
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**PA 34-2
Parachute
Garfield County , Colorado**

Squeeze Perfs
23-May-2013

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2977959	Quote #:	Sales Order #: 900460331
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep:		
Well Name: PA	Well #: 34-2	API/UWI #: 05-045-20886	
Field: Parachute	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.466 deg. OR N 39 deg. 27 min. 57.618 secs.	Long: W 107.954 deg. OR W -108 deg. 2 min. 45.409 secs.		
Contractor: WORKOVER	Rig/Platform Name/Num: Workover		
Job Purpose: Squeeze Perfs			
Well Type: Development Well	Job Type: Squeeze Perfs		
Sales Person: MAYO, MARK	Srvc Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BRENNECKE, ANDREW Bailey	13.0	486345	HONE, AARON D	13.0	381285	JAMISON, PRICE W	13.0	229155
SMITH, CHRISTOPHER Scott	13.0	452619	WOLFE, JON P	13.0	485217			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
	60 mile	10001431	60 mile	10969711	60 mile	11259884	60 mile
11710582	60 mile	11808849	60 mile	12037685	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							Date	Time	Time Zone
Formation Depth (MD)	Top			Bottom		Called Out	23 - May - 2013	03:00	MST
Form Type			BHST			On Location	23 - May - 2013	07:00	MST
Job depth MD	3810. ft		Job Depth TVD	3810. ft		Job Started	23 - May - 2013	09:21	MST
Water Depth			Wk Ht Above Floor	3. ft		Job Completed	23 - May - 2013	10:32	MST
Perforation Depth (MD)	From			To		Departed Loc	23 - May - 2013	20:00	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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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

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	Injection Test		5.00	bbl	.	.0	.0	.0		
2	SUPER FLUSH 101	SUPER FLUSH 101 - SBM (12199)	20.00	bbl	10.	.0	.0	.0		
3	Fresh Water Spacer		5.00	bbl	.	.0	.0	.0		
4	Squeeze Lead Cement	SQUEEZECEM (TM) SYSTEM (452971)	150.0	sacks	15.8	1.15	4.98		4.98	
4.98 Gal		FRESH WATER								
5	SqueezeCem Tail Cement	SQUEEZECEM (TM) SYSTEM (452971)	50.0	sacks	17.	.99	3.77		3.77	
3.77 Gal		FRESH WATER								
6	Displacement		14.00	bbl	.	.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						

