

WPX Rocky Mountain LLC - EBUS

GM 412-21

Cyclone 17

Post Job Summary

Cement Surface Casing

Date Prepared: 09/28/2014

Job Date: 09/21/2014

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3464132	Quote #:	Sales Order #: 0901684713
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: SCOTT GEARY	
Well Name: CHEVRON	Well #: GM 412-21	API/UWI #: 05-045-22357-00	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE NE-20-6S-96W-2049FNL-704FEL			
Contractor:		Rig/Platform Name/Num: Cyclone 17	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HX23209		Srcv Supervisor: Christopher Kukus	
Job			

Formation Name	
Formation Depth (MD)	Top 0 Bottom
Form Type	BHST
Job depth MD	1140ft 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	32.3	8 RD	H-40	0	1126		0
Open Hole Section			13.5				0	1140	0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1		1126		Top Plug	9.625	1	HES
Float Shoe	9.625	1				Bottom Plug	9.625		HES
Float Collar	9.625	1		1082		SSR plug set	9.625		HES
Insert Float	9.625					Plug Container	9.625	1	HES
Stage Tool	9.625					Centralizers	9.625		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	VariCem GJ5	VARICEM (TM) CEMENT	135	sack	12.3	2.45		6	14.17	
14.10 Gal			FRESH WATER							

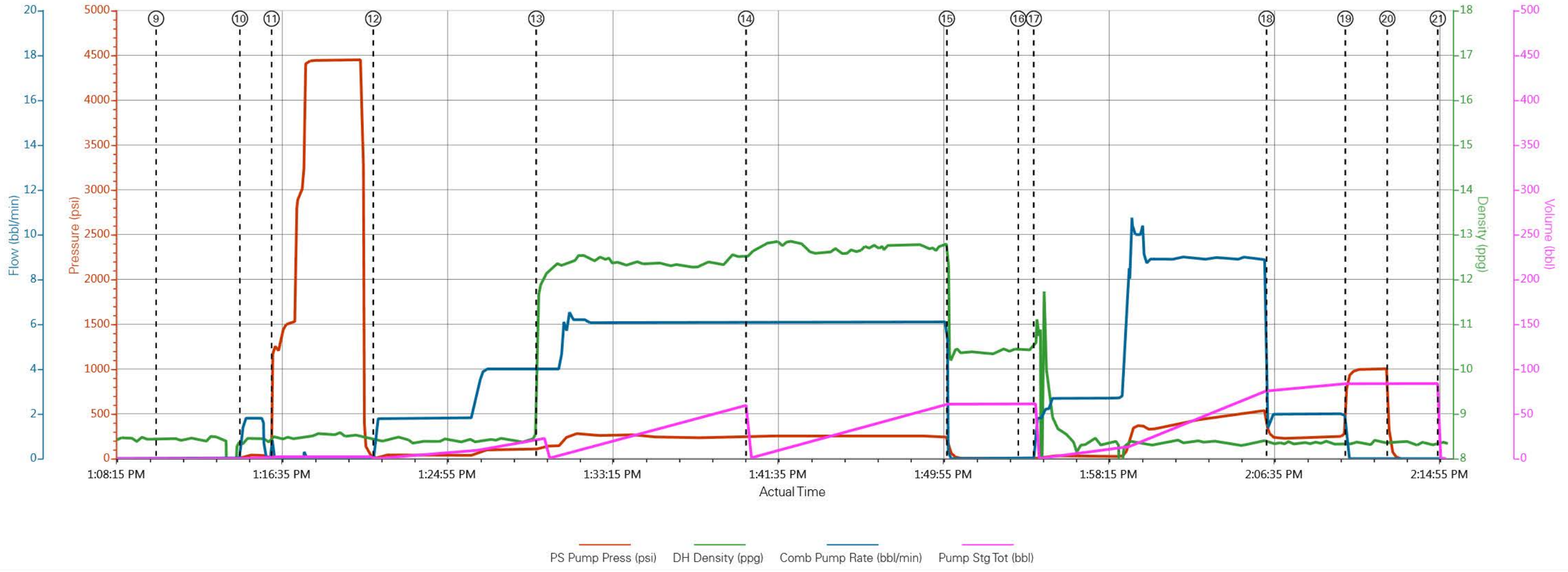
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
3	VariCem GJ5	VARICEM (TM) CEMENT	165	sack	12.8	2.18		6	12.11	
12.05 Gal		FRESH WATER								
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
4	Fresh Water Displacement	Fresh Water Displacement	85.2	bbl	8.34			10		
Cement Left In Pipe		Amount	44 ft		Reason			Shoe Joint		
Comment										

