

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 43-6

Aztec 1000

Post Job Summary

Cement Surface Casing

Date Prepared: 8/6/2014

Job Date: 8/4/2014

Submitted by: Tony Eschete - Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3476015	Quote #:	Sales Order #: 0901545731
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: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: Eric Carter	
Job			

Formation Name				
Formation Depth (MD)	Top	0 FT.	Bottom	1664 FT.
Form Type	BHST			
Job depth MD	1664ft	Job Depth TVD	1664 FT.	
Water Depth			Wk Ht Above Floor	5 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	1664		0
Casing		9.625	9.001	32.3	8 RD	H-40	0	1664	0	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

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
Stage/Plug #: 1									
1	Fresh Water	Fresh Water	50	bbl	8.34			7	
Stage/Plug #: 2									
2	Lead Cement	VARICEM (TM) CEMENT	275	sack	12.3	2.38	13.75	8	
94 lbm		TYPE I / II CEMENT, BULK (101439798)							

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	Tail Cement	VARICEM (TM) CEMENT	165	sack	12.8	2.11	11.75	8	
11.77 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	Displacement	Displacement	127.3	bbl	8.34			9	
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
5	Top Out	Type I/II	185	Sacks	15.6	1.18	5.22	1.5	
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
6	Top Out	Type I/II	80	Sacks	16.2	1.3	5.22		
Cement Left In Pipe		Amount 46 ft	Reason			Shoe Joint			
Comment									

Summary Report



Sales Order #: 0901545731
WO #: 0901545731
PO/AFE #: NA

Crew: _____

Job Start Date: 7/31/2014

Customer:	WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Field:	PARACHUTE	Job Type:	CMT SURFACE CASING BOM
UWI / API Number:	05-045-22411-00	County/Parish:	GARFIELD	Service Supervisor:	Eric Carter
Well Name:	HICKS PA	State:	COLORADO		
Well No:	43-6	Latitude:	39.462007	Cust Rep Name:	BRANDON HAIRE
		Longitude:	-108.041284	Cust Rep Phone #:	
		Sect / Twn / Rng:	6/7/95		

Remarks:		
<i>The Information Stated Herein Is Correct</i>	Customer Representative Signature	Date
	Customer Representative Printed Name	

3.5 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	PS Pump Press (psi)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	8/3/2014	23:00	USER					
Event	2	Arrive at Location from Other Job or Site	8/4/2014	00:00	USER					RIG RUNNING CASING
Event	3	Assessment Of Location Safety Meeting	8/4/2014	00:50	USER					ATTENDED BY ALL HES CREW
Event	4	Other	8/4/2014	01:00	USER					SPOT EQUIPMENT
Event	5	Pre-Rig Up Safety Meeting	8/4/2014	01:20	USER					RIG RUNNING CASING
Event	6	Rig-Up Equipment	8/4/2014	01:30	USER					
Event	7	Pre-Job Safety Meeting	8/4/2014	02:20	USER					RIG RUNNING CASING, RIG CREW AND COMPANY REP
Event	8	Start Job	8/4/2014	02:44:37	COM5					TP 1664', TD 1664', MW 10.7 PPG, CASING 9.625", 32.3#, H-40, SJ 46', HOLE 13.5", RIG CIRCULATED FOR 1.5 HR'S PRIOR TO JOB
Event	9	Other	8/4/2014	02:46:01	COM5	8.33	146	2	2	FILL LINES
Event	10	Test Lines	8/4/2014	02:47:38	USER					PRESSURED UP TO 3370 PSI, PRESSURE HELD
Event	11	Pump Spacer	8/4/2014	02:52:07	USER	8.40	300	7	50	FRESH WATER
Event	12	Pump Lead Cement	8/4/2014	03:04:14	COM5	12.3	490	8	116.6	275 SKS VARICEM MIXED AT 12.3 PPG, 2.38 YIELD, 13.75 GL/SK
Event	13	Pump Tail Cement	8/4/2014	03:20:45	COM5	12.8	400	8	62	165 SKS VARICEM MIXED AT 12.8 PPG, 2.11 YIELD, 11.75 GL/SK
Event	14	Shutdown	8/4/2014	03:30:00	COM5					
Event	15	Drop Top Plug	8/4/2014	03:33:45	USER					PLUG LAUNCHED
Event	16	Pump Displacement	8/4/2014	03:33:58	COM5	8.33	420	9	117.3	FRESH WATER
Event	17	Slow Rate	8/4/2014	03:52:25	USER	8.33	215	2	10	
Event	18	Bump Plug	8/4/2014	03:54:33	USER		830			PLUG LANDED
Event	19	Check Floats	8/4/2014	03:58:03	USER					FLOATS HELD
Event	20	End Job	8/4/2014	03:58:28	USER					GOOD CIRCULATION THROUGH OUT JOB, 0 BBLS CEMENT TO SURFACE, PIPE NOT MOVED DURING JOB

