

HALLIBURTON

**WPX ENERGY ROCKY MOUNTAIN LLC-PICEANCE
DO NOT MAIL – ACH-43241
TULSA, OK 74121-1218**

RWF 414-25

Nabors 577

Post Job Summary
Cement Surface Casing

Date Prepared: 02/16/2014
Version: 1

Service Supervisor: KUKUS, Chris

Submitted by: Grand Junction Engineering

HALLIBURTON

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123566	Quote #:	Sales Order #: 901104533
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Hubbard, Luke	
Well Name: RWF	Well #: 414-25	API/UWI #: 05-045-21984	
Field: Rulison	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Contractor: Nabors		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: 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 #
DIAZ, ZACH	6	554549	ETCITY, JERRY	6	227876	KUKUS, CHRISTOPHER A	6	413952

Equipment

HES Unit #	Distance-1 way						
10867322	60 mile	11027039	60 mile	11583926	60 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
02/08/2014	1	0	02/09/2014	5	4			

TOTAL Total is the sum of each column separately

Job				Job Times			
Formation Name				Date	Time	Time Zone	
Formation Depth (MD)	Top	Bottom		Called Out	08 - Feb - 2014	18:00	MST
Form Type	BHST			On Location	08 - Feb - 2014	23:15	MST
Job depth MD	1168. ft	Job Depth TVD	1168. ft	Job Started	09 - Feb - 2014	02:37	MST
Water Depth	Wk Ht Above Floor			Job Completed	09 - Feb - 2014	03:47	MST
Perforation Depth (MD)	From	To		Departed Loc	09 - Feb - 2014	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

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		1155.6	Bridge Plug					Bottom Plug			
Float Collar	9 5/8	1		1111.97	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

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
1	Fresh Water Spacer		40	bbl	.	.0	.0	4	

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
2	VersaCem Lead	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75	5	13.75
	13.75 Gal	FRESH WATER							
3	VersaCem Tail	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.8	2.11	11.75	6	11.75
	11.75 Gal	FRESH WATER							
4	Displacement Fluid		87.60	bbl	8.34	.0	.0	8	
Calculated Values		Pressures		Volumes					
Displacement	87.6	Shut In: Instant		Lost Returns	0	Cement Slurry	127.9	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	17	Actual Displacement	87.6	Treatment	
Frac Gradient		15 Min		Spacers	40	Load and Breakdown		Total Job	236
Rates									
Circulating		Mixing	6	Displacement	8	Avg. Job	6		
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					

