	<i>40-80</i>	<i>50</i> Deg
Total Dissolved Solids		Mg / L

Respectfully: ED ARNOLD

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

NOTICE:

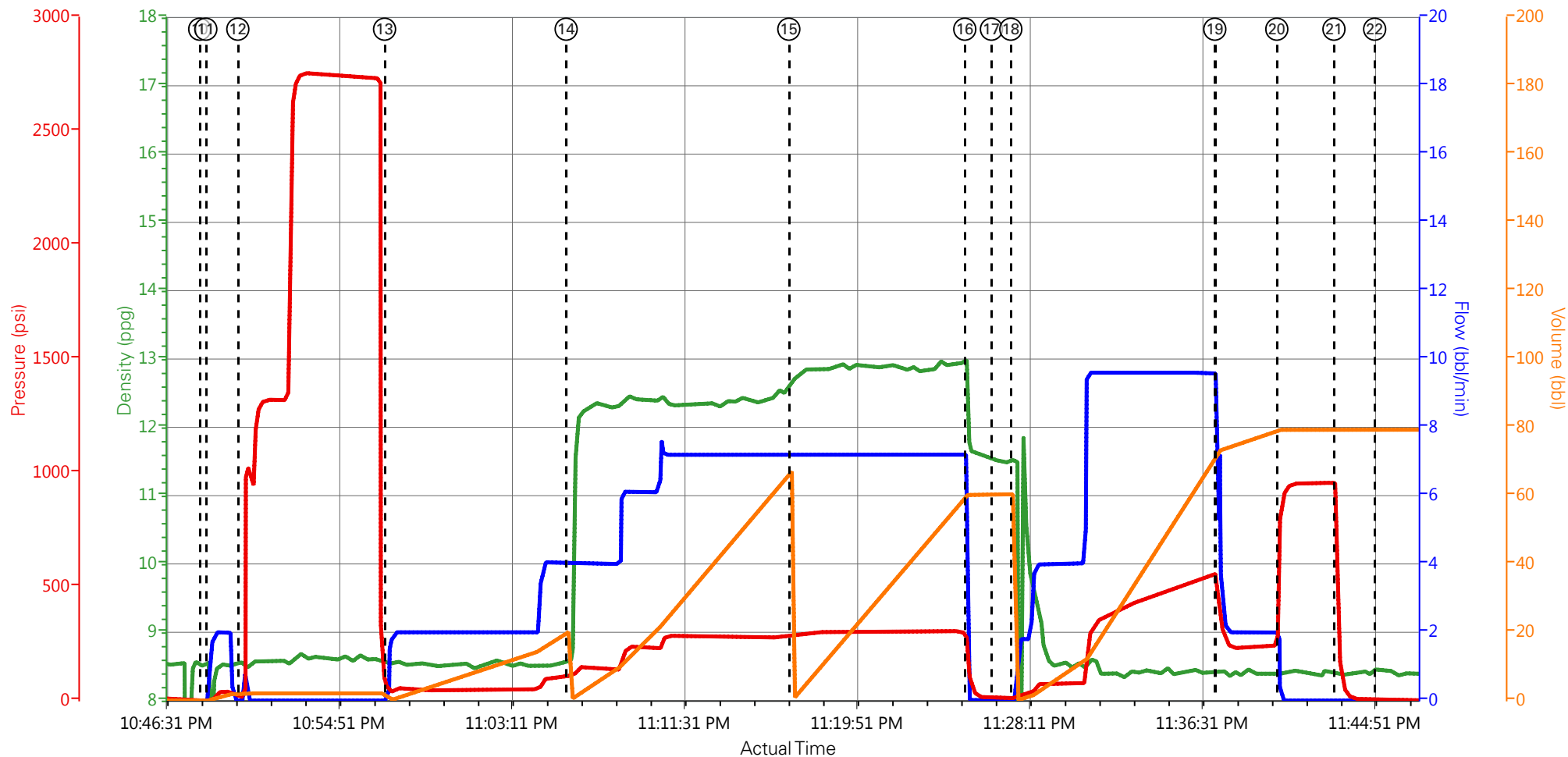
This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or i