COMMENT

8/4/2014

04:00

COMPANY REP REQUESTED 300 SKS TYPE I/II TO TOP OUT
WELL

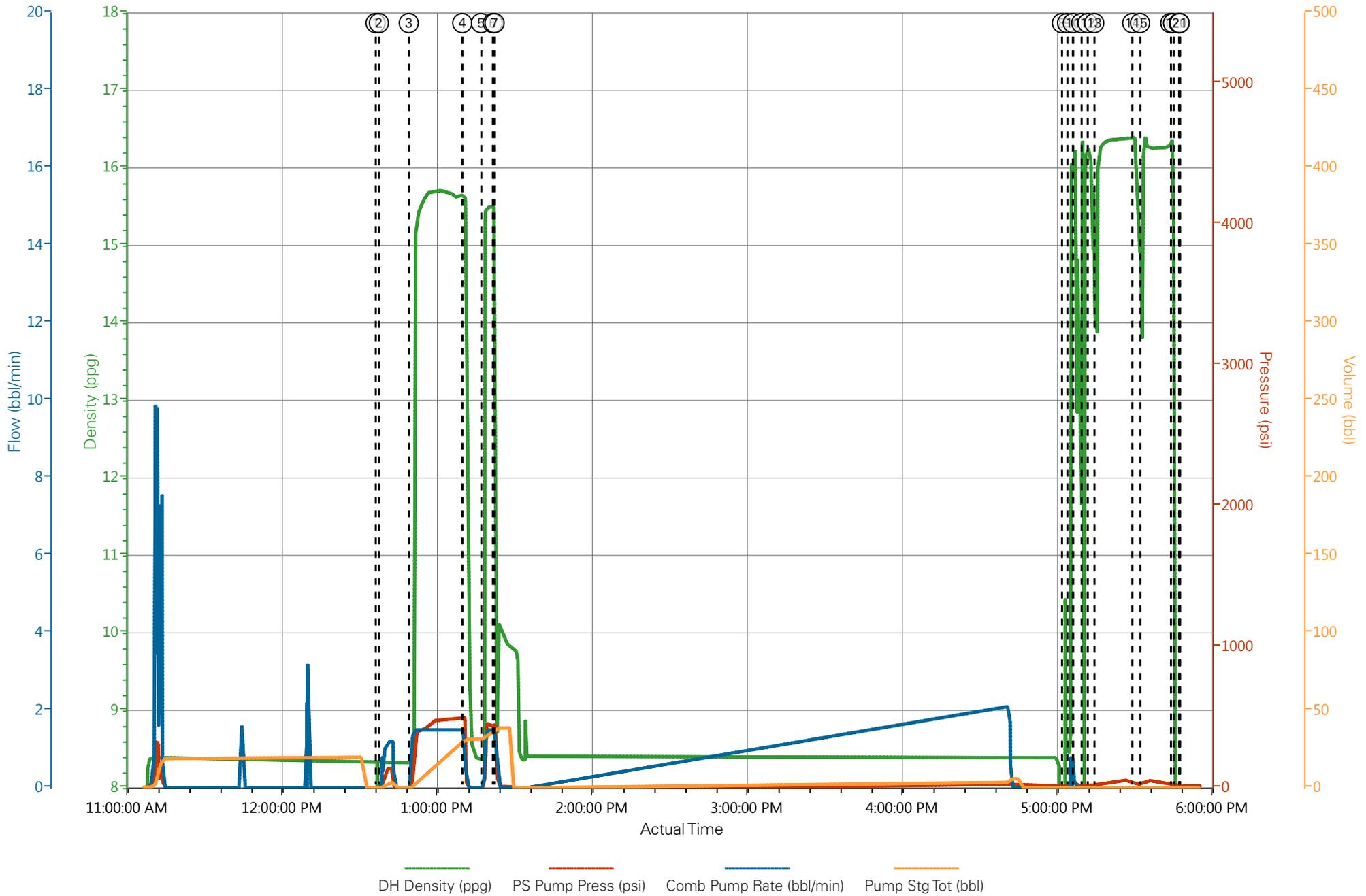
3.5 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	PS Pump Press (psi)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comment
Event	1	Start Job	8/4/2014	12:37:22	COM5					BEGIN TOP OUT 43-6, GAS WAS MIGRATING TO SURFACE PRIOR TO JOB
Event	2	Pump Water	8/4/2014	12:38:40	USER	8.33	140	1.5	5	FRESH WATER
Event	3	Pump Cement	8/4/2014	12:50:14	USER	15.6	500	1.5	40.2	185 SKS TYPE I/II CEMENT MIXED AT 15.6 PPG, 1.18 YIELD, 5.22 GL/SK
Event	4	Shutdown	8/4/2014	13:10:55	USER					8 BBLS CEMENT TO SURFACE, SHUTDOWN TO ALLOW CEMENT TO FALL, GAS STILL MIGRATING TO SURFACE
Event	5	Resume	8/4/2014	13:18:09	USER					PUMPED REMAINDER OF CEMENT IN MIX TUB TO CELLAR, COMPANY REP REQUESTED SUPER FLUSH 100 BROUGHT OUT IN BUCKETS WITH CALCIUM CHLORIDE ON SIDE.
Event	6	Pump Water	8/4/2014	13:22:44	USER	8.33	425	1.5	1.2	PUMPED FRESH WATER TO CLEAN LINES
Event	7	Shutdown	8/4/2014	13:23:25	USER					
