

HALLIBURTON

**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS
DO NOT MAIL - ACH-43241
TULSA, Oklahoma**

RWF 421-4

NABORS 574

Post Job Summary **Cement Surface Casing**

Date Prepared: 12/4/2013
Version: 1

Service Supervisor: CASTILLO, FRANCISCO

Submitted by: Grand Junction Engineering

HALLIBURTON

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123637	Quote #:	Sales Order #: 900920067
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Vallad, Gary		
Well Name: RWF	Well #: 421-4	API/UWI #: 05-045-22087	
Field: RULISON	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Lat: N 39.473 deg. OR N 39 deg. 28 min. 23.754 secs.	Long: W 107.889 deg. OR W -108 deg. 6 min. 39.521 secs.		
Contractor: NABORS 574	Rig/Platform Name/Num: NABORS 574		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: MAYO, MARK	Srv 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	8	513620	SCHANZ, ANDREW Jacob	8	544399	SINCLAIR, DAN J	8	338784

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10001431	60 mile	10616651C	60 mile	11071559	60 mile	11259884	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
11/23/13	1	0	11/24/13	7	1			

TOTAL Total is the sum of each column separately

Job					Job Times			
Formation Name	Formation Depth (MD)	Top	SURFACE	Bottom	1180	Called Out	Date	Time
Form Type			BHST			On Location	23 - Nov - 2013	19:41
Job depth MD	1180. ft		Job Depth TVD	1180. ft		Job Started	23 - Nov - 2013	23:00
Water Depth			Wk Ht Above Floor	3. ft		Job Completed	24 - Nov - 2013	04:32
Perforation Depth (MD)	From		To			Job Completed	24 - Nov - 2013	05:27
						Departed Loc	24 - Nov - 2013	07:00

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
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Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe	9.625	1	WTF	1168	Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar	9.625	1	WTF	1124	Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	HES
Stage Tool										Centralizers	9.625	9	WTF

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

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom

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	Fresh Water Spacer		20.00	bbl	.	.0	.0	4	
2	VersaCem GJ1 Lead Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75	7.2	13.75
	13.75 Gal	FRESH WATER							
3	VersaCem GJ1 Tail Cement	VARICEM (TM) CEMENT (452009)		sacks	12.8	2.11	11.75	6	11.75
	11.75 Gal	FRESH WATER							
4	Fresh Water Displacement		88.00	bbl	.	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	88	Shut In: Instant		Lost Returns	NONE	Cement Slurry	128	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	30	Actual Displacement	88	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	240
Rates									
Circulating	RIG	Mixing	7	Displacement	10	Avg. Job			7.5
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					

The Road to Excellence Starts with Safety

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Field: RULISON		City (SAP): RIFLE		County/Parish: Garfield			State: Colorado
Legal Description:							
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Contractor: NABORS 574			Rig/Platform Name/Num: NABORS 574				
Job Purpose: Cement Surface Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: MAYO, MARK			Srv Supervisor: CASTILLO, FRANCISCO			MBU ID Emp #: 513620	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/23/2013 19:41							ON LOCATION TIME 01:00 HRS 11/24/13
Pre-Convoy Safety Meeting	11/23/2013 20:41							ALL HES PERSONEL
Crew Leave Yard	11/23/2013 21:00							
Arrive At Loc	11/23/2013 23:00							
Assessment Of Location Safety Meeting	11/24/2013 03:25							ALL HES PERSONEL. RIG LANDED CASING AT 03:15 HRS. CIRCULATE WELL AT 03:30 HRS
Rig-Up Equipment	11/24/2013 03:30							1-ELITE, 1-660 BULK TRUCKS, 2" PUMPING IRON, 9.625" PLUG CONTAINER AND QUICKLATCH
Rig-Up Completed	11/24/2013 04:00							
Pre-Job Safety Meeting	11/24/2013 04:15							ALL HES PERSONEL AND RIG CREW
Start Job	11/24/2013 04:31							TD-1180', OH-13.5", TP-1168', SJ-44', FC-1124', CSG-9.625, 32.3#, H-40
Pump Water	11/24/2013 04:32		2	2			60.0	FILL LINES
Pressure Test	11/24/2013 04:34		0.2	0.2				STALL OUT TEST WITH 1487 PSI
Pressure Test	11/24/2013 04:36		0.2	0.2				PRESSURE TEST LINES WITH 3450 PSI
Pump Spacer	11/24/2013 04:40		4	20			120.0	FRESH WATER SPACER
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl		Pressure psig		Comments

