

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

RU 321-5

NABORS/576

Post Job Summary **Cement Surface Casing**

Date Prepared: 01/23/2014
Version: 1

Service Supervisor: CARTER, ERIC

Submitted by: Grand Junction Cement Engineering

HALLIBURTON

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123467	Quote #:	Sales Order #: 900835033
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Hartl, Al		
Well Name: RU	Well #: 321-5	API/UWI #: 05-045-21799	
Field: RULISON	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Lat: N 39.475 deg. OR N 39 deg. 28 min. 28.963 secs.	Long: W 107.799 deg. OR W -108 deg. 12 min. 4.367 secs.		
Contractor: NABORS	Rig/Platform Name/Num: 576		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: MAYO, MARK	Srvc Supervisor: CARTER, ERIC	MBU ID Emp #: 345598	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CARTER, ERIC Earl	0.0	345598	LINN, PAUL Andrew	0.0	479143	WARDELL, STEVEN John	0.0	549567
WESTFALL, DUSTIN Adam	0.0	555858						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
	60 mile	10867531	60 mile	10989685	60 mile	11583933	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

TOTAL	Total is the sum of each column separately							
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Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	21 - Oct - 2013	03:00	MST
Form Type	BHST		Job Started	21 - Oct - 2013	20:00	MST
Job depth MD	1126.9 ft	Job Depth TVD	Job Completed	22 - Oct - 2013	01:06	MST
Water Depth		Wk Ht Above Floor	Job Completed	22 - Oct - 2013	02:01	MST
Perforation Depth (MD)	From	To	Departed Loc	22 - Oct - 2013	03:00	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				.	1175.		
SURFACE CASING	Unknown		9.625	9.001	32.3		H-40	.	1126.9		

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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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	.0	
2	VariCem GJ! Lead Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75		13.75
13.75 Gal		FRESH WATER							
3	VariCem GJ1 Tail Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.8	2.11	11.75		11.75
11.75 Gal		FRESH WATER							
4	Fresh Water Displacement			bbl	.	.0	.0	9.5	
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	42.87 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					

The Road to Excellence Starts with Safety

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Well Name: RU			Well #: 321-5			API/UWI #: 05-045-21799	
Field: RULISON		City (SAP): RIFLE		County/Parish: Garfield		State: Colorado	
Legal Description:							
Lat: N 39.475 deg. OR N 39 deg. 28 min. 28.963 secs.				Long: W 107.799 deg. OR W -108 deg. 12 min. 4.367 secs.			
Contractor: NABORS			Rig/Platform Name/Num: 576				
Job Purpose: Cement Surface Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: MAYO, MARK			Srvc Supervisor: CARTER, ERIC			MBU ID Emp #: 345598	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/21/2013 13:00							
Depart Yard Safety Meeting	10/21/2013 17:50							ATTENDED BY ALL HES CREW
Crew Leave Yard	10/21/2013 18:30							
Arrive At Loc	10/21/2013 20:00							RIG PULLING DRILL PIPE
Assessment Of Location Safety Meeting	10/21/2013 20:10							ATTENDED BY ALL HES CREW
Other	10/21/2013 20:20							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	10/21/2013 23:50							ATTENDED BY ALL HES CREW
Rig-Up Equipment	10/22/2013 00:00							
Pre-Job Safety Meeting	10/22/2013 00:30							ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP
Start Job	10/22/2013 01:06							TP 1127.89', TD 1175' , SJ 42.87', LANDING JOINT 28', FC 1084.02', MW 10 PPG, CASING 9.625", 32.3#, H-40, RIG CIRCULATED FOR 1 HR PRIOR TO JOB
Other	10/22/2013 01:07		2	2			70.0	FILL LINES
Test Lines	10/22/2013 01:08							PRESSURED UP TO 3340 PSI, PRESSURE HELD
Pump Spacer	10/22/2013 01:12		4	20			170.0	FRESH WATER
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

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Ship To # :3123467

Quote # :

