
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**PA 43-2
RULISON
Garfield County , Colorado**

Cement Surface Casing
19-Apr-2013

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2993544	Quote #:	Sales Order #: 900376825
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Hutson, Matt		
Well Name: PA	Well #: 43-2	API/UWI #:	
Field: RULISON	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
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	4.5	513620	CASTILLO, FRANCISCO P	4.5	513620	KAMMEIER, CHRISTOPHER Michael	4.5	524554
LAULAINEN, ROGER Edward	4.5	524413	SINCLAIR, DAN J	4.5	338784			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10567589C	60 mile	10744549	60 mile	10867304	60 mile	10995027	60 mile
10998054	60 mile	11259881	60 mile	11808829	60 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
4/19/13	2.5	.5	4/20/13	.5				

TOTAL	Total is the sum of each column separately							
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Job

Formation Name	Top	Bottom	1448	Called Out	19 - Apr - 2013	18:00	MST
Formation Depth (MD)	Top	SURFACE	Bottom	1448	On Location	19 - Apr - 2013	21:30
Form Type		BHST		Job Started	19 - Apr - 2013	23:35	MST
Job depth MD	1463. ft	Job Depth TVD	1463. ft	Job Completed	20 - Apr - 2013	00:42	MST
Water Depth		Wk Ht Above Floor	3. ft	Departed Loc	20 - Apr - 2013	02:00	MST
Perforation Depth (MD)	From	To					

