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**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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**KP 18-213D  
KOKOPELLI  
Garfield County , Colorado**

**Squeeze Perfs  
01-Dec-2012**

**Post Job Report**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300721	<b>Ship To #:</b> 2829290	<b>Quote #:</b>	<b>Sales Order #:</b> 9932719
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Customer Rep:</b> Ebberson, Doug	
<b>Well Name:</b> KP		<b>Well #:</b> 18-213D	<b>API/UWI #:</b> 05-045-16264
<b>Field:</b> KOKOPELLI	<b>City (SAP):</b> SILT	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.522 deg. OR N 39 deg. 31 min. 20.132 secs.		<b>Long:</b> W 107.595 deg. OR W -108 deg. 24 min. 19.105 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>		<b>Srvc Supervisor:</b> KUKUS, CHRISTOPHER	<b>MBU ID Emp #:</b> 413952

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BLANCHETTE, JAMES George	0.0	371360	GOWEN, WESLEY M	0.0	496205	HYDE, DUSTIN C	0.0	453940
KUKUS, CHRISTOPHER A	0.0	413952	MILLER II, MATTHEW Reginald	0.0	425164			

**Equipment**

HES Unit #	Distance-1 way						
10616651C	60 mile	10784080	60 mile	10995025	60 mile	11164589	60 mile
11583931	60 mile	11808827	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**

**Job Times**

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
<b>Form Type</b>	BHST		<b>On Location</b>	01 - Dec - 2012	06:00	MST
<b>Job depth MD</b>	1560. ft	<b>Job Depth TVD</b>	1560. ft	<b>Job Started</b>	01 - Dec - 2012	10:11
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>	5. ft	<b>Job Completed</b>	01 - Dec - 2012	13:35
<b>Perforation Depth (MD)</b>	<i>From</i>	<i>To</i>	<b>Departed Loc</b>	01 - Dec - 2012	15:30	MST

**Well Data**

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbf/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft

**Sales/Rental/3<sup>rd</sup> Party (HES)**

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

<b>Stage/Plug #:</b> 1
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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		20.00	bbl	8.33	.0	.0	.0	
2	Lead Cement	SQUEEZECM (TM) SYSTEM (452971)	150.0	sacks	16.2	1.09	4.55		4.55
	4.55 Gal	FRESH WATER							
3	Tail Cement	SQUEEZECM (TM) SYSTEM (452971)	50.0	sacks	17.	.99	3.77		3.77
	3.77 Gal	FRESH WATER							
4	Displacement		5.00	bbl	8.33	.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					

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<b>Well Name:</b> KP		<b>Well #:</b> 18-213D	<b>API/UWI #:</b> 05-045-16264
<b>Field:</b> KOKOPELLI	<b>City (SAP):</b> SILT	<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. 20.132 secs.		<b>Long:</b> W 107.595 deg. OR W -108 deg. 24 min. 19.105 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>		<b>Srvc Supervisor:</b> KUKUS, CHRISTOPHER	<b>MBU ID Emp #:</b> 413952

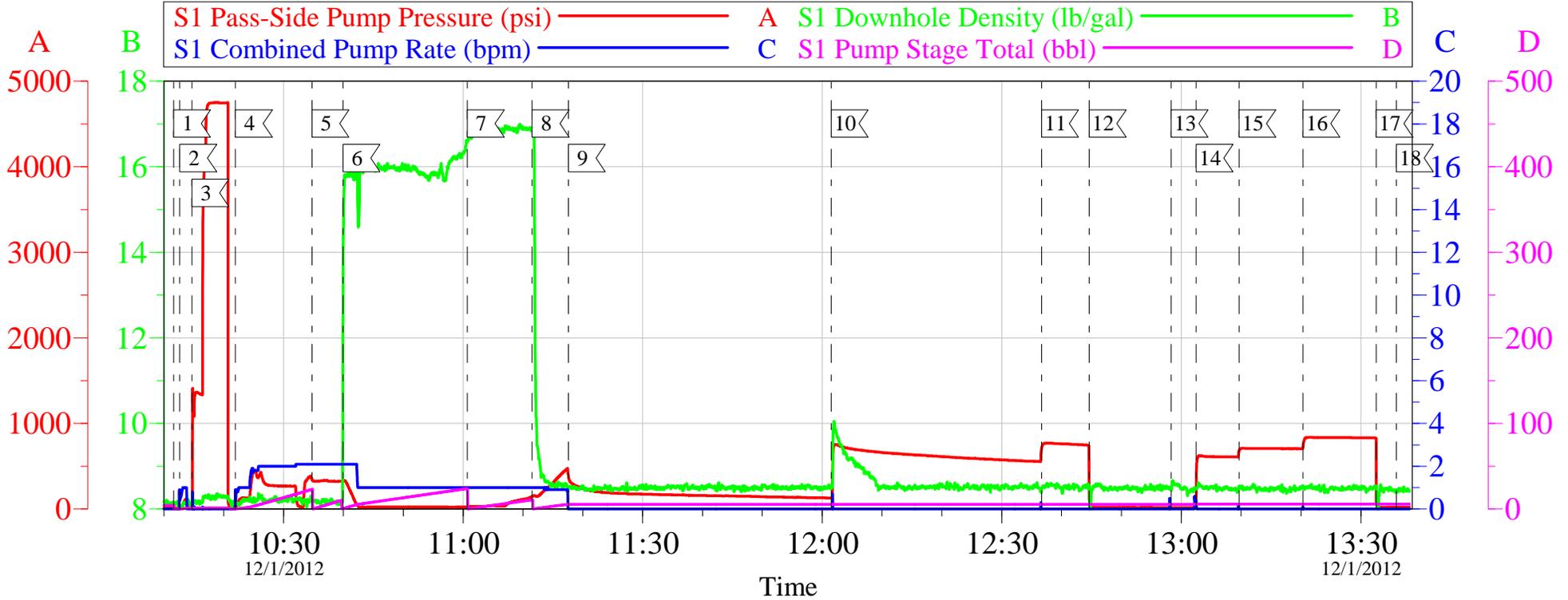
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/01/2012 02:00							ELITE # 4
Depart Yard Safety Meeting	12/01/2012 04:00							SAFETY MEETING WITH ALL HES
Arrive At Loc	12/01/2012 06:00							ARRIVED ON LOCATION 2 HOURS EARLY DIDNT START CHARGING TIME UNTIL REQUESTED ON LOCATION TIME
Assessment Of Location Safety Meeting	12/01/2012 06:10							RIG RIH WITH TUBING
Pre-Rig Up Safety Meeting	12/01/2012 06:15							ALL HES EMPLOYEES
Rig-Up Equipment	12/01/2012 06:20							1 F-550 PICKUP 1 HT-400 PUMP TRUCK 1 660 BULK TRUCK
Pre-Job Safety Meeting	12/01/2012 09:50							ALL PERSONNEL ON LOCATION
Start Job	12/01/2012 10:11							RETAINER @ 1460 BRIDGE PLUG @ 1660 44' SAND ONTOP BRIDGE PLUG PERFS @ 1560 - 1561 4 SHOTS PER FOOT TUBING: 2 3/8 4.7 # CSG: 4 1/2 11.6 I-80 SG CSG: 9 5/8 32.3# @ 851 OH: 8 3/4 MAX PSI @ 500
Pressure Test	12/01/2012 10:14					4746.0		PRESSURE TEST OK
Injection Test	12/01/2012 10:21		2	20	20	380.0		PUMP 20 BBL MUD FLUSH INJECTION TEST

