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**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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**KP 514-18  
KOKOPELLI  
Garfield County , Colorado**

**Squeeze Perfs  
12-Oct-2012**

**Post Job Report**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300721	<b>Ship To #:</b> 2939008	<b>Quote #:</b>	<b>Sales Order #:</b> 9826919
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Customer Rep:</b> Brady, Jeff	
<b>Well Name:</b> KP		<b>Well #:</b> 514-18	<b>API/UWI #:</b> 05-045-20629
<b>Field:</b> KOKOPELLI	<b>City (SAP):</b> RIFLE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.522 deg. OR N 39 deg. 31 min. 19.87 secs.		<b>Long:</b> W 107.595 deg. OR W -108 deg. 24 min. 19.13 secs.	
<b>Contractor:</b> WORKOVER		<b>Rig/Platform Name/Num:</b> WORKOVER	
<b>Job Purpose:</b> Squeeze Perfs			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Squeeze Perfs	
<b>Sales Person:</b> MAYO, MARK		<b>Srvc Supervisor:</b> SLAUGHTER, JESSE <b>MBU ID Emp #:</b> 454315	

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BURKE, BRENDAN Patrick	4	487782	HYDE, DUSTIN C	4	453940	SLAUGHTER, JESSE Dean	4	454315

**Equipment**

HES Unit #	Distance-1 way						
10248065	60 mile	10567589C	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
10-12-2012	4	4						
<b>TOTAL</b>			<i>Total is the sum of each column separately</i>					

**Job**

**Job Times**

Formation Name	Date	Time	Time Zone
<b>Formation Depth (MD)</b> Top Bottom	<b>Called Out</b>	12 - Oct - 2012	12:30 MST
<b>Form Type</b> BHST	<b>On Location</b>	12 - Oct - 2012	15:30 MST
<b>Job depth MD</b> 5514. ft <b>Job Depth TVD</b> 5514. ft	<b>Job Started</b>	12 - Oct - 2012	16:42 MST
<b>Water Depth</b> <b>Wk Ht Above Floor</b> 4. ft	<b>Job Completed</b>	12 - Oct - 2012	18:27 MST
<b>Perforation Depth (MD)</b> From To	<b>Departed Loc</b>	12 - Oct - 2012	19:30 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/3<sup>rd</sup> Party (HES)**

Description	Qty	Qty uom	Depth	Supplier
ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI	1	JOB		
PORT. DATA ACQUIS. W/OPTICEM RT W/HES	1	EA		
R/A DENSOMETER W/CHART RECORDER,/JOB,ZI	1	JOB		

**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 <sup>3</sup> /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 <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	Injection Test	FRESH WATER	5.00	bbl	8.33	.0	.0	2		
2	SqueezeCem Tail Cement	SQUEEZECEM (TM) SYSTEM (452971)	50.0	sacks	15.8	1.15	4.95	2	4.95	
	4.95 Gal	FRESH WATER								
3	Displacement	FRESH WATER	16.5	bbl	8.33	.0	.0	2		
Calculated Values			Pressures			Volumes				
Displacement	16.5	Shut In: Instant		Lost Returns	NO	Cement Slurry	10.2	Pad		
Top Of Cement	4856	5 Min		Cement Returns	1	Actual Displacement	18.7	Treatment		
Frac Gradient		15 Min		Spacers	5	Load and Breakdown		Total Job	34	
Rates										
Circulating		Mixing	2	Displacement	2	Avg. Job	2			
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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<b>Field:</b> KOKOPELLI	<b>City (SAP):</b> RIFLE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 39.522 deg. OR N 39 deg. 31 min. 19.87 secs.		<b>Long:</b> W 107.595 deg. OR W -108 deg. 24 min. 19.13 secs.	
<b>Contractor:</b> WORKOVER		<b>Rig/Platform Name/Num:</b> WORKOVER	
<b>Job Purpose:</b> Squeeze Perfs			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Squeeze Perfs	
<b>Sales Person:</b> MAYO, MARK		<b>Srvc Supervisor:</b> SLAUGHTER, JESSE	<b>MBU ID Emp #:</b> 454315

