

HALLIBURTON

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RWF 512-25
RULISON
Garfield County , Colorado

Cement Surface Casing

20-Oct-2013

Post Job Report

The Road to Excellence Starts with Safety

The Road to Excellence Starts with Safety			
Sold To #: 300721	Ship To #: 3162981	Quote #:	Sales Order #: 900833732
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Moore, Frank	
Well Name: RWF		Well #: 512-25	API/UWI #: 05-045-21971
Field: RULISON	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.497 deg. OR N 39 deg. 29 min. 49.124 secs.		Long: W 107.841 deg. OR W -108 deg. 9 min. 31.954 secs.	
Contractor: Aztec		Rig/Platform Name/Num: Aztec 1000	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srv Supervisor: REEVES, BRANDON	MBU ID Emp #: 287883

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/20/2013 12:30							
Depart from Service Center or Other Site	10/20/2013 15:00							
Arrive At Loc	10/20/2013 16:30							
Assessment Of Location Safety Meeting	10/20/2013 18:30							
Other	10/20/2013 18:40							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	10/20/2013 18:50							
Rig-Up Equipment	10/20/2013 19:00							
Pre-Job Safety Meeting	10/20/2013 19:50							
Start Job	10/20/2013 20:05							TD-1145' TP-1137.87' SJ-44.20 MW-11.0 PPG. HOLE-13 1/2" CASING-9 5/8" 32.3 PPF.
Test Lines	10/20/2013 20:07					2960.0		
Pump Spacer 1	10/20/2013 20:11		4	20			125.0	FRESH WATER SPACER
Pump Lead Cement	10/20/2013 20:18		8	76.3			400.0	180 SKS. @ 12.3 PPG. 2.38 YIELD 13.75 GAL/SK.
Pump Tail Cement	10/20/2013 20:28		8	60.1			350.0	160 SKS. @ 12.8 PPG. 2.11 YIELD 11.75 GAL/SK.
Drop Top Plug	10/20/2013 20:37							
Pump Displacement	10/20/2013 20:39		10				500.0	FRESH WATER DISPLACEMENT.

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Quote #:

Sales Order #: 900833732

SUMMIT Version: 7.3.0106

Tuesday, December 10, 2013 03:37:00

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Slow Rate	10/20/2013 20:47		2	54			205.0	SLOWED THE PUMP RATE TO 2 BPM AFTER CIRCULATING CEMENT TO SURFACE AT 54 BBLs. INTO DISPLACEMENT.
Bump Plug	10/20/2013 21:02		2	86			260.0	PLUG LANDED AT 260 PSI. PRESSURED UP TO 730 PSI.
Check Floats	10/20/2013 21:04							FLOATS HELD. .5 BBL. FLOW BACK.
End Job	10/20/2013 21:06							THE WELL WAS CIRCULATED BEFORE STARTING THE JOB. GOOD CIRCULATION THROUGHOUT THE JOB. THE PIPE WAS NOT RECIPROCATED. CIRCULATED 32 BBLs. OF CEMENT TO SURFACE.
Comment	10/20/2013 21:08							THANK YOU FOR USING HALLIBURTON CEMENTING. BRANDON REEVES AND CREW.

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Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srv Supervisor: REEVES, BRANDON	MBU ID Emp #: 287883

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ATKINSON, STEPHAN Michael	0.0	513940	BANKS, BRENT A	0.0	371353	EICKHOFF, ROBERT Edward	0.0	495311
REEVES, BRANDON W	0.0	287883						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10567589C	60 mile	10867094	60 mile	10867304	60 mile	10897925	60 mile
10951246	60 mile	11071559	60 mile	11808847	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

Job

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type			BHST	On Location	20 - Oct - 2013	16:30	MST
Job depth MD	1137.9 ft		Job Depth TVD	Job Started	20 - Oct - 2013	20:05	MST
Water Depth			Wk Ht Above Floor	Job Completed	20 - Oct - 2013	21:06	MST
Perforation Depth (MD)	From		To	Departed Loc	20 - Oct - 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
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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			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

