HALLIBURTON

Cementing

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 343-6

Aztec 1000

Post Job Summary
Cement Surface Casing

Date Prepared: 07/29/2014
Job Date: 07/25/2014

Submitted by: Kory Hugentobler – Grand Junction Cement Engineer

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 3476001	**Quote #:**	**Sales Order #:** 0901523362
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		**Customer Rep:** JOSH G	
Well Name: HICKS PA	**Well #:** 343-6		**API/UWI #:** 05-045-22412-00
Field: PARACHUTE	**City (SAP):** PARACHUTE	**County/Parish:** GARFIELD	**State:** COLORADO
Legal Description: SE SW-6-7S-95W-803FSL-2247FWL			
Contractor: Aztec		**Rig/Platform Name/Num:** Aztec 1000	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		**Srvc Supervisor:** Kyle Bath	

Job

Formation Name					
Formation Depth (MD)	**Top**		**Bottom**		
Form Type			**BHST**		
Job depth MD	1267ft		**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
Open Hole Section			13.5				0			0
Casing		9.625	9.001	32.3	8 RD	H-40	0	1267	0	0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625			1267		Top Plug	9.625		HES
Float Shoe	9.625					Bottom Plug	9.625		HES
Float Collar	9.625					SSR plug set	9.625		HES
Insert Float	9.625					Plug Container	9.625		HES
Stage Tool	9.625					Centralizers	9.625		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				

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	Lead Cement	VARICEM (TM) CEMENT	165	sack	12.3	2.38		5	13.77
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/min	Total Mix Fluid Gal
3	Tail Cement	VARICEM (TM) CEMENT	165	sack	12.8	2.11		8	11.77
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/min	Total Mix Fluid Gal
4	Displacement	Displacement	96	bbl	8.34				

