

WPX Energy Rocky Mountain LLC- EBUS

GM 522-28

H&P 318

Post Job Summary

Cement Surface Casing

Date Prepared: 02/05/15
Job Date: 01/27/15

Submitted by: Evan Russell – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3205592	Quote #:	Sales Order #: 0902077757
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: W.C. WILSON		
Well Name: GM	Well #: 522-28	API/UWI #: 05-045-22181-00	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: 28-6S-96W-1309FNL-1041FWL			
Contractor: H & P DRLG	Rig/Platform Name/Num: H & P 318		
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180	Srvc Supervisor: Eric Carter		
Job			

Formation Name			
Formation Depth (MD)	Top	0 ft	Bottom 1216.5 ft
Form Type			BHST
Job depth MD	1216ft		Job Depth TVD
Water Depth			Wk Ht Above Floor 4 ft
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			13.5				0	1216		0
Casing		9.625	9.001	32.3			0	1216		0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe						Top Plug	9.625	1	HES
Float Shoe						Bottom Plug			
Float Collar						SSR plug set			
Insert Float						Plug Container	9.625	1	HES
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/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	145	sack	12.3	2.45	14.17	8		
14.10 Gal			FRESH WATER							

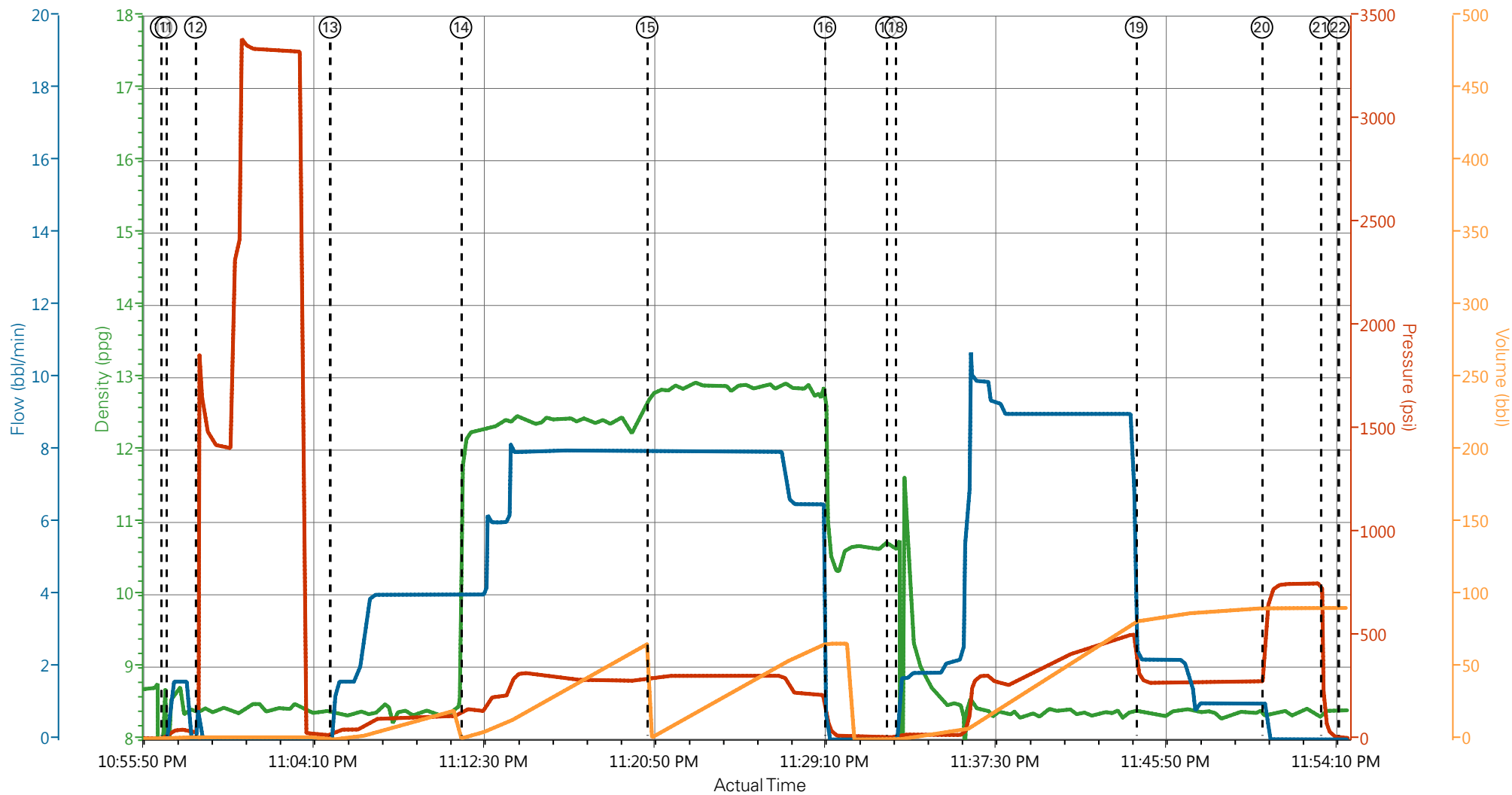
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VariCem GJ5	VARICEM (TM) CEMENT	170	sack	12.8	2.18	12.11	8	
12.05 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	92.3	bbl	8.34			9	
Cement Left In Pipe		Amount	44 ft		Reason		Shoe Joint		
Comment									

