

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 43-6

Aztec 1000

Post Job Summary

Cement Production Casing

Date Prepared: 8/12/2014

Job Date: 8/9/2014

Submitted by: Tony Eschete - Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3476015	Quote #:	Sales Order #: 0901570643
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: BRANDON HAIRE	
Well Name: HICKS PA		Well #: 43-6	API/UWI #: 05-045-22411-00
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE SW-6-7S-95W-808FSL-2252FWL			
Contractor:		Rig/Platform Name/Num: Aztec 1000	
Job BOM: 7523			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: Thomas Ponder	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	7725ft		Job Depth TVD
Water Depth			Wk Ht Above Floor 5ft
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		4.5	4	11.6			0	7725		0
Open Hole Section			8.75				1664	7725	0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	4.5	1		7725		Top Plug	4.5	1	HES
Float Shoe	4.5					Bottom Plug	4.5		
Float Collar	4.5	1		7697		SSR plug set	4.5		
Insert Float	4.5					Plug Container	4.5	1	HES
Stage Tool	4.5					Centralizers	4.5		

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	12.3 lb/gal Tuned Spacer III	Tuned Spacer III	40	bbl	12.3	2.86		6		
34.90 gal/bbl		FRESH WATER								
195.50 lbm/bbl		BARITE, BULK (100003681)								

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	HalCem GJ1	HALCEM (TM) SYSTEM		700	sack	12.7	1.81		7	9.64
9.67 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	HalCem GJ2	HALCEM (TM) SYSTEM		740	sack	13.5	1.44		7	6.33
6.57 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		119.3	bbl	8.34			10	
Cement Left In Pipe		Amount	28 ft			Reason		Shoe Joint		
Comment										