1.1 Job Event Log

Type	Seq No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	3/9/2014	16:30:00	USER					CREW CALLED OUT FOR JOB.
Event	2	Pre-Convoy Safety Meeting	3/9/2014	18:15:00	USER					DISCUSSED ROUTE HAZARDS AND SAFETY WHILE DRIVING
Event	3	Crew Leave Yard	3/9/2014	18:30:00	USER					
Event	4	Arrive at Location from Service Center	3/9/2014	20:00:00	USER					RIG RIGGING UP CASING CREW.
Event	5	Assessment Of Location Safety Meeting	3/9/2014	21:00:00	USER					DISCUSSED SPOTING EQUIPMENT HAZARDS AND SAFETY.
Event	6	Pre-Rig Up Safety Meeting	3/9/2014	21:15:00	USER					DISCUSSED RIG UP HAZARDS AND SAFETY.
Event	7	Rig-Up Equipment	3/9/2014	21:20:00	USER					1 ELITE #4, 1 660 BULK TRUCK, 1 HARD LINE TO FLOOR, 1 LINE TO UPRIGHT, 1 LINE TO RIG TANK.
Event	8	Rig-Up Completed	3/9/2014	22:00:00	USER					
Event	9	Pre-Job Safety Meeting	3/9/2014	22:20:00	USER					DISCUSSED JOB HAZARDS AND SAFETY DURING JOB.
Event	10	Start Job	3/9/2014	22:48:16	COM2	8.55	0.00	-1.00	0.0	TD 1082. TP 1068, SJ 44.7, CASING 9 5/8 32.3# H-40, OH 13 1/2, MUD 9.9.
Event	11	Prime Pumps	3/9/2014	22:48:34	USER	8.55	1	40.00	2.0	FILL LINES WITH 2 BBL FRESH WATER.
Event	12	Test Lines	3/9/2014	22:50:07	COM2	8.55	0.00	2660.00	2.0	TESTED LINES TO 2660 PSI, GOOD TEST NO LEAKS.
Event	13	Pump Spacer 1	3/9/2014	22:57:12	COM2	8.53	4.00	108.00	20.00	20 BBL FRESH WATER SPACER.
Event	14	Pump Lead Cement	3/9/2014	23:05:58	COM2	12.3	7.00	290.00	65.7	155 SKS LEAD CEMENT 12.3 PPG, 2.38 CF3, 13.77 GAL/SK.
Event	15	Pump Tail Cement	3/9/2014	23:16:43	COM2	12.8	7.20	302.00	62.0	165 SKS TAIL CEMENT 12.8 PPG, 2.11 CF3, 11.77 GAL/SK.
Event	16	Shutdown	3/9/2014	23:25:12	USER					
Event	17	Drop Plug	3/9/2014	23:26:30	USER					PLUG LEFT CONTAINER.
Event	18	Pump Displacement	3/9/2014	23:27:26	COM2	8.33	10.00	570.00	70.8	FRESH WATER DISPLACEMENT.

Event	19	Slow Rate	3/9/2014	23:37:16	USER	8.38	2.00	240.00	10.0	SLOW RATE LAST 10 BBL.'S PRIOR TO BUMPING THE PLUG.
Event	20	Bump Plug	3/9/2014	23:40:16	COM2	8.41	0.00	821.00	80.8 TOTAL	BUMPED PLUG.
Event	21	Check Floats	3/9/2014	23:43:02	USER	8.39	0.00	956.00		FLOATS HELD 1 BBL BACK, GOOD CIRCULATION THROUGH OUT JOB, 30 BBL.'S OF GOOD CEMENT TO SURFACE.
Event	22	End Job	3/9/2014	23:45:00	COM2					
Event	23	Pre-Rig Down Safety Meeting	3/9/2014	23:50:00	USER					DISCUSSED RIG DOWN HAZARDS SAD SAFETY.
Event	24	Rig-Down Equipment	3/10/2014	00:00:00	USER					
Event	25	Rig-Down Equipment	3/10/2014	00:45:00	USER					
Event	26	Pre-Convoy Safety Meeting	3/10/2014	00:50:00	USER					DISCUSSED ROUTE HAZARDS AND SAFETY.
Event	27	Crew Leave Location	3/10/2014	01:00:00	USER					THANK YOU FOR USING HALLIBURTON, ED ARNOLD AND CREW.

WPX - PA 324-6 - 9 5/8 SURFACE



DH Density (ppg) 8.42 Comb Pump Rate (bbl/min) 0 PS Pump Press (psi) 25 Pump Stg Tot (bbl) 52.8

① Call Out n/a;n/a;n/a;n/a	⑧ Rig-Up Completed n/a;n/a;n/a;n/a	⑮ Pump Tail Cement 12.69;7.2;283;0.2	⑳ End Job 8.47;0;3;79.3
② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a	⑨ Pre-Job Safety Meeting n/a;n/a;n/a;n/a	⑯ Shutdown 12.14;0;129;60.4	㉑ Pre-Rig Down Safety Meeting 8.44;0;-1;79.3
③ Crew Leave Yard n/a;n/a;n/a;n/a	⑩ Start Job 8.55;0;-1;0	⑰ Drop Plug 11.5;0;11;60.4	㉒ Rig-Down Equipment 8.41;0;-1;79.3
④ Arrive at Location from Service Center n/a;n/a;n/a;n/a	⑪ Prime Pumps 8.55;0;-1;0	⑱ Pump Displacement 11.52;0;11;0	㉓ Rig-Down Equipment n/a;n/a;n/a;n/a
⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a	⑫ Test Lines 8.55;0;16;2	㉒ Slow Rate 8.38;5.6;443;72.9	㉔ Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a
⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a	⑬ Pump Spacer 1 8.53;0;44;0	㉓ Bump Plug 8.41;0;821;79.3	㉕ Crew Leave Location n/a;n/a;n/a;n/a
⑦ Rig-Up Equipment n/a;n/a;n/a;n/a	⑭ Pump Lead Cement 8.57;4;106;0.1	㉔ Check Floats 8.39;0;938;79.3	

