HALLIBURTON

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 433-2
RULISON
Garfield County , Colorado

Cement Surface Casing

22-Mar-2013

Post Job Report

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 2982657	**Quote #:**	**Sales Order #:** 900305293
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		**Customer Rep:** Hudson, Matt	
Well Name: PA	**Well #:** 433-2		**API/UWI #:**
Field: RULISON	**City (SAP):** PARACHUTE	**County/Parish:** Garfield	**State:** Colorado
Contractor: NABORS 577	**Rig/Platform Name/Num:** NABORS 577		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: MAYO, MARK	**Srvc Supervisor:** SMITH, CHRISTOPHER	**MBU ID Emp #:** 452619	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BLUST, CHARLES Thomas	0.0	386662	BRENNECKE, ANDREW Bailey	0.0	486345	SMITH, CHRISTOPHER Scott	0.0	452619
WILSON, BENJAMIN Wallace	0.0	533647						

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*
10025118	60 mile	10867531	60 mile	10872429	60 mile	10989685	60 mile
11259884	60 mile	11360881	60 mile	11808847	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	1535. ft	**Job Depth TVD**	1535. ft
Water Depth		**Wk Ht Above Floor**	4. ft
Perforation Depth (MD)	*From*	**To**	

Job Times

	Date	Time	Time Zone
Called Out	22 - Mar - 2013	14:30	MST
On Location	22 - Mar - 2013	19:00	MST
Job Started	22 - Mar - 2013	21:32	MST
Job Completed	22 - Mar - 2013	22:32	GMT
Departed Loc	22 - Mar - 2013	22:55	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				12.25				.	1530.		
SURFACE CASING	Unknown		9.625	9.001	32.3		I-80	.	1530.		

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*	

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		20.00	bbl	.	.0	.0	.0	
2	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	220.0	sacks	12.3	2.38	13.75		13.75
	13.75 Gal	FRESH WATER							
3	VersaCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75		11.75
	11.75 Gal	FRESH WATER							
4	Fresh Water Displacement		116.00	bbl	.	.0	.0	.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	*0 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

Sold To #: 300721	**Ship To #:** 2982657	**Quote #:**	**Sales Order #:** 900305293
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		**Customer Rep:** Hudson, Matt	
Well Name: PA	**Well #:** 433-2		**API/UWI #:**
Field: RULISON	**City (SAP):** PARACHUTE	**County/Parish:** Garfield	**State:** Colorado
Legal Description:			
Lat:		**Long:**	
Contractor: NABORS 577	**Rig/Platform Name/Num:** NABORS 577		
Job Purpose: Cement Surface Casing			**Ticket Amount:**
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: MAYO, MARK	**Srvc Supervisor:** SMITH, CHRISTOPHER		**MBU ID Emp #:** 452619

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	03/22/2013 16:30							ALL HES PERSONEL
Crew Leave Yard	03/22/2013 17:00							
Arrive At Loc	03/22/2013 19:00							RIG RUNNING CASEING.
Assessment Of Location Safety Meeting	03/22/2013 19:30							ALL HES PERSONEL
Rig-Up Equipment	03/22/2013 21:00							
Pre-Job Safety Meeting	03/22/2013 21:30							ALL HES PERSONEL AND RIG CREW
Start Job	03/22/2013 21:32							TD 1535', TP 1517', SJ 37.3', OH 13.5", CSG 9.625" 32.2# H40 , MUD 10.4 PPG.
Other	03/22/2013 21:32		2	2			89.0	FILL LINES
Pressure Test	03/22/2013 21:35		0.5	0.5				ALL LINES HELD PRESSURE @ 3499 PSI
Pump Spacer 1	03/22/2013 21:38		4	20			139.0	FRESH WATER
Pump Lead Cement	03/22/2013 21:45		8	93			448.0	220 SKS, 12.3 PPG, 2.38 FT3/SK, 13.75 GAL/SK.
Pump Tail Cement	03/22/2013 21:58		8	60			460.0	160 SKS, 12.8 PPG, 2.11 FT3/ SK, 11.75 GAL/SK.
Shutdown	03/22/2013 22:06							WASH UP ON TOP OF TOP PLUG
Drop Top Plug	03/22/2013 22:07							PLUG WENT
Pump Displacement	03/22/2013 22:08		10	106.5			690.0	FRESH WATER