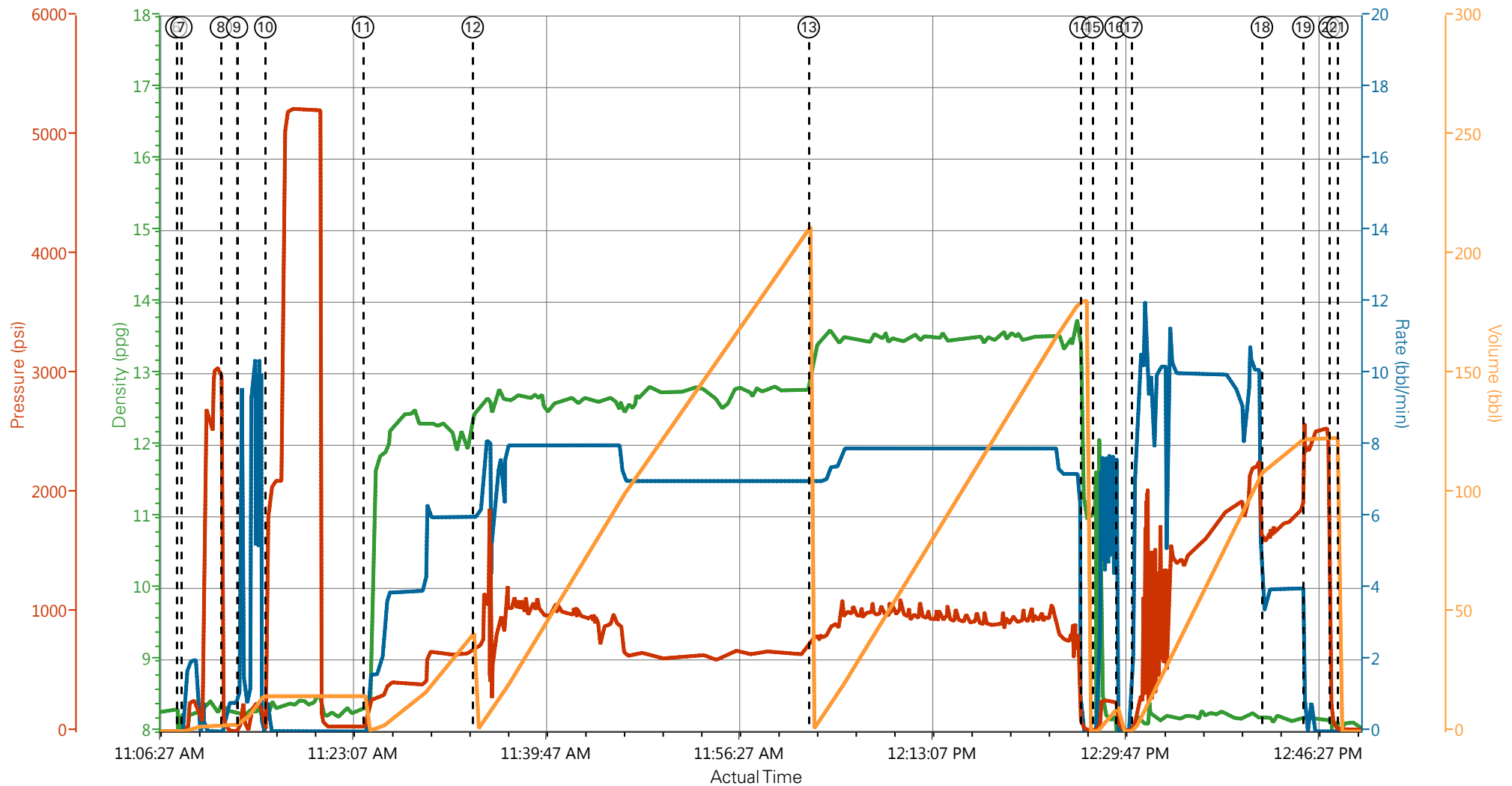
1.1 Job Event Log

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	8/8/2014	23:00:00	USER					ON LOCATION TIME @ 0600
Event	2	Arrive at Location from Other Job or Site	8/9/2014	00:00:00	USER					CREW ARRIVED FROM ANOTHER LOCATION, CEMENT WAS DELIVERED TO CREW
Event	3	Assessment Of Location Safety Meeting	8/9/2014	08:00:00	USER					TD- 7725', TP- 7725', SJ- 28', MUD- 12.0 PPG, HOLE- 8 3/4", SURFACE CASING- 9 5/8" 32.3# SET @ 1664', PRODUCTION CASING- 4 1/2" 11.6#
Event	4	Rig-Up Equipment	8/9/2014	09:00:00	USER					1-550 PICKUP, 1-ELITE PUMP, 2-660 CUFT BULK TRUCK,1- 400 CUFT BODY LOAD, 1- WASH UP TRUCK, 1-1700 CUFT STORAGE SILO
Event	5	Pre-Job Safety Meeting	8/9/2014	10:45:00	USER					ALL HES PRESENT, RIG CREW PRESENT, RIG STARTED CIRCULATING ON BOTTOM @ 0800
Event	6	Start Job	8/9/2014	11:08:10	COM6					
Event	7	Prime Pumps	8/9/2014	11:08:35	COM6	8.33	2	360	2	FILL LINES
Event	8	Test Lines	8/9/2014	11:12:00	COM6		.1	3000	.1	PRESSURE WOULD NOT HOLD
Event	9	Prime Pumps	8/9/2014	11:13:24	COM6					RE-PRIMED PUMPS AND LINES