Event	8	Start Job	8/4/2014	17:03:00	COM5					GAS STILL MIGRATING TO SURFACE, RIG SUCKED 25' OF CEMENT OUT OF ANNULUS
Event	9	Pump Cement	8/4/2014	17:05:00	USER	16.2	50		3	(USED 6X5 CENTRIFUGAL TO PUMP CEMENT) 80 SKS TYPE I/II CEMENT MIXED AT 16.2 PPG, SUPER FLUSH AND CALCIUM CHLORIDE POURED DOWN ANNULUS WHILE PUMPING CEMENT DOWN ANNULUS
Event	10	Shutdown	8/4/2014	17:07:12	USER					SHUTDOWN TO ALLOW CEMENT TO FALL
Event	11	Resume	8/4/2014	17:10:29	USER	16.2	50		3	
Event	12	Shutdown	8/4/2014	17:12:57	USER					SHUTDOWN TO ALLOW CEMENT TO FALL
Event	13	Resume	8/4/2014	17:15:30	USER	16.2	50		4	
Event	14	Shutdown	8/4/2014	17:30:14	USER					SHUTDOWN TO ALLOW CEMENT TO FALL
Event	15	Resume	8/4/2014	17:33:15	USER	16.2	50		5	
Event	16	Shutdown	8/4/2014	17:44:58	USER					COMPANY REP RELEASED HES
Event	17	End Job	8/4/2014	17:46:00	USER					CEMENT WAS NOT FALLING WITH VERY LITTLE GAS MIGRATION
Event	18	Post-Job Safety Meeting	8/4/2014	17:50	USER					ATTENDED BY ALL HES CREW

(Pre Rig-Down)

