

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

GM 413-33

Cyclone 17

Post Job Summary

Cement Surface Casing

Date Prepared: 10/30/2014
Job Date: 10/18/2014

Submitted by: Kory Hugentobler – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3563511	Quote #:	Sales Order #: 0901749886
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Scott Geary	
Well Name: WPX GM	Well #: 413-33	API/UWI #: 05-045-22491-00	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: NW SW-33-6S-96W-2314FSL-1149FWL			
Contractor: CYCLONE		Rig/Platform Name/Num: CYCLONE 17	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: Edward Deussen	

Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1041 ft 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	1041		
Open Hole Section			13.5				0	1056		

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		1041	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 ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	20	bbl	8.34			4.0		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	VariCem GJ5	VARICEM (TM) CEMENT	115	sack	12.3	2.45		6.0	14.17	

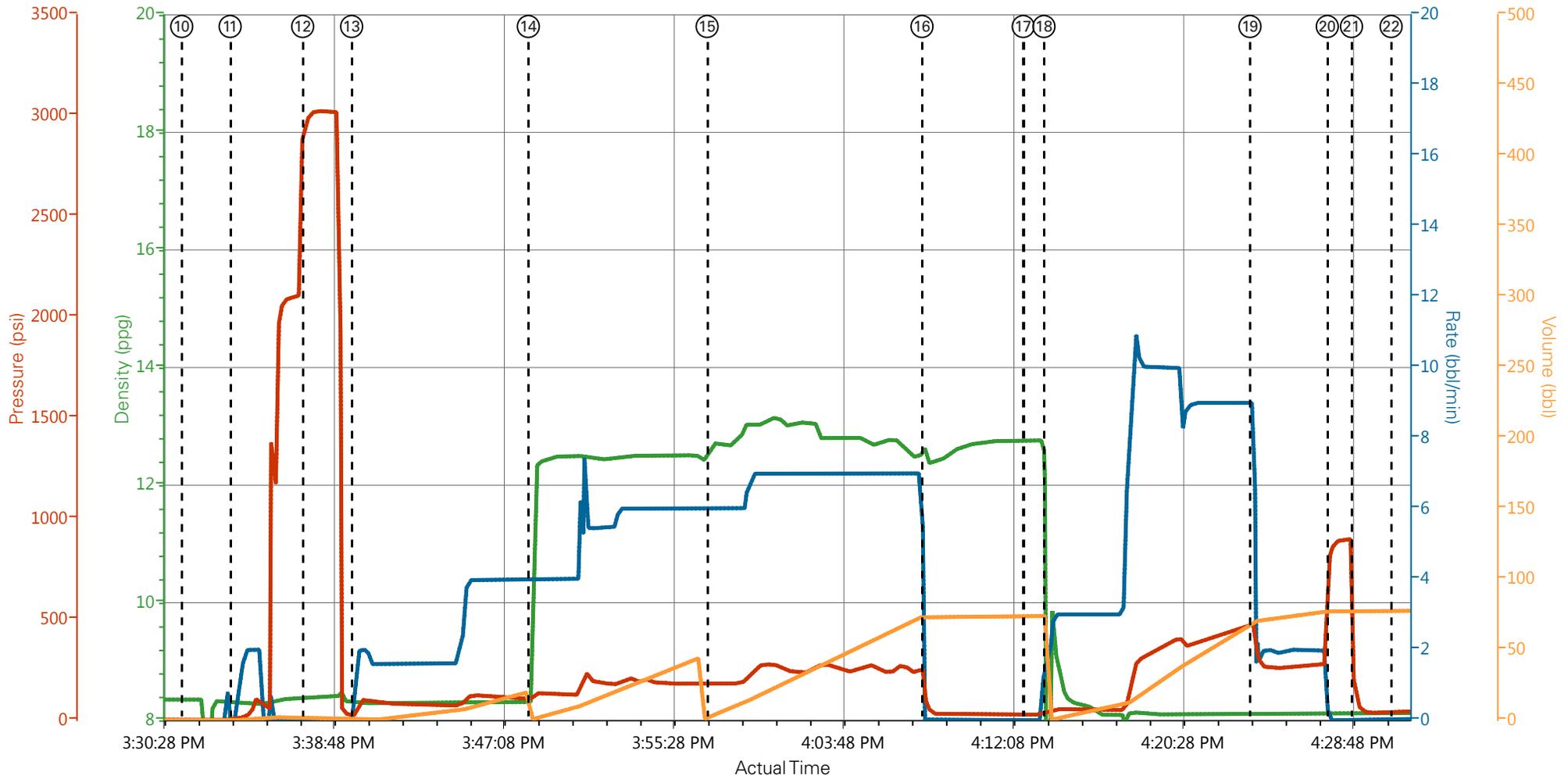
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	VariCem GJ5	VARICEM (TM) CEMENT	170	sack	12.8	2.18		7.0	12.11
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	78.5	bbl	8.34			10.0	
Cement Left In Pipe		Amount 44 ft	Reason			Shoe Joint			
Comment									