1.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	9/21/2014	06:00:30	USER					HES CREW CALLED OUT AT 06:00 WITH A ON LOCATION TIME OF 11:00
Event	2	Pre-Convoy Safety Meeting	9/21/2014	08:50:05	USER					ALL HES EMPLOYEES
Event	3	Crew Leave Yard	9/21/2014	09:00:17	USER					HES CREW LEFT THE YARD AT 09:00
Event	4	Arrive at Rig	9/21/2014	10:30:22	USER					HES CREW ARRIVED 30 MINS EARLY HES CREW SPOTTED EQUIPMENT AND RIGGED UP
Event	5	Assessment Of Location Safety Meeting	9/21/2014	10:45:29	USER					ALL HES EMPLOYEES RIG WAS RUNNUNG CASING
Event	6	Pre-Rig Up Safety Meeting	9/21/2014	10:50:41	USER					ALL HES EMPLOYEES
Event	7	Rig-Up Equipment	9/21/2014	11:00:50	USER					HES RIGGED UP IRON TO STAND PIPE, SUCTION LINE TO FRESH WATER UP RIGHT, BULK LINE TO BULK TRUCK
Event	8	Pre-Job Safety Meeting	9/21/2014	11:38:01	USER					ALL HES EMPLOYEES AND RIG EMPLOYEES
Event	9	Start Job	9/21/2014	13:10:22	USER					TD: 1140' TP: 1126' SJ: 44' FC: 1082' CSG: 9 5/8 32.3# H-40 OH: 13 1/2 MUD WT: 9.3 VISC: 75 RIG WILL CIRCULATE TILL HES CREW IS READY
Event	10	Prime Pumps	9/21/2014	13:14:35	COM5	18.00	8.32	2.0	2.0	PRIME LINES WITH FRESH WATER
Event	11	Test Lines	9/21/2014	13:16:11	COM5	4300.0	8.50	0.00	2.0	PRESSURE TEST OK AT 4300 PSI
Event	12	Pump Spacer 1	9/21/2014	13:21:18	COM5	103.0	8.42	4.0	20.0	PUMP 20 BBL FRESH WATER SPACER
Event	13	Pump Lead Cement	9/21/2014	13:29:31	COM5	112.00	12.35	6.0	58.9	VARICEM 135 SKS 12.3 PPG 2.45 YIELD 14.17 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA MUD SCALES WET AND DRY SAMPLES WERE TAKEN AND LEFT ON LOCATION
Event	14	Pump Cement	9/21/2014	13:40:05	COM5	232.00	12.86	6.10	64.1	VARICEM 165 SKS 12.8 PPG 2.18 YIELD 12.11 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA MUD SCALES WET AND DRY SAMPLES WERE TAKEN AND LEFT ON LOCATION
Event	15	Shutdown	9/21/2014	13:50:12	USER	100.00	12.85	0.00	64.1	SHUTDOWN END OF CEMENT READY TANKS OF DISPLACEMENT
Event	16	Drop Top Plug	9/21/2014	13:53:49	COM5					PLUG AWAY NO ISSUES