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/12/2012 12:30							TP 5514 FT, TUB 2 3/8 IN 4.7 LB/FT, CSG 4 1/2 IN 11.6 LB/FT, PERF 5458 FT, CSG HOLE AROUND 5422 FT AS PER COMPANY REP, WF 8.33 PPG
Pre-Convoy Safety Meeting	10/12/2012 13:50							WITH ALL HES PERSONNEL
Crew Leave Yard	10/12/2012 14:00							
Arrive At Loc	10/12/2012 15:30							RIG WAS STATIC UPON HES ARRIVAL
Assessment Of Location Safety Meeting	10/12/2012 15:40							WITH ALL HES PERSONNEL
Other	10/12/2012 15:45							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	10/12/2012 15:50							WITH ALL HES PERSONNEL
Rig-Up Equipment	10/12/2012 15:55							
Pre-Job Safety Meeting	10/12/2012 16:35							WITH ALL PERSONNEL ON LOCATION
Start Job	10/12/2012 16:42							
Other	10/12/2012 16:42		1	1.5			106.0	FILL LINES WITH FRESH WATER
Test Lines	10/12/2012 16:44							TESTED LINES TO 4913 PSI PRESSURE HOLDING
Pump Spacer 1	10/12/2012 16:50		2	5			380.0	FRESH WATER AHEAD
Shutdown	10/12/2012 16:53							SHUTDOWN TO MIX TUB OF CEMENT
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl		Pressure psig		Comments

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Quote # :

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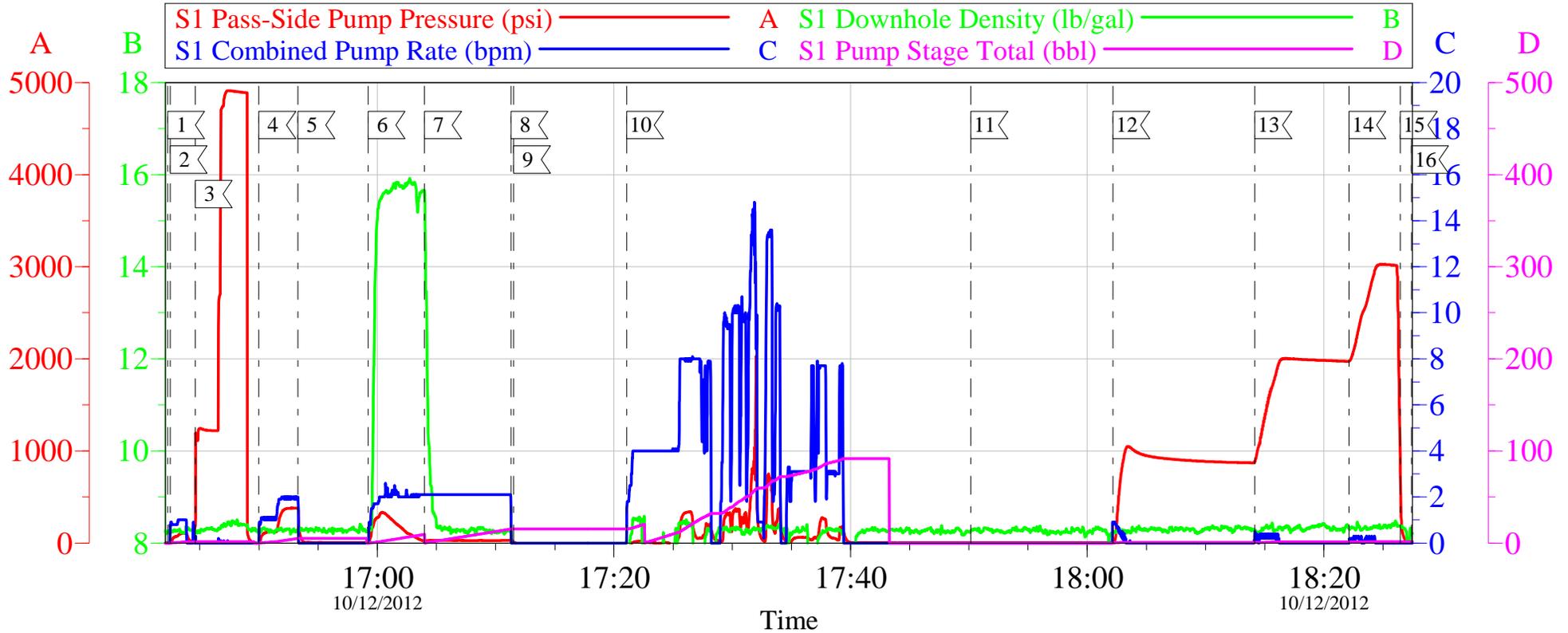
SUMMIT Version: 7.3.0040