Cement Left In Pipe	Amount	45 ft	Reason	Shoe Joint
Comment				

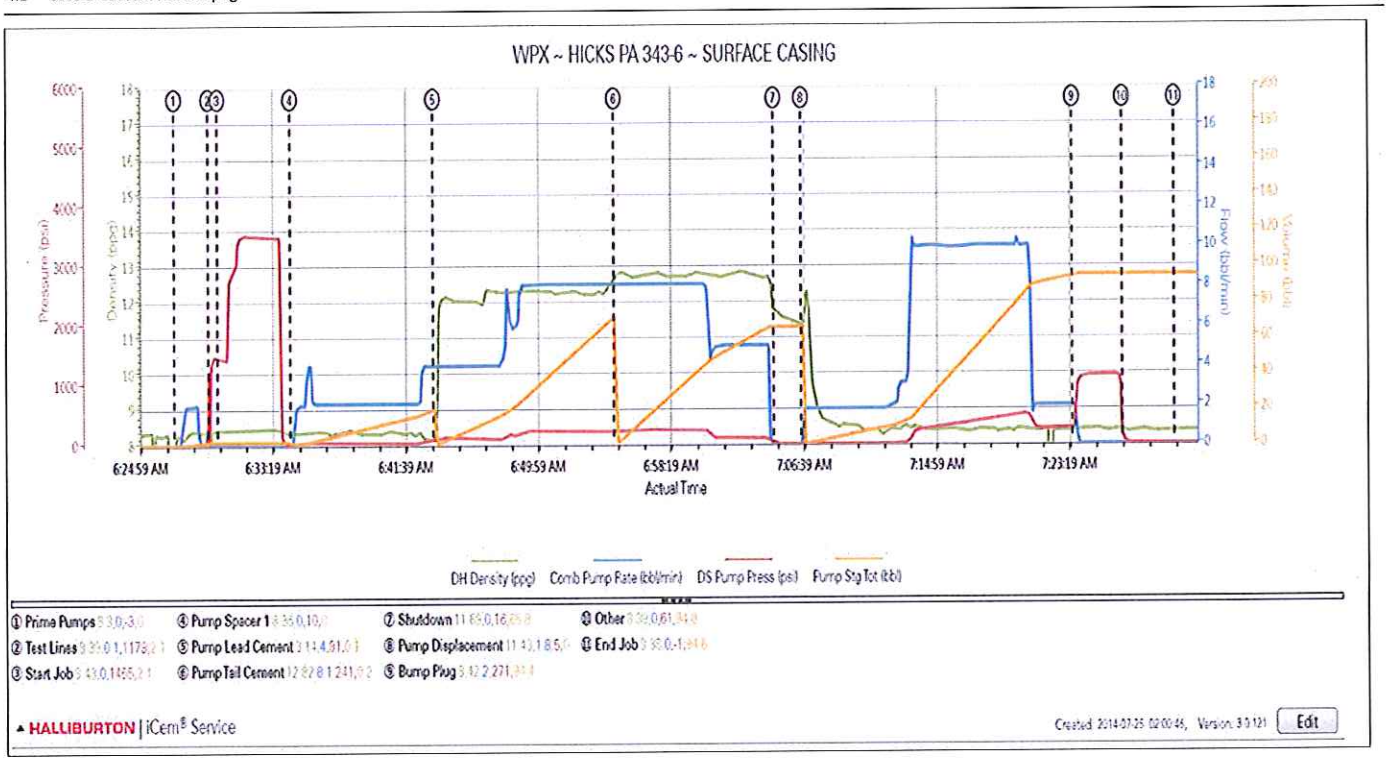
3.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	7/24/2014	21:00:00	USER					
Event	2	Pre Convoy Safety Meeting	7/24/2014	23:00:00	USER					
Event	3	Crew Leave Yard	7/24/2014	23:15:00	USER					
Event	4	Arive On Location	7/25/2014	00:30:00	USER					RIG PULLING DRILL PIPE UPON HES ARRIVAL
Event	5	Site Assesment Safety Meeting	7/25/2014	01:00:00	USER					
Event	6	Pre Rig Up Safety Meeting	7/25/2014	04:45:00	USER					
Event	7	Rig Up Complete	7/25/2014	05:45:00	USER					
Event	8	Pre Job Safety Meeting	7/25/2014	06:00:00	USER					
Event	9	Start Job	7/25/2014	06:26:00	COM3					TP 1267, SJ 45.07, CSG 9 5/8 32.3 J-55, HOLE 13 1/2, MUD 10.1
Event	10	Prime Pumps	7/25/2014	06:27:14	COM3	8.33	2	26	2	2 BBLS FRESH WATER
Event	11	Test Lines	7/25/2014	06:29:24	COM3			3538		TEST LINES TO 3538 PSI
Event	12	Pump Fresh Water Spacer	7/25/2014	06:34:34	COM3	8.33	4	80	20	PUMP 20 BBL FRESH WATER SPACER
Event	13	Pump Lead Cement	7/25/2014	06:43:31	COM3	12.3	8	240	70	MIX AND PUMP 165 SKS AT 12.3 PPG, 2.38 FT3/FT, 13.77 GAL SK
Event	14	Pump Tail Cement	7/25/2014	06:54:53	COM3	12.8	8	250	62	MIX AND PUMP 165 SKS AT 12.8 PPG, 2.11 FT3/FT 11.77 GAL/SK
Event	15	Shutdown	7/25/2014	07:04:52	COM3					
Event	16	Pump Displacement	7/25/2014	07:06:36	COM3	8.33	10	470	96	DROP PLUG AND PUMP 96 BBLS FRESH WATER DISPLACEMENT
Event	17	Bump Plug	7/25/2014	07:23:38	COM3					BUMP PLUG AT 263 PSI AND TAKE TO 1152 PSI
Event	18	Check Floats	7/25/2014	07:26:45	COM3					FLOATS HELD TOOK .5 BBL TO THE PUMP TRUCK
Event	19	End Job	7/25/2014	07:30:00	COM3					GOOD CIRCULATION THROUGHOUT JOB, 37 BBLS OF CEMENT TO SURFACE
Event	20	Pre Rig Down Safety	7/25/2014	07:45:00	USER					

