HALLIBURTON

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

SG 311-23
GRAND VALLEY
Garfield County , Colorado

Cement Surface Casing

19-Feb-2012

Post Job Summary

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 2904875	**Quote #:**	**Sales Order #:** 9260907
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		**Customer Rep:** Towers, Ron	
Well Name: SG	**Well #:** 311-23		**API/UWI #:**
Field: GRAND VALLEY	**City (SAP):** PARACHUTE	**County/Parish:** Garfield	**State:** Colorado
Lat: N 39.427 deg. OR N 39 deg. 25 min. 37.97 secs.		**Long:** W 108.082 deg. OR W -109 deg. 55 min. 5.887 secs.	
Contractor: H&P 271	**Rig/Platform Name/Num:** H&P 271		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: SCOTT, KYLE	**Srvc Supervisor:** NICKLE, RYON	**MBU ID Emp #:** 454759	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DEUSSEN, EDWARD Eric	9	485182	NICKLE, RYON	9	454759	WADE, LOGAN D	9	488896

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*
10616651C	60 mile	10867423	60 mile	10897887	60 mile	10951250	60 mile
11808827	60 mile						

Job Hours

Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours
2/18/2012	2	0	2/19/2012	7	4			
TOTAL	**9,4**			*Total is the sum of each column separately*				

Job

Formation Name					
Formation Depth (MD)	**Top** 0	**Bottom**	**1150**		
Form Type		**BHST**			
Job depth MD	1150. ft	**Job Depth TVD**	1150. ft		
Water Depth		**Wk Ht Above Floor**	4. ft		
Perforation Depth (MD)	*From*	**To**			

Job Times

	Date	Time	Time Zone
Called Out	18 - Feb - 2012	20:00	MST
On Location	18 - Feb - 2012	11:00	MST
Job Started	19 - Feb - 2012	05:30	MST
Job Completed	19 - Feb - 2012	06:23	MST
Departed Loc	19 - Feb - 2012	08:00	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				.	1150.	.	1150.
SURFACE CASING	Unknown		9.625	9.001	32.3		H-40	.	1136.	.	1136.

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**	9.625	1	HES
Float Shoe					**Bridge Plug**					**Bottom Plug**			
Float Collar					**Retainer**					**SSR plug set**			
Insert Float										**Plug Container**	9.625	1	HES
Stage Tool										**Centralizers**	9.625	6	

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

HALLIBURTON

Cementing Job Summary

1	Fresh Water		20.00	bbl	8.33	.0	.0	4	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.3	2.38	13.75	8	13.75
	13.75 Gal	FRESH WATER							
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	8	11.75
	11.75 Gal	FRESH WATER							
4	Displacement		85.00	bbl	8.34	.0	.0	10	

Calculated Values		Pressures		Volumes					
Displacement	85.9	Shut In: Instant		Lost Returns		Cement Slurry	127.94	Pad	
Top Of Cement		5 Min		Cement Returns	27	Actual Displacement	85.9	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	233.84

Rates							
Circulating	RIG	Mixing	8	Displacement	10	Avg. Job	9

Cement Left In Pipe	Amount	44 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: SG	**Well #:** 311-23		**API/UWI #:**
Field: GRAND VALLEY	**City (SAP):** PARACHUTE	**County/Parish:** Garfield	**State:** Colorado
Legal Description:			
Lat: N 39.427 deg. OR N 39 deg. 25 min. 37.97 secs.		**Long:** W 108.082 deg. OR W -109 deg. 55 min. 5.887 secs.	
Contractor: H&P 271	**Rig/Platform Name/Num:** H&P 271		
Job Purpose: Cement Surface Casing			**Ticket Amount:**
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: SCOTT, KYLE	**Srvc Supervisor:** NICKLE, RYON		**MBU ID Emp #:** 454759