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Quote #:

Sales Order #: 900920067

SUMMIT Version: 7.3.0106

Wednesday, December 04, 2013 04:54:00

Cementing Job Log

		#		Stage	Total	Tubing	Casing	
Pump Lead Cement	11/24/2013 04:47		7.4	68			290.0	160 SKS, 12.3 PPG, 2.38 FT3/SK, 13.75 GAL/SK, SETUP TIME 2:58 HRS AT 70 BC. FIRST 10 BBLS PUMPED AT 4 BPM WITH 140 PSI.
Pump Tail Cement	11/24/2013 04:58		7.2	60			301.0	160 SKS, 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK, SETUP TIME 1:51 HRS AT 70 BC
Shutdown	11/24/2013 05:07							
Drop Plug	11/24/2013 05:10							VERIFIED BY CUSTOMER
Pump Displacement	11/24/2013 05:11		10	78			580.0	FRESH WATER
Slow Rate	11/24/2013 05:21		2	10			271.0	
Bump Plug	11/24/2013 05:25			88			814.0	ALL HES PERSONEL
Check Floats	11/24/2013 05:26							FLOATS HELD/ 0.5 BBLS FLOW BACK TO DISPLACEMENT TANK
End Job	11/24/2013 05:27							40 LBS OF SUGAR WERE USED IN THE CELLAR
Post-Job Safety Meeting (Pre Rig-Down)	11/24/2013 05:30							
Rig-Down Completed	11/24/2013 06:40							
Depart Location Safety Meeting	11/24/2013 06:50							
Crew Leave Location	11/24/2013 07:00							
Other	11/24/2013 07:01							THANK YOU FOR YOUR BUSINESS FROM JAVIER CASTILLO AND CREW

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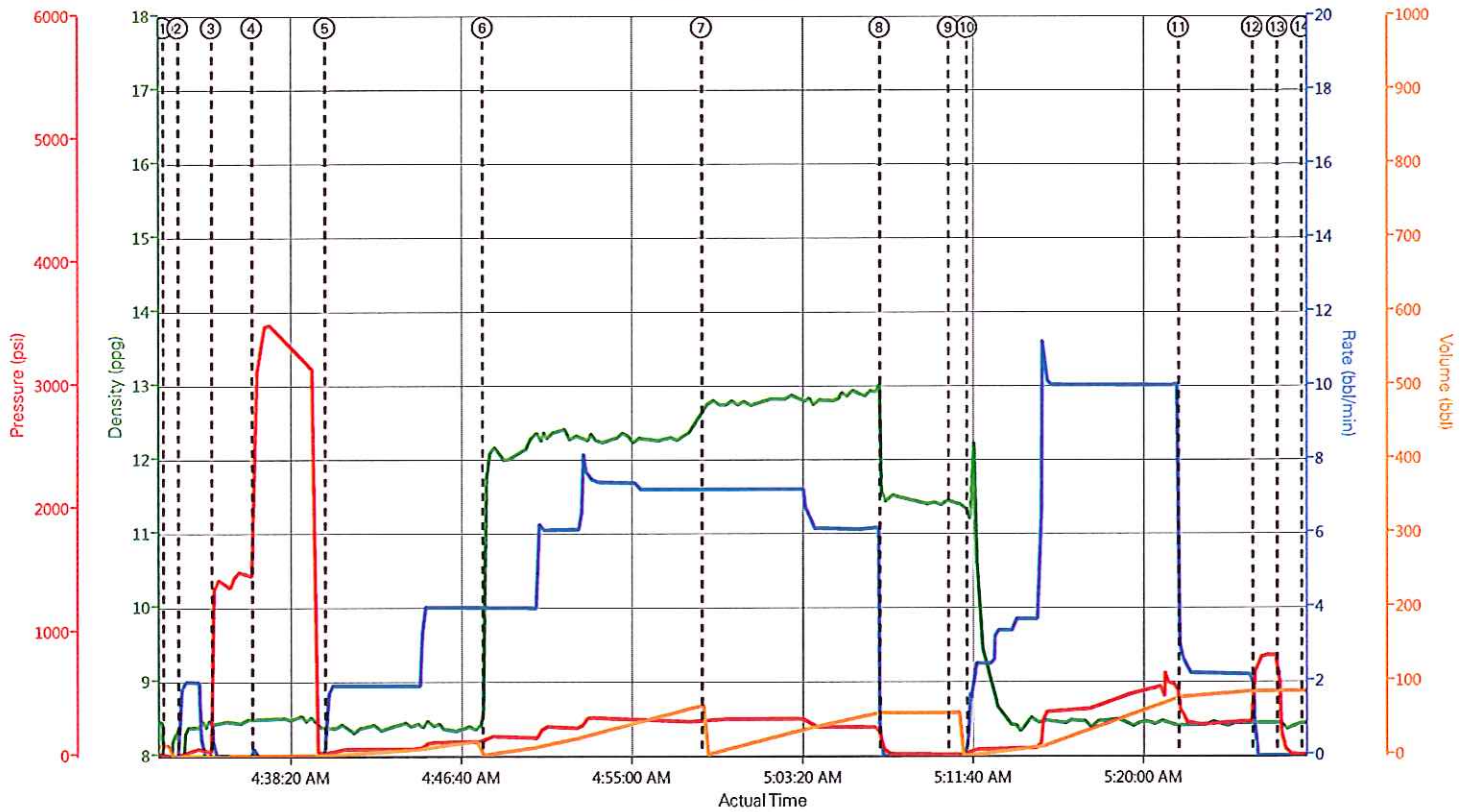
Quote # :

