HALLIBURTON

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RGU 313-23-198
RYAN GULCH
Rio Blanco County , Colorado

Cement Multiple Stages

05-06-Apr-2013

Post Job Report

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 2990862	**Quote #:**	**Sales Order #:** 900342363
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		**Customer Rep:** Brunk, Andrew	
Well Name: RGU	**Well #:** 313-23-198		**API/UWI #:**
Field:	**City (SAP):** UNKNOWN	**County/Parish:** Rio Blanco	**State:** Colorado
Contractor: CYCLONE 29	**Rig/Platform Name/Num:** CYCLONE 29		
Job Purpose: Cement Multiple Stages			
Well Type: Development Well	**Job Type:** Cement Multiple Stages		
Sales Person: MAYO, MARK	**Srvc Supervisor:** CASTILLO, FRANCISCO	**MBU ID Emp #:** 513620	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CASTILLO, FRANCISCO P	9	513620	CASTILLO, FRANCISCO P	9	513620	PONDER, THOMAS Lynn	9	427112
WILSON, BENJAMIN Wallace	9	533647	ZUMWALT, ORVILLE Raymond	9	398157			

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*
10616651C	30 mile	10722398	30 mile	10784080	30 mile	11139330	30 mile
11259881	30 mile	11360883	30 mile	11808827	30 mile		

Job Hours

Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours
4/5/13	5.5	0.5	4/6/13	8.5	3.5			
TOTAL				*Total is the sum of each column separately*				

Job

Formation Name			
Formation Depth (MD)	**Top**	**Bottom**	**3885**
Form Type		**BHST**	
Job depth MD	3885. ft	**Job Depth TVD**	3885. ft
Water Depth		**Wk Ht Above Floor**	3. ft
Perforation Depth (MD)	*From*	**To**	

Job Times

	Date	Time	Time Zone
Called Out	05 – Apr - 2013	11:00	MST
On Location	05 - Apr - 2013	18:30	MST
Job Started	05 - Apr - 2013	23:23	MST
Job Completed	06 - Apr - 2013	03;15	MST
Departed Loc	06 - Apr - 2013	05:30	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				13.5				1700.	3855.		
OPEN HOLE				14.75				.	1700.		
SURFACE CASING	New		9.625	8.921	36.		I-80	.	3855.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe	9.625	1	WTF	3879.90	**Packer**					**Top Plug**	9.625	1	WTF
Float Shoe					**Bridge Plug**					**Bottom Plug**			
Float Collar	9.625	1	WTF	3851.83	**Retainer**					**SSR plug set**			
Insert Float										**Plug Container**	9.625	1	WTF
Stage Tool	9.625	1	WTF	1793.36						**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/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

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Cementing Job Summary

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 Spacer		40.00	bbl	8.33	.0	.0	4	
2	1st Stage Lead Cement	VERSACEM (TM) SYSTEM (452010)	685.0	sacks	12.8	1.77	9.34	6	9.34
	9.34 Gal	FRESH WATER							
3	1st Stage Tail Cement	VERSACEM (TM) SYSTEM (452010)	265.0	sacks	12.8	1.96	10.95	6	10.95
	10.95 Gal	FRESH WATER							
4	Displacement		298.00	bbl	8.33	.0	.0	8	
5	Fresh Water Spacer		20.00	bbl	8.33	.0	.0	3	
6	2ND STAGE TAIL	VERSACEM (TM) SYSTEM (452010)	810.0	sacks	12.8	1.96	10.95	8	10.95
	10.95 Gal	FRESH WATER							
7	Displacement		138.00	bbl	8.33	.0	.0	8	
8									
	4.98 Gal	FRESH WATER							

Calculated Values		Pressures		Volumes					
Displacement	298	**Shut In: Instant**		**Lost Returns**	PARTIAL	*Cement Slurry*	308	**Pad**	
Top Of Cement	SURFACE	**5 Min**		**Cement Returns**	5	**Actual Displacement**	298	**Treatment**	
Frac Gradient		**15 Min**		**Spacers**	40	**Load and Breakdown**		**Total Job**	**993**

Rates							
Circulating	*RIG*	*Mixing*	6	*Displacement*	8	**Avg. Job**	7

Cement Left In Pipe	**Amount**	***28.07 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***

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Cementing Job Log

The Road to Excellence Starts with Safety

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Well Name: RGU	**Well #:** 313-23-198		**API/UWI #:**
Field:	**City (SAP):** UNKNOWN	**County/Parish:** Rio Blanco	**State:** Colorado
Legal Description:			
Lat:		**Long:**	
Contractor: CYCLONE 29	**Rig/Platform Name/Num:** CYCLONE 29		
Job Purpose: Cement Multiple Stages			**Ticket Amount:**
Well Type: Development Well	**Job Type:** Cement Multiple Stages		
Sales Person: MAYO, MARK	**Srvc Supervisor:** CASTILLO, FRANCISCO		**MBU ID Emp #:** 513620

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl Stage	Volume bbl Total	Pressure psig Tubing	Pressure psig Casing	Comments
Pre-Convoy Safety Meeting	04/05/2013 13:50							ALL HES PERSONEL
Crew Leave Yard	04/05/2013 14:00							
Arrive At Loc	04/05/2013 18:30							DRILLING RIG WAS GETTING READY TO RUN CASING
Assessment Of Location Safety Meeting	04/05/2013 18:45							ALL HES PERSONEL
Rig-Up Equipment	04/05/2013 19:30							
Rig-Up Completed	04/05/2013 23:00							
Pre-Job Safety Meeting	04/05/2013 23:15							ALL HES PERSONEL AND RIG CREW
Start Job	04/05/2013 23:23							TP- 3879.90', TD- 3885, SJ- 28.07, CSG- 9.625 36# J-55, OH- 14.75" TO 1750', 13.5" TO 3885', 18" CONDUCTOR AT 80', MUD-9.4 PPG
Other	04/05/2013 23:25		2	2			80.0	FILL LINES
Other	04/05/2013 23:28		0.2	0.2				STALL OUT/PRESSURE HELD AT 1688 PSI
Pressure Test	04/05/2013 23:29		0.2	0.2				ALL LINES HELD PRESSURE AT 3555 PSI
Pump Spacer 1	04/05/2013 23:34		4	40			210.0	FRESH WATER
Activity Description	**Date/Time**	**Cht #**	**Rate bbl/min**	**Volume bbl Stage**	**Volume bbl Total**	**Pressure psig Tubing**	**Pressure psig Casing**	**Comments**

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Cementing Job Log

Pump Lead Cement	04/05/2013 23:44		6	216			328.0	685 SKS, 12.8 PPG, 1.77 FT3/.SK, 9.38 GAL/SK PLUG TUFF FIBER ON THE FIRST 100 BBLS
Pump Tail Cement	04/06/2013 00:20		6	92			317.0	265 SKS, 12.8 PPG, 1.96 FT3/ SK, 10.95 GAL/SK
Shutdown	04/06/2013 00:33							
Drop Plug	04/06/2013 00:39							PLUG DROP VERIFIED BY CUSTOMER AND DRILLER
Pump Displacement	04/06/2013 00:40		7	288			378.0	FRESH WATER, HAD PARTIAL RETURNS THOUGH OUT DISPLACEMENTS. LOST RETURNS AT 150 BBLS INTO DISPLACEMENT GOING 7 BPM AND SLOWED TO 5 BPM, GOT RETURNS BACK AT 180 BBLS. LOST THEM AGAIN AT 270 BBLS AND DID'NT GET THEM BACK ON DISPLACEMENT.
Pump Spacer	04/06/2013 01:05		4	20			114.0	BEGINS SECOND STAGE CEMENT JOB.
Slow Rate	04/06/2013 01:20		2	10			500.0	PUMP HAD TROUBLE PULLING WATER FROM WATER TANK FOR THE FIRST HALF OF DISPLACEMENT
Bump Plug	04/06/2013 01:32							THE WELL LOST ABOUT 75 BBLS OF FLUID THROUGHOUT DISPLACEMENT
Check Floats	04/06/2013 01:36							FLOATS HELD
Drop Opening Device For Multiple Stage Cementer	04/06/2013 01:39							
Open Multiple Stage Cementer	04/06/2013 01:52		0.9	1			567.0	
Circulate Well	04/06/2013 01:53		4	15			170.0	GOT RETURNS BACK WITH 10 BBLS OF WATER GONE
Pump Cement	04/06/2013 02:02		8	283			263.0	810 SKS, 12.8 PPG, 1.96 FT3/SK, 10.95 GAL/SK WITH LAST 100 BBLS WITH TUFF FIBER