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				.	1450.		
SURFACE CASING	Unknown		9.625	9.001	32.3		I-80	.	1450.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe	9.625	1	WTF	1448	Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar	9.625	1	WTF	1410.5	Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	HES
Stage Tool										Centralizers	9.625	11	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
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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	5	
2	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	205.0	sacks	12.3	2.38	13.75	6	13.75
3	VersaCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	6	11.75
4	Fresh Water Displacement		111.00	bbl	.	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	111	Shut In: Instant		Lost Returns	NONE	Cement Slurry	147	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	15	Actual Displacement	111	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	378
Rates									
Circulating	RIG	Mixing	6	Displacement	10	Avg. Job	5.5		
Cement Left In Pipe	Amount	37.5 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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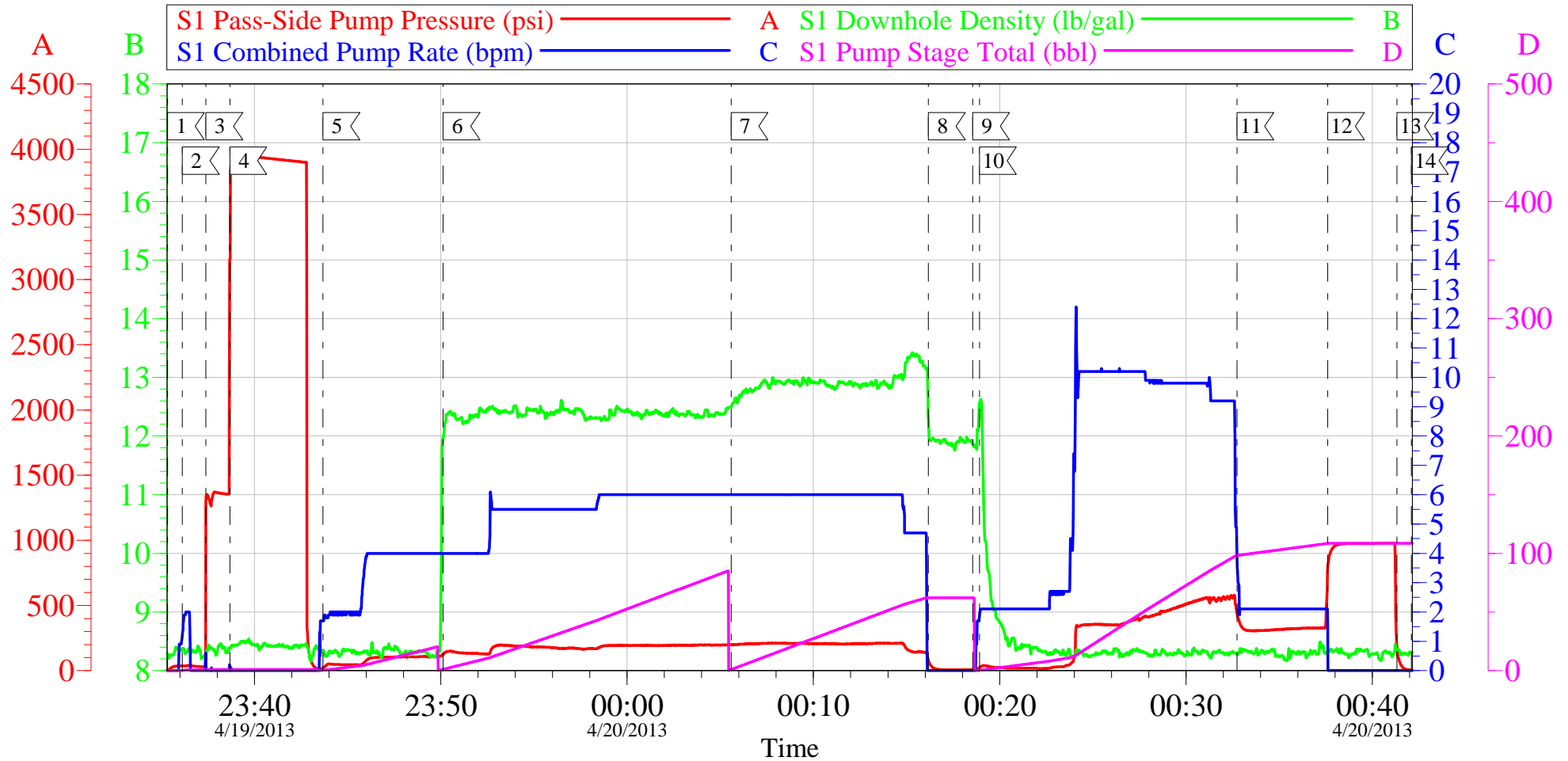
Sold To #: 300721	Ship To #: 2993544	Quote #:	Sales Order #: 900376825
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Hutson, Matt	
Well Name: PA	Well #: 43-2	API/UWI #:	
Field: RULISON	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat:		Long:	
Contractor: 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	
Pump Tail Cement	04/19/2013 00:05		6	60			210.0	160 SKS, 12.8 PPG, 2.11 FT3/ SK, 11.75 GAL/SK, SETUP TIME 2:38 HRS AT 70 BC
Shutdown	04/19/2013 00:16							
Drop Top Plug	04/19/2013 00:18							PLUG DROP VERIFIED BY DRILLER
Pump Displacement	04/19/2013 00:18		10	101			587.0	
Slow Rate	04/19/2013 00:32		4	10			330.0	
Bump Plug	04/19/2013 00:37			111			970.0	
Check Floats	04/19/2013 00:41							FLOATS HELD
End Job	04/19/2013 00:42							
Post-Job Safety Meeting (Pre Rig-Down)	04/19/2013 00:43							ALL HES PERSONEL
Depart Location for Service Center or Other Site	04/19/2013 02:00							
Other	04/19/2013 02:01							THANK YOU FOR CHOOSING HALLIBURTON, JAVIER CASTILLO AND CREW
Pre-Convoy Safety Meeting	04/19/2013 19:50							ALL HES PERSONEL/ CALL OUT TIME 18:00 - ON LOCATION AT 22:00 HRS
Crew Leave Yard	04/19/2013 20:00							
Arrive At Loc	04/19/2013 21:30							DRILLING RIG LANDED CASING AT 22:00 HRS

