
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**RWF 532-36
RULISON
Garfield County , Colorado**

Cement Surface Casing
13-Mar-2013

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2973576	Quote #:	Sales Order #: 900215838
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Hartl, Al	
Well Name: RWF		Well #: 532-36	API/UWI #: 05-045-21550
Field: RULISON	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Lat: N 39.482 deg. OR N 39 deg. 28 min. 56.755 secs.		Long: W 107.836 deg. OR W -108 deg. 9 min. 50.972 secs.	
Contractor: NABORS 576		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: KUKUS, CHRISTOPHER		MBU ID Emp #: 413952

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
GOWEN, WESLEY M	7	496205	KUKUS, CHRISTOPHER A	7	413952	ROSE, BENJAMIN Keith	7	487022

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10296152C	60 mile	10713212	60 mile	11360871	60 mile	11583931	60 mile
11808849	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
03/13/2013	7	2.5						
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	13 - Mar - 2013	13:45	MST	
Form Type		BHST				On Location	13 - Mar - 2013	17:00	MST	
Job depth MD		1180. ft		Job Depth TVD		1180. ft	Job Started	13 - Mar - 2013	21:42	MST
Water Depth				Wk Ht Above Floor		5. ft	Job Completed	13 - Mar - 2013	22:36	MST
Perforation Depth (MD)	From			To		Departed Loc	14 - Mar - 2013	00:00	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				.	1180.		
SURFACE CASING	New		9.625	9.001	32.3		I-80	.	1137.5		

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 5/8	1	HES
Float Shoe	9 5/8	1		1137.46	Bridge Plug					Bottom Plug			
Float Collar	9 5/8	1		1093.66	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

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Spacer		20.00	bbl	8.33	.0	.0	4	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.3	2.38	13.75	7	13.75
	13.75 Gal	FRESH WATER							
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	7	11.75
4	Displacement		86.00	bbl	8.33	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	86.1	Shut In: Instant		Lost Returns	0	Cement Slurry	127.9	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	30	Actual Displacement	86.1	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	234
Rates									
Circulating		Mixing	7	Displacement	10	Avg. Job			7
Cement Left In Pipe	Amount	43.8 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID		Frac ring # 2 @	ID		Frac Ring # 3 @	ID		Frac Ring # 4 @
The Information Stated Herein Is Correct				Customer Representative Signature					

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Field: RULISON		City (SAP): RIFLE		County/Parish: Garfield		State: Colorado	
Legal Description:							
Lat: N 39.482 deg. OR N 39 deg. 28 min. 56.755 secs.				Long: W 107.836 deg. OR W -108 deg. 9 min. 50.972 secs.			
Contractor: NABORS 576			Rig/Platform Name/Num: NABORS 576				
Job Purpose: Cement Surface Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: MAYO, MARK			Srv Supervisor: KUKUS, CHRISTOPHER			MBU ID Emp #: 413952	