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	02/18/2012 08:00							HES CEMENT CREW
Pre-Convoy Safety Meeting	02/18/2012 09:50							ALL HES CEMENT CREW
Crew Leave Yard	02/18/2012 10:00							
Arrive At Loc	02/18/2012 11:00							RIG PULLING DRILL PIPE, CASING CREW STARTING RIG UP. PARKED ELITE AND 660 IN CASING STORAGE LOCATION TO KEEP DRIVE PATH ON BACKSIDE OF RIG CLEAR
Assessment Of Location Safety Meeting	02/19/2012 03:30							ALL HES CEMENT CREW
Other	02/19/2012 03:40							SPOT EQUIPMENT; 1 CEMENTERS F 450, 1 ELITE PUMPING UNIT, 1 660 BULK TRANSPORT
Pre-Rig Up Safety Meeting	02/19/2012 03:50							ALL HES CEMENT CREW
Pre-Job Safety Meeting	02/19/2012 05:15							ALL HES CEMENT CREW, RIG CREW, COMPANY REP, AVAILABLE 3RD PARTY EE'S
Activity Description	**Date/Time**	**Cht #**	**Rate bbl/ min**	**Volume bbl**		**Pressure psig**		**Comments**
				Stage	**Total**	**Tubing**	**Casing**	

HALLIBURTON

Cementing Job Log

Start Job	02/19/2012 05:30							TD- 1150' TP- 11135.96' SHOE- 44' OH- 13.5" SURFACE CASING- 9.625" 32.3#/FT H-40 CENTRALIZERS- 6 + 2 TURBULIZERS MUD- 10.35 PPG YP- 20 PV- 39
Other	02/19/2012 05:31		2	2			73.0	FILL LINES, FRESH WATER
Pressure Test	02/19/2012 05:34							STALL OUT @ 1470 PSI, HELD FOR 30 SEC. PRESSURE UP TO 3333 PSI HELD FOR 2 MIN, PRESSURE DROP TO 3296 PSI
Pump Spacer 1	02/19/2012 05:39		4	20			148.0	FRESH WATER
Pump Lead Cement	02/19/2012 05:49		8	67.82			430.0	160 SKS; 12.3 PPG, 2.38 FT3/SK, 13.75 GAL/SK
Pump Tail Cement	02/19/2012 05:58		8	60.12			394.0	160 SKS; 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK
Shutdown	02/19/2012 06:06							WASH UP ON TOP OF PLUG PER CO REP
Drop Top Plug	02/19/2012 06:08							CO REP VERIFIED PLUG LAUNCHED
Pump Displacement	02/19/2012 06:08		10	75.9			668.0	FRESH WATER
Slow Rate	02/19/2012 06:16		2	10			286.0	
Bump Plug	02/19/2012 06:19						762.0	
Check Floats	02/19/2012 06:22							FLOATS HAD SMALL AMOUNT OF FLOW AFTER BEING BUMPED, PER CO REP LEAVE PLUG CONTAINER AND CEMENT 2" VAVLVE ON CASING, RETURNED 1/2 BBLS H20
End Job	02/19/2012 06:23							PIPE WAS NOT MOVED, GOOD RETURNS THROUGHOUT, 27 BBLS CEMENT TO SURFACE