Sales Order # : 900835033

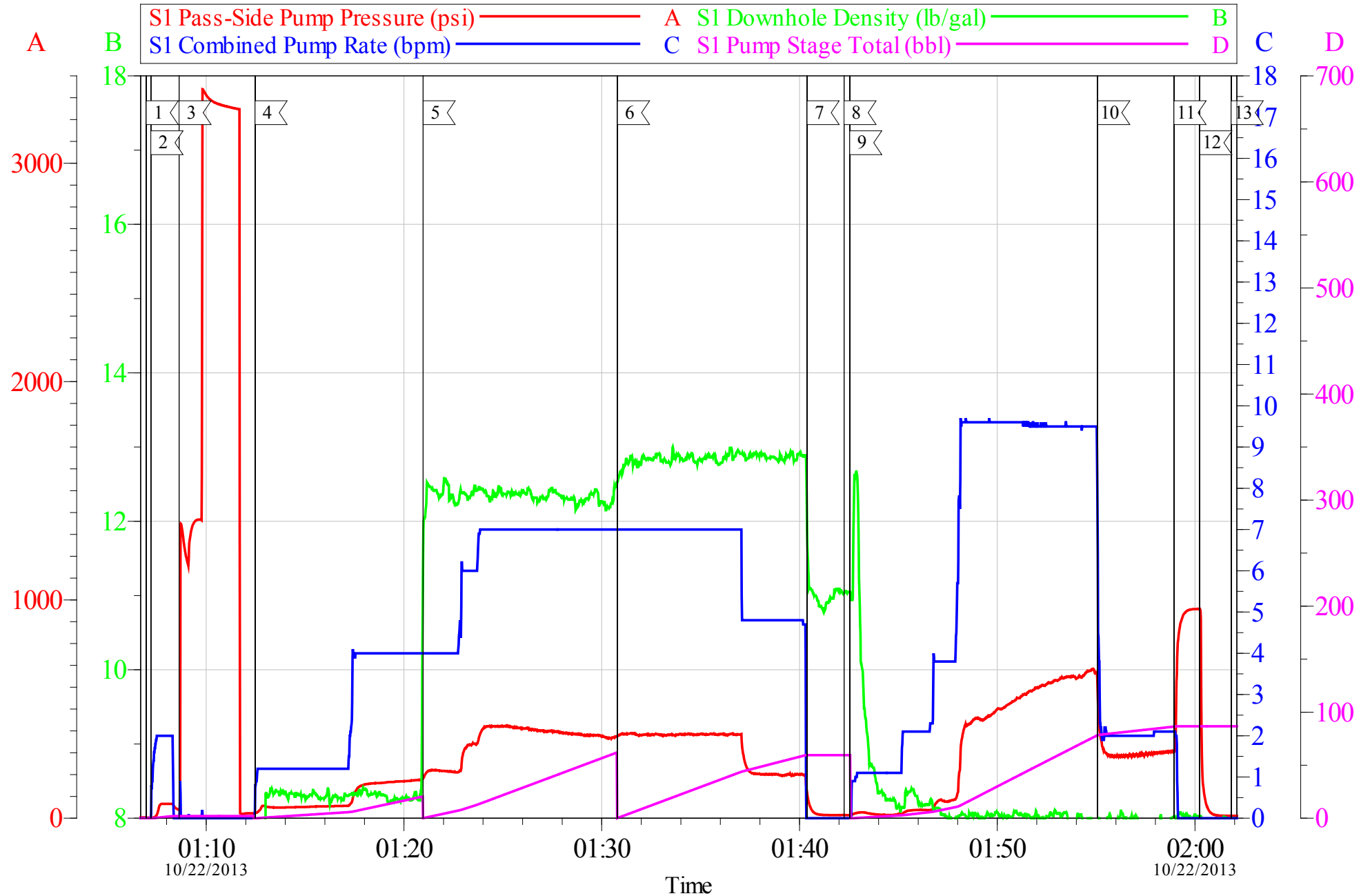
SUMMIT Version: 7.3.0106

Thursday, January 23, 2014 02:11:00

Cementing Job Log

Pump Lead Cement	10/22/2013 01:20		7	67.8			420.0	160 SKS VARICEM MIXED AT 12.3 PPG, 2.38 YILED, 13.75 GL/SK
Pump Tail Cement	10/22/2013 01:30		7	60.1			375.0	160 SKS VARICEM MIXED AT 12.8 PPG, 2.11 YILED, 11.75 GL/SK
Shutdown	10/22/2013 01:40							
Drop Top Plug	10/22/2013 01:42							PLUG LUANCHED
Pump Displacement	10/22/2013 01:42		9.5	77.5			680.0	FRESH WATER
Slow Rate	10/22/2013 01:55		2	10			305.0	
Bump Plug	10/22/2013 01:58						960.0	PLUG LANDED