Event	10	Test Lines	8/9/2014	11:15:50	USER		.1	5224	.1	GOOD PRESSURE TEST NO LEAKS IN THE LINES
Event	11	Pump Spacer 1	8/9/2014	11:24:16	COM6	12.3	6	690	40	40 BBL 12.3 PPG 2.86 FT3/SK 17.9 GAL/SK
Event	12	Pump Lead Cement	8/9/2014	11:33:44	COM6	12.7	7	1115	225.7	700 SKS 12.7 PPG 1.81 FT3/SK 9.67 GAL/SK
Event	13	Pump Tail Cement	8/9/2014	12:02:44	COM6	13.5	7	1095	189.8	740 SKS 13.5 PPG 1.44 FT3/SK 6.33 GAL/SK
Event	14	Shutdown	8/9/2014	12:26:12	USER					
Event	15	Clean Lines	8/9/2014	12:27:14	COM6					WASHED UP PUMPS AND LINES TO THE WASH UP TRUCK
Event	16	Drop Top Plug	8/9/2014	12:29:13	COM6					PLUG DROP VERIFIED VIA TATTLE TELL BY CO REP
Event	17	Pump Displacement	8/9/2014	12:30:35	COM6	8.5	10	2300	109.3	FRESH WATER, 2% KCL, 3 LB BE-6, 1 GAL MMCR
Event	18	Slow Rate	8/9/2014	12:41:51	USER	8.5	4	1640	10	GOOD RETURNS THROUGH OUT THE JOB, CIRCULATED 10 BBL OF CEMENT TO SURFACE
Event	19	Bump Plug	8/9/2014	12:45:25	USER		4	1940	119.3	PLUG BUMPED
Event	20	Check Floats	8/9/2014	12:47:41	USER			2540	119.3	FLOATS HEL, 1.5 BBL BACK TO THE DISPLACEMENT TANKS