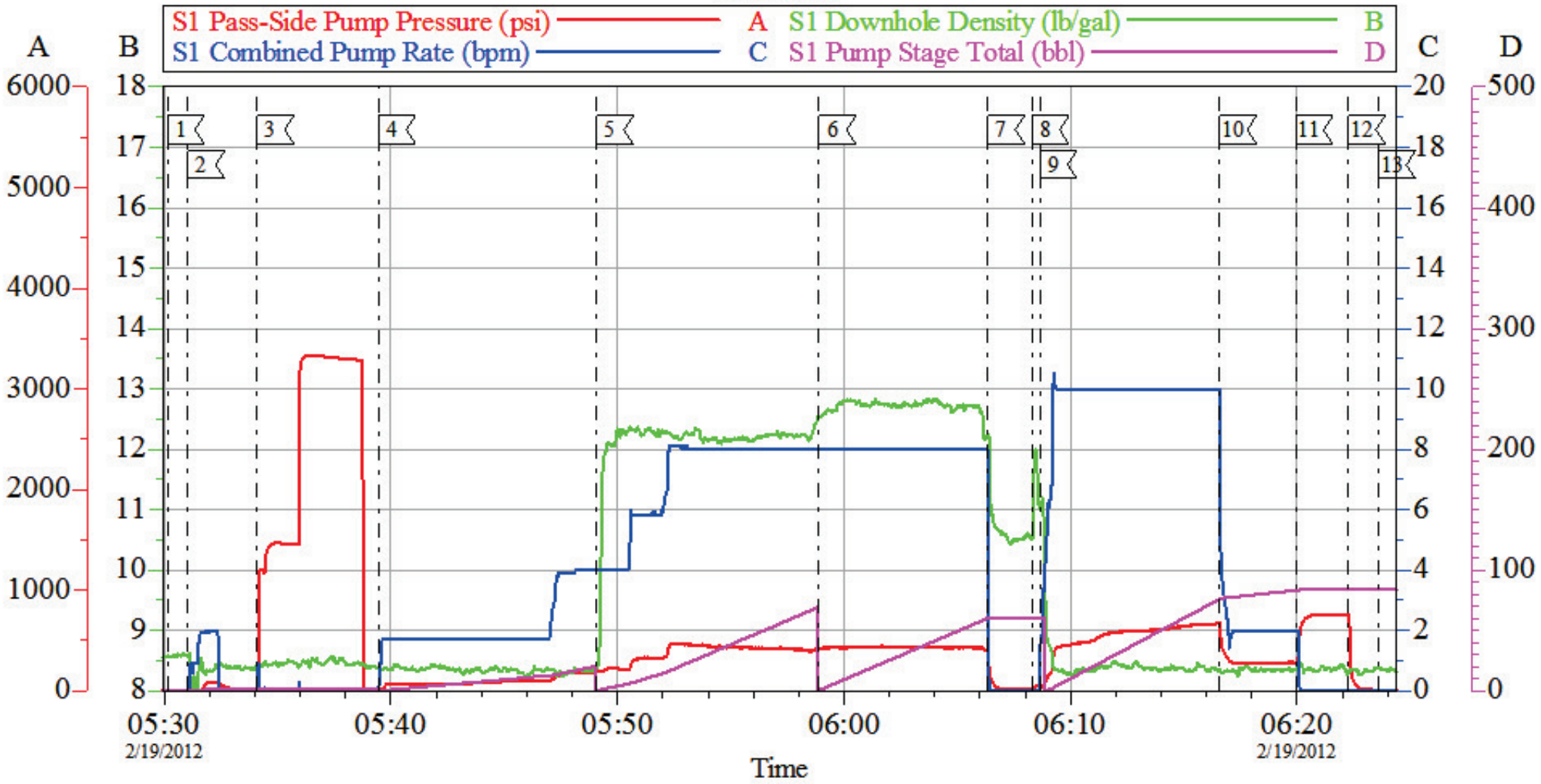
HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Post-Job Safety Meeting (Pre Rig-Down)	02/19/2012 06:25							ALL HES CEMENT CREW
Pre-Convoy Safety Meeting	02/19/2012 07:45							ALL HES CEMENT CREW
Crew Leave Location	02/19/2012 08:00							THANK YOU FOR USING HALLIBURTON CEMENTING, RYON NICKLE AND CREW

WILLIAMS - SG 311-23

SURFACE



Local Event Log

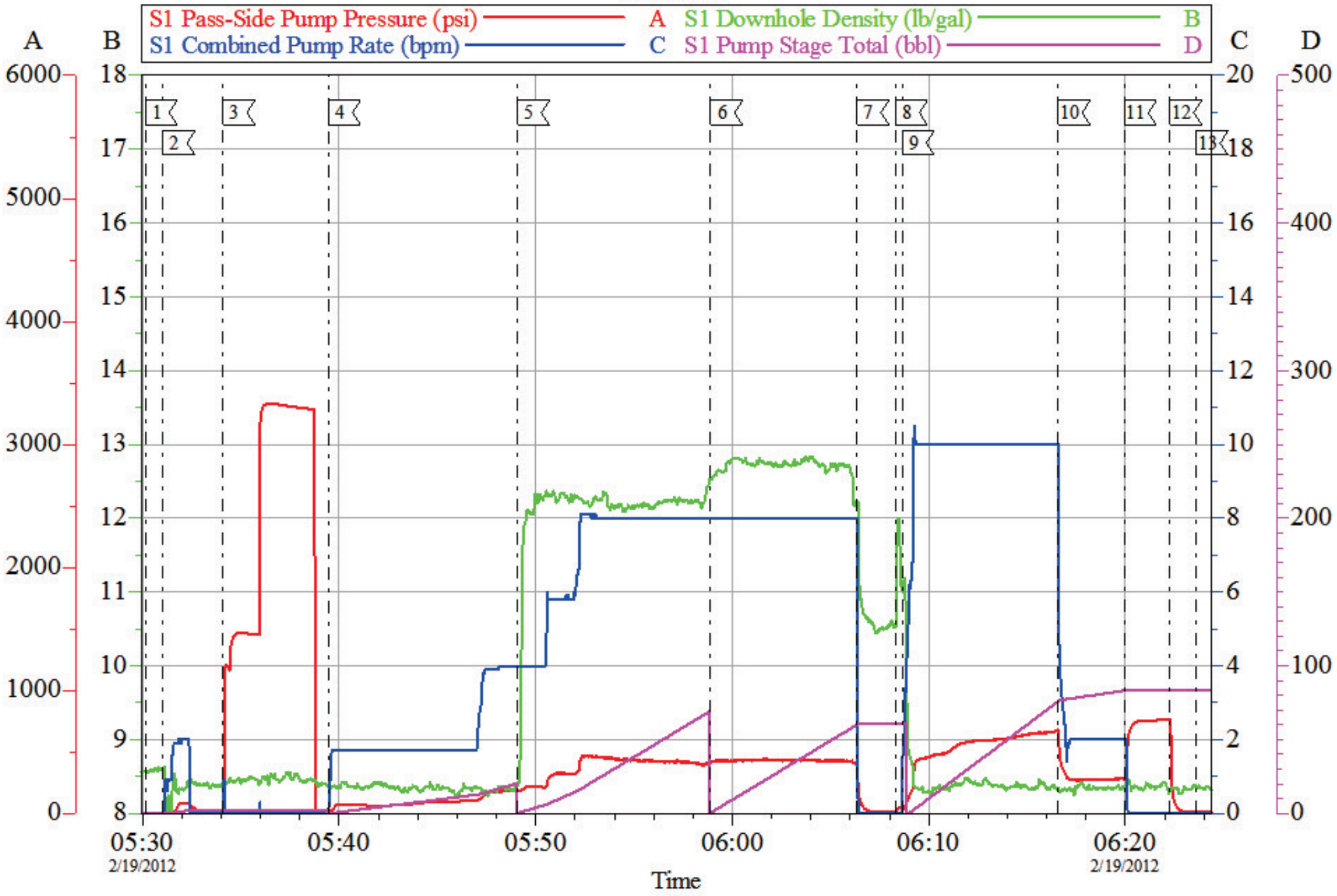
1	START JOB	05:30:08	2	FILL LINES	05:31:03	3	PRESSURE TEST	05:34:06
4	PUMP H2O SPACER	05:39:28	5	PUMP LEAD CEMENT	05:49:05	6	PUMP TAIL CEMENT	05:58:54
7	SHUTDOWN	06:06:20	8	DROP TOP PLUG	06:08:18	9	PUMP DISPLACEMENT	06:08:39
10	SLOW RATE	06:16:35	11	BUMP PLUG	06:19:57	12	CHECK FLOATS	06:22:16
13	END JOB	06:23:36						

Customer:	WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Job Date:	19-Feb-2012	Sales Order #:	9260907
Well Description:	SG 311-23	Job Type:	SURFACE	ADC Used:	YES
Company Rep:	RON TOWERS	Cement Supervisor:	RYON NICKLE	Elite # / Operator:	E4 / ED DUESSEN

OptiCem v6.4.10
19-Feb-12 06:55

WILLIAMS - SG 311-23

SURFACE



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Company Rep:	RON TOWERS	Cement Supervisor:	RYON NICKLE	Elite # / Operator:	E4 / ED DUESSEN

OptiCem v6.4.10
19-Feb-12 06:55

HALLIBURTON

Water Analysis Report

Company:	WILLIAMS	**Date:**	2/18/2012
Submitted by:	RYON NICKLE	**Date Rec.:**	2/18/2012
Attention:	LAB	**S.O.#**	9260907
Lease	H&P 271	**Job Type:**	SURFACE
Well #	SG 311-23		

Specific Gravity	*MAX*	1	
pH	*8*	7	
Potassium (K)	*5000*	0	Mg / L
Hrdness	*500*	480	Mg / L
Iron (FE2)	*300*	0	Mg / L
Chlorides (Cl)	*3000*	500	Mg / L
Sulfates (SO_4)	*1500*	<200	Mg / L
Temp	*40-80*	36	Deg
Total Dissolved Solids		860	Mg / L

Respectfully: RYON NICKLE

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

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CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
9260907	10	2/19/2012
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
RON TOWERS		AFEY0G1UZ4JASJQMAAA
Well Name:		**Well Number:**
SG		311-23
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	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	2/19/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	RYON NICKLE (HB22175)
Customer Participation	Did the customer partipcipate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	RON TOWERS
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:**
9260907	10	2/19/2012
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
RON TOWERS		AFEY0G1UZ4JASJQMAAA
Well Name:		**Well Number:**
SG		311-23
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date T□e date t□e surve□ □as conducted	2/19/2012

Cementing KPI Survey	
Type of Job Select t□e t□pe of □ob □□Cementing or Non-Cementing□	0
Select the Ma□imum Deviation ran□e for this Job W□at is t□e □ig□est deviation for t□e □ob □ou □ust completed□ T□is ma□ not be t□e ma□imum □ell deviation□	□ertical
Total Operatin□ Time (hours) Total Operating Hours Including Rig-up□Pumping□Rig-do□n□Enter in decimal format□	4
HSE Incident□Accident□In□ury HSE Incident□Accident□In□ur□□T□is s□ould be recordable incidents onl□□	No
Was the □ob purpose achieved? Was t□e □ob delivered correctl□ as per customer agreed design□	Yes
Operatin□ Hours (Pumpin□ Hours) Total number of □ours pumping fluid on t□is □ob□Enter in decimal format□	1□5
Customer Non□Productive Ri□ Time (hrs) Lost time due to Halliburton in t□e start□e□ecution□or completion of an ordered service or product□or dela□s in a follo□-on service□Enter in decimal format□0 if none□	0
Type of Ri□ Classification Job Was Performed T□pe Of Rig □classification□Job Was Performed On	Drilling Rig □Portable□
Number Of JSAs Performed Number Of Jsas Performed	5
Number of Unplanned Shutdowns Unplanned s□utdo□n is □□en in□ection stops for an□period of time□	0
Was this a Primary Cement Job (Yes / No)	Yes

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CUSTOMER SURVEY

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9260907	10	2/19/2012
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RON TOWERS		AFEY0G1UZ4JASJQMAAA
Well Name:		**Well Number:**
SG		311-23
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	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	90
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	90
Nbr of Remedial Sq□Jobs Rqd □Competition Number Of Remedial S□uee□e Jobs Re□uired After Primar□Job Performed B□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