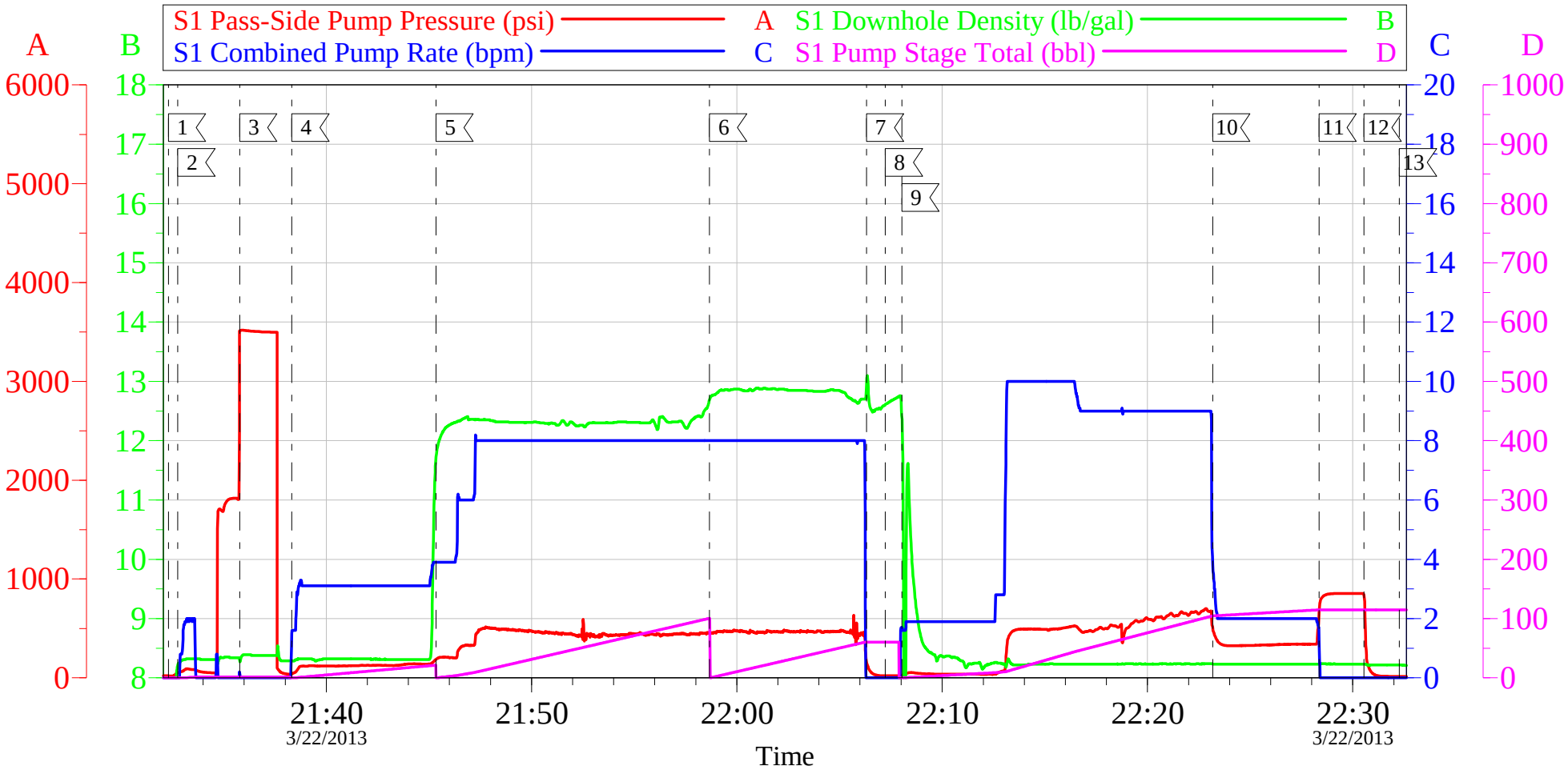
HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Slow Rate	03/22/2013 22:23		2	10			340.0	
Bump Plug	03/22/2013 22:28			116.5			850.0	PLUG BUMPED
Check Floats	03/22/2013 22:30							FLOATS HELD
End Job	03/22/2013 22:32							GOOD CIRCULATION THROUGHOUT JOB, 20 BBLS OF CEMENT TO SURFACE, PIPE WAS NOT MOVED DURRING THE JOB.
Post-Job Safety Meeting (Pre Rig-Down)	03/22/2013 22:40							ALL HES PERSONEL
Rig-Down Completed	03/22/2013 23:30							
Depart Location Safety Meeting	03/22/2013 23:45							ALL HES PERSONEL
Crew Leave Location	03/22/2013 23:55							
Other	03/22/2013 23:56							THANK YOU FOR CHOOSING HALLIBURTON, CHRIS SMITH AND CREW