Event	17	Pump Displacement	9/21/2014	13:54:35	COM5	4.00	8.45	10.0	85.2	PUMP 85.2 BBLS OF FRESH WATER DISPLACEMENT
Event	18	Slow Rate	9/21/2014	14:06:19	USER	290.00	8.36	2.0	76.0	SLOW RATE TO BUMP PLUG
Event	19	Bump Plug	9/21/2014	14:10:17	COM5	250.0	8.34	0.00	85.2	PLUG BUMP AT 250 PSI AND WAS TOOK UP TO 1002 PSI
Event	20	Check Floats	9/21/2014	14:12:24	USER	1002.0	8.38	0.00	85.2	FLOATS HELD WITH .5 BBL BACK TO DISPLACEMENT TANKS
Event	21	End Job	9/21/2014	14:14:57	COM5					JOB WENT WELL WITH NO ISSUES GOT 35 BBLS OF CEMENT TO SURFACE RIG USED 50 LBS OF SUGAR
Event	22	Post-Job Safety Meeting (Pre Rig-Down)	9/21/2014	14:20:08	USER					ALL HES EMPLOYEES
Event	23	Pre-Rig Down Safety Meeting	9/21/2014	14:25:18	USER					ALL HES EMPLOYEES
Event	24	Rig-Down Equipment	9/21/2014	14:30:26	USER					RIG DOWN RIG FLOOR, IRON ON GROUND, SUCTION LINE, BULK LINE, WASH UP PUMP
Event	25	Pre-Convoy Safety Meeting	9/21/2014	15:20:39	USER					ALL HES EMPLOYEES
Event	26	Crew Leave Location	9/21/2014	15:30:52	USER					THANK YOU FOR USING HALLIBURTON CEMENT CHRIS KUKUS AND CREW HAVE A NICE DAY

WPX ENERGY / GM 412-21 / 9 5/8 SURFACE CASING



- ① Call Out n/a;n/a;n/a;n/a
- ② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a
- ③ Crew Leave Yard n/a;n/a;n/a;n/a
- ④ Arrive at Rig n/a;n/a;n/a;n/a
- ⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a
- ⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a
- ⑦ Rig-Up Equipment n/a;n/a;n/a;n/a
- ⑧ Pre-Job Safety Meeting 0;8.48;0;0
- ⑨ Start Job -5;8.39;0;0
- ⑩ Prime Lines 19;8.32;0.9;0.1
- ⑪ Test Lines 1270;8.5;0;2.1
- ⑫ Pump Spacer 1 5;8.42;0.9;0
- ⑬ Pump Lead Cement 114;11.86;4;21.4
- ⑭ Pump Tail 231;12.49;6.1;0.1
- ⑮ Shutdown 100;10.32;0;61
- ⑯ Drop Top Plug 0;10.42;0;61
- ⑰ Pump Displacement 4;11.18;1.8;0
- ⑱ Slow Rate 283;8.36;1.7;76
- ⑲ Bump Plug 893;8.34;0;83.7
- ⑳ Check Floats 196;8.38;0;83.7
- ㉑ End Job -5;8.33;0;0
- ㉒ Post-Job Safety Meeting (Pre Rig-Down) n/a;n/a;n/a;n/a
- ㉓ Pre-Rig Down Safety Meeting n/a;n/a;n/a;n/a
- ㉔ Rig-Down Equipment n/a;n/a;n/a;n/a
- ㉕ Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a
- ㉖ Crew Leave Location n/a;n/a;n/a;n/a