The Road to Excellence Starts with Safety

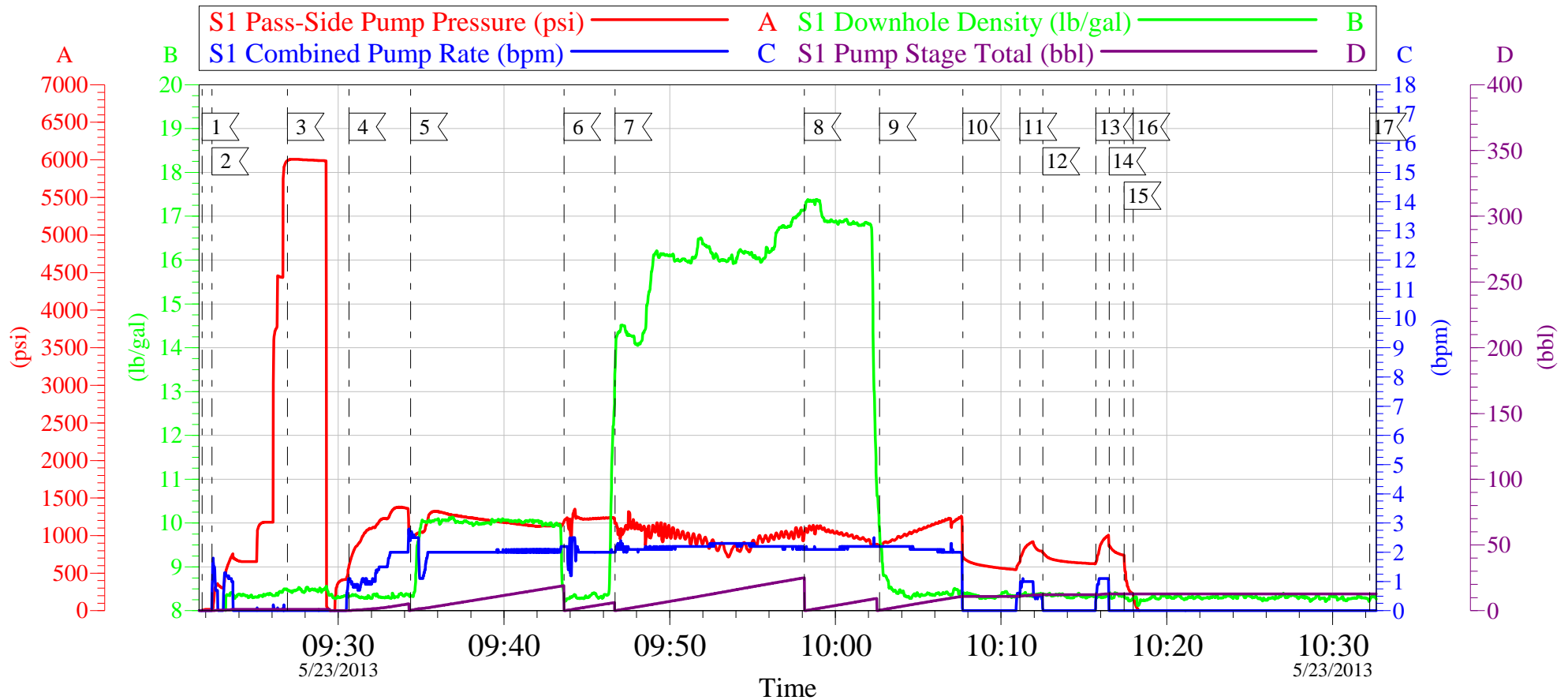
Sold To #: 300721	Ship To #: 2977959	Quote #:	Sales Order #: 900460331
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep:		
Well Name: PA	Well #: 34-2	API/UWI #: 05-045-20886	
Field: Parachute	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.466 deg. OR N 39 deg. 27 min. 57.618 secs.		Long: W 107.954 deg. OR W -108 deg. 2 min. 45.409 secs.	
Contractor: WORKOVER		Rig/Platform Name/Num: Workover	
Job Purpose: Squeeze Perfs			Ticket Amount:
Well Type: Development Well		Job Type: Squeeze Perfs	
Sales Person: MAYO, MARK		Srv Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	05/23/2013 03:00							REQUESTED ON LOCATION AT 08:00
Depart Yard Safety Meeting	05/23/2013 06:25							ALL HES PRESENT
Crew Leave Yard	05/23/2013 06:30							
Arrive At Loc	05/23/2013 07:26							RIG RUNNING TUBING
Assessment Of Location Safety Meeting	05/23/2013 07:30							ALL HES PRESENT
Pre-Rig Up Safety Meeting	05/23/2013 08:15							ALL HES PRESENT
Pre-Job Safety Meeting	05/23/2013 09:15							ALL HES PRESENT
Start Job	05/23/2013 09:21							BP 4019', PERFS 3 @ 3810', RET 3711', CSG 4.5" 11.6#, TUB 2.375 4.7#, WF 8.5 PPG, BACK SIDE 700PSI, PREVIOUS INJECTION TEST 2 BPM @ 1300PSI,
Prime Pumps	05/23/2013 09:22		2	2		734.0		FRESH WATER
Test Lines	05/23/2013 09:26		0.5	0.5				PRESSURED UP TO 6008 PSI
Injection Test	05/23/2013 09:30		2	5		1224.0		FRESH WATER
Pump Spacer 1	05/23/2013 09:34		2	20		1200.0		SUPER FLUSH
Pump Spacer 2	05/23/2013 09:43		2	5		1200.0		FRESH WATER
Pump Lead Cement	05/23/2013 09:46		2	30.7		1090.0		150 SKS, 15.8 PPG, 1.15 FT3/SK, 4.98GAL/SK

