HALLIBURTON

Cementing

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 323-6

Nabors 574

Post Job Summary
Cement Surface Casing

Date Prepared: 05/28/2014
Job Date: 03/23/2014

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 #:** 3207575	**Quote #:**	**Sales Order #:** 0901210894
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		**Customer Rep:** MATT HUTSON	
Well Name: PA	**Well #:** 323-6		**API/UWI #:** 05-045-22224-00
Field: PARACHUTE	**City (SAP):** PAR	**County/Parish:** GARFIELD	**State:** COLORADO
Legal Description: 6-7S-95W-736FSL-760FWL			
Contractor: NABORS DRLG		**Rig/Platform Name/Num:** NABORS 574	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		**Srvc Supervisor:** Eric Carter	

Job

Formation Name				
Formation Depth (MD)	**Top**	0 FT.	**Bottom**	1512 FT
Form Type			**BHST**	
Job depth MD	1512 ft		**Job Depth TVD**	
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	1512		1512
Casing		9.625	9.001	32.3	8 RD	H-40	0	1512	0	1512

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

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	8.33			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	Lead Cement	VARICEM (TM) CEMENT	215	Sack/Ton	12.3	2.38		8	13.77
13.77 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
3	Tail Cement	VARICEM (TM) CEMENT	160	Sack/Ton	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	115.4	bbl	8.33			10	

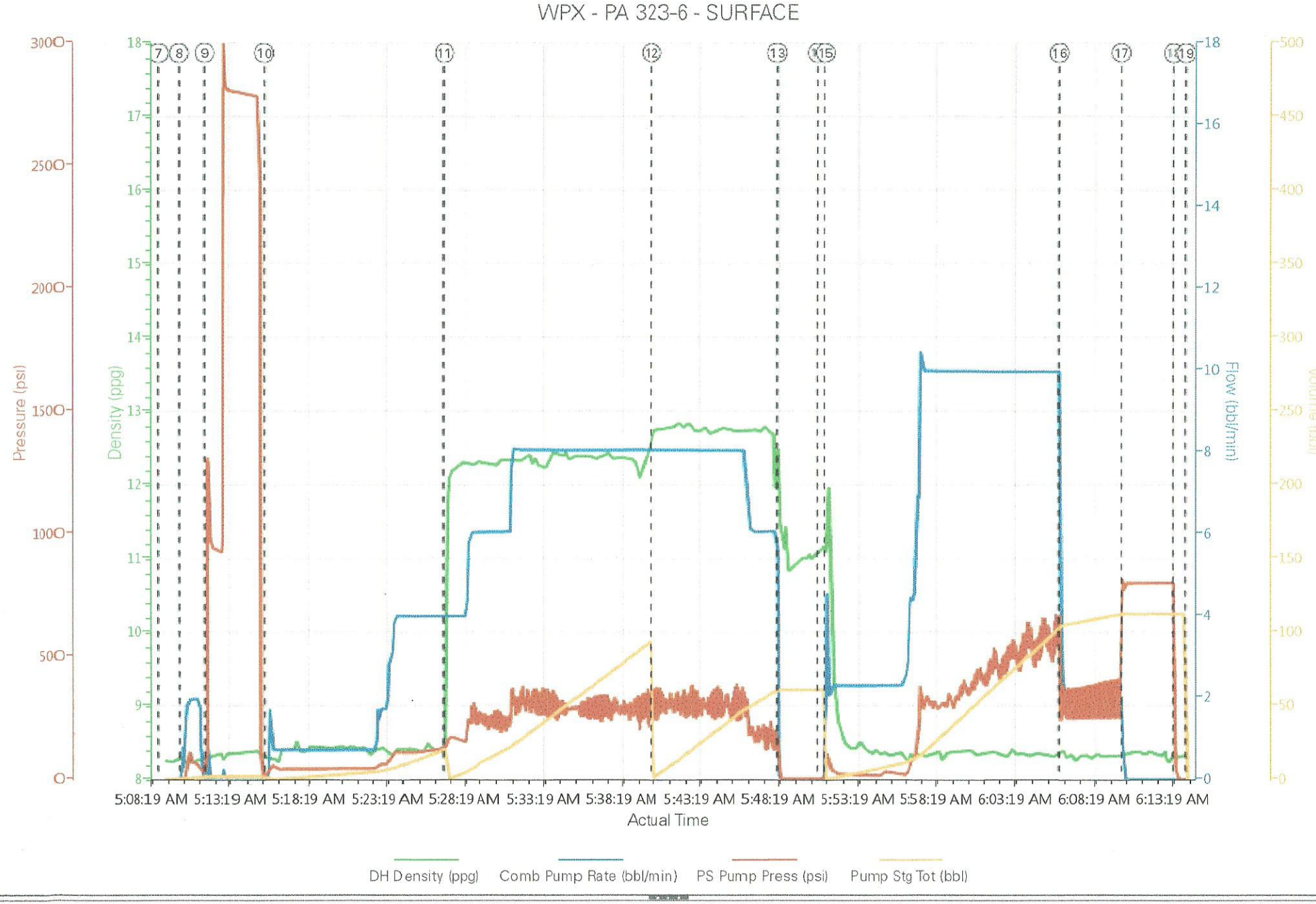
Cement Left In Pipe	Amount	46.23 ft	Reason	Shoe Joint

