

WPX Energy Rocky Mountain LLC - EBUS

GM 414-33

Cyclone 17

Post Job Summary

Cement Surface Casing

Date Prepared: 11/15/2014

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 #: 3121371	Quote #:	Sales Order #: 0901801777
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: AL. DUNIHO	
Well Name: FEDERAL -GM-	Well #: 414-33	API/UWI #: 05-045-12826-00	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE SW-33-6S-96W-857FSL-2188FWL			
Contractor:		Rig/Platform Name/Num: Cyclone 17	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: Christopher Smith	
Job			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1083ft Job Depth TVD
Water Depth	Wk Ht Above Floor 4
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		0	1083		0
Open Hole Section			13.5				0	1104	0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1		1083		Top Plug	9.625	1	HES
Float Shoe	9.625	1				Bottom Plug	9.625	1	HES
Float Collar	9.625	1				SSR plug set	9.625	1	HES
Insert Float	9.625	1				Plug Container	9.625	1	HES
Stage Tool	9.625	1				Centralizers	9.625	1	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	115	sack	12.3	2.45		8	14.17

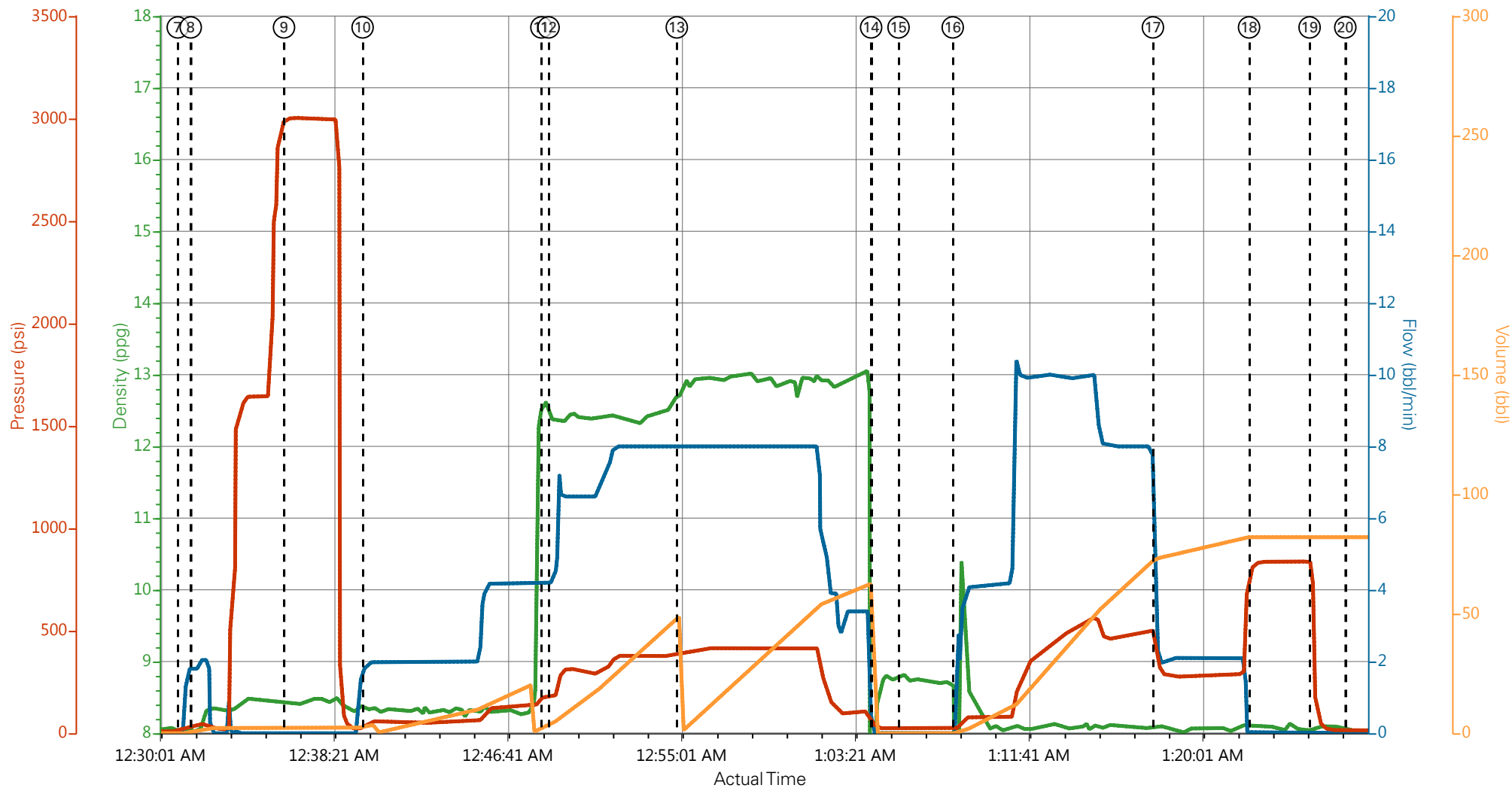
		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VariCem GJ5	VARICEM (TM) CEMENT	170	sack	12.8	2.18		8	12.11
		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	82.9	bbl	8.34				
Cement Left In Pipe		Amount	36 ft		Reason		Shoe Joint		
Comment									