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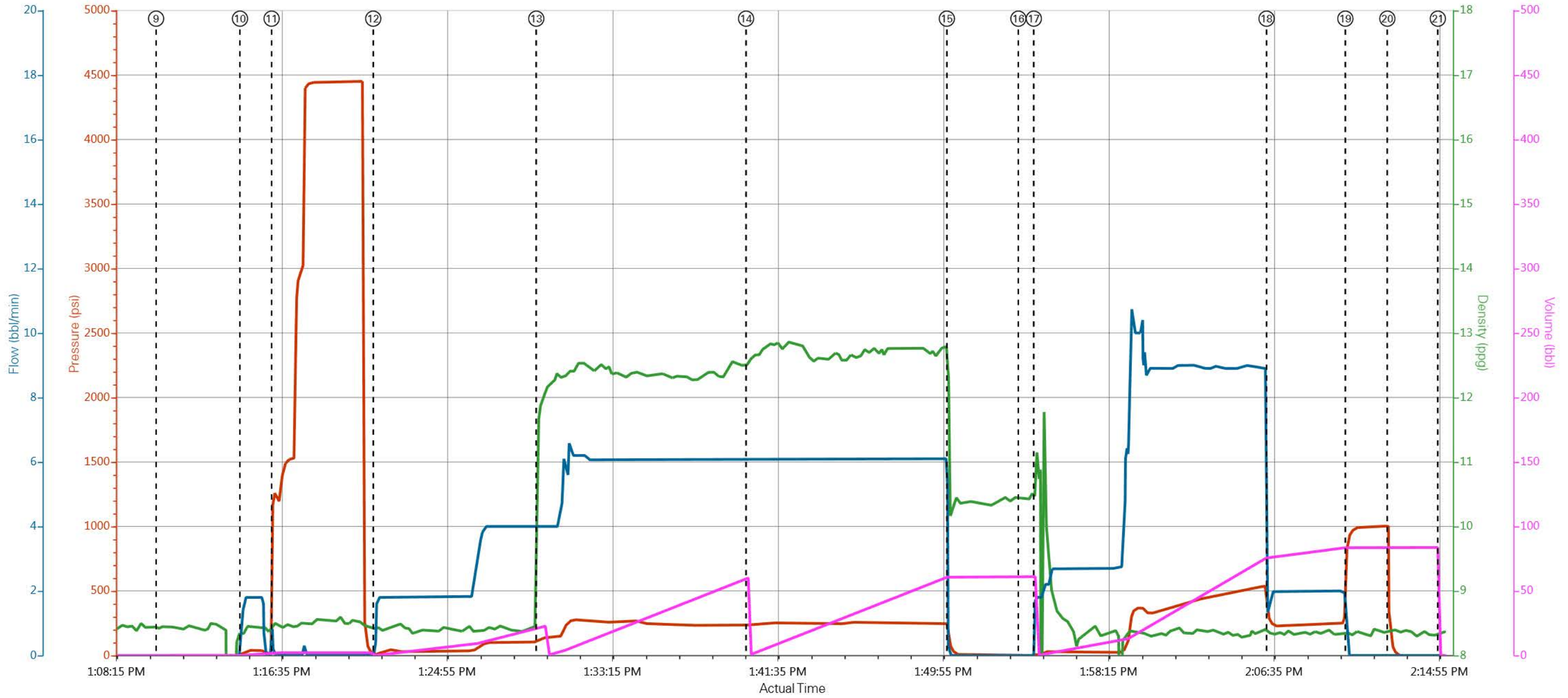
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Customer: WPX ENERGY LLC-EBUS
 Representative: CHRIS KUKUS

Job Date: 9/21/2014 11:33:30 AM
 Sales Order #: 901684713

Well: GM 412-21
 ELITE 9 : MAX LOBATO

WPX ENERGY / GM 412-21 / 9 5/8 SURFACE CASING



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

HALLIBURTON

Water Analysis Report

Company: WPX ENERGY

Date: 9/21/2014

Submitted by: CHRIS KUKUS

Date Rec.: 9/21/2014

Attention: LARRY COOKSEY

S.O.# 901684713

Lease GM

Job Type: SURFACE

Well # 412-21

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	0 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 400 Mg / L
Hardness		50 Mg / L
Temp	<i>40-80</i>	78 Deg
Total Dissolved Solids		200 Mg / L

Respectfully: CHRIS KUKUS

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

Sales Order #: 0901684713	Line Item: 10	Survey Conducted Date: 9/21/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22357-00
Well Name: CHEVRON		Well Number: 0080599207
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	9/21/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX35027
Customer Participation	Did the customer participate in this survey? (Y/N)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

CUSTOMER SIGNATURE

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Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	9/21/2014
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)	3
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?	
Operating Hours (Pumping Hours)	1
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	0
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.	
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	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	Yes

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Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22357-00
Well Name: CHEVRON		Well Number: 0080599207
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	80
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	80
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