Comment

4.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Arrive at Location from Other Job or Site	Arrive at Location from Other Job or Site	3/23/2014	03:00:00	USER					RIG RUNNING CASING
Event	2	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	3/23/2014	03:30:00	USER					ATTENDED BY ALL HES CREW
Event	3	Other	Other	3/23/2014	03:40:00	USER					SPOT EQUIPMENT
Event	4	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	3/23/2014	03:50:00	USER					ATTENDED BY ALL HES CREW
Event	5	Rig-Up Equipment	Rig-Up Equipment	3/23/2014	04:00:00	USER					
Event	6	Pre-Job Safety Meeting	Pre-Job Safety Meeting	3/23/2014	04:45:00	USER					ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP
Event	7	Start Job	Start Job	3/23/2014	05:09:00	USER					TP 1512', SJ 46.23', FC 1465.77', MW 10.1 PPG, CASING 9.625", 32.3#, H-40, 11 CENTRALIZERS, HOLE 13.5", RIG CIRCULATED FOR 1.5 HR'S PRIOR TO JOB
Event	8	Other	Other	3/23/2014	05:10:17	USER	8.33	2	60	2	FILL LINES
Event	9	Test Lines	Test Lines	3/23/2014	05:11:55	USER					PRESSURED UP TO 2890 PSI, PRESSURE HELD
Event	10	Pump Spacer	Pump Spacer	3/23/2014	05:15:43	USER	8.33	4	140	20	FRESH WATER
Event	11	Pump Lead Cement	Pump Lead Cement	3/23/2014	05:27:10	USER	12.3	8	330	91.1	215 SKS VARICEM MIXED AT 12.3 PPG, 2.38 YIELD, 13.75 GL/SK
Event	12	Pump Tail Cement	Pump Tail Cement	3/23/2014	05:40:24	USER	12.8	8	320	60.1	160 SKS VARICEM MIXED AT 12.8 PPG, 2.11 YIELD, 11.75 GL/SK
Event	13	Shutdown	Shutdown	3/23/2014	05:48:23	USER					
Event	14	Drop Plug	Drop Plug	3/23/2014	05:50:55	USER					PLUG LAUNCHED
Event	15	Pump Displacement	Pump Displacement	3/23/2014	05:51:25	USER	8.33	10	600	105.4	FRESH WATER

Event	16	Slow Rate	Slow Rate	3/23/2014	06:06:14	USER	8.33	2	330	10	
Event	17	Bump Plug	Bump Plug	3/23/2014	06:10:12	USER				810	PLUG LANDED
Event	18	Check Floats	Check Floats	3/23/2014	06:13:30	USER					FLOATS HELD
Event	19	End Job	End Job	3/23/2014	06:14:18	USER					GOOD CIRCULATION THROUGH OUT JOB, PIPE NOT MOVED DURING JOB, 30 BBLS CEMENT TO SURFACE
Event	20	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	3/23/2014	06:20:00	USER					ATTENDED BY ALL HES CREW
Event	21	Rig-Down Equipment	Rig-Down Equipment	3/23/2014	06:30:00	USER					
Event	22	Depart Location Safety Meeting	Depart Location Safety Meeting	3/23/2014	07:20:00	USER					ATTENDED BY ALL HES CREW
Event	23	Crew Leave Location	Crew Leave Location	3/23/2014	07:30:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARETR AND CREW.



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Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date : 3/23/2014 12:00:00 AM

Well : PA 323-6

Representative: MATT HUTSON

Sales Order # : 901210894

ERIC CARTER : DAVID CAMPBELL/ELITE 2

HALLIBURTON

Water Analysis Report

Company:	WPX	**Date:**	3/23/2014
Submitted by:	ERIC CARTER	**Date Rec.:**	3/23/2014
Attention:	J.Trout	**S.O.#**	901210894
Lease	NABORS 574	**Job Type:**	SURFACE
Well #	PA 323-6		

Specific Gravity	*MAX*	1	
pH	*8*	7	
Potassium (K)	*5000*	400	Mg / L
Hardness	*500*	250	Mg / L
Iron (FE2)	*300*	0	Mg / L
Chlorides (Cl)	*3000*	500	Mg / L
Sulfates (SO_4)	*1500*	<200	Mg / L
Temp	*40-80*	44	Deg
Total Dissolved Solids		680	Mg / L

Respectfully: ERIC CARTER

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO