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# **WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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**RWF 33-36  
Rulison  
Garfield County , Colorado**

**Cement Surface Casing**  
**04-Jun-2013**

**Post Job Report**

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2958711	Quote #:	Sales Order #: 900484958
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Hartl, Al		
Well Name: RWF	Well #: 33-36	API/UWI #: 05-045-21552	
Field: Rulison	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Lat: N 39.482 deg. OR N 39 deg. 28 min. 56.359 secs.	Long: W 107.836 deg. OR W -108 deg. 9 min. 50.544 secs.		
Contractor: Nabors	Rig/Platform Name/Num: Nabors 576		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: MAYO, MARK	Srvc Supervisor: PONDER, THOMAS	MBU ID Emp #: 427112	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
LYNGSTAD, FREDRICK D	9	403742	MILLER II, MATTHEW Reginald	9	425164	PONDER, THOMAS Lynn	9	427112

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10616651C	60 mile	10744549	60 mile	10995027	60 mile	11583931	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
06/03/2013	4	0	06/04/2013	5	2			

**TOTAL** Total is the sum of each column separately

## Job

JOB						JOB TIMES					
Formation Name							Date	Time	Time Zone		
Formation Depth (MD)	Top			Bottom		Called Out	03 - Jun - 2013	15:30	MST		
Form Type				BHST		On Location	03 - Jun - 2013	20:00	MST		
Job depth MD		1126.3 ft		Job Depth TVD		1126.3 ft	Job Started	04 - Jun - 2013	02:45	MST	
Water Depth				Wk Ht Above Floor		4. ft	Job Completed	04 - Jun - 2013	03:47	MST	
Perforation Depth (MD)		From			To			Departed Loc	04 - Jun - 2013	05:00	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				.	1148.		
SURFACE CASING	Unknown		9.625	9.001	32.3		H-40	.	1126.3		

## Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe	9 5/8	1	WTF	1126.27	Packer					Top Plug	9 5/8	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar	9 5/8	1	WTF	1082.67	Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8	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

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

Stage/Plug #: 1

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water Spacer		20.00	bbl	8.34	.0	.0	4.0	
2	VersaCemGJ1 Lead Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.3	2.38	13.75	8.0	13.75
13.75 Gal		FRESH WATER							
3	VersaCemGJ1 Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	8.0	11.75
11.75 Gal		FRESH WATER							
4	Fresh Water Displacement		85.00	bbl	8.34	.0	.0	10.0	
Calculated Values		Pressures		Volumes					
Displacement	85.2	Shut In: Instant		Lost Returns		Cement Slurry	127.8	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	25	Actual Displacement	85.2	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	233
Rates									
Circulating	RIG	Mixing	7.5	Displacement	10	Avg. Job	7		
Cement Left In Pipe	Amount	43.6 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					

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300721		<b>Ship To #:</b> 2958711		<b>Quote #:</b>		<b>Sales Order #:</b> 900484958	
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				<b>Customer Rep:</b> Hartl, Al			
<b>Well Name:</b> RWF			<b>Well #:</b> 33-36			<b>API/UWI #:</b> 05-045-21552	
<b>Field:</b> Rulison		<b>City (SAP):</b> RIFLE		<b>County/Parish:</b> Garfield		<b>State:</b> Colorado	
<b>Legal Description:</b>							
<b>Lat:</b> N 39.482 deg. OR N 39 deg. 28 min. 56.359 secs.				<b>Long:</b> W 107.836 deg. OR W -108 deg. 9 min. 50.544 secs.			
<b>Contractor:</b> Nabors			<b>Rig/Platform Name/Num:</b> Nabors 576				
<b>Job Purpose:</b> Cement Surface Casing						<b>Ticket Amount:</b>	
<b>Well Type:</b> Development Well			<b>Job Type:</b> Cement Surface Casing				
<b>Sales Person:</b> MAYO, MARK			<b>Srv Supervisor:</b> PONDER, THOMAS			<b>MBU ID Emp #:</b> 427112	

