HALLIBURTON

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 423-29
Parachute
Garfield County , Colorado

Cement Surface Casing

03-Feb-2012

Post Job Summary

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 2901732	**Quote #:**	**Sales Order #:** 9198149
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		**Customer Rep:** HARRISON, JEREMY	
Well Name: PA	**Well #:** 423-29		**API/UWI #:** 05-045-19538
Field: Parachute	**City (SAP):** PARACHUTE	**County/Parish:** Garfield	**State:** Colorado
Lat: N 39.49 deg. OR N 39 deg. 29 min. 23.582 secs.		**Long:** W 108.023 deg. OR W -109 deg. 58 min. 37.027 secs.	
Contractor: NABORS 577	**Rig/Platform Name/Num:** NAB 577		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: MAYO, MARK	**Srvc Supervisor:** MUHLESTEIN, RYAN	**MBU ID Emp #:** 453609	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BROWN, TRAVIS A	0.0	396848	CHASTAIN, DERICK Allan	0.0	455848	ENGBERG, KEVIN W	0.0	454218
MUHLESTEIN, RYAN Herrick	0.0	453609						

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*
10567589C	60 mile	10744549	60 mile	10783493	60 mile	10822007	60 mile
10995027	60 mile	11259884	60 mile	11808829	60 mile		

Job Hours

Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours
TOTAL			*Total is the sum of each column separately*					

Job

Formation Name					
Formation Depth (MD)	**Top**		**Bottom**		
Form Type		**BHST**			
Job depth MD	2284. ft	**Job Depth TVD**	2284. ft		
Water Depth		**Wk Ht Above Floor**	4. ft		
Perforation Depth (MD)	*From*		**To**		

Job Times

	Date	Time	Time Zone
Called Out	03 - Feb - 2012	01:00	MST
On Location	03 - Feb - 2012	05:30	MST
Job Started	03 - Feb - 2012	12:55	MST
Job Completed	03 - Feb - 2012	14:09	MST
Departed Loc	03 - Feb - 2012	15:30	MST

Well Data

Description	New / Used	Max pressure psig	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				.	2284.		
SURFACE CASING	Unknown		9.625	9.001	32.3		H-40	.	2272.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	EA		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					**Packer**					**Top Plug**			
Float Shoe					**Bridge Plug**					**Bottom Plug**			
Float Collar					**Retainer**					**SSR plug set**			
Insert Float										**Plug Container**			
Stage Tool										**Centralizers**			

Miscellaneous Materials

Gelling Agt		**Conc**		**Surfactant**		**Conc**		**Acid Type**		**Qty**		*Conc*	*%*
Treatment Fld		**Conc**		*Inhibitor*		**Conc**		**Sand Type**		*Size*		*Qty*	

HALLIBURTON

Cementing Job Summary

Fluid Data									
Stage/Plug #: 1									
Fluid #	**Stage Type**	**Fluid Name**	**Qty**	**Qty uom**	**Mixing Density lbm/gal**	**Yield ft3/sk**	**Mix Fluid Gal/sk**	**Rate bbl/min**	**Total Mix Fluid Gal/sk**
1	**Fresh Water**		**20.00**	**bbl**	**8.4**	**.0**	**.0**	**2.0**	
2	**VersaCem Lead**	**VERSACEM (TM) SYSTEM (452010)**	**370.0**	**sacks**	**12.3**	**2.73**	**13.71**	**8.0**	**13.71**
	13.71 Gal	FRESH WATER							
3	**VersaCem Tail**	**VERSACEM (TM) SYSTEM (452010)**	**160.0**	**sacks**	**12.8**	**2.11**	**11.72**	**8.0**	**11.72**
	11.72 Gal	FRESH WATER							
4	**Displacement Fluid**		**175.00**	**bbl**	**8.4**	**.0**	**.0**	**10.0**	

Calculated Values		Pressures		Volumes					
Displacement		**Shut In: Instant**		**Lost Returns**		*Cement Slurry*		**Pad**	
Top Of Cement		**5 Min**		**Cement Returns**		**Actual Displacement**		**Treatment**	
Frac Gradient		**15 Min**		**Spacers**		**Load and Breakdown**		**Total Job**	