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	05/23/2013 09:58		2	8.8		865.0		50 SKS, 17.0 PPG, .99 FT3/SK, 3.77GAL/SK
Pump Displacement	05/23/2013 10:02		2	12.25		1253.0		FRESH WATER
Stage Cement	05/23/2013 10:07					650.0		HESITATE
Pump Displacement	05/23/2013 10:11		1	13.25		1073.0		
Stage Cement	05/23/2013 10:12					672.0		HESITATE
Pump Displacement	05/23/2013 10:15		1	14.25		1000.0		
Shutdown	05/23/2013 10:16							
Other	05/23/2013 10:17							RIG STING OUT
Release Tubing Pressure	05/23/2013 10:17							
Reverse Circ Well	05/23/2013 10:19		2.5	28		500.0		RIG REVERSED OUT 28 BBLS OF WELL FLUID 1 BBL OF CEMENT
End Job	05/23/2013 10:32							CEMENT PUMP ON STAND BY TO REVERSE OUT IF NEEDED, RIG WAS GIVEN 40 LBS OF SUGAR
Depart Location Safety Meeting	05/23/2013 11:50							ALL HES PRESENT
Crew Leave Location	05/23/2013 12:00							THANKS FOR USING HALLIBURTON CHRIS SMITH & CREW

WPX PA 34-2

SQUEEZE



Local Event Log					
1	START JOB	09:21:48	2	FILL LINES	09:22:22
3	TEST LINES	09:26:56			
4	INJECTION TEST	09:30:38	5	SUPER FLUSH	09:34:22
6	H2O SPACER	09:43:37			
7	LEAD CEMENT	09:46:42	8	TAIL CEMENT	09:58:07
9	PUMP DISPLACEMENT	10:02:40			
10	STAGE CEMENT	10:07:42	11	PUMP DISPLACEMENT	10:11:08
12	STAGE CEMENT	10:12:31			
13	PUMP DISPLACEMENT	10:15:43	14	SHUT DOWN	10:16:31
15	RIG STING OUT	10:17:26			
16	RELEASE PRESSURE	10:17:58	17	END JOB	10:32:14