1.5 Job Event Log

Type	Seq. No.	Activity	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	11/4/2014	11:00:00	USER					
Event	2	Pre-Convoy Safety Meeting	11/4/2014	22:30:00	USER					ALL HES PRESENT
Event	3	Arrive At Loc	11/4/2014	23:00:00	USER					ALL HES PRESENT
Event	4	Assessment Of Location Safety Meeting	11/4/2014	23:10:00	USER					ALL HES PRESENT, JSA FILLED OUT AND SIGNED
Event	5	Rig-Up Equipment	11/4/2014	23:25:00	USER					
Event	6	Pre-Job Safety Meeting	11/4/2014	23:55:00	USER					ALL HES PRESENT, DISCUSS JOB WITH CUSTOMER AND RIG
Event	7	Start Job	11/5/2014	00:31:00	COM7					TD- 1104' TP- 1083' SJ- 36.55' OH- 13.5" CSG- 9.625" 32.3# MUD- 9.65 VISC- 55
Event	8	Prime Pumps	11/5/2014	00:31:37	COM7	8.33	2.00	51.00	2.0	FRESH WATER
Event	9	Test Lines	11/5/2014	00:36:05	COM7	8.33	0.5	2999.00	.5	ALL LINES HELD PRESSURE
Event	10	Pump Spacer 1	11/5/2014	00:39:51	COM7	8.35	1.80	37.00	2.8	FRESH WATER
Event	11	Pump Lead Cement	11/5/2014	00:48:26	COM7	12.3	8.00	409.00	50.2	VARICEM- 115 SKS, 12.3 PPG, 2.45 YLD, 14.17 GL/SK
Event	12	Check Weight	11/5/2014	00:48:47	COM7	12.3				MUD CUP
Event	13	Pump Tail Cement	11/5/2014	00:54:56	COM7	12.8	8.00	425.00	66	VARICEM- 170 SKS, 12.8 PPG, 2.18 YLD, 12.11 GL/SK
Event	14	Shutdown	11/5/2014	01:04:15	USER					WASH UP ON TOP OF PLUG
Event	15	Drop Top Plug	11/5/2014	01:05:34	COM7					PLUG WENT
Event	16	Pump Displacement	11/5/2014	01:08:10	COM7	8.33	10	530	72	FRESH WATER
Event	17	Slow Rate	11/5/2014	01:17:46	USER	8.33	2	280	10	SLOW TO BUMP PLUG
Event	18	Bump Plug	11/5/2014	01:22:23	COM7	8.33		811.00	82.0	PLUG BUMPED

Type	Seq. No.	Activity	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	19	Check Floats	11/5/2014	01:25:17	USER	8.05	0.00	731.00	82.0	FLOATS HELD, 1 BBL BACK
Event	20	End Job	11/5/2014	01:27:00	USER	8.04	0.00	14.00	82.0	GOOD CIRCULATION THROUGHOUT JOB, PIPE WAS NOT MOVED, 30 BBL OF CMT TO SURFACE
Event	21	Post-Job Safety Meeting (Pre Rig-Down)	11/5/2014	01:38:00	USER					ALL HES PRESENT
Event	22	Pre-Convoy Safety Meeting	11/5/2014	03:00:00	USER					ALL HES PRESENT
Event	23	Crew Leave Location	11/5/2014	03:15:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, CHRIS SMITH AND CREW

WPX, GM 414-33, 9.625" SURFACE



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

- | | | | | |
|---|--|--------------------------------------|---|--------------------|
| ① Call Out n/a;n/a;n/a;n/a | ⑤ Rig-Up Equipment n/a;n/a;n/a;n/a | ⑨ Test Lines 8.43;0;3000;2.3 | ⑬ Pump Tail Cement 12.77;8;392.27;31.26 | ⑰ Slow Rate 8.08 |
| ② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a | ⑥ Pre-Job Safety Meeting n/a;n/a;n/a;n/a | ⑩ Pump Spacer 1 8.36;1.8;37;2.8 | ⑭ Shutdown 7.81;0;39.86;0 | ⑱ Bump Plug 8.1 |
| ③ Arrive At Loc n/a;n/a;n/a;n/a | ⑦ Start Job 8.02;0;18;0 | ⑪ Pump Lead Cement 12.64;4.2;183;2.8 | ⑮ Drop Top Plug 8.78;0;21;0 | ⑲ Check Floats 8.1 |
| ④ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a | ⑧ Prime Pumps 8.01;1.8;38;0.8 | ⑫ Check weight 12.38;4.2;183;4.3 | ⑯ Pump Displacement 8.65;1;22;0.1 | ⑳ End Job 8.05;0 |

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▼ **HALLIBURTON** | iCem® Service