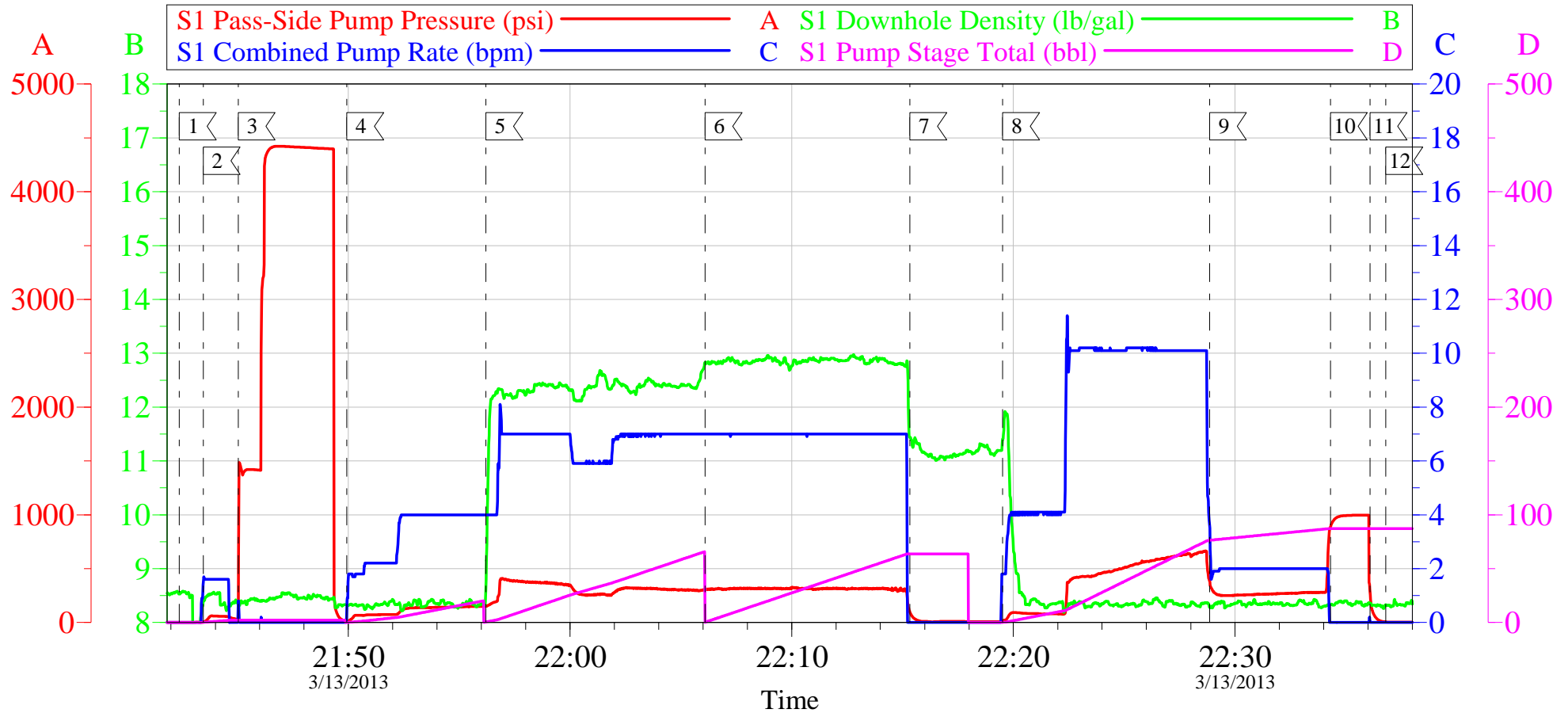
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	03/13/2013 13:45							ELITE # 9
Depart Yard Safety Meeting	03/13/2013 15:30							ALL HES EMPLOYEES
Arrive At Loc	03/13/2013 17:00							RIG PULLING DRILL PIPE HES CREW ARRIVED ON TIME AND WAS ASKED TO SPOT EQUIPMENT PER CO REP REQUEST
Assessment Of Location Safety Meeting	03/13/2013 17:30							ALL HES EMPLOYEES
Pre-Rig Up Safety Meeting	03/13/2013 18:20							ALL HES EMPLOYEES
Rig-Up Equipment	03/13/2013 18:30							1 F-550 PICKUP 1 HT-400 PUMP TRUCK 1 660 BULK TRUCK IRON TO STAND PIPE, SUCTION HOSES TO FRESH WATER SUPPLY, BULK HOSE TO BULK TRUCK
Pre-Job Safety Meeting	03/13/2013 21:30							ALL HES EMPLOYEES AND RIG CREW
Start Job	03/13/2013 21:42							TD: 1180 TP: 1137.46 SJ: 43.8 CSG: 9 5/8 32.3# OH: 13 1/2 MUD WT 9.7 VISC: 80 RIG GOING TO CIRULATE 1 HOUR BEFORE CEMENT JOB
Test Lines	03/13/2013 21:45					4420.0		PRESSURE TEST OK