Customer: WPX
Well Description: PA 34-2
Supervisor: C. SMITH

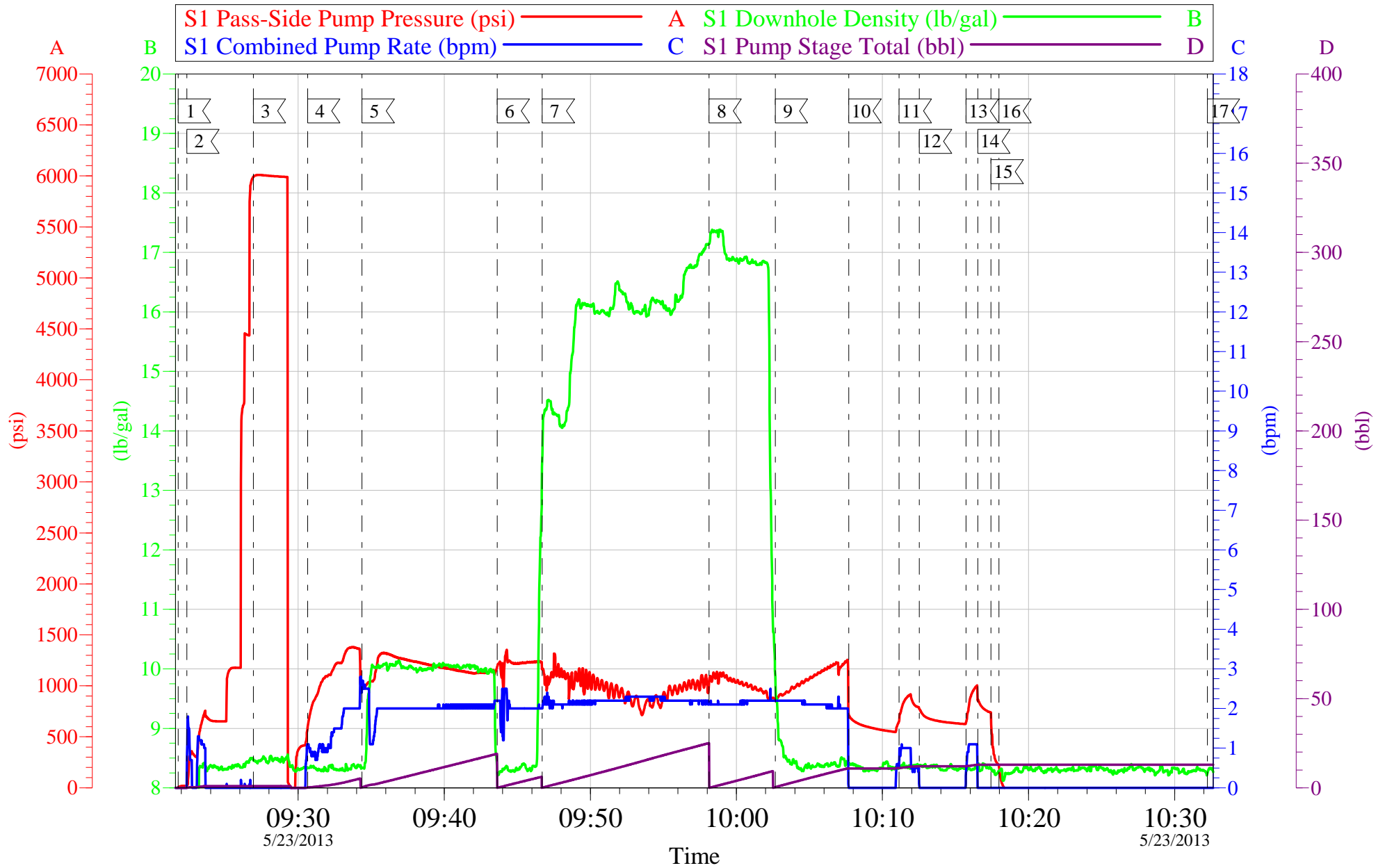
Job Date: 23-May-2013
Job Type: SQUEEZE
Operator: J. WOLFE

Sales Order #: 900460331
CO.REP: O. JACKOBS
Pump #: 9

OptiCem v6.4.10
23-May-13 11:18

WPX PA 34-2

SQUEEZE



Customer: WPX
Well Description: PA 34-2
Supervisor: C. SMITH

Job Date: 23-May-2013
Job Type: SQUEEZE
Operator: J. WOLFE

Sales Order #: 900460331
CO.REP: O. JACKOBS
Pump #: 9

OptiCem v6.4.10
23-May-13 11:18

HALLIBURTON

Water Analysis Report

Company: WILLIAMS PRODUCTION

Submitted by: BILL JAMISON

Attention: J.Trout

Lease PA

Well # 33-2

Date: 5/6/2013

Date Rec.: 5/6/2013

S.O.# 900414906

Job Type: PRODUCTION

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	6.5
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>	200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	60 Deg
Total Dissolved Solids		370 Mg / L

Respectfully: BILL JAMISON

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 #: 900460331	Line Item: 10	Survey Conducted Date: 5/23/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20886
Well Name: PA		Well Number: 34-2
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	5/23/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHRISTOPHER SMITH (HB20137)
Customer Participation	Did the customer participate in this survey? (Y/N)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

CUSTOMER SIGNATURE

Sales Order #: 900460331	Line Item: 10	Survey Conducted Date: 5/23/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20886
Well Name: PA		Well Number: 34-2
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	5/23/2013
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
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)	2
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	7
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)	No