Monday, October 15, 2012 01:57:00

		#		Stage	Total	Tubing	Casing	
Pump Tail Cement	10/12/2012 16:59		2	10.2			22.0	50 SKS AT 15.8 PPG, 1.15 FT <sup>3</sup> /SK, 4.95 GAL/SK
Pump Displacement	10/12/2012 17:03		2	16.5			29.0	FRESH WATER BEHIND
Shutdown	10/12/2012 17:11							SHUTDOWN TO OBSERVE BALANCE
Other	10/12/2012 17:11							WAIT ON RIG TO PULL PIPE AT 30 FT/MIN
Clean Lines	10/12/2012 17:21							WASH PUMPS AND LINES TO RIG TANK
Reverse Circ Well	10/12/2012 17:50							RIG REVERSE CIRCULATED WELL, RIG RETURNED 1 BBL CEMENT TO SURFACE
Pump Water	10/12/2012 18:02		0.5	1			1050. 0	HESITATE #1 SHUTDOWN DUE TO PRESSURE BACKING OFF, WAITED 10 MINUTES AS PER COMPANY REP
Pump Water	10/12/2012 18:14		0.5	0.5			2000. 0	HESITATE #2 SHUTDOWN AT 2000 PSI AND WAITED FOR 5 MINUTES AS PER COMPANY REP
Pump Water	10/12/2012 18:22		0.5	0.5	2		3000. 0	HESITATE #3 SHUTDOWN AT 3000 PSI PRESSURE HOLDING, RELEASED AS PER COMPANY REP
End Job	10/12/2012 18:27							NO SQUEEZE MANIFOLD USED, HES USED 50 LB SUGAR
Pre-Rig Down Safety Meeting	10/12/2012 18:30							WITH ALL HES PERSONNEL
Rig-Down Equipment	10/12/2012 18:40							
Pre-Convoy Safety Meeting	10/12/2012 19:20							WITH ALL HES PERSONNEL
Crew Leave Location	10/12/2012 19:30							
Comment	10/12/2012 19:31							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. JESSE SLAUGHTER AND CREW