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	12/01/2012 10:34		2	10	10	332.0		PUMP FRESH WATER SPACER
Pump Lead Cement	12/01/2012 10:39		1	29.1	29.1	25.0		150 SKS 16.2 PPG 1.09 YEILD 4.55 GAL / SK LEAD CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGH OUT LEAD CEMENT 6 BBLS INTO LEAD CEMENT RATE WAS SLOW TO 1 WELL WAS ON A VACUUM CAUSING A DROP IN DENSITY
Pump Tail Cement	12/01/2012 11:00		1	8.8	8.8	147.0		50 SKS 17PPG .99 YEILD 3.77 GAL / SK TAIL CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGH OUT TAIL CEMENT
Pump Displacement	12/01/2012 11:11		1	5.6	5.6	474.0		FRESH WATER DISPLACEMENT
Shutdown	12/01/2012 11:17					474.0		SHUTDOWN FOR 45MINS TO HESITATE ON WELL
Resume Squeeze	12/01/2012 12:01		0.2	0.1	0.1	130.0		RESUME SQUEEZE
Shutdown	12/01/2012 12:01			5.7	5.7	755.0		SHUTDOWN TO HESITATE
Other	12/01/2012 12:44							RIG STING OUT OF RETAINER
Reverse Circ Well	12/01/2012 12:45							RIG REVERSE OUT THROUGH HES IRON 20 BBLS OF FRESH WATER GOT .5 BBL OF CEMENT TO SURFACE
Other	12/01/2012 12:58							STING BACK INTO RETAINER PER CO REP REQUEST TO RESUME SQUEEZE
Resume Squeeze	12/01/2012 13:02		0.2	0.1	0.1	17.0		RESUME SQUEEZE
Shutdown	12/01/2012 13:03					623.0		SHUTDOWN TO HESITATE
Other	12/01/2012 13:09					710.0		PRESSURE FELL TO 608 BUMP PRESSURE UP TO 710 PER CO REP REQUEST

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Other	12/01/2012 13:20					838.0		PRESSURE FELL TO 705 BUMP PRESSURE UP TO 838 PER CO REP REQUEST
Other	12/01/2012 13:32					832.0		PRESSURE FELL TO 832 STUNG OUT OF RETAINER PER CO REP REQUEST
End Job	12/01/2012 13:35							WELL HAD GOOD CIRCULATION THROUGH OUT JOB RIG SHUT IN BRADEN HEAD PER CO REP REQUEST AT END OF DISPLACEMENT HES FOLLOWED UP BY SQUEEZING ON WELL RIG USED 40 LB'S OF SUGAR
Other	12/01/2012 13:36							TICKET CHANGES: DEPTH CHARGE TO 1560 , CHANGED SUGAR TO 40LB'S , CHANGED ADD HOURS TO 2 TOOK OFF SWAGES CHARGE
Pre-Rig Down Safety Meeting	12/01/2012 13:50							ALL HES EMPLOYEES
Rig-Down Equipment	12/01/2012 14:00							
Pre-Convoy Safety Meeting	12/01/2012 15:20							ALL HES EMPLOYEES
Crew Leave Location	12/01/2012 15:30							THANK YOU FOR USING HALLIBURTON CEMENT CHRIS KUKUS AND CREW

# WPX - KP 18-213D

## SQUEEZE



### Local Event Log

1	START JOB	10:11:38	2	FILL LINES	10:12:40
3	TEST LINES	10:14:41	4	PUMP MUD FLUSH	10:