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SUMMIT Version: 7.3.0106

Wednesday, December 04, 2013 04:54:00

WPX RWF 421-4 SURFACE



DH Density (ppg) Comb Pump Rate (bbl/min) PS Pump Press (psi) Pump Stg Tot (bbl)

- | | | | | |
|-----------------------------|------------------------------------|--------------------------------------|-------------------------------------|------------------------------|
| ① Start Job 0.85;0;4;13.7 | ④ Test Lines 8.49;0;2727;2 | ⑦ Pump Tail Cement 12.76;7.2;285;0.2 | ⑩ Pump Displacement 11.2;1.7;13;0.1 | ⑬ Check Floats 8.45;0;268;87 |
| ② Fill Lines 4.37;1.8;2;0.1 | ⑤ Water Spacer 8.39;1.4;18;0.1 | ⑧ Shutdown 11.45;0;65;57.8 | ⑪ Slow Rate 8.4;2.8;329;79.1 | ⑭ End Job 8.42;0;4;87 |
| ③ Stall Out 8.45;0.1;1341;2 | ⑥ Pump Lead Cement 11.53;4;128;1.2 | ⑨ Drop Plug 11.4;0;7;57.8 | ⑫ Bump Plug 8.43;0;719;87 | |

▼ HALLIBURTON | iCem® Service

Created: 2013-11-24 03:57:51, Version: 2.0.606

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 11/24/2013 4:08:32 AM

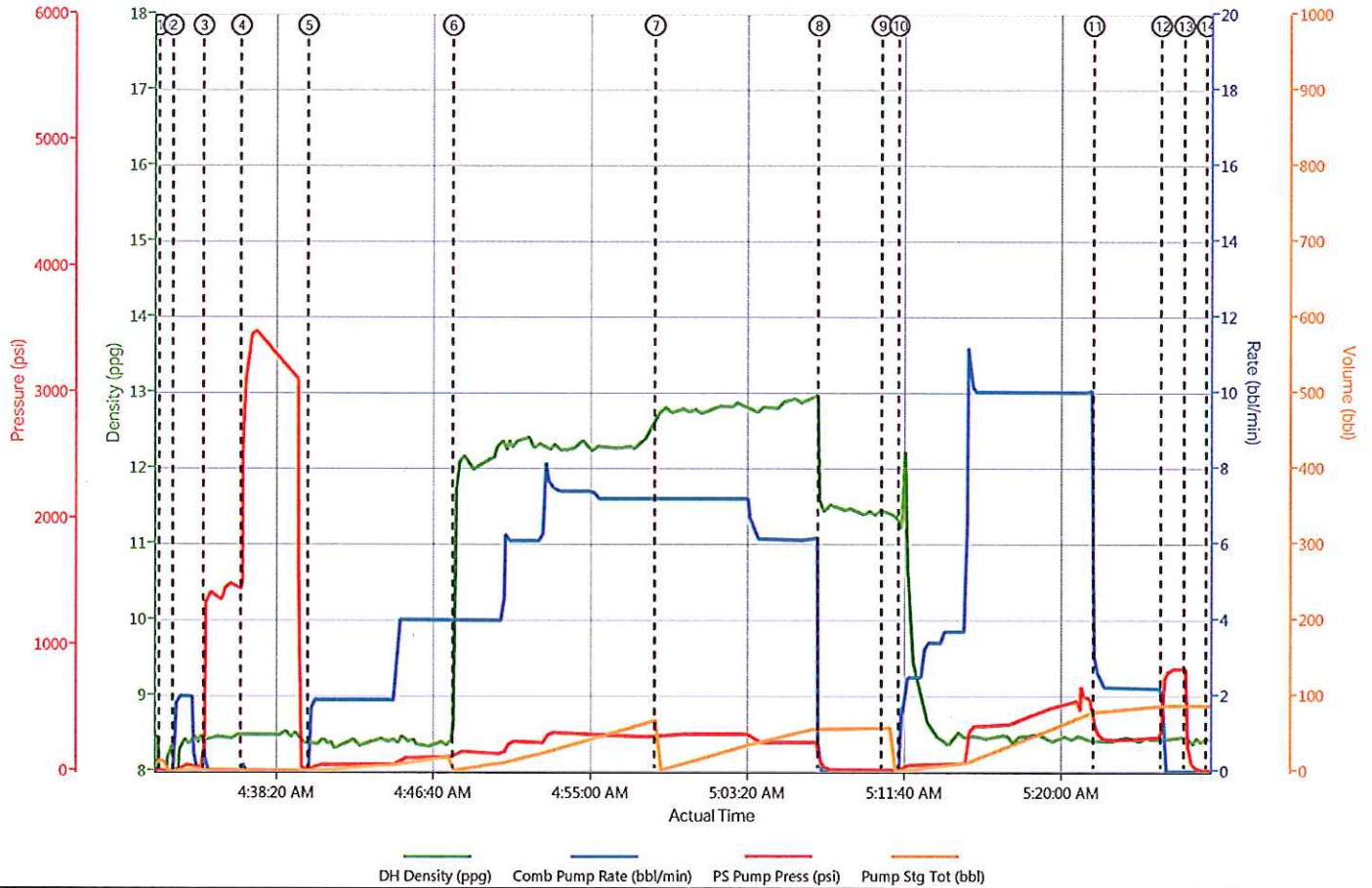
Well: RWF 421-4

Representative: GARY VALLAD

Sales Order #: 900920067

ELITE #4: J.CASTILLO / DAN SINCLAIR

WPX RWF 421-4 SURFACE



▼ HALLIBURTON | iCem® Service

Created: 2013-11-24 03:57:51, Version: 2.0.606

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-
EBUS

Job Date: 11/24/2013 4:08:32 AM

Well: RWF 421-4

Representative: GARY VALLAD

Sales Order #: 900920067

ELITE #4: J.CASTILLO / DAN SINCLAIR

HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: JAVIER CASTILLO
Attention: J.Trout
Lease: RWF
Well #: 421-4

Date: 11/23/2013
Date Rec.: 11/23/2013
S.O.#: 900920067