# WPX KP 514-18

## SQUEEZE

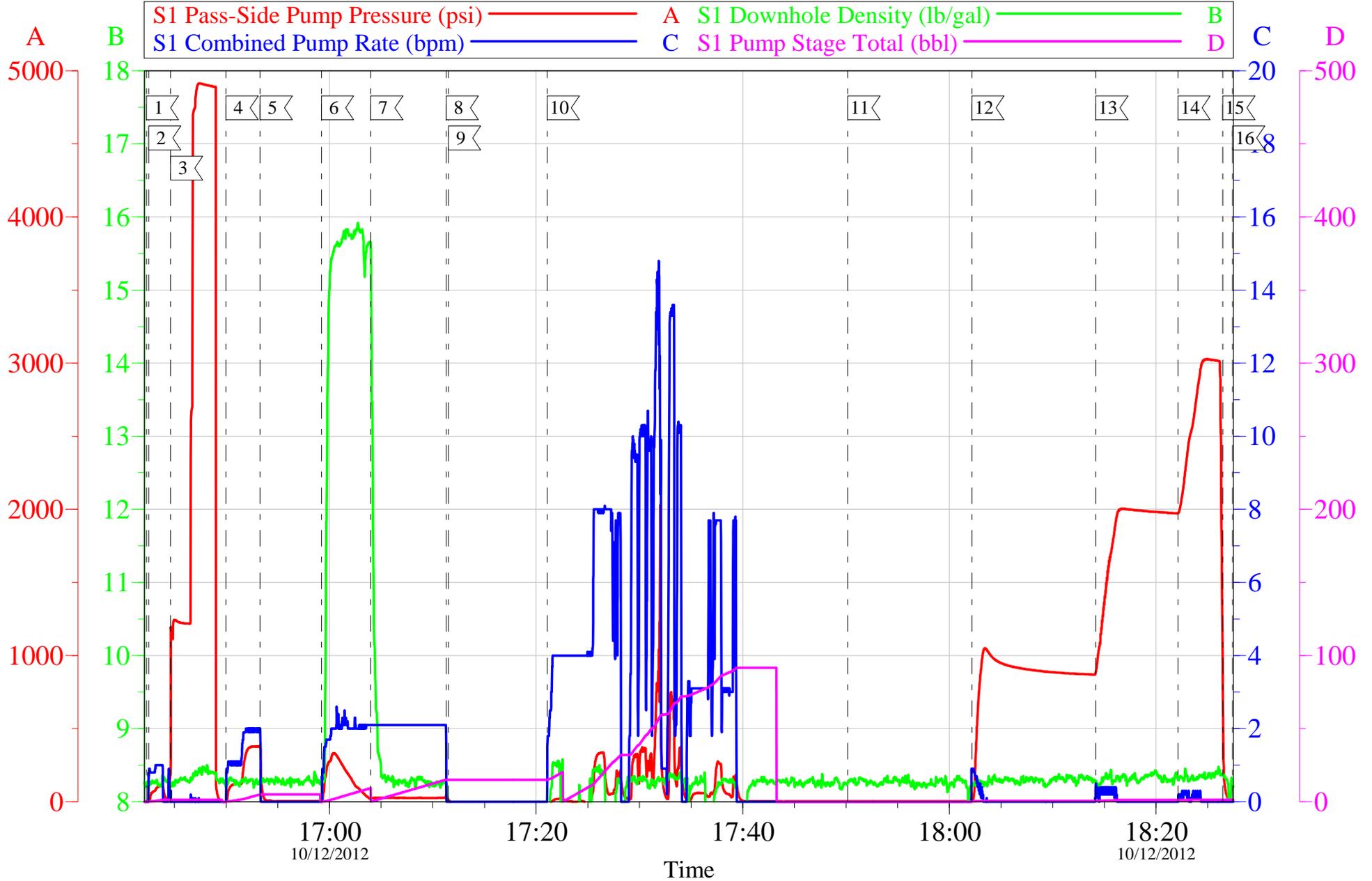


1	START JOB	16:42:17	2	PRIME LINES	16:42:30
3	TEST LINES	16:44:37	4	PUMP H2O SPACER AHEAD	16:50:00
5	SHUTDOWN TO MIX TUB	16:53:18	6	PUMP CEMENT	16:59:13
7	PUMP H2O SPACER BEHIND	17:03:59	8	SHUTDOWN	17:11:18
9	WAIT ON RIG TO PULL STANDS	17:11:31	10	CLEAN PUMPS AND LINES	17:21:04
11	RIG REVERSE OUT	17:50:10	12	PUMP H2O #1	18:02:10
13	HESITATE #2	18:14:10	14	HESITATE #3	18:22:08
15	RELEASE PSI	18:26:27	16	END JOB	18:27:25

Customer: WPX	Job Date: 12-Oct-2012	Sales Order #: 9826919
Well Description: KP 514-18	Job Type: SQUEEZE	ADC Used: YES
Customer Rep: JEFF BRADY	Cement Supervisor: JESSE SLAUGHTER	Elite #3: BRENDAN BURKE

# WPX KP 514-18

## SQUEEZE



Customer: WPX	Job Date: 12-Oct-2012	Sales Order #: 9826919
Well Description: KP 514-18	Job Type: SQUEEZE	ADC Used: YES
Customer Rep: JEFF BRADY	Cement Supervisor: JESSE SLAUGHTER	Elite #3: BRENDAN BURKE

# HALLIBURTON

## Water Analysis Report

Company: WILLIAMS PRODUCTION

Date: 10/12/2012

Submitted by: JESSE SLAUGHTER

Date Rec.: \_\_\_\_\_

Attention: LAB

S.O.# 9826919

Lease KP

Job Type: SQUEEZE

Well # 514-18

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>250 Mg / L</b>
Calcium (Ca)	<i>500</i>	<b>120 Mg / L</b>
Iron (FE2)	<i>300</i>	<b>0 Mg / L</b>
Chlorides (Cl)	<i>3000</i>	<b>500 Mg / L</b>
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>UNDER 200 Mg / L</b>
Chlorine (Cl <sub>2</sub> )		<b>0 Mg / L</b>
Temp	<i>40-80</i>	<b>70 Deg</b>
Total Dissolved Solids		<b>410 Mg / L</b>

Respectfully: JESSE SLAUGHTER

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

<b>Sales Order #:</b> 9826919	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 10/12/2012
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SQUEEZE PERFORATIONS BOM
<b>Customer Representative:</b> JEFF BRADY		<b>API / UWI: (leave blank if unknown)</b> 05-045-20629
<b>Well Name:</b> KP		<b>Well Number:</b> 514-18
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> 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	10/12/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	JESSE SLAUGHTER (HB21762)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	JEFF BRADY
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	GREAT JOB

<b>CUSTOMER SIGNATURE</b>
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<b>Customer Representative:</b> JEFF BRADY		<b>API / UWI: (leave blank if unknown)</b> 05-045-20629
<b>Well Name:</b> KP		<b>Well Number:</b> 514-18
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	10/12/2012
The date the survey was conducted	

Cementing KPI Survey	
<b>Type of Job</b>	0
Select the type of job. (Cementing or Non-Cementing)	
<b>Select the Maximum Deviation range for this Job</b>	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
<b>Total Operating Time (hours)</b>	4
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
<b>HSE Incident, Accident, Injury</b>	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
<b>Was the job purpose achieved?</b>	Yes
Was the job delivered correctly as per customer agreed design?	
<b>Operating Hours (Pumping Hours)</b>	2
Total number of hours pumping fluid on this job. Enter in decimal format.	
<b>Customer Non-Productive Rig Time (hrs)</b>	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.	
<b>Type of Rig Classification Job Was Performed</b>	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
<b>Number Of JSAs Performed</b>	6
Number Of Jsas Performed	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Was this a Primary Cement Job (Yes / No)</b>	No

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<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Was this a Plug or a Squeeze Job?</b> Please select the appropriate choice	No
<b>Was this a Primary or a Remedial Job?</b> Kick off plug, Plug to Abandon, LCM plug or Planned Liner Top Squeeze, Squeeze of existing perforations, Squeeze of casing leak	No
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	95
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> 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	100
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	1
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	1