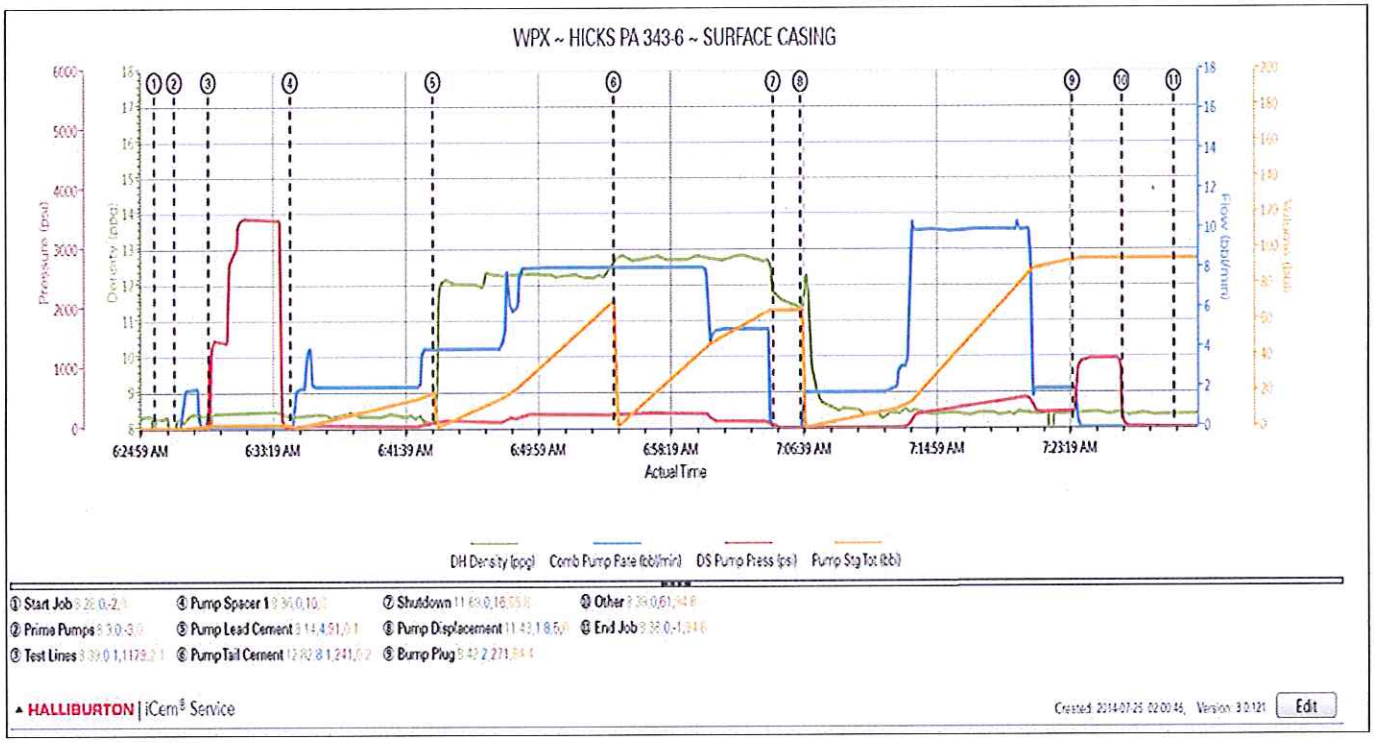
		Meeting				
Event	21	Rig Down Complete	7/25/2014	08:30:00	USER	
Event	22	Pre Convoy Safety Meeting	7/25/2014	08:45:00	USER	
Event	23	Crew Depart Location	7/25/2014	09:00:00	USER	THANK YOU FOR USING HALLIBURTON, KYLE BATH AND CREW!

4.0 Attachments

4.1 Case 1-Custom Results.png



4.2 Case 1-Custom Results (1).png



HALLIBURTON

Water Analysis Report

Company:	WPX	Date:	7/25/2014
Submitted by:	KYLE BATH	Date Rec.:	7/25/2014
Attention:	DALLAS SCOTT	S.O.#	901523362
Lease	HICKS PA	Job Type:	SURFACE
Well #	343-6		

Specific Gravity	*MAX*	1
pH	*8*	7
Potassium (K)	*5000*	250 Mg / L
Calcium (Ca)	*500*	120 Mg / L
Iron (FE2)	*300*	0 Mg / L
Chlorides (Cl)	*3000*	NA Mg / L
Sulfates (SO_4)	*1500*	<200 Mg / L
Chlorine (Cl_2)		0 Mg / L
Temp	*40-80*	70 Deg
Total Dissolved Solids		10 Mg / L

Respectfully: KYLE BATH

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

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CUSTOMER SURVEY

Sales Order #:	Line Item:	Survey Conducted Date:
0901523362	10	7/25/2014
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
		05-045-22412-00
Well Name:		**Well Number:**
HICKS PA		0080606503
Well Type:	**Well Country:**	
DIRECTIONAL GAS	USA	
H2S Present:	**Well State:**	**Well County:**
No	COLORADO	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	7/25/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB49384
Customer Participation	Did the customer partipcipate 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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Well Type:	**Well Country:**	
DIRECTIONAL GAS	USA	
H2S Present:	**Well State:**	**Well County:**
No	COLORADO	GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	7/25/2014

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.	3
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
Pumping Hours Total number of hours pumping fluid on this job. Enter in decimal format.	1
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	5
Was this a Primary Cement Job (Yes / No) Primary Cement Job= Casing job, Liner job, or Tie-back job.	Yes
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Customer Non-Productive Rig Time (hrs)	0

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No	COLORADO	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)	NA
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 cment 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