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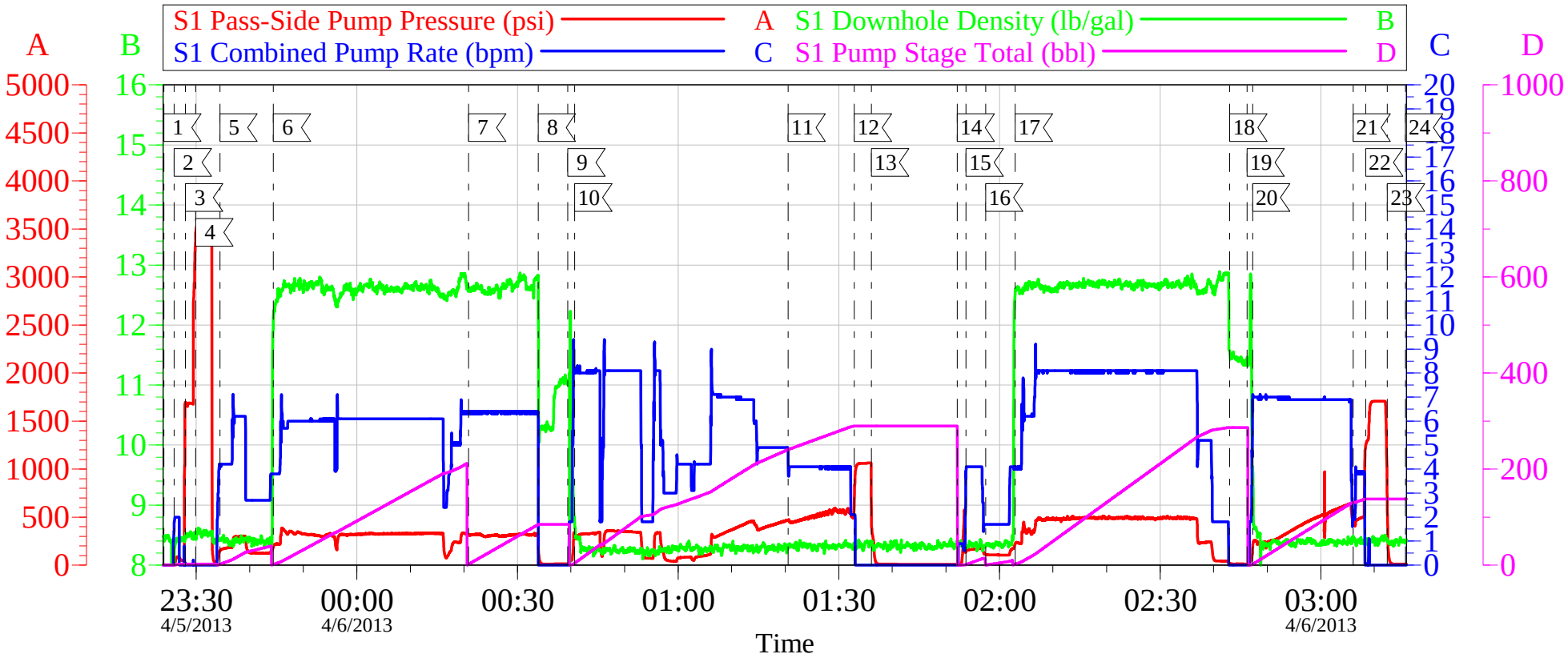
Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	04/06/2013 02:43							
Drop Plug	04/06/2013 02:46							VERIFIED BY CUSTOMER AND DRILLER
Pump Displacement	04/06/2013 02:47		8	125			510.0	LOST RETURNS AT 125 BBLS INTO DISPLACEMENT AND NEVER GOT IT BACK.
Slow Rate	04/06/2013 03:06		4	13			500.0	CIRCULATED 5 BBLS OF CEMENT TO SURFACE BEFORE WE LOST CIRCULATION.
Close Multiple Stage Cementer	04/06/2013 03:08		4	138			1707.0	
Release Casing Pressure	04/06/2013 03:12							DV TOOL CLOSED
End Job	04/06/2013 03:15							
Post-Job Safety Meeting (Pre Rig-Down)	04/06/2013 03:20							
Depart from Service Center or Other Site	04/06/2013 05:30							
Other	04/06/2013 05:31							THANK YOU FOR YOUR BUSINESS FROM JAVIER CASTILLO AND CREW