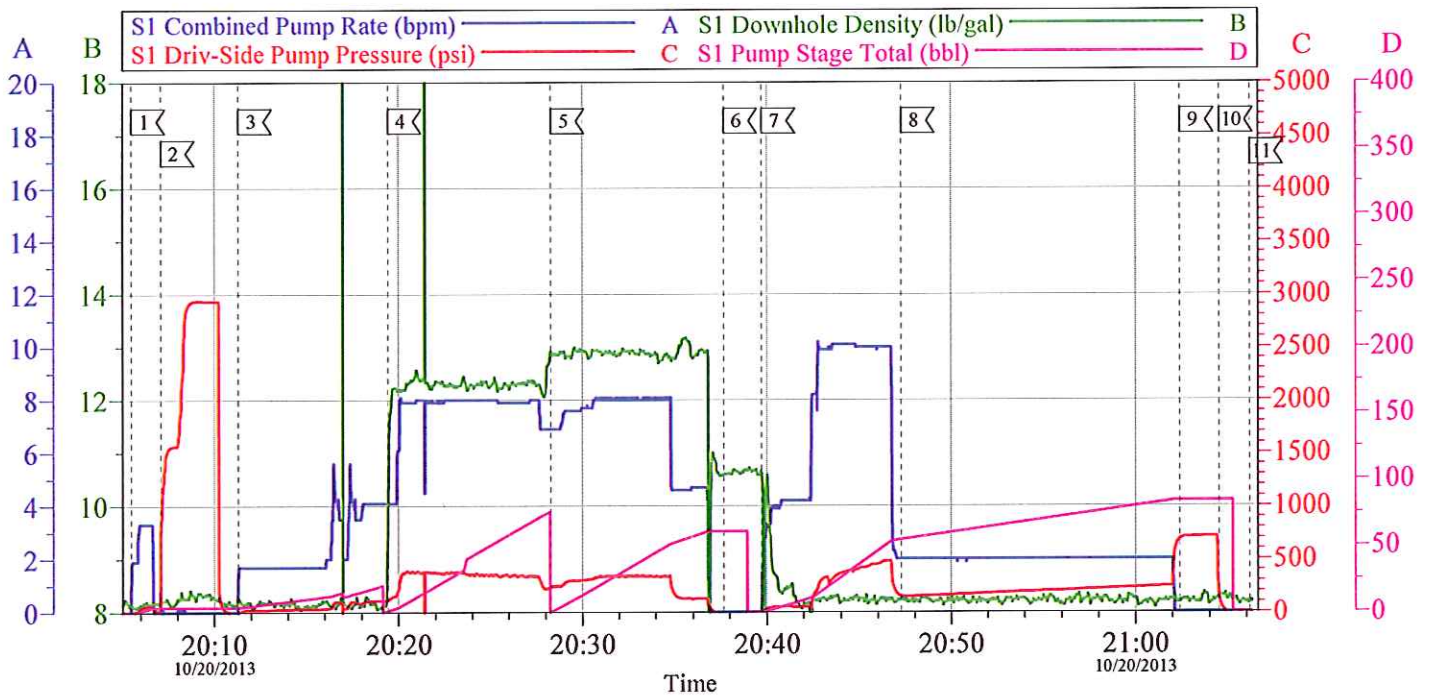
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield 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 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	8.33	.0	.0	.0	
2	VariCem GJ1 Lead Cement	VARICEM (TM) CEMENT (452009)	180.0	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	Displacement Fluid			bbl	8.34	.0	.0	.0	
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	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					

WPX ENERGY RWF 512-25 9 5/8" SURFACE



Local Event Log											
Intersection			SDPP	Intersection			SDPP	Intersection		SDPP	
1	START JOB	20:05:31	-14.70	2	TEST LINES	20:07:06	314.6	3	PUMP H2O SPACER	20:11:19	-0.668
4	PUMP LEAD CEMENT	20:19:26	114.9	5	PUMP TAIL CEMENT	20:28:17	232.5	6	DROP TOP PLUG	20:37:39	-8.696
7	PUMP DISPLACEMENT	20:39:43	-9.696	8	SLOW RATE	20:47:16	152.7	9	LAND PLUG	21:02:24	682.9
10	CHECK FLOATS	21:04:31	217.8	11	END JOB	21:06:10	-11.70				

Customer: WPX ENERGY	Job Date: 20-Oct-2013	Sales Order #: 900833732
Well Description: RWF 512-25	Job Type: 9 5/8" SURFACE	ADC Used: YES
Supervisor: BRANDON REEVES	Company Rep: FRANK MOORE	Elite/Operator: 3/BRENT BANKS

OptiCem v6.4.10
20-Oct-13 21:09

HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: BRANDON REEVES
Attention: J. TROUT/C.MARTINEZ
Lease: RWF
Well #: 512-25

Date: 10/20/2013
Date Rec.: 10/20/2013
S.O.#: 900833732
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	250 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>	54 Deg
Total Dissolved Solids		400 Mg / L

Respectfully: BRANDON REEVES

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 use.

Sales Order #: 900833732	Line Item: 10	Survey Conducted Date: 10/20/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: FRANK MOORE		API / UWI: (leave blank if unknown) 05-045-21971
Well Name: RWF		Well Number: 512-25
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	10/20/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	BRANDON REEVES (HBT9414)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	FRANK MOORE
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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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	10/20/2013

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
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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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