Rates							
Circulating		*Mixing*		*Displacement*		**Avg. Job**	
Cement Left In Pipe	**Amount** ***44.3 ft***	*Reason*	***Shoe Joint***				
Frac Ring # 1 @	*ID*	*Frac ring # 2 @*	*ID*	*Frac Ring # 3 @*	*ID*	*Frac Ring # 4 @*	*ID*

The Information Stated Herein Is Correct	***Customer Representative Signature***

HALLIBURTON

Cementing Job Log

The Road to Excellence Starts with Safety

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Well Name: PA	**Well #:** 423-29		**API/UWI #:** 05-045-19538
Field: Parachute	**City (SAP):** PARACHUTE	**County/Parish:** Garfield	**State:** Colorado
Legal Description:			
Lat: N 39.49 deg. OR N 39 deg. 29 min. 23.582 secs.		**Long:** W 108.023 deg. OR W -109 deg. 58 min. 37.027 secs.	
Contractor: NABORS 577	**Rig/Platform Name/Num:** NAB 577		
Job Purpose: Cement Surface Casing			**Ticket Amount:**
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: MAYO, MARK	**Srvc Supervisor:** MUHLESTEIN, RYAN		**MBU ID Emp #:** 453609

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	02/03/2012 01:00							
Pre-Convoy Safety Meeting	02/03/2012 03:00							WITH ALL HES PERSONNEL SAFE DRIVING PRACTICES AND TRAVEL ROUTE REVIEWED
Arrive at Location from Service Center	02/03/2012 05:30							RIG PULLING DRILL PIPE
Assessment Of Location Safety Meeting	02/03/2012 07:30							WITH ALL HES PERSONNEL
Circulate Well	02/03/2012 10:50							CASING ON BOTTOM, RIG CIRCULATES USING HES SWAGE AND IRON, CIRC. 1.5 HRS, 11 BPM, 50 PSI. MUD REPORT 10.8 PPG PV 21, YP 14.
Pre-Rig Up Safety Meeting	02/03/2012 11:00							WITH ALL HES PERSONNEL
Rig-Up Equipment	02/03/2012 11:30							1 ELITE HT 400 PUMP, 2 660 BULK TRUCKS, 1 F-450 PICK-UP, 1 PLUG CONTAINER, 2" IRON TO STAND PIPE
Pre-Job Safety Meeting	02/03/2012 12:30							WITH ALL HES PERSONNEL, RIG CREW AND CO REP
Start Job	02/03/2012 12:55							TD 2284', TP 2272', FC 2227.3', SJ 44.3', OH 13.5", SURFACE CASING 9.625" 32.3# H-40.
Pump Water	02/03/2012 12:56		2	2			51.0	FRESH H20, TO PRIME LINES

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Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Test Lines	02/03/2012 12:58							HELD 2600 PSI MIN NO LEAKS
Pump Spacer 1	02/03/2012 13:02		2	20			110.0	FRESH H20
Pump Lead Cement	02/03/2012 13:11		8	156.8			310.0	370 SKS 12.3 PPG 2.38 FT3/SK 13.75 GAL/SK WEIGHED VERIFIED VIA MUD SCALES WET AND DRY SAMPLES SUBMITTED
Pump Tail Cement	02/03/2012 13:32		8	60.1			325.0	160 SKS 12.8 PPG 2.11 FT3/SK 11.75 GAL/SK WEIGHED VERIFIED VIA MUD SCALES WET AND DRY SAMPLES SUBMITTED
Shutdown	02/03/2012 13:40							WASH UP ON TOP OF PLUG
Drop Top Plug	02/03/2012 13:43							VERIFY PLUG LAUNCHED
Pump Displacement	02/03/2012 13:44		10	175.3			780.0	CMT RETURNS 140 BBLS INTO DIS, 35 BBLS TO SURFACE
Slow Rate	02/03/2012 14:02		2	165			490.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	02/03/2012 14:06		2	175.3			1080.0	BUMP PLUG HOLD 2 MINS
Check Floats	02/03/2012 14:08							FLOATS HOLDING, GOOD RETURNS THROUGHOUT JOB
End Job	02/03/2012 14:09							NO ADD HOURS OR DERRICK CHARGE. 80 LBS SUGAR USED
Pre-Rig Down Safety Meeting	02/03/2012 14:15							WITH ALL HES PERSONNEL
Rig-Down Equipment	02/03/2012 14:30							AREA FREE FROM DEBRIS
Pre-Convoy Safety Meeting	02/03/2012 15:25							WITH ALL HES PERSONNEL
Crew Leave Location	02/03/2012 15:30							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. RYAN MUHLESTEIN AND CREW