Sales Order #: 900460331	Line Item: 10	Survey Conducted Date: 5/23/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20886
Well Name: PA		Well Number: 34-2
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.	
Was this a Plug or a Squeeze Job? Please select the appropriate choice	No
Was this a Primary or a Remedial Job? Kick off plug, Plug to Abandon, LCM plug or Planned Liner Top Squeeze, Squeeze of existing perforations, Squeeze of casing leak	No
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	91
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	90
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

Job Information

Request/Slurry	2040528/1	Rig Name	Workover	Date	22/MAY/2013
Submitted By	Charles Ross	Job Type	Perforation Squeeze	Bulk Plant	Grand Junction
Customer	WPX Energy, Inc.	Location	Garfield	Well	PA 34-2

Well Information

Casing/Liner Size	4.5"	Depth MD	3810 ft	BHST	145 degF
Hole Size	8.75"	Depth TVD		BHCT	122 degF

Drilling Fluid Information

Mud Supplier Name	Mud Trade Name	Density
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Cement Information - Lead Design

Cement/Additive	Sample Type	Sample Date	Lot No.	Cement Properties		
Mountain G	Bulk Blend	23.05.13	Tank 29	Slurry Density	15.798	lbm/gal
HALAD-344 (PB)	Bulk Blend	23.05.13	b413067	Slurry Yield	1.15	ft3/sack
			b	Water Requirement	4.98	gal/sack
				Total Mix Fluid	4.98	gal/sack
HALAD-413 (PB)	Bulk Blend	23.05.13	zm2k019			
			8ao			
Fresh Water	Lab	12.03.13	N/A			
				Water Source	Fresh Water	
				Water Chloride		

Operation Test Results Request ID 2040528/1

API Fluid Loss

Test Temp (°F)	Test Pressure (psi)	Test Time (min)	Meas. Vol.	Calc. ISO FL (<30 min)	Conditioning time (min)
122	1000	8.2	45	172	30

Mixability (0 - 5) - 0 is not mixable

Mixability rating (0 - 5)	Avg rpm mixing under load
4	12000

Thickening Time - ON-OFF-ON

Test Temp (°F)	Pressure (psi)	Reached in (min)	30 Bc (hh:min)	50 Bc (hh:min)	70 Bc (hh:min)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
122	2840	9	1:34	1:43	1:47	7	30	10	7

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HALLIBURTON

Rockies, Grand Junction

Lab Results- Tail

Job Information

Request/Slurry	2040530/1	Rig Name	Workover	Date	22/MAY/2013
Submitted By	Charles Ross	Job Type	Perforation Squeeze	Bulk Plant	Grand Junction
Customer	WPX Energy, Inc.	Location	Garfield	Well	PA 34-2

Well Information

Casing/Liner Size	4.5"	Depth MD	3810 ft	BHST	145 degF
Hole Size	8.75"	Depth TVD		BHCT	122 degF

Drilling Fluid Information

Mud Supplier Name	Mud Trade Name	Density
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Cement Information - Tail Design

Cement/Additive	Sample Type	Sample Date	Lot No.	Cement Properties		
Mountain G	Bulk Blend	23.05.13	Tank 29	Slurry Density	17.000	lbm/gal
CFR-3 (PB)	Bulk Blend	23.05.13	8042012	Slurry Yield	0.99	ft3/sack
			03	Water Requirement	3.77	gal/sack
				Total Mix Fluid	3.77	gal/sack
Fresh Water	Lab	12.03.13	N/A			

Water Source Fresh Water
Water Chloride

Operation Test Results Request ID 2040530/1

Mixability (0 - 5) - 0 is not mixable

Mixability rating (0 - 5)	Avg rpm mixing under load	Blend add. time (sec)
4	12000	0

Thickening Time - ON-OFF-ON

Test Temp (°F)	Pressure (psi)	Reached in (min)	30 Bc (hh:min)	50 Bc (hh:min)	70 Bc (hh:min)	100 Bc (hh:min)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
122	2840	9	1:50	1:54	1:58	2:04	10	30	10	10

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