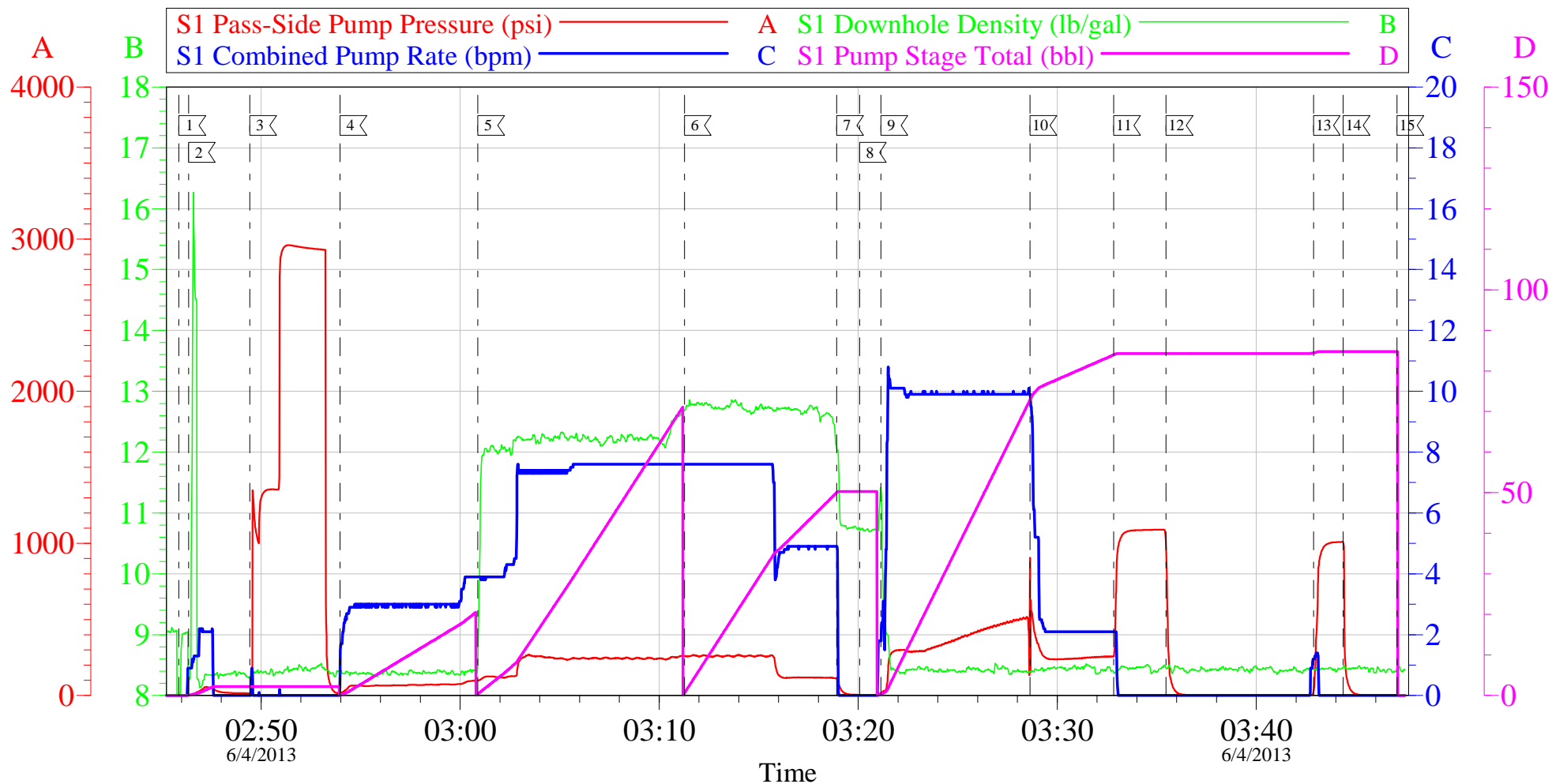
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	06/03/2013 15:30							
Crew Leave Yard	06/03/2013 18:00							ALL HES PRESENT FOR PRE-CONVOY SAFETY HUDDLE
Arrive At Loc	06/03/2013 20:00							RIG WAS STILL PULLING DRILL PIPE WHEN THE CREW ARRIVED ON LOCATION
Assessment Of Location Safety Meeting	06/04/2013 00:30							TD- 1148', TP- 1126.27', SJ- 43.6', MUD- 9.4 PPG, HOLE- 13 1/2", SURFACE CASING- 9 5/8" 32.3# H-40
Rig-Up Equipment	06/04/2013 00:45							1-550 PICKUP, 1-ELITE PUMP, 1-660 CUFT BULK TRUCK
Safety Meeting	06/04/2013 02:30							ALL HES PRESENT, RIG CREW PRESENT, RIG STARTED CIRCULATING ON BOTTOM @ 0000 HAD PROBLEMS WITH CELLAR PUMP DID NOT PUMP CONTINUOUSLY
Start Job	06/04/2013 02:45		2	2			57.0	FILL LINES
Test Lines	06/04/2013 02:49		0.1	0.1			2960.0	GOOD PRESSURE TEST
Pump Spacer 1	06/04/2013 02:53		4	20			99.0	FRESH WATER
Pump Lead Cement	06/04/2013 03:00		8	67.8			270.0	160 SKS 12.3 PPG 2.38 FT3/SK 13.75 GAL/SK