HALLIBURTON

Water Analysis Report

Company:	WILLIAMS	**Date:**	2/3/2012
Submitted by:	RYAN MUHLESTEIN	**Date Rec.:**	2/3/2012
Attention:	J. Trout	**S.O.#**	9198149
Lease	PA	**Job Type:**	SURFACE
Well #	432-29		

Specific Gravity	*MAX*	1	
pH	*8*	7	
Potassium (K)	*5000*	200	Mg / L
Calcium (Ca)	*500*	250	Mg / L
Iron (FE2)	*300*	0	Mg / L
Chlorides (Cl)	*3000*	0	Mg / L
Sulfates (SO_4)	*1500*	below 200	Mg / L
Chlorine (Cl_2)		0	Mg / L
Temp	*40-80*	45	Deg
Total Dissolved Solids		370	Mg / L

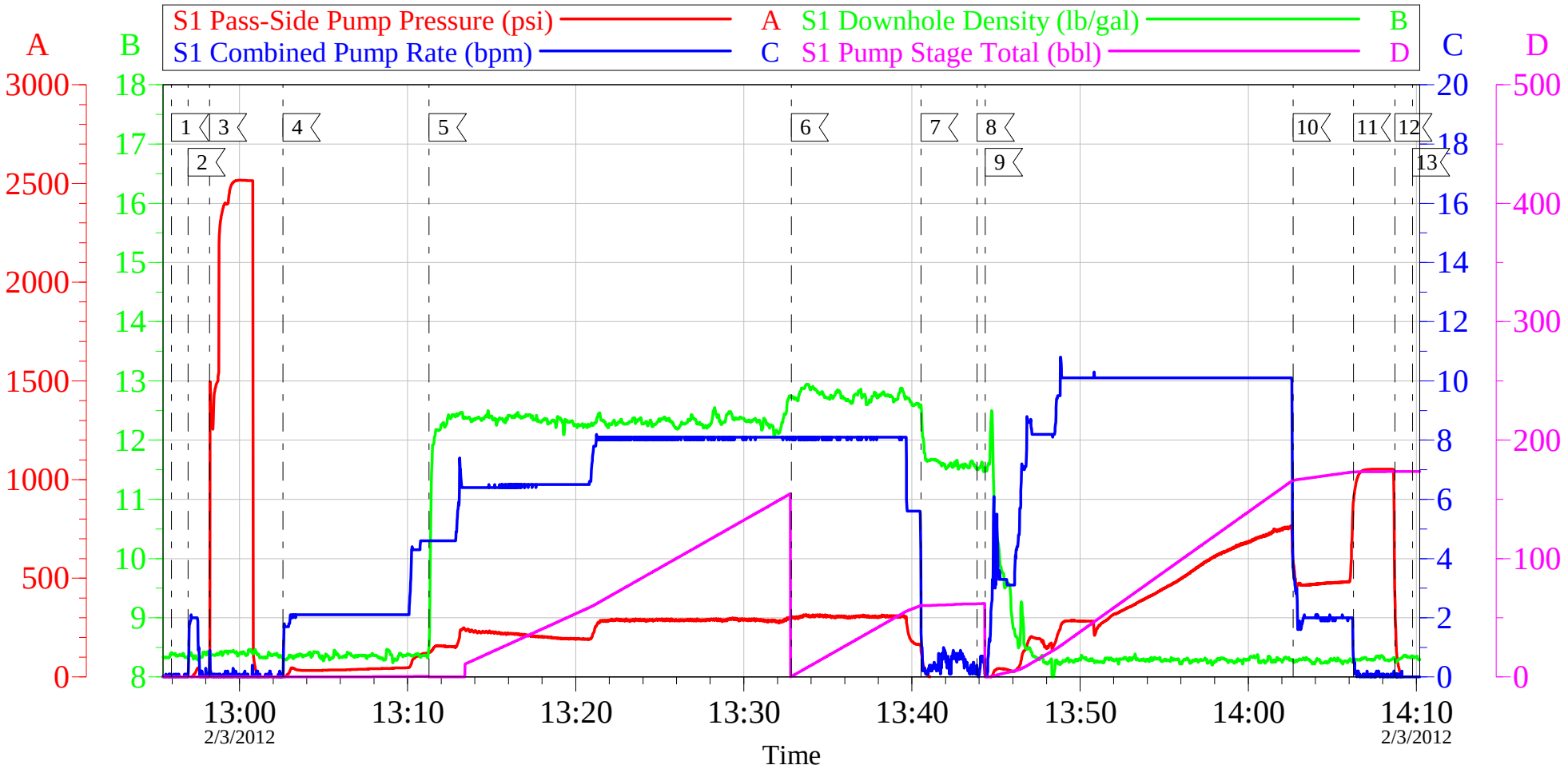