Created: 2014-11-04 23:46:58, Version: 4.0.248

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 11/5/2014 12:00:49 AM

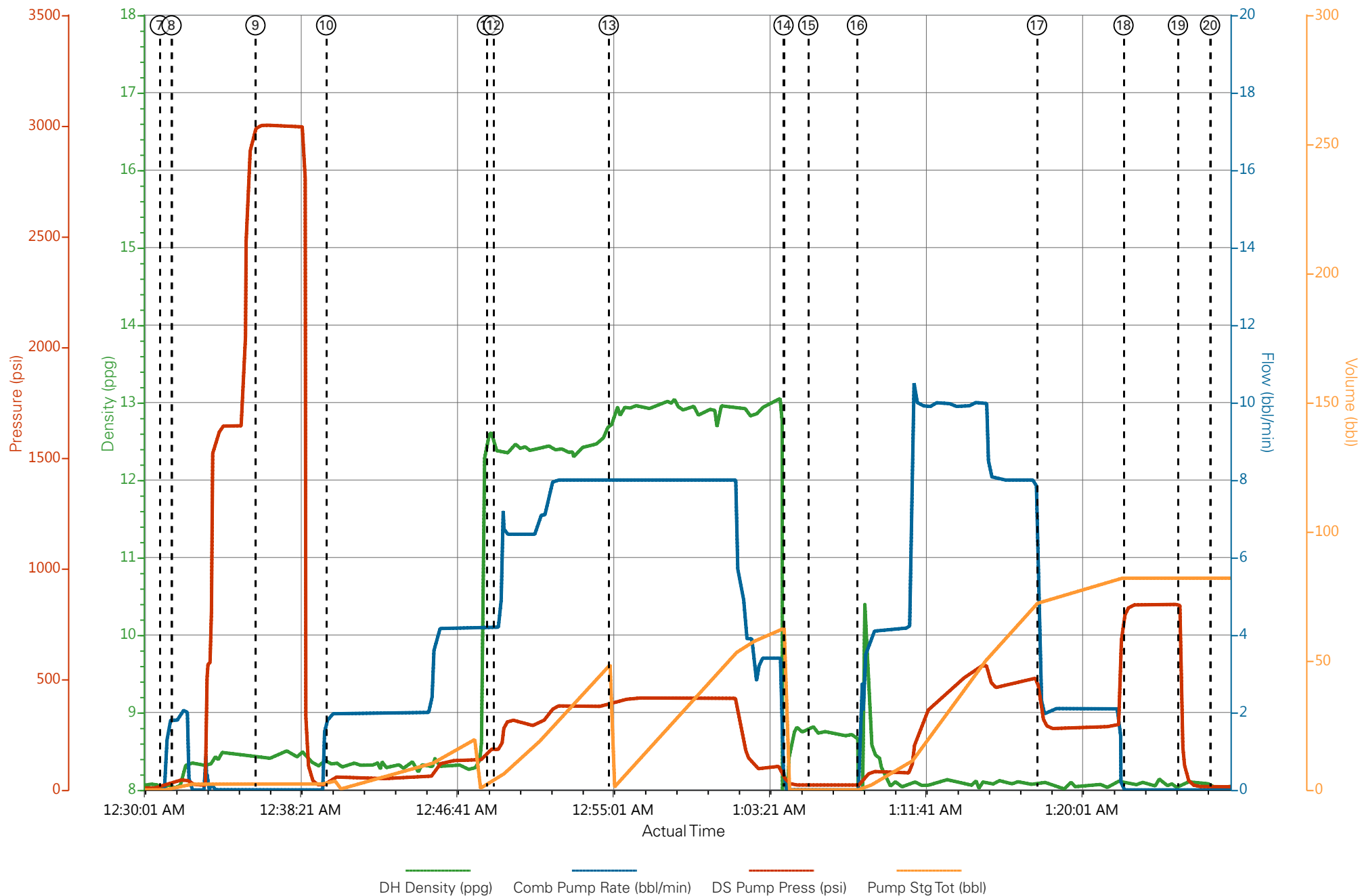
Well: GM 414-33

Representative: AL DUNIHO

Sales Order #: 901801777

ELITE 9: B.BANKS: C.SMITH

WPX, GM 414-33, 9.625" SURFACE



HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: C.SMITH
Attention: K.MILLER
Lease GM
Well # 414-33

Date: 11.06.2014
Date Rec.:
S.O.# 901801777
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	300 Mg / L
Calcium (Ca)	<i>500</i>	220 Mg / L
Iron (FE2)	<i>300</i>	80 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	60 Deg
Total Dissolved Solids		460 Mg / L

Respectfully: C.SMITH

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

Sales Order #: 0901801777	Line Item: 10	Survey Conducted Date: 11/7/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: SCOTT GEARY		API / UWI: (leave blank if unknown) 05-045-12826-00
Well Name: FEDERAL -GM-		Well Number: 0080123008
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	11/7/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB20137
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	SCOTT GEARY
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	11/7/2014

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.	4
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	7
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 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	97
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