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Well Name: RWF	Well #: 414-25	API/UWI #: 05-045-21984	
Field: Rulison	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: Nabors	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: 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	02/08/2014 18:00							ELITE # E7
Depart Yard Safety Meeting	02/08/2014 21:00							ALL HES EMPLOYEES
Arrive At Loc	02/08/2014 23:15							HES CREW ARRIVED 15 MINS LATE DUE TO CREW BEING ROLLED RIG WAS STILL RUNNING CASING HES SPOTTED EQUIPMENT AND RIGGED UP
Assessment Of Location Safety Meeting	02/08/2014 23:20							ALL HES EMPLOYEES
Pre-Rig Up Safety Meeting	02/08/2014 23:25							ALL HES EMPLOYEES
Rig-Up Equipment	02/08/2014 23:30							1 450 PICK UP TRUCK 1 HT-400 PUMP TRUCK 1 660 BULK TRUCK RIG UP IRON TO RIG FLOOR, BLUK LINES TO BULK TRUCKS , SUCTION HOSE TO FRESH WATER SOURCE
Pre-Job Safety Meeting	02/09/2014 02:15							ALL HES EMPLOYEES AND RIG CREW
Start Job	02/09/2014 02:37							TD: 1168 TP: 1155.6 SJ: 43.63 CSG: 9 5/8 32.3# OH: 13 1/2 MUD WT 9.4
Test Lines	02/09/2014 02:41					1570. 0		PRESSURE TEST OK
Pump Spacer	02/09/2014 02:46		4	40	40		131.0	FRESH WATER SPACER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	02/09/2014 02:57		5	67.8	67.8		180.0	VARICEM 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	02/09/2014 03:11		6	60.1	60.1		272.0	VARICEM 160 SKS 12.8 PPG 2.11 YEILD 11.75 GAL / SK TAIL CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGH OUT TAIL CEMENT
Shutdown	02/09/2014 03:22							SHUTDOWN END OF CEMENT / READY TANKS FOR DISPLACEMENT
Drop Plug	02/09/2014 03:25							PLUG AWAY NO PROBLEMS
Pump Displacement	02/09/2014 03:26		8	77.6	77.6		518.0	FRESH WATER DISPLACEMENT HES WASHED UP ON TOP OF THE PLUG
Slow Rate	02/09/2014 03:38		2	10	10		260.0	SLOW RATE TO BUMP PLUG
Bump Plug	02/09/2014 03:42		2	87.6	87.6		270.0	BUMP PLUG @ 270 AND TOOK PRESSURE UP TO 680 PSI
Check Floats	02/09/2014 03:44							FLOATS HELD .5 BBL BACK TO DISPLACEMENT TANKS
End Job	02/09/2014 03:47							WELL HAD GOOD CIRCULATION THROUGH OUT CEMENT JOB GOT 17 BBLs OF CEMENT TO SURFACE RIG USED 100 LB OF SUGAR
Pre-Rig Down Safety Meeting	02/09/2014 04:00							ALL HES EMPLOYEES
Rig-Down Equipment	02/09/2014 04:20							RIG DOWN RIG FLOOR, IRON, SUCTION HOSE, BULK HOSE, WASH UP PUMP TRUCK
Pre-Convoy Safety Meeting	02/09/2014 04:50							ALL HES EMPLOYEES

HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Crew Leave Location	02/09/2014 05:00							THANKS FOR USING HALLIBURTON CEMENT CHRIS KUKUS AND CREW

Sold To # : 300721

Ship To # :3123566

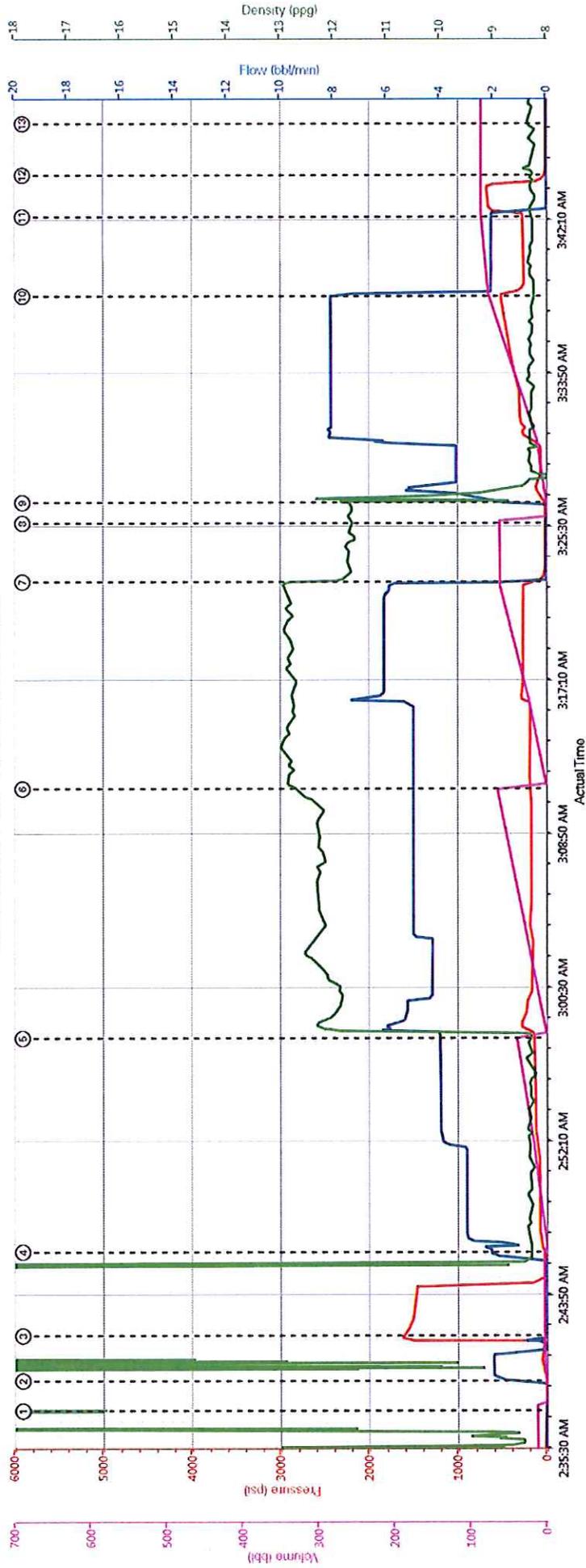
Quote # :