## Cementing Job Log

Pump Tail Cement	06/04/2013 03:11		8	60.1			269.0	160 SKS 12.8 PPG 2.11 FT3/SK 11.75 GAL/SK
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	06/04/2013 03:19							
Drop Plug	06/04/2013 03:20							PLUG DROP VERIFIED VIA TATTLE TELL BY CUSTOMER REP
Pump Displacement	06/04/2013 03:21		10	75.2			517.0	FRESH WATER
Slow Rate	06/04/2013 03:28		2	10	85.2		238.0	GOOD CIRCULATION THROUGH OUT THE JOB, 25 BBL CEMENT CIRCULATED TO SURFACE
Bump Plug	06/04/2013 03:32				85.2		280.0	PLUG BUMPED
Check Floats	06/04/2013 03:35						1091. 0	
Bump Plug	06/04/2013 03:42			0.5			1009. 0	CO REP WAS UNSURE ABOUT FLOATS HOLDING HAD US BUMP PLUG AGAIN
Check Floats	06/04/2013 03:44						1010. 0	FLOATS HELD 1/2 BBL BACK TO THE DISPALACEMENT TANKS
End Job	06/04/2013 03:47							THANK YOU FOR CHOOSING HALLIBURTON, THOMAS PONDER AND CREW

# WPX RWF 33-36

9.625 IN SURFACE



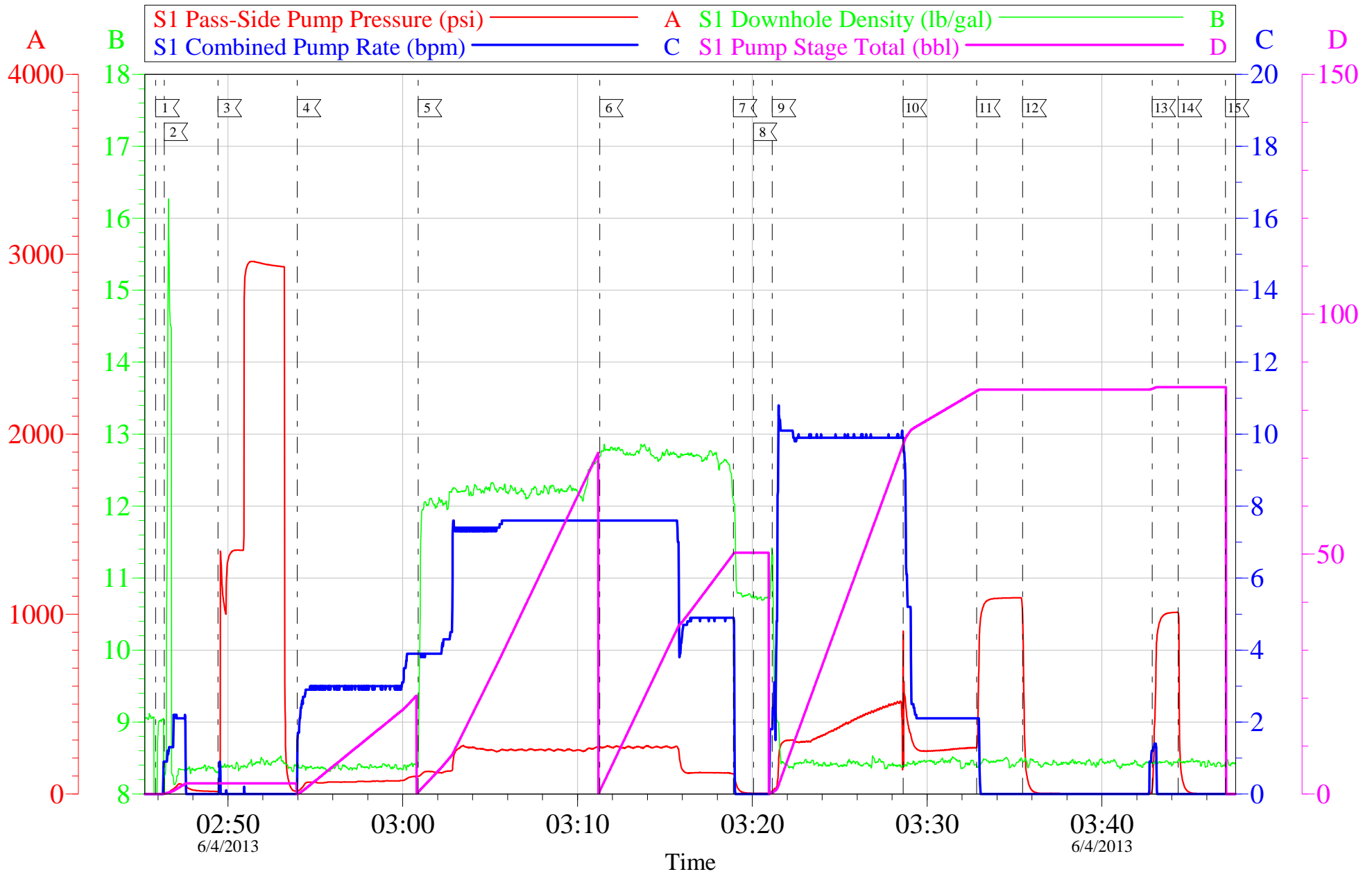
Local Event Log			
Maximum	SPPP	Maximum	SPPP
1 START JOB	02:45:52 -1.000	2 FILL LINES	02:46:21 57.00
4 PUMP H2O SPACER	02:53:58 99.00	5 PUMP LEAD CEMENT	03:00:53 270.0
7 SHUTDOWN	03:18:55 112.0	8 DROP PLUG	03:20:04 16.62
10 SLOW RATE	03:28:38 905.0	11 BUMP PLUG	03:32:50 1091
13 RE BUMP PLUG	03:42:53 1010	14 CHECK FLOATS	03:44:22 1010
		3 TEST LINES	02:49:26 2960
		6 PUMP TAIL CEMENT	03:11:16 269.0
		9 PUMP H2O DISPLACEMENT	03:21:09 905.0
		12 CHECK FLOATS	03:35:28 990.0
		15 END JOB	03:47:05 2.000