Respectfully: RYAN MUHLESTEIN

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

WXP ENERGY ROCKY MTN - PA 423-29

SURFACE



Local Event Log

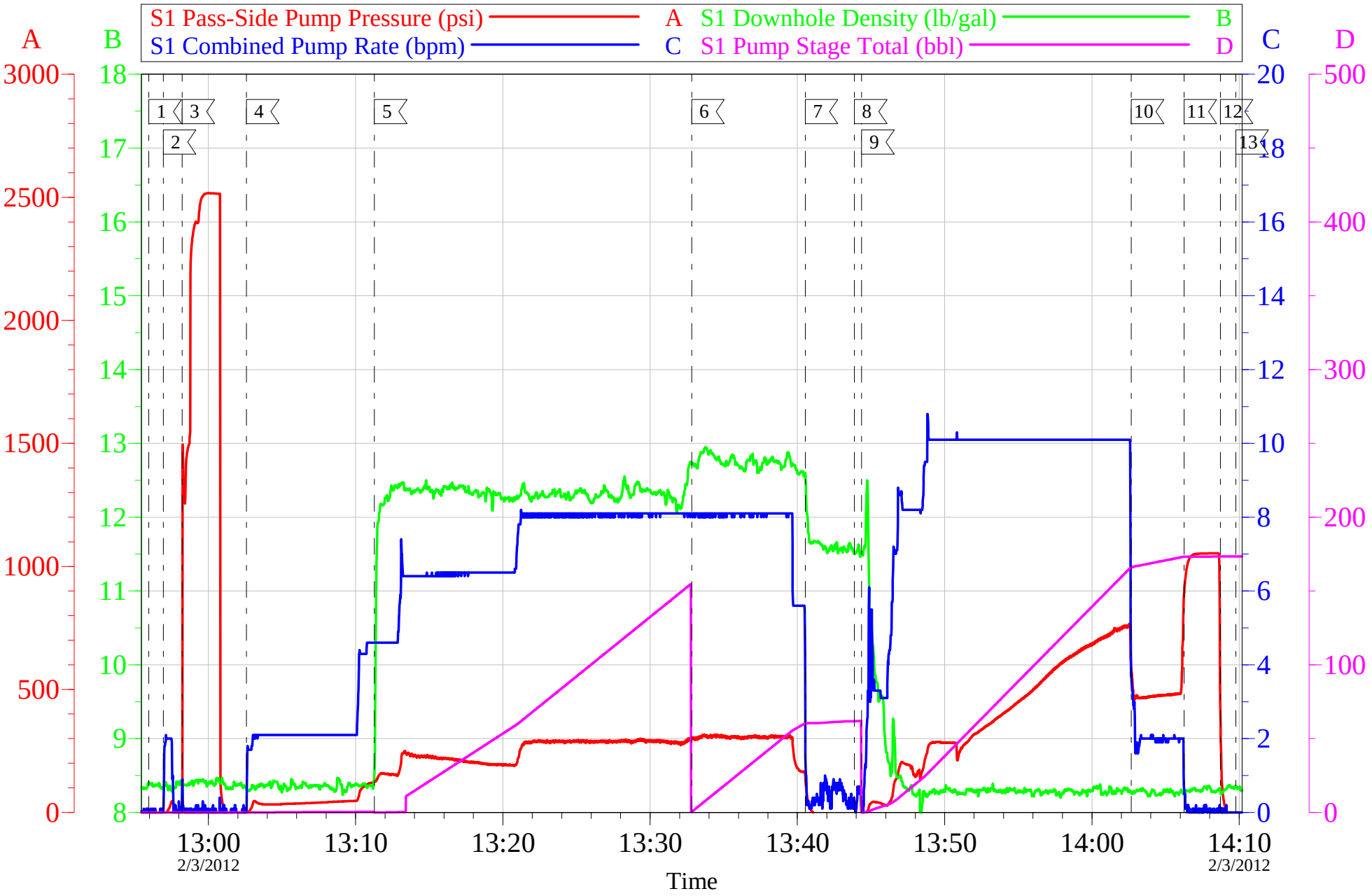
1	START JOB	12:55:58	2	PRIME LINES	12:56:56	3	PRESSURE TEST	12:58:13
4	PUMP H2O SPACER	13:02:36	5	PUMP LEAD CMT	13:11:17	6	PUMP TAIL CMT	13:32:49
7	SHUT DOWN	13:40:32	8	DROP PLUG	13:43:52	9	PUMP DISPLACEMENT	13:44:22
10	SLOW RATE	14:02:41	11	BUMP PLUG	14:06:15	12	CHECK FLOATS	14:08:44
13	END JOB	14:09:46						