WPX PA 433-2

9.625" SURFACE



Local Event Log

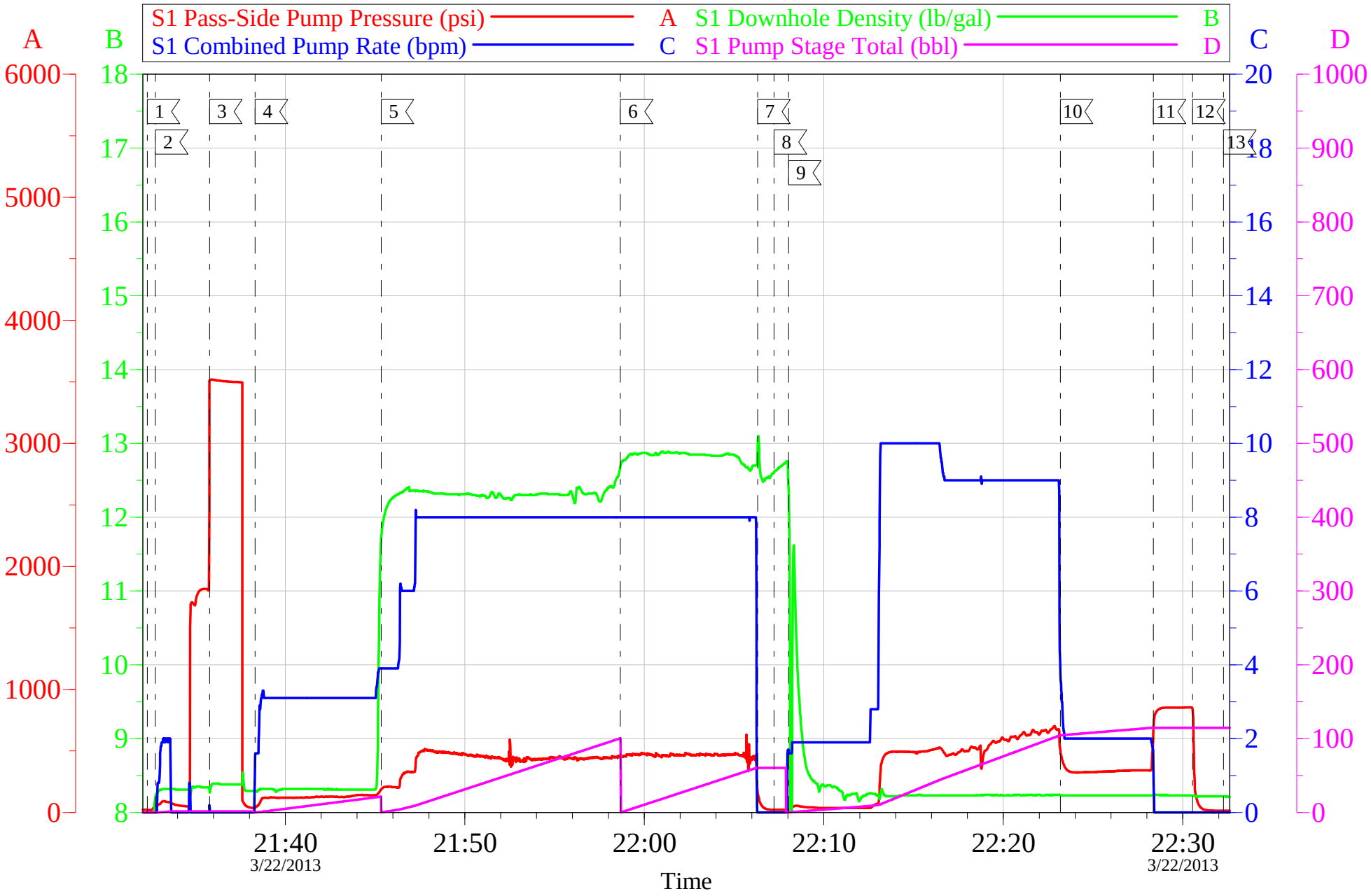
1	START JOB	21:32:18	2	FILL LINES	21:32:46	3	TEST LINES	21:35:47
4	H20 SPACER	21:38:19	5	LEAD CEMENT	21:45:21	6	TAIL CEMENT	21:58:40
7	SHUTDOWN	22:06:19	8	DROP PLUG	22:07:14	9	H20 DISPLACEMENT	22:08:02
10	SLOW RATE	22:23:11	11	BUMP PLUG	22:28:22	12	CHECK FLOATS	22:30:33
13	END JOB	22:32:16						