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Assessment Of Location Safety Meeting	04/19/2013 21:45							ALL HES PERSONEL
Rig-Up Equipment	04/19/2013 21:55							
Rig-Up Completed	04/19/2013 23:00							
Pre-Job Safety Meeting	04/19/2013 23:15							ALL HES PERSONEL AND RIG CREW
Start Job	04/19/2013 23:35							TD-1463', TP-1448', SJ-37.50', FC-1410.50', CSG-9.625", 32.3#, H-40, OH-13.5", MUD-10.2 PPG, VISC-76
Other	04/19/2013 23:36		2	2			39.0	FILL LINES
Other	04/19/2013 23:37		0.2	0.2				STALL OUT/PRESSURE HELD AT 1370 PSI
Pressure Test	04/19/2013 23:38		0.2	0.2				ALL LINES HELD PRESSURE AT 3948 PSI
Pump Spacer 1	04/19/2013 23:43		6	20			170.0	FRESH WATER/FIRST 10 BBLS WERE PUMPED AT 4 BPM WITH 110 PSI
Pump Lead Cement	04/19/2013 23:50		6	87			87.0	205 SKS, 12.3 PPG, 2.38 FT3/SK, 13.75 GAL/SK, SETUP TIME 2:38 HRS AT 70 BC

WPX PA 43-2

9 5/8 SURFACD



Local Event Log

1	START JOB	4/19/2013 23:35:19	2	FILL LINES	4/19/2013 23:36:07	3	STALL OUT	4/19/2013 23:37:23
4	TEST LINES	4/19/2013 23:38:40	5	WATER SPACER	4/19/2013 23:43:40	6	LEAD SLURRY	4/19/2013 23:50:07
7	TAIL SLURRY	4/20/2013 00:05:35	8	SHUTDOWN	4/20/2013 00:16:10	9	DROP PLUG	4/20/2013 00:18:33
10	DISPLACEMENT	4/20/2013 00:18:55	11	SLOW RATE	4/20/2013 00:32:44	12	BUMP PLUG	4/20/2013 00:37:36
13	CHECK FLOATS	4/20/2013 00:41:19	14	END JOB	4/20/2013 00:42:06			