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer	03/13/2013 21:49		4	20	20		149.0	FRESH WATER SPACER
Pump Lead Cement	03/13/2013 21:56		7	67.8	67.8		315.0	160 SKS 12.3 PPG 2.38 YEILD 13.75 GAL / SK LEAD CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGH OUT LEAD CEMENT
Pump Tail Cement	03/13/2013 22:06		7	60.1	60.1		325.0	160 SKS 12.8 PPG 2.11 YEILD 11.75 GAL / SK TAIL CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGH OUT TAIL CEMENT
Shutdown	03/13/2013 22:15							SHUTDOWN END OF CEMENT WASH UP CEMENT TUB FOR DISPLACEMENT
Drop Plug	03/13/2013 22:16							PLUG AWAY NO PROBLEMS
Pump Displacement	03/13/2013 22:19		10	76.1	76.1		664.0	FRESH WATER DISPLACEMENT HES WASHED UP ONTOP THE PLUG PER CO-REP REQUEST
Slow Rate	03/13/2013 22:28		2	10	10		253.0	SLOW RATE TO BUMP PLUG
Bump Plug	03/13/2013 22:34		2	86.1	86.1		280.0	BUMP PLUG @ 280 AND TOOK PRESSURE UP TO 995 PSI
Check Floats	03/13/2013 22:36							FLOATS HELD .5 BBL BACK TO DISPLACEMENT TANKS
End Job	03/13/2013 22:37							WELL HAD GOOD CIRCULATION THROUGH OUT CEMENT JOB GOT 30 BBLS OF CEMENT TO SURFACE RIG USED 20LBS OF SUGAR TICKET CHANGES: TOOK OFF ADD HOURS , DERRICK CHARGE AND CHANGED SUGAR TO 20LB

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pre-Rig Down Safety Meeting	03/13/2013 22:45							ALL HES EMPLOYEES
Rig-Down Equipment	03/13/2013 23:00							RIG FLOOR, IRON , SUCTION HOSES, BULK HOSE WASH UP / BLOW DOWN PUMP TRUCK
Pre-Convoy Safety Meeting	03/13/2013 23:50							ALL HES EMPLOYEES
Crew Leave Location	03/14/2013 00:00							THANKS FOR USING HALLIBURTON CEMENT CHRIS KUKUS AND CREW

WPX ENERGY / RWF 532-36

9 5/8 SURFACE



Local Event Log

1 START JOB	21:42:23	2 FILL LINES	21:43:27
3 TEST LINES	21:45:02	4 PUMP FRESH WATER SPACER	21:49:56
5 PUMP LEAD CEMENT	21:56:12	6 PUMP TAIL CEMENT	22:06:06
7 SHUTDOWN / DROP PLUG	22:15:20	8 PUM[P FRESH WATER DISPLACEMENT	22:19:31
9 SLOW RATE	22:28:51	10 BUMP PLUG	22:34:18
11 CHECK FLOATS	22:36:06	12 END JOB	22:36:48