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>200 Mg / L</i>
Calcium (Ca)	<i>500</i>	<i>120 Mg / L</i>
Iron (FE2)	<i>300</i>	<i>0 Mg / L</i>
Chlorides (Cl)	<i>3000</i>	<i>0 Mg / L</i>
Sulfates (SO ₄)	<i>1500</i>	<i>200 Mg / L</i>
Chlorine (Cl ₂)		<i>0 Mg / L</i>
Temp	<i>40-80</i>	<i>40 Deg</i>
Total Dissolved Solids		<i>520 Mg / L</i>

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 its

Sales Order #: 900920067	Line Item: 10	Survey Conducted Date: 11/24/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: GARY VALLAD		API / UWI: (leave blank if unknown) 05-045-22087
Well Name: RWF		Well Number: 421-4
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	11/24/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	FRANCISCO CASTILLO (HB85312)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	GARY VALLAD
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	GOOD JOB

CUSTOMER SIGNATURE

Sales Order #: 900920067	Line Item: 10	Survey Conducted Date: 11/24/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: GARY VALLAD		API / UWI: (leave blank if unknown) 05-045-22087
Well Name: RWF		Well Number: 421-4
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	11/24/2013

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.	8
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	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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Customer Representative: GARY VALLAD		API / UWI: (leave blank if unknown) 05-045-22087
Well Name: RWF		Well Number: 421-4
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	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