Customer: WPX
Well Description: PA 43-2
Company Rep: MATT HUTSON

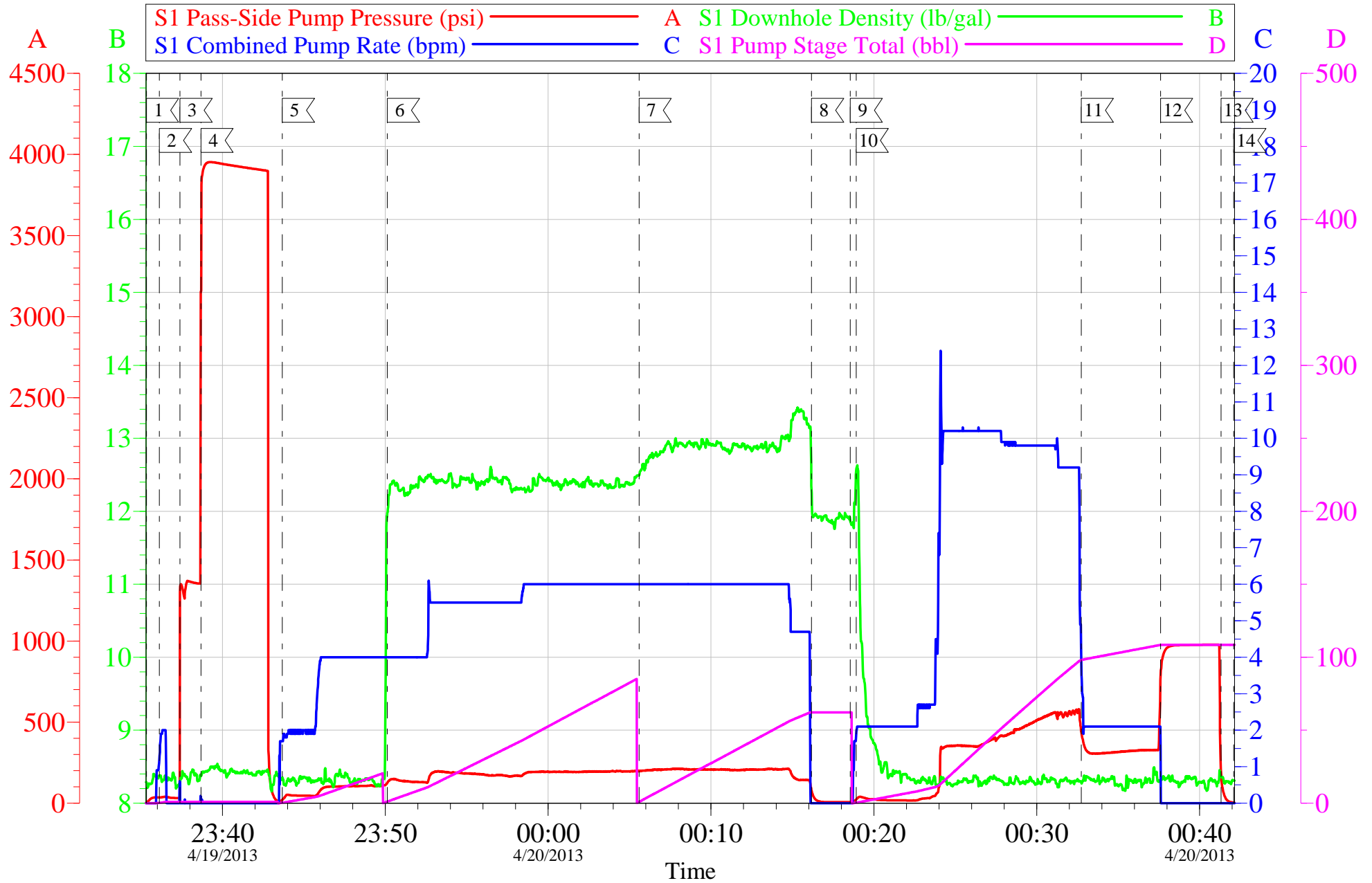
Job Date: 19-Apr-2013
Job Type: SURFACE
Cement Supervisor: JAVIER CASTILLO

Sales Order #: 900376825
ADC Used: YES
Elite #3: DAN SINCLAIR

OptiCem v6.4.10
20-Apr-13 00:55

WPX PA 43-2

9 5/8 SURFACD



Customer: WPX
Well Description: PA 43-2
Company Rep: MATT HUTSON

Job Date: 19-Apr-2013
Job Type: SURFACE
Cement Supervisor: JAVIER CASTILLO

Sales Order #: 900376825
ADC Used: YES
Elite #3: DAN SINCLAIR

OptiCem v6.4.10
20-Apr-13 00:55

HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: JAVIER CASTILLO

Attention: J.Trout

Lease PA

Well # 43-2

Date: 4/19/2013

Date Rec.: 4/19/2013

S.O.# 900376825

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	200 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>	200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	60 Deg
Total Dissolved Solids		200 Mg / L

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 if

Sales Order #: 900376825	Line Item: 10	Survey Conducted Date: 4/20/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: MATT HUTSON		API / UWI: (leave blank if unknown) AFEY0NXMYGKQTVDPAAA
Well Name: PA		Well Number: 43-2
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	4/20/2013
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	MATT HUTSON
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

Sales Order #: 900376825	Line Item: 10	Survey Conducted Date: 4/20/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: MATT HUTSON		API / UWI: (leave blank if unknown) AFEY0NXMYGKQTVDPAAA
Well Name: PA		Well Number: 43-2
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	4/20/2013
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)	4.5
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

Sales Order #: 900376825	Line Item: 10	Survey Conducted Date: 4/20/2013
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Customer Representative: MATT HUTSON		API / UWI: (leave blank if unknown) AFEY0NXMYGKQTVDPAAA
Well Name: PA		Well Number: 43-2
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