▼ **HALLIBURTON** | iCem® Service

Created: 2014-03-09 22:13:41, Version: 3.0.121

Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date : 3/9/2014 10:23:00 PM

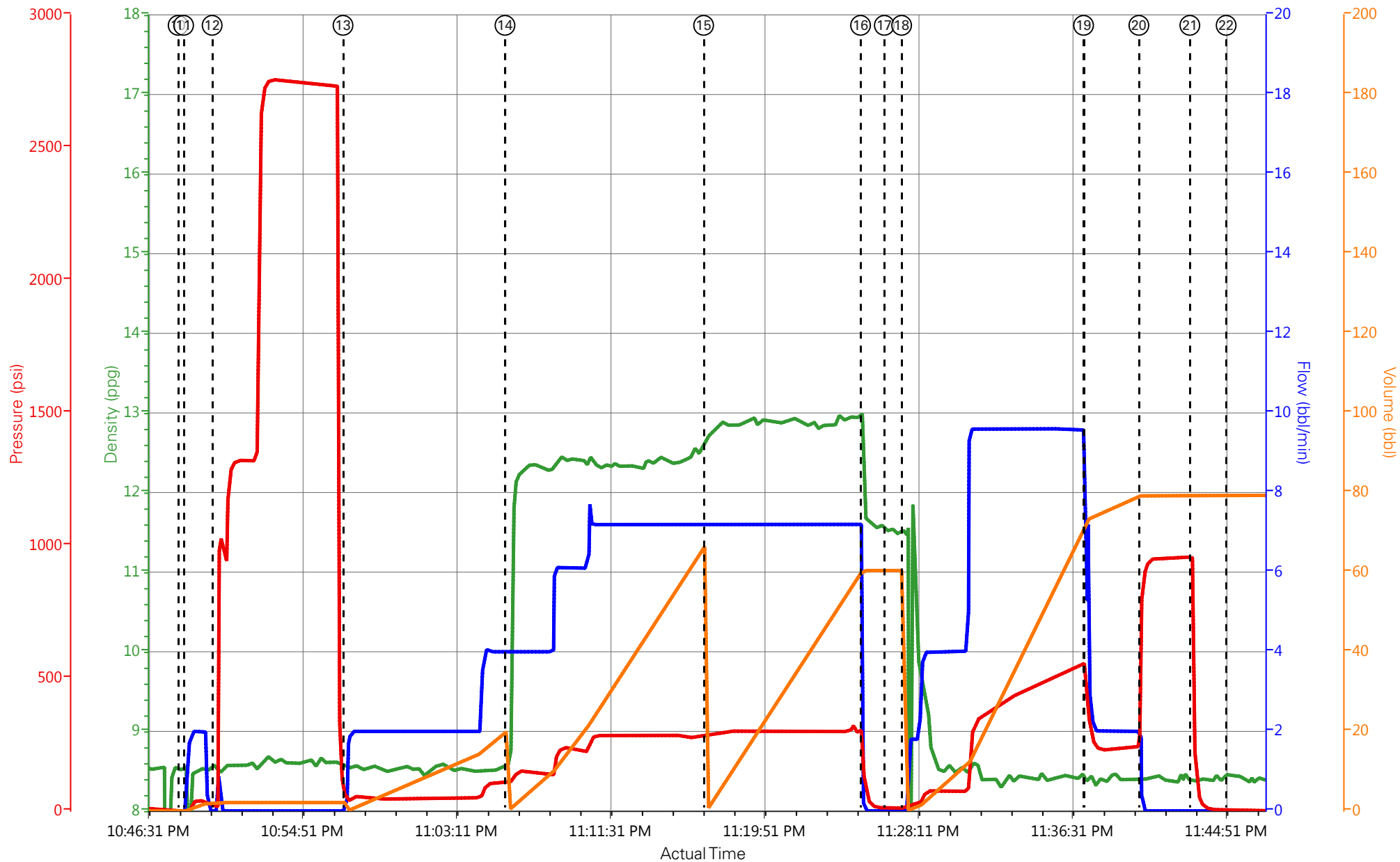
Well : PA 324-6

Representative : GARY VALLAD

Sales Order # : 901180703

ELITE #4 : ED ARNOLD / TRAVIS BROWN

WPX - PA 324-6 - 9 5/8 SURFACE



DH Density (ppg) 8.42 Comb Pump Rate (bbl/min) 0 PS Pump Press (psi) 25 Pump Stg Tot (bbl) 52.8

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Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 3/9/2014 10:23:00 PM

Well: PA 324-6

Representative: GARY VALLAD

Sales Order #: 901180703

ELITE #4: ED ARNOLD / TRAVIS BROWN

Sales Order #: 0901180703	Line Item: 10	Survey Conducted Date: 3/10/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: GARY VALLAD		API / UWI: (leave blank if unknown) 05-045-22221-00
Well Name: PA		Well Number: 0080244853
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

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	3/10/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HAL9235
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	GARY VALLAD
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

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KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	3/10/2014

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.	3
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.	1
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

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Well Name: PA		Well Number: 0080244853
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

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?	Top
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	99
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	99
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