Customer: WPX ENERGY
Well Description: RWF 532-36
Company Rep: AL HARTL

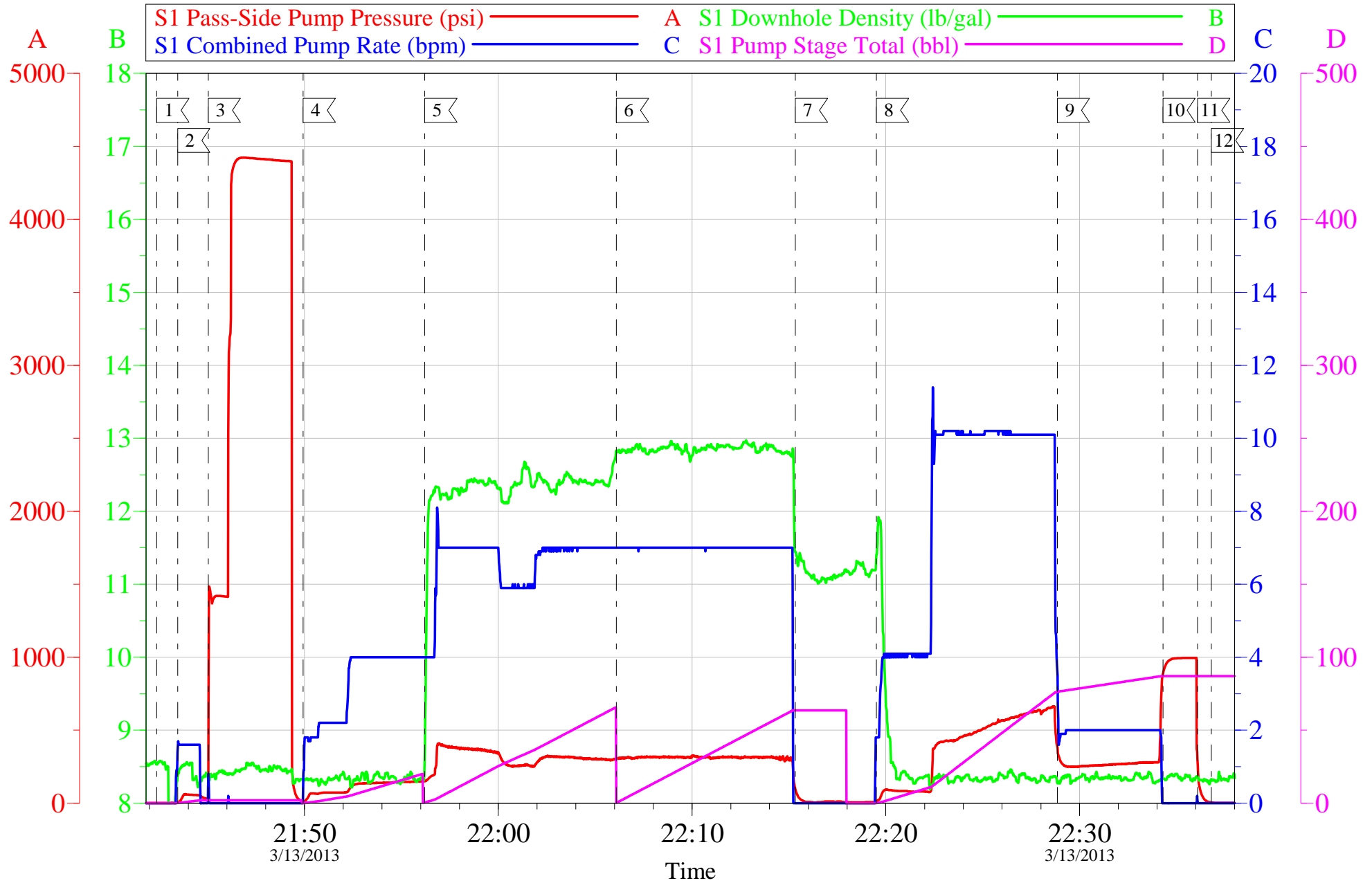
Job Date: 13-Mar-2013
Job Type: SURFACE
Cement Supervisor: CHRIS KUKUS

Sales Order #: 900215838
ADC Used: YES
Elite # 9: WESLEY GOWEN

OptiCem v6.4.10
13-Mar-13 22:51

WPX ENERGY / RWF 532-36

9 5/8 SURFACE



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Well Description: RWF 532-36
Company Rep: AL HARTL

Job Date: 13-Mar-2013
Job Type: SURFACE
Cement Supervisor: CHRIS KUKUS

Sales Order #: 900215838
ADC Used: YES
Elite # 9: WESLEY GOWEN

OptiCem v6.4.10
13-Mar-13 22:47

HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: CHRIS KUKUS
Attention: J. TROUT/C.MARTINEZ
Lease: RWF
Well #: 532-36

Date: 3/19/2012
Date Rec.: 3/19/2012
S.O.#: 900215838
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	6.8
Potassium (K)	<i>5000</i>	0 Mg / L
Calcium (Ca)	<i>500</i>	120 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	UNDER 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	50 Deg
Total Dissolved Solids		130 Mg / L

Respectfully: CHRIS KUKUS

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

Sales Order #: 900215838	Line Item: 10	Survey Conducted Date: 3/13/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-21550
Well Name: RWF		Well Number: 532-36
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: 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	3/13/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHRISTOPHER KUKUS (HX35027)
Customer Participation	Did the customer participate in this survey? (Y/N)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

CUSTOMER SIGNATURE

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Customer Representative:		API / UWI: (leave blank if unknown) 05-045-21550
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Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	3/13/2013

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.	2.5
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	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

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Customer Representative:		API / UWI: (leave blank if unknown) 05-045-21550
Well Name: RWF		Well Number: 532-36
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: 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 cement mixed at designed density divided by total BBLs of cement multiplied by 100	80
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 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