Customer: WPX	Job Date: 04-Jun-2013	Sales Order #: 900484958
Well Description: RWF 33-36	Job Type: SURFACE	ADC Used: YES
Company Rep: RICK OAKS	Cement Supervisor: THOMAS PONDER	Elite #/Operator: ELITE #4 / REGGIE MILLER

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04-Jun-13 03:47

# WPX RWF 33-36

9.625 IN SURFACE



Customer: WPX	Job Date: 04-Jun-2013	Sales Order #: 900484958
Well Description: RWF 33-36	Job Type: SURFACE	ADC Used: YES
Company Rep: RICK OAKS	Cement Supervisor: THOMAS PONDER	Elite #/Operator: ELITE #4 / REGGIE MILLER

OptiCem v6.4.10  
04-Jun-13 03:48

# HALLIBURTON

Company:	<u>WPX</u>	Date:	<u>6/3/2013</u>
Submitted by:	<u>THOMAS PONDER</u>	Date Rec.:	<u>6/3/2013</u>
Attention:	<u>LARRY COOKSEY</u>	S.O.#	<u>900484958</u>
Lease	<u>RWF</u>	Job Type:	<u>SURFACE</u>
Well #	<u>33-36</u>		

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>0</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>120</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>0</i> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<i>&lt;200</i> Mg / L
Carbonates hardness		
Temp	<i>40-80</i>	<i>70</i> Deg
Total Dissolved Solids		<i>265</i> Mg / L

Respectfully: THOMAS PONDER

Title: CEMENTING SUPERVISOR

Location: GRAND JCT, CO



<b>Sales Order #:</b> 900484958	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 6/4/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> RICK OAKS		<b>API / UWI: (leave blank if unknown)</b> 05-045-21552
<b>Well Name:</b> RWF		<b>Well Number:</b> 33-36
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> 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	6/4/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	THOMAS PONDER (HX41187)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	RICK OAKS
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	

<b>CUSTOMER SIGNATURE</b>
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<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

### KEY PERFORMANCE INDICATORS

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

Cementing KPI Survey	
<b>Type of Job</b> Select the type of job. (Cementing or Non-Cementing)	0
<b>Select the Maximum Deviation range for this Job</b> What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
<b>Total Operating Time (hours)</b> Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	2
<b>HSE Incident, Accident, Injury</b> HSE Incident, Accident, Injury. This should be recordable incidents only.	No
<b>Was the job purpose achieved?</b> Was the job delivered correctly as per customer agreed design?	Yes
<b>Operating Hours (Pumping Hours)</b> Total number of hours pumping fluid on this job. Enter in decimal format.	1
<b>Customer Non-Productive Rig Time (hrs)</b> 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
<b>Type of Rig Classification Job Was Performed</b> Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
<b>Number Of JSAs Performed</b> Number Of Jsas Performed	6
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

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<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	99
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> 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	99
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0