Customer:	WPX	Job Date:	22-Mar-2013	Sales Order #:	900305293
Well Description:	PA 433-2	Job Type:	SURFACE	ADC Used:	YES
Company Rep:	M.HUDSON	Cement Supervisor:	C.SMITH	Elite #7:	A.BRENNECKE

OptiCem v6.4.10
22-Mar-13 22:43

WPX PA 433-2

9.625" SURFACE



Customer:	WPX	Job Date:	22-Mar-2013	Sales Order #:	900305293
Well Description:	PA 433-2	Job Type:	SURFACE	ADC Used:	YES
Company Rep:	M.HUDSON	Cement Supervisor:	C.SMITH	Elite #7:	A.BRENNECKE

OptiCem v6.4.10
22-Mar-13 22:44

HALLIBURTON

Water Analysis Report

Company:	WPX	**Date:**	03.22.13
Submitted by:	C.SMITH	**Date Rec.:**	03.22.2013
Attention:	L.COOKSEY	**S.O.#**	900305293
Lease	HP353	**Job Type:**	SURFACE
Well #	PA 433-2		

Specific Gravity	*MAX*	1	
pH	*8*	7	
Potassium (K)	*5000*	220	Mg / L
Hrdness	*500*	0	Mg / L
Iron (FE2)	*300*	200	Mg / L
Chlorides (Cl)	*3000*	0	Mg / L
Sulfates (SO_4)	*1500*	<200	Mg / L
Temp	*40-80*	60	Deg
Total Dissolved Solids		380	Mg / L

Respectfully: C.SMITH

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 its u

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CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
900305293	10	3/23/2013
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
MATT HUDSON		AFEY0RKGIEKLKYMTAAA
Well Name:		**Well Number:**
PA		433-2
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**	**3/23/2013**
Survey Interviewer	**The survey interviewer is the person who initiated the survey.**	**CHRISTOPHER SMITH (HB20137)**
Customer Participation	**Did the customer partipcipate in this survey? (Y/N)**	**Yes**
Customer Representative	**Enter the Customer representative name**	**MATT HUDSON**
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

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CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
900305293	10	3/23/2013
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
MATT HUDSON		AFEY0RKGIEKLKYMTAAA
Well Name:		**Well Number:**
PA		433-2
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 The date the survey was conducted	3/23/2013

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.	2
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
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	7
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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CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
900305293	10	3/23/2013
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
MATT HUDSON		AFEY0RKGIEKLKYMTAAA
Well Name:		**Well Number:**
PA		433-2
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	96
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	96
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