Event	21	End Job	8/9/2014	12:48:22	COM6
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THANK YOU FOR CHOOSING HALLIBURTON, THOMAS
PONDER AND CREW

WPX - HICKS PA 43-6 - 4.5 IN PRODUCTION



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

- | | | | | |
|---|---------------|--------------------|---------------------|------------|
| ① Call Out | ⑥ Start Job | ⑪ Pump Spacer 1 | ⑯ Drop Top Plug | 21 End Job |
| ② Arrive at Location from Other Job or Site | ⑦ Prime Pumps | ⑫ Pump Lead Cement | ⑰ Pump Displacement | |
| ③ Assessment Of Location Safety Meeting | ⑧ Test Lines | ⑬ Pump Tail Cement | ⑱ Slow Rate | |
| ④ Rig-Up Equipment | ⑨ Prime Pumps | ⑭ Shutdown | ⑲ Bump Plug | |
| ⑤ Pre-Job Safety Meeting | ⑩ Test Lines | ⑮ Clean Lines | 20 Check Floats | |

▼ **HALLIBURTON** | iCem® Service

Created: 2014-08-09 09:49:05, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 8/9/2014 10:37:44 AM

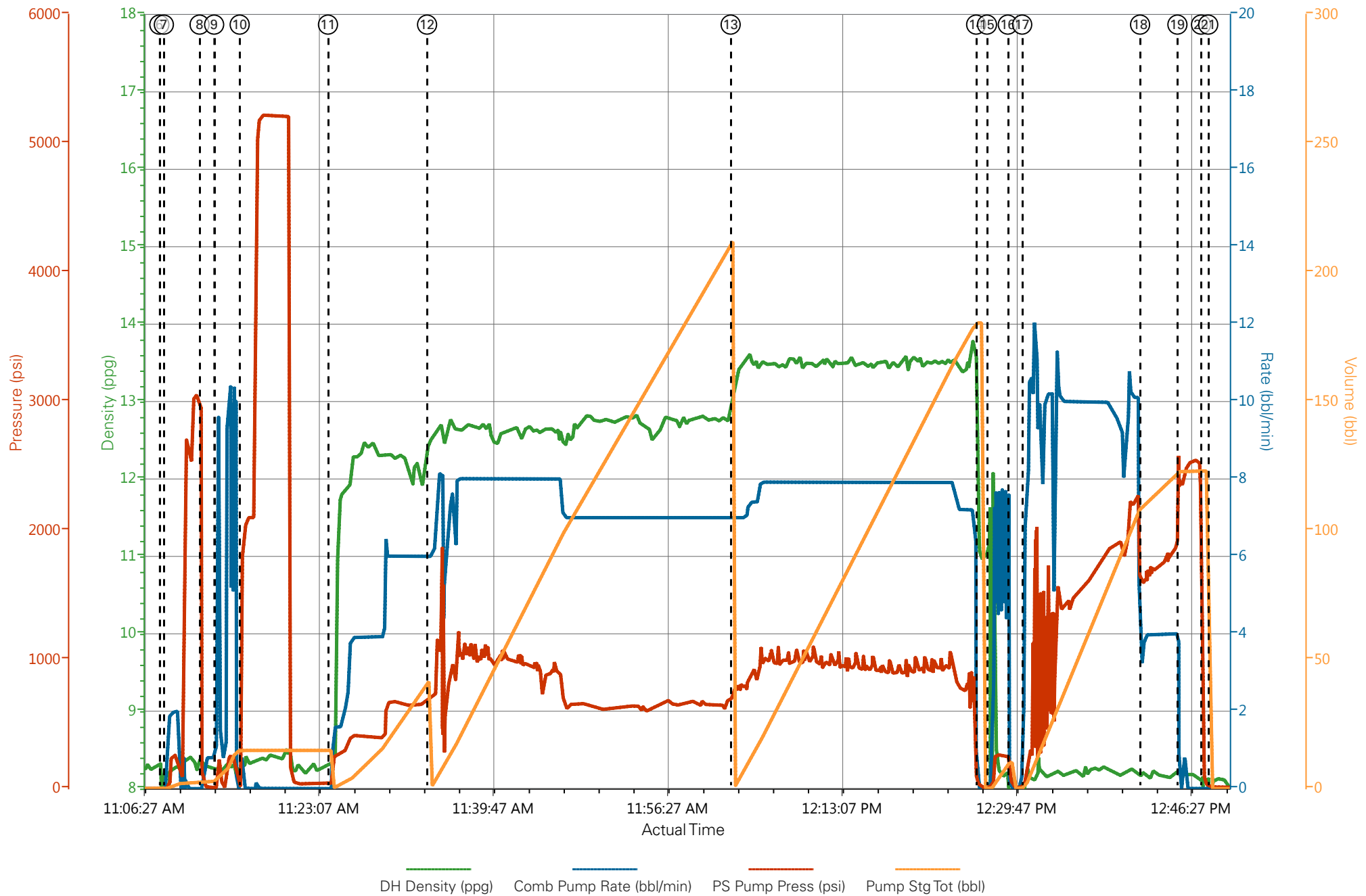
Well: HICKS PA 43-6

Representative: BRANDON HAIRE

Sales Order #: 901570643

ELITE #6: ANDREW LINN / THOMAS PONDER

WPX - HICKS PA 43-6 - 4.5 IN PRODUCTION



HALLIBURTON

Company:	<u>WPX</u>	Date:	<u>8/9/2014</u>
Submitted by:	<u>THOMAS PONDER</u>	Date Rec.:	<u>8/9/2014</u>
Attention:	<u>LARRY COOKSEY</u>	S.O.#	<u>901570643</u>
Lease	<u>HICKS PA</u>	Job Type:	<u>PRODUCTION</u>
Well #	<u>43-6</u>		

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>250</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
Carbonates hardness		
Temp	<i>40-80</i>	<i>72</i> Deg
Total Dissolved Solids		<i>185</i> Mg / L

Respectfully: THOMAS PONDER

Title: CEMENTING SUPERVISOR

Location: GRAND JCT, CO

Sales Order #: 0901570643	Line Item: 10	Survey Conducted Date: 8/9/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22411-00
Well Name: HICKS PA		Well Number: 0080606520
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	8/9/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX41187
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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H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	8/9/2014
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	Deviated
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	5
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)	2
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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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	95
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	95
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