Check Floats	10/22/2013 02:00							FLOATS HELD
End Job	10/22/2013 02:01							GOOD CIRCULATION THROUGH OUT JOB, PIPE NOT MOVED DURING JOB, 20 BBLS CEMENT TO SURFACE
Post-Job Safety Meeting (Pre Rig-Down)	10/22/2013 02:05							ATTENDED BY ALL HES CREW
Rig-Down Equipment	10/22/2013 02:10							
Depart Location Safety Meeting	10/22/2013 02:50							ATTENDED BY ALL HES CREW
Crew Leave Location	10/22/2013 03:00							THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW.

WPX - RU 321-5
9.625" SURFACE



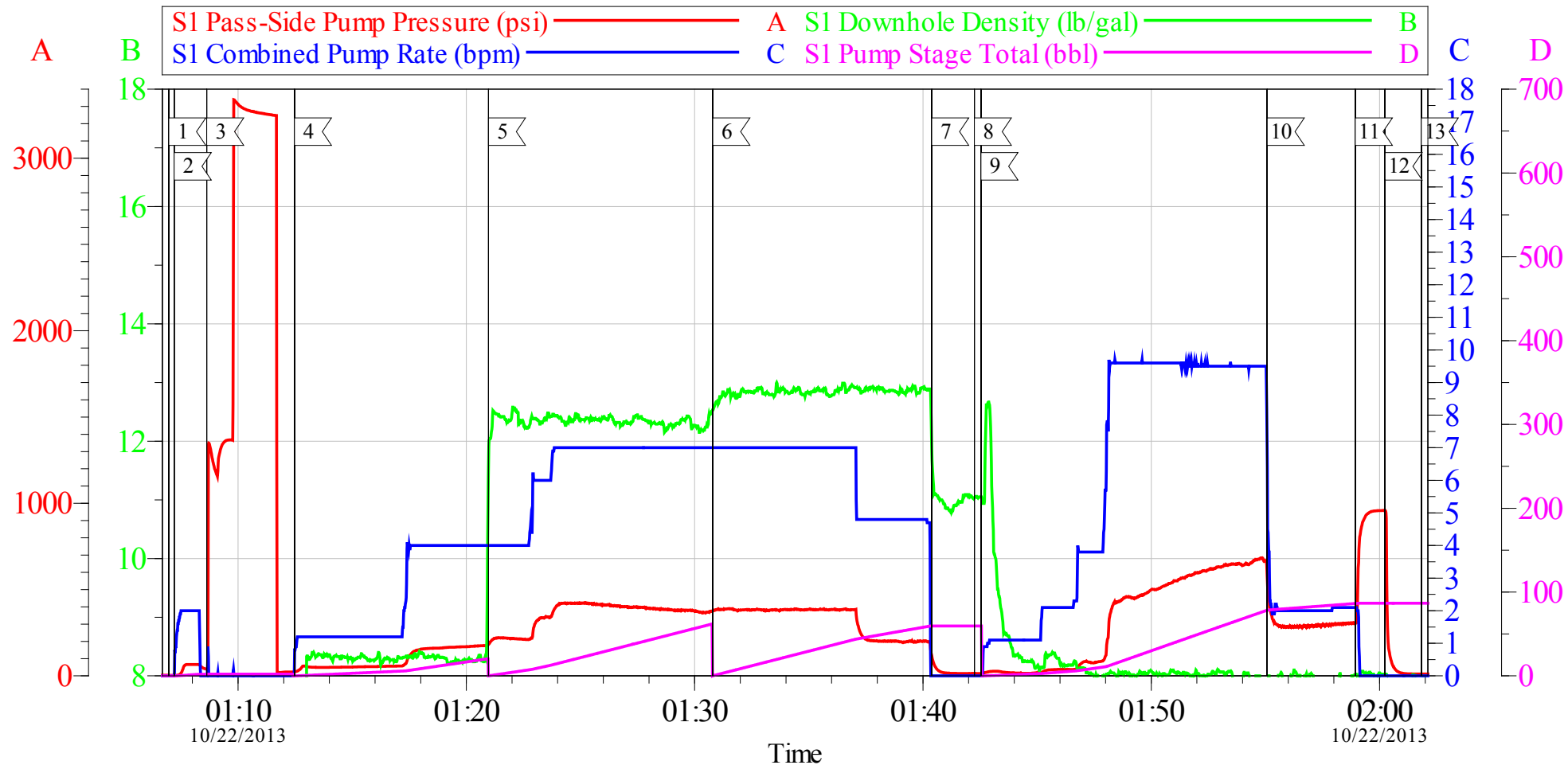
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS
Well Description: RU 321-5
Company Rep: RICK OAKS