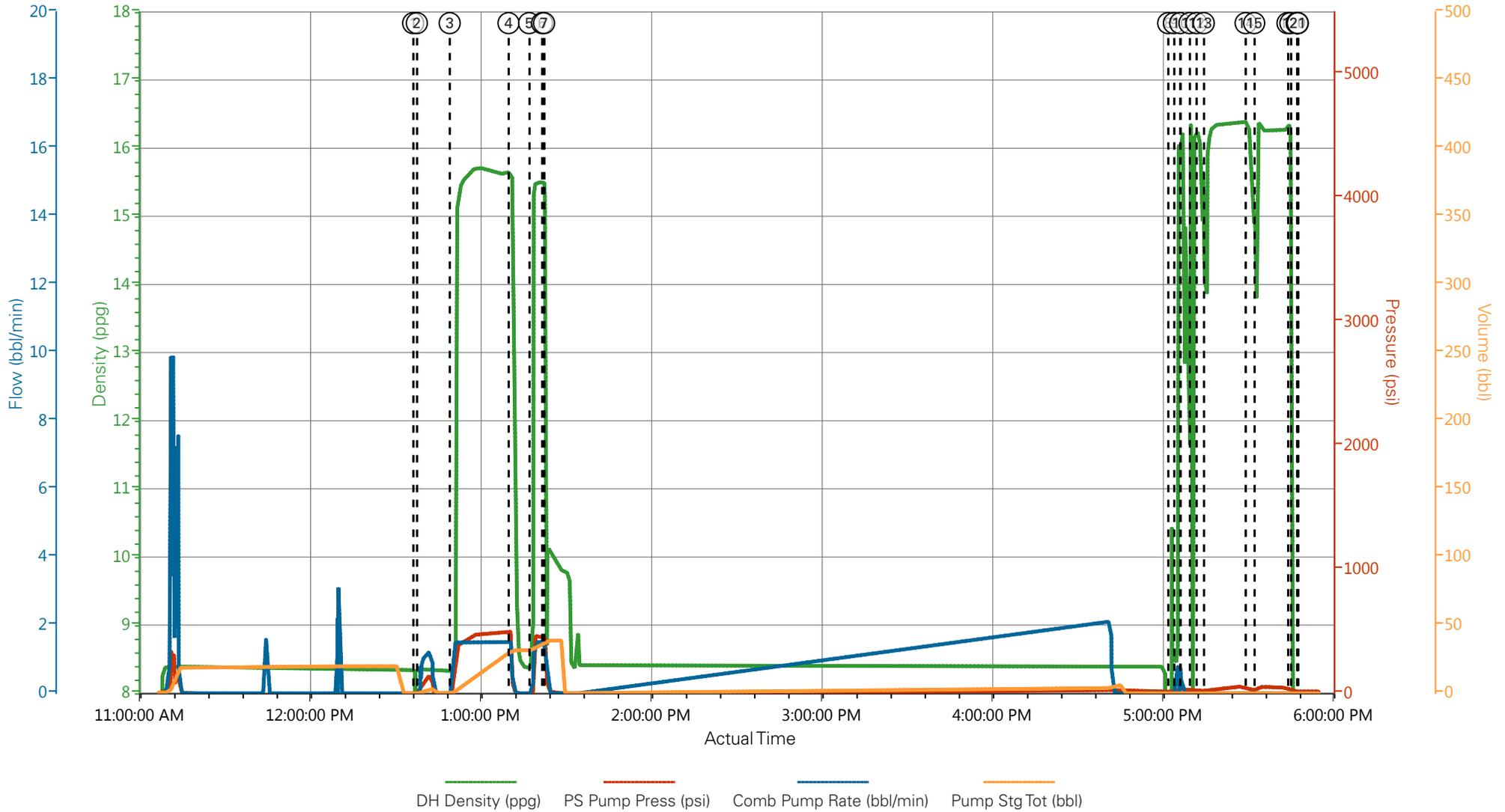
Event	19	Rig-Down Equipment	8/4/2014	18:20	USER	
Event	20	Depart Location Safety Meeting	8/4/2014	19:50	USER	ATTENDED BY ALL HES CREW
Event	21	Crew Leave Location	8/4/2014	20:00	USER	THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW.