3.1 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	10/18/2014	04:30:00	USER					O/L time per company rep 1330
Event	2	Pre-Convoy Safety Meeting	10/18/2014	07:45:00	USER					
Event	3	Crew Leave Yard	10/18/2014	08:00:00	USER					1 Elite, 1 660, 1 pickup
Event	4	Arrive At Location	10/18/2014	10:00:00	USER					Rig still pulling drill pipe
Event	5	Assessment Of Location Safety Meeting	10/18/2014	10:15:00	USER					JSA performed
Event	6	Pre-Rig Up Safety Meeting	10/18/2014	13:15:00	USER					
Event	7	Rig-Up Equipment	10/18/2014	13:30:00	USER					1 hardline to stand pipe, 1 water hose to upright, bulk hose to 660
Event	8	Rig-Up Completed	10/18/2014	14:30:00	USER					
Event	9	Pre-Job Safety Meeting	10/18/2014	15:15:00	USER					Mud 8.8 ppg
Event	10	Start Job	10/18/2014	15:31:30	COM5					TD 1056', TP 1041', SJ 44', 13 1/2" OH, 9 5/8" H-40 32# csg
Event	11	Prime Pumps	10/18/2014	15:33:52	COM5	8.33	2.0	111	2.0	Fresh Water
Event	12	Test Lines	10/18/2014	15:37:25	USER			3022		Pressure held well
Event	13	Pump Spacer 1	10/18/2014	15:39:50	COM5	8.33	4.0	119	20.0	Fresh Water
Event	14	Pump Lead Cement	10/18/2014	15:48:30	COM5	12.3	6.0	196	50.2	115 sks, 12.3 ppg, 2.45 yield, 14.17 gal/sk
Event	15	Pump Tail Cement	10/18/2014	15:57:16	COM5	12.8	7.0	245	66.0	170 sks, 12.8 ppg, 2.18, 12.11 gal/sk
Event	16	Shutdown	10/18/2014	16:07:49	USER					Wash up on top of plug
Event	17	Drop Top Plug	10/18/2014	16:12:47	COM5					
Event	18	Pump Displacement	10/18/2014	16:13:48	COM5	8.33	10.0	481	78.5	Fresh Water
Event	19	Slow Rate	10/18/2014	16:23:54	USER	8.33	2.0	257	10.0	Good returns throughout job
Event	20	Bump Plug	10/18/2014	16:27:42	COM5			268		30 bbls cement to surface

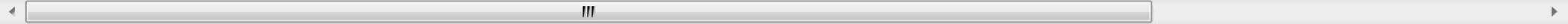
Event	21	Check Floats	10/18/2014	16:28:53	USER	887	Floats held – ½ bbl flowback
Event	22	End Job	10/18/2014	16:30:50	COM5		40 lbs sugar used
Event	23	Pre-Rig Down Safety Meeting	10/18/2014	16:45:00	USER		
Event	24	Rig-Down Equipment	10/18/2014	17:00:00	USER		
Event	25	Rig-Down Completed	10/18/2014	18:00:00	USER		
Event	26	Pre-Convoy Safety Meeting	10/18/2014	18:15:00	USER		
Event	27	Crew Leave Location	10/18/2014	18:30:00	USER		Thank you for using Halliburton

WPX - GM 413-33 - 9 5/8" SURFACE



DH Density (ppg) 8.13 Comb Pump Rate (bbl/min) 0 PS Pump Press (psi) 40 Pump Stg Tot (bbl) 91.6

- | | | | | |
|---|---|------------------------------------|-----------------------------------|--------------------------|
| ① Call Out n/a;n/a;n/a;n/a | ⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a | ⑪ Prime Pumps 8.31;0;6;0.1 | ⑰ Shutdown 12.49;0;97;73.7 | ⑳ Check Floats 8.11;0;13 |
| ② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a | ⑦ Rig-Up Equipment n/a;n/a;n/a;n/a | ⑫ Test Lines 8.39;0;2964;2.1 | ⑱ Drop Top Plug 12.76;0;28;73.7 | ㉑ End Job 8.12;0;38;77.2 |
| ③ Crew Leave Yard n/a;n/a;n/a;n/a | ⑧ Rig-Up Completed 8.32;0;-2;0 | ⑬ Pump Spacer 1.833;0;6;24;0 | ㉒ Pump Displacement 1.73;1.7;35;0 | ㉓ Pre-Rig Down Safety |
| ④ Arrive At Location n/a;n/a;n/a;n/a | ⑨ Pre-Job Safety Meeting 8.35;0;3;0 | ⑭ Pump Lead Cement 8.41;4;108;0.7 | ㉔ Slow Rate 8.11;9;480;69.7 | ㉕ Rig-Down Equipment |
| ⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a | ⑩ Start Job 8.36;0;3;0 | ⑮ Pump Tail Cement 12.63;6;175;2.8 | ㉖ Bump Plug 8.14;0;841;77.2 | ㉗ Rig-Down Completed |



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Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date : 10/18/2014 1:55:48 PM