WPX RGU 313-23-198

2 STG SURFACE



Local Event Log

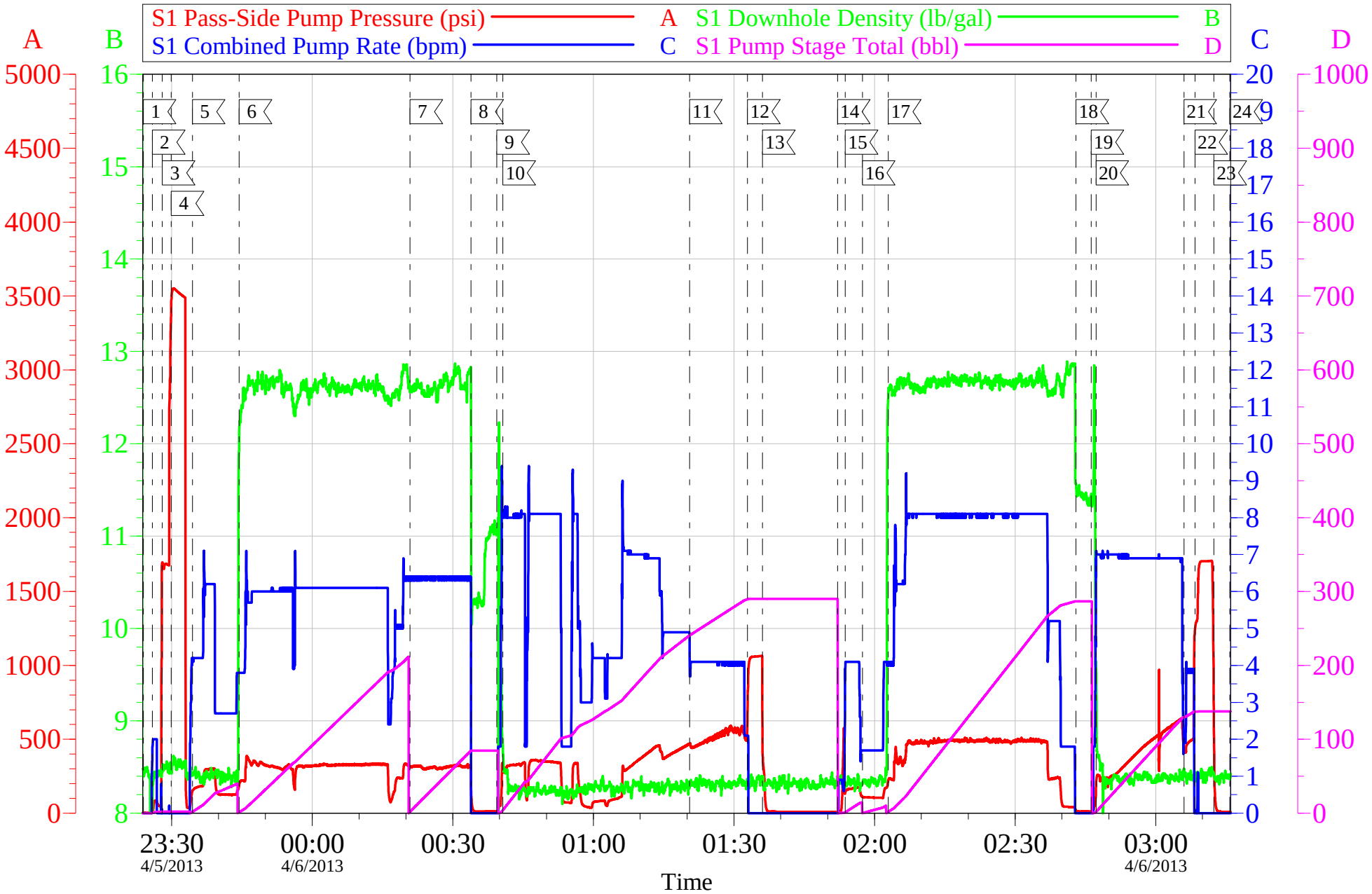
1	START JOB	4/5/2013 23:23:59	2	FILL LINES	4/5/2013 23:25:54	3	STALL OUT	4/5/2013 23:28:01
4	TEST LINES	4/5/2013 23:29:56	5	WATER SPACER	4/5/2013 23:34:26	6	LEAD SLURRY	4/5/2013 23:44:27
7	TAIL SLURRY	4/6/2013 00:20:52	8	SHUTDOWN	4/6/2013 00:33:52	9	DROP PLUG	4/6/2013 00:39:25
10	DISPLACEMENT	4/6/2013 00:40:42	11	SLOW RATE	4/6/2013 01:20:33	12	BUMP PLUG	4/6/2013 01:32:55
13	CHECK FLOATS	4/6/2013 01:36:06	14	OPEN DV TOOL	4/6/2013 01:52:06	15	CIRCULATE WELL	4/6/2013 01:53:47
16	WATER SPACER	4/6/2013 01:57:24	17	CEMENT SLURRY	4/6/2013 02:02:57	18	SHUTDOWN	4/6/2013 02:43:00
19	DROP PLUG	4/6/2013 02:46:14	20	DISPLACEMENT	4/6/2013 02:47:16	21	SLOW RATE	4/6/2013 03:06:01
22	CLOSE DV TOOL	4/6/2013 03:08:23	23	CHECK DV TOOL	4/6/2013 03:12:26	24	END JOB	4/6/2013 03:15:50