WPX - PA 43-6 - TOP OUT



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

WPX - PA 43-6 - TOP OUT



- | | | | |
|-------------------------------|----------------------------|--|---|
| ① Start Job 8.38;-5;0;0 | ⑦ Shutdown 10.18;33;0;38.7 | ⑬ Resume 15.85;30;0;0.3 | ⑲ Rig-Down Equipment 2.22;14;0;0.4 |
| ② Pump Water 8.33;26;0.4;0.1 | ⑧ Start Job 10.15;13;0;0 | ⑭ Shutdown 16.2;34;0;0.3 | 20 Depart Location Safety Meeting 2.25;13;0;0.4 |
| ③ Pump Cement 8.32;19;0.8;0.1 | ⑨ Pump Cement 8.43;12;0;0 | ⑮ Resume 16.12;35;0;0.3 | 21 Crew Leave Location 2.27;13;0;0.4 |
| ④ Shutdown 15.55;347;0.5;31.5 | ⑩ Shutdown 15.22;15;0;0.3 | ⑯ Shutdown 14.98;44;0;0.4 | |
| ⑤ Resume 8.37;-10;0;31.5 | ⑪ Resume 14.51;23;0;0.3 | ⑰ End Job 0.3;15;0;0.4 | |
| ⑥ Pump Water 9.8;425;1.5;38.1 | ⑫ Shutdown 15.99;21;0;0.3 | ⑱ Post-Job Safety Meeting (Pre Rig-Down) 2.17;14;0;0.4 | |

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Created: 2014-08-04 04:52:49, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 8/4/2014 4:52:49 AM

Well: PA 43-6

Representative: BRANDON HAIRE

Sales Order #: 901545731

ERIC CARTER: ANDREW SCHANZ/ELITE 7

JOB PROCEDURE

AZTEC 1000

Pre-Planned Job Procedure Single Stage

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job		Rate 8 10 2			
6	Test Lines	3000.0				
9	WATER SPACER	40.0				
13	Lead Cement	116.6	275	12.3	2.38	13.75
15	Tail Cement	62.0	165	12.8	2.11	11.75
4	SHUTDOWN					
22	DROP PLUG					
23	Displacement	127.3		Mud Wt.	10.4	
1085	Slow Rate	117.3		Casing	9.625	32.3
26	Land Plug	360		Open Hole	13.5	
	Release Psi / Job Over	860				
4	Check Floats					
2	END JOB					
				Disp Fluid	8.4	
			Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH	ANN FACTOR	BBL/FT	H2O REQ.	
127.34	1664	46.00	0.0870	0.0787	303.5	
PSI to Lift Pipe	621.3	*****Use Mud Scales on Each Tier*****				
Total Displacement	127.34					
CALCULATED DIFFERENTIAL PSI		360	TOTAL FLUID PUMPED		345.9	
Collapse	1400	Burst	2270	S.O.#	901545731	
HOT	671.1	TOT	992.9	Company Rep: BRANDON HAIRE		
Bbls to Pit	30.2					

HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: ERIC CARTER
Attention: J.Trout
Lease: AZTEC 1000
Well #: PA 43-6

Date: 8/6/2014
Date Rec.: 8/6/2014
S.O.#: 901545731
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	0 Mg / L
Hardness	<i>500</i>	250 Mg / L
Iron (FE2)	<i>300</i>	10 Mg / L
Chlorides (Cl)	<i>3000</i>	500 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Temp	<i>40-80</i>	70 Deg
Total Dissolved Solids		240 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 or its

Sales Order #: 0901545731	Line Item: 10	Survey Conducted Date: 8/4/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: BRANDON HAIRE		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	8/4/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX15491
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	BRANDON HAIRE
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

Sales Order #: 0901545731	Line Item: 10	Survey Conducted Date: 8/4/2014
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Well Name: HICKS PA		Well Number: 0080606520
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	8/4/2014
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	High Angle
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	6
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)	4
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	5
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: BRANDON HAIRE		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

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	98
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	96
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