Customer:	WXP ENERGY ROCKY MTN	Job Date:	03-Feb-2012	Sales Order #:	9198149
Well Description:	PA 423-29	Job Type:	SURFACE	ADC Used:	YES
Company Rep:	JEREMY HARRISON	Cement Supervisor:	RYAN MUHLESTEIN	Elite : 3	DERICK CHASTAIN

OptiCem v6.4.10
03-Feb-12 19:42

WXP ENERGY ROCKY MTN - PA 423-29

SURFACE



Customer:	WXP ENERGY ROCKY MTN	Job Date:	03-Feb-2012	Sales Order #:	9198149
Well Description:	PA 423-29	Job Type:	SURFACE	ADC Used:	YES
Company Rep:	JEREMY HARRISON	Cement Supervisor:	RYAN MUHLESTEIN	Elite : 3	DERICK CHASTAIN

OptiCem v6.4.10
03-Feb-12 19:43

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
9198149	10	2/3/2012
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
JEREMY HARRISON		05-045-19538
Well Name:		**Well Number:**
PA		423-29
Well Type:	**Well Country:**	
Development Well	United States of America	
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**	**2/3/2012**
Survey Interviewer	**The survey interviewer is the person who initiated the survey.**	**RYAN MUHLESTEIN (HB21105)**
Customer Participation	**Did the customer partipcipate in this survey? (Y/N)**	**Yes**
Customer Representative	**Enter the Customer representative name**	**JEREMY HARRISON**
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

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
9198149	10	2/3/2012
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
JEREMY HARRISON		05-045-19538
Well Name:		**Well Number:**
PA		423-29
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
No	Colorado	Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	2/3/2012

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
Operating Hours (Pumping Hours) Total number of hours pumping fluid on this job. Enter in decimal format.	1.25
Customer Non-Productive Rig Time (hrs) 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.	0
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	6
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Was this a Primary Cement Job (Yes / No)	Yes

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
9198149	10	2/3/2012
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
JEREMY HARRISON		05-045-19538
Well Name:		**Well Number:**
PA		423-29
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
No	Colorado	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 cment 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	98
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