3.5 Job Event Log

Type	Seq. No.	Activity	Date	Time	Source	DH Density (ppg)	PS Pump Press (psi)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	1/27/2015	13:00	USER					
Event	2	Depart Yard Safety Meeting	1/27/2015	14:50	USER					
Event	3	Crew Leave Yard	1/27/2015	15:00	USER					ATTENDED BY ALL HES CREW
Event	4	Arrive At Loc	1/27/2015	16:00	USER					RIG PULLING DP
Event	5	Assessment Of Location Safety Meeting	1/27/2015	21:30	USER					ATTENDED BY ALL HES CREW
Event	6	Other	1/27/2015	21:40	USER					SPOT EQUIPMENT
Event	7	Pre-Rig Up Safety Meeting	1/27/2015	21:50	USER					ATTENDED BY ALL HES CREW
Event	8	Rig-Up Equipment	1/27/2015	22:00	USER					
Event	9	Pre-Job Safety Meeting	1/27/2015	22:30	USER					ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP
Event	10	Other	1/27/2015	22:56:53	USER					TP 1216.5', TD 1216.5', MW 9.7 PPG, CSG 9.625", 32.3#, J55, SJ 44.03', HOLE 13.5", RIG CIRCULATED FOR 1.5 HR'S PRIOR TO JOB
Event	11	Other	1/27/2015	22:57:07	USER	8.34	45	2	2	FRESH WATER
Event	12	Test Lines	1/27/2015	22:58:33	USER					PRESSURED UP TO 3400 PSI, PRESSURE HELD
Event	13	Pump Spacer	1/27/2015	23:05:08	USER	8.34	115	4	20	FRESH WATER
Event	14	Pump Lead Cement	1/27/2015	23:11:32	USER	12.3	320	8	63.3	145 SKS VARICEM MIXED AT 12.3 PPG, 2.45 YIELD, 14.17 GAL/SKS
Event	15	Pump Tail Cement	1/27/2015	23:20:38	USER	12.8	300	8	66	170 SKS VARICEM MIXED AT 12.8 PPG, 2.18 YIELD, 12.11 GAL/SKS
Event	16	Shutdown	1/27/2015	23:29:20	USER					

Event	17	Drop Top Plug	1/27/2015	23:32:20	USER					PLUG LAUNCHED
Event	18	Pump Displacement	1/27/2015	23:32:47	USER	8.34	520	9	82.3	FRESH WATER
Event	19	Slow Rate	1/27/2015	23:44:32	USER	8.34	275	2	10	
Event	20	Bump Plug	1/27/2015	23:50:41	USER		755			PLUG LANDED
Event	21	Check Floats	1/27/2015	23:53:33	USER					FLOATS HELD
Event	22	Other	1/27/2015	23:54:26	USER					GODD CIRCULATION THROUGHOUT JOB, 27 BBLS CEMENT TO SURFACE, PIPE NOT MOVED DURING JOB.
Event	23	Post-Job Safety Meeting (Pre Rig-Down)	1/28/2015	00:00	USER					ATTENDED BY ALL HES CREW
Event	24	Rig-Down Equipment	1/28/2015	00:10	USER					
Event	25	Depart Location Safety Meeting	1/28/2015	00:50	USER					ATTENDED BY ALL HES CREW
Event	26	Crew Leave Location	1/28/2015	01:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW

WPX - GM 522-28 - SURFACE



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

- | | | | | |
|--|---|--|------------------------------------|-------------------|
| ① Call Out n/a;n/a;n/a;n/a | ⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a | ⑨ Pre-Job Safety Meeting n/a;n/a;n/a;n/a | ⑬ Pump Spacer 8.4;21;0.8;0 | ⑰ Drop Top Plug 1 |
| ② Depart Yard Safety Meeting n/a;n/a;n/a;n/a | ⑥ Other n/a;n/a;n/a;n/a | ⑩ Start Job 8.67;4;0;0 | ⑭ Pump Lead Cement 11.95;140;4;1.4 | ⑱ Pump Displacer |
| ③ Crew Leave Yard n/a;n/a;n/a;n/a | ⑦ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a | ⑪ Fill Lines 8.51;19;0.5;0 | ⑮ Pump Tail Cement 12.79;297;8;0.9 | ⑲ Slow Rate 8.36; |
| ④ Arrive At Loc n/a;n/a;n/a;n/a | ⑧ Rig-Up Equipment n/a;n/a;n/a;n/a | ⑫ Test Lines 8.39;1873;0.5;1.5 | ⑯ Shutdown 10.93;75;0;66.2 | 20 Bump Plug 8.33 |

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Created: 2015-01-27 18:15:28, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 1/27/2015 9:30:01 PM