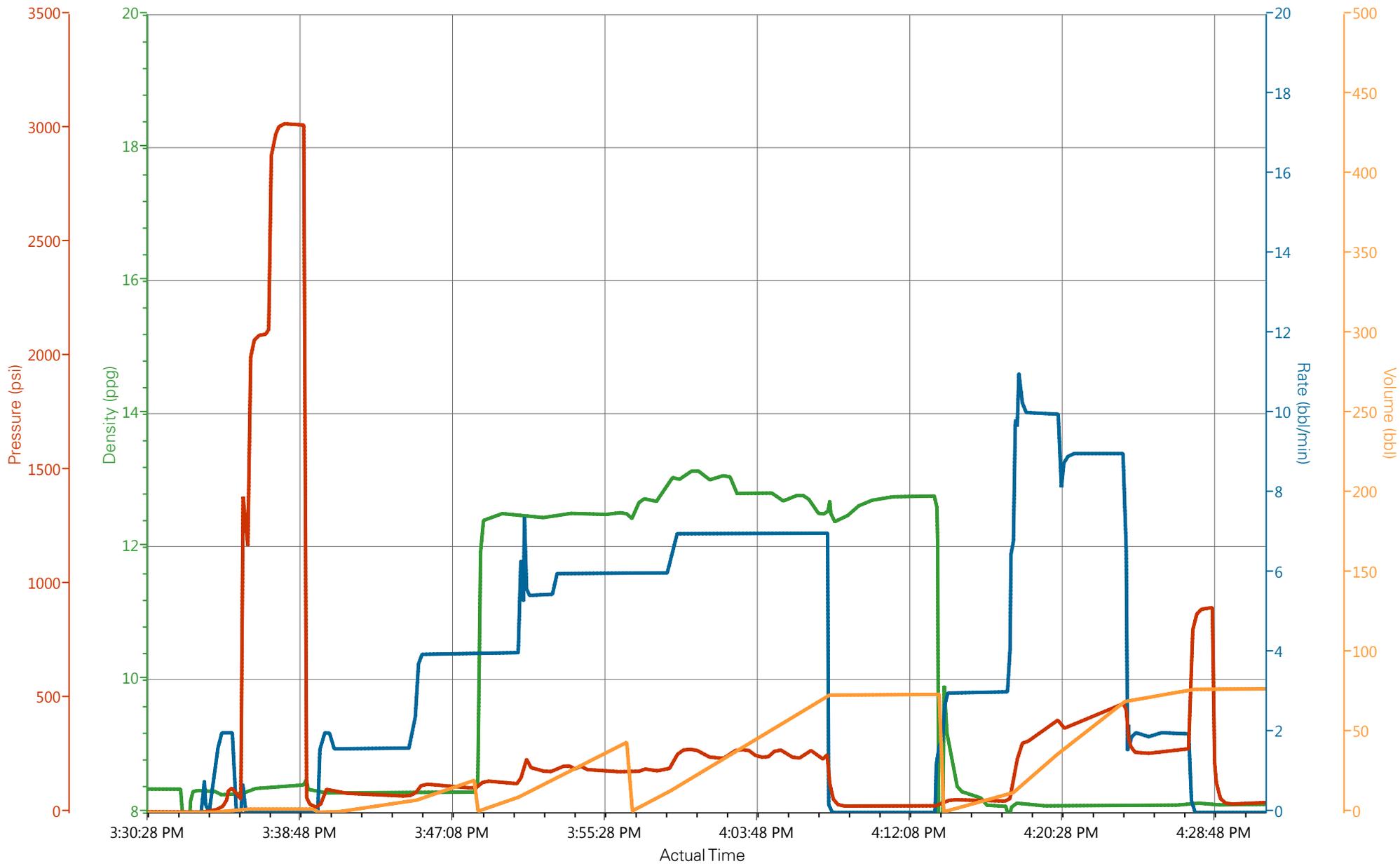
Well : GM 413-33

Representative : Scott Geary

Sales Order # : 901749886

Elite #7 : Ed Deussen / Zach Diaz

WPX - GM 413-33 - 9 5/8" SURFACE



DH Density (ppg) 8.13 Comb Pump Rate (bbl/min) 0 PS Pump Press (psi) 40 Pump Stg Tot (bbl) 91.6

HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: ED DEUSSEN
Attention: J.TROUT
Lease: GM
Well #: 413-33

Date: 10/18/2014
Date Rec.: 10/18/2014
S.O.#: 901749886
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	6.0
Potassium (K)	<i>5000</i>	200 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>	<200 Mg / L
Temp	<i>40-80</i>	60 Deg
Total Dissolved Solids		160 Mg / L

Respectfully: ED DEUSSEN

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

Sales Order #: 0901749886	Line Item: 10	Survey Conducted Date: 10/18/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: SCOTT GEARY		API / UWI: (leave blank if unknown) 05-045-22491-00
Well Name: WPX GM		Well Number: 0080643459
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	10/18/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB57194
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	10/18/2014
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)	4
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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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.	
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)	N/A
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	95
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
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