Sales Order # : 901104533

SUMMIT Version: 7.3.0109

Sunday, February 16, 2014 04:45:00

WPX ENERGY / RWF 414-25 / 9 5/8 SURFACE



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

- ① Start Job 5:0:12.8;54.71
- ② Prime Pumps 5:1:30.3;186.2
- ③ Test Lines 1:59:0.3;1,69.18
- ④ Pump Spacer 1 4:6:2.1;0.1;8.27
- ⑤ Pump Lead Cement 1:41:4.0;1.8;27
- ⑥ Pump Tail Cement 1:86:5:0.1;12.85
- ⑦ Shutdown 6:4:0:52.3;11.82
- ⑧ Drop Top Plug 12:0:82.3;11.86
- ⑨ Pump Displacement 37:2:2:0.4;11.69
- ⑩ Slow Rate 4:91:5.7;77.4;8.29
- ⑪ Bump Plug 27:6:2.1;80.5;8.22
- ⑫ Check Floats 17:0:88.7;8.29
- ⑬ End Job 11:0:88.7;8.34

▼ HALLIBURTON | iCem® Service

Job Date : 2/9/2014 12:37:35 AM
Sales Order # : 901104533

Well : RWF 414-25

Created: 2014-03-09 00:33:44, Version: 3.0.1.21 [Edit](#)

HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: CHRIS KUKUS
Attention: JUSTIN KIDDOO
Lease: RWF
Well #: 414-25

Date: 2/9/2014
Date Rec.: 2/9/2014
S.O.#: 901104533
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>	40 Deg
Total Dissolved Solids		450 Mg / L

Respectfully: CHRIS KUKUS

Title: CEMENTING SUPERVISOR

Location: FARMINGTON, NM

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

Sales Order #: 901104533	Line Item: 10	Survey Conducted Date: 2/9/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: W.C. WILISON		API / UWI: (leave blank if unknown) 05-045-21984
Well Name: RWF		Well Number: 414-25
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	2/9/2014
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)	Yes
Customer Representative	Enter the Customer representative name	W.C. WILISON
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	TRUCK DID NOT MIX RIGHT NEED TO GET TRUCKS SERVICED RIGHT

CUSTOMER SIGNATURE

Sales Order #: 901104533	Line Item: 10	Survey Conducted Date: 2/9/2014
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Customer Representative: W.C. WILISON		API / UWI: (leave blank if unknown) 05-045-21984
Well Name: RWF		Well Number: 414-25
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	2/9/2014
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	2
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Operating Hours (Pumping Hours)	1.5
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	0
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.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	6
Number Of Jsas Performed	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	Yes

Sales Order #: 901104533	Line Item: 10	Survey Conducted Date: 2/9/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: W.C. WILSON		API / UWI: (leave blank if unknown) 05-045-21984
Well Name: RWF		Well Number: 414-25
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	70
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	70
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