Job Date: 22-Oct-2013
Job Type: SURFACE
Service Supervisor: ERIC CARTER

Sales Order #: 900835033
ADC Used: YES
Elite#/Operator: 9/ANDREW LINN

OptiCem v6.4.10
22-Oct-13 02:26

WPX - RU 321-5
9.625" SURFACE



Local Event Log

1 START JOB	01:06:58	2 FILL LINES	01:07:12	3 TEST LINES	01:08:38
4 PUMP SPACER	01:12:28	5 PUMP LEAD CEMENT	01:20:58	6 PUMP TAIL CEMENT	01:30:48
7 SHUTDOWN	01:40:23	8 DROP TOP PLUG	01:42:15	9 PUMP DISPLACEMENT	01:42:32
10 SLOW RATE	01:55:05	11 BUMP PLUG	01:58:56	12 CHECK FLOATS	02:00:15
13 END JOB	02:01:50				

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS
Well Description: RU 321-5
Company Rep: RICK OAKS

Job Date: 22-Oct-2013
Job Type: SURFACE
Service Supervisor: ERIC CARTER

Sales Order #: 900835033
ADC Used: YES
Elite#/Operator: 9/ANDREW LINN

OptiCem v6.4.10
22-Oct-13 02:26

HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: ERIC CARTER

Attention: J.Trout

Lease NABORS 576

Well # RU 321-5

Date: 1/23/2014

Date Rec.: 1/23/2014

S.O.# 900835033

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	0 Mg / L
Hrdness	<i>500</i>	250 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	500 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Temp	<i>40-80</i>	54 Deg
Total Dissolved Solids		540 Mg / L

Respectfully: ERIC CARTER

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 it

Sales Order #: 900835033	Line Item: 10	Survey Conducted Date: 10/22/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: RICK OAKS		API / UWI: (leave blank if unknown) 05-045-21799
Well Name: RU		Well Number: 321-5
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	10/22/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	ERIC CARTER (HX15491)
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	

CUSTOMER SIGNATURE

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Customer Representative: RICK OAKS		API / UWI: (leave blank if unknown) 05-045-21799
Well Name: RU		Well Number: 321-5
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	10/22/2013
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)	2.5
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
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	5
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

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Customer Representative: RICK OAKS		API / UWI: (leave blank if unknown) 05-045-21799
Well Name: RU		Well Number: 321-5
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	98
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	97
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