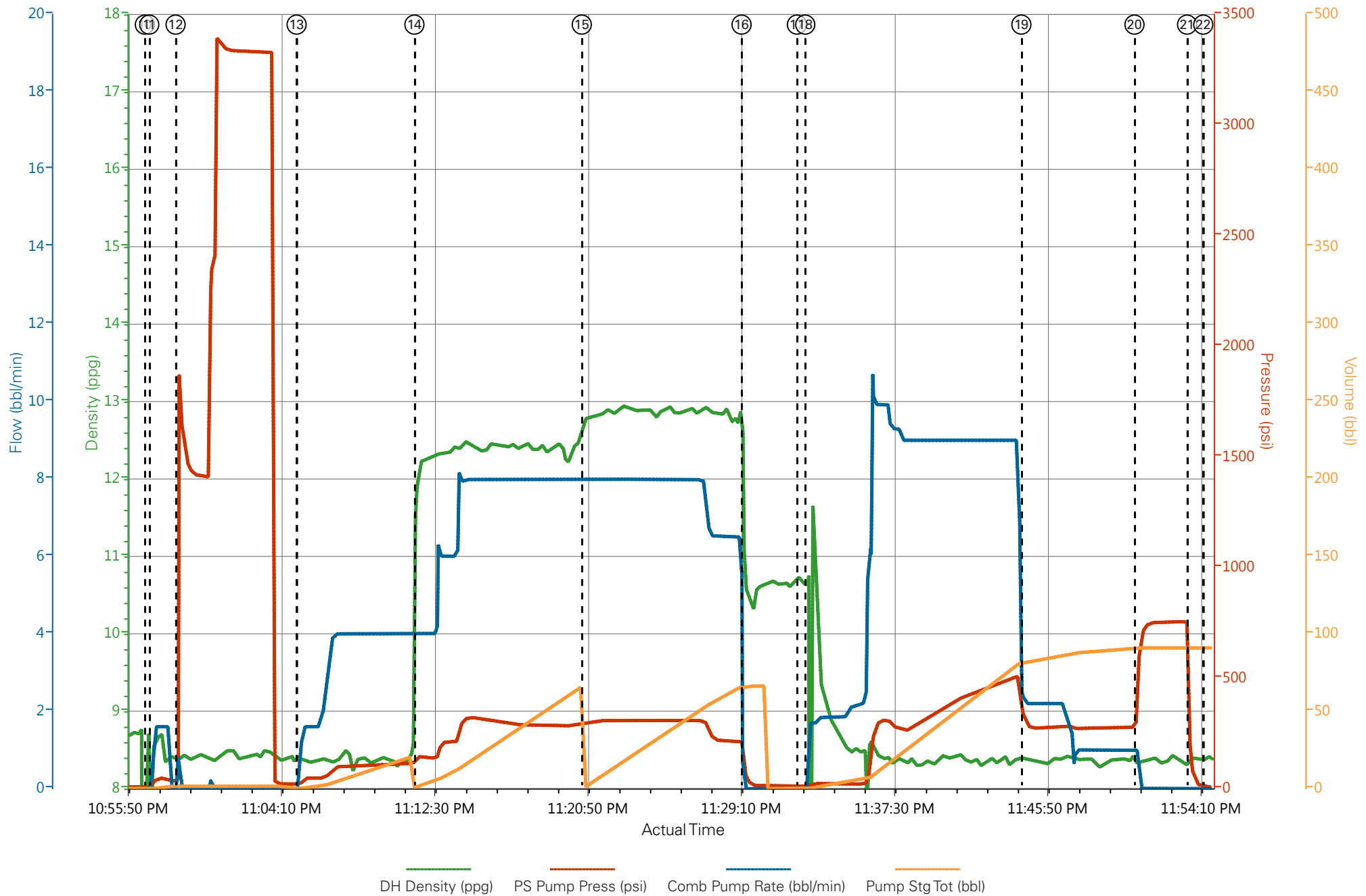
Well: GM 522-28

Representative: W.C. WILSON

Sales Order #: 0902077757

ERIC CARTER: KEVIN BENNETTE/ELITE 6

WPX - GM 522-28 - SURFACE



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

HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: ERIC CARTER

Attention: J.Trout

Lease: H+P 318

Well #: GM 522-28

Date: 2/5/2015

Date Rec.: 2/5/2015

S.O.#: 902077757

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>0</i> Mg / L
Hardness	<i>500</i>	<i>250</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
Temp	<i>40-80</i>	<i>45</i> Deg
Total Dissolved Solids		<i>250</i> Mg / L

Respectfully: ERIC CARTER

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.

Sales Order #: 0902077757	Line Item: 10	Survey Conducted Date: 1/28/2015
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22181-00
Well Name: GM		Well Number: 0080241829
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	1/28/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX15491
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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KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	1/28/2015
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?	
Pumping Hours	1
Total number of hours pumping fluid on this job. Enter in decimal format.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	5
Number Of Jsas Performed	
Was this a Primary Cement Job (Yes / No)	Yes
Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Customer Non-Productive Rig Time (hrs)	0

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Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22181-00
Well Name: GM		Well Number: 0080241829
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

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)	Not Available
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	98
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