Customer:	WPX	Job Date:	05-Apr-2013	Sales Order #:	900342363
Well Description:	RGU 313-23-198	Job Type:	SURFACE	ADC Used:	YES
Company Rep:	TED RAGSDALE	Cement Supervisor:	JAVIER CASTILLO	Elite #4:	THOMAS PONDER

OptiCem v6.4.10
06-Apr-13 03:57

WPX RGU 313-23-198

2 STG SURFACE



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Company Rep:	TED RAGSDALE	Cement Supervisor:	JAVIER CASTILLO	Elite #4:	THOMAS PONDER

OptiCem v6.4.10
06-Apr-13 03:57

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Water Analysis Report

Company:	WPX	**Date:**	4/5/2013
Submitted by:	JAVIER CASTILLO	**Date Rec.:**	4/5/2013
Attention:	J.Trout	**S.O.#**	900342363
Lease	RGU	**Job Type:**	2 STG SURFACE
Well #	313-23-198		

Specific Gravity	*MAX*	1	
pH	*8*	8	
Potassium (K)	*5000*	200	Mg / L
Calcium (Ca)	*500*	120	Mg / L
Iron (FE2)	*300*	0	Mg / L
Chlorides (Cl)	*3000*	0	Mg / L
Sulfates (SO_4)	*1500*	200	Mg / L
Chlorine (Cl_2)		0	Mg / L
Temp	*40-80*	72	Deg
Total Dissolved Solids		240	Mg / L

Respectfully: JAVIER CASTILLO

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 it

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CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
900342363	10	4/6/2013
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT MULTIPLE STAGES BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
TED RAGSDALE		AFEYKAPDJGK30HDPAAA
Well Name:		**Well Number:**
RGU		313-23-198
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	Rio Blanco

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**	**4/6/2013**
Survey Interviewer	**The survey interviewer is the person who initiated the survey.**	**FRANCISCO CASTILLO (HB85312)**
Customer Participation	**Did the customer partipcipate in this survey? (Y/N)**	**Yes**
Customer Representative	**Enter the Customer representative name**	**TED RAGSDALE**
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**	**GREAT JOB THANKS**

CUSTOMER SIGNATURE

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
900342363	10	4/6/2013
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WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT MULTIPLE STAGES BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
TED RAGSDALE		AFEYKAPDJGK30HDPAAA
Well Name:		**Well Number:**
RGU		313-23-198
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	Rio Blanco

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	4/6/2013

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.	9
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.	4
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	5
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

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TED RAGSDALE		AFEYKAPDJGK30HDPAAA
Well Name:		**Well Number:**
RGU		313-23-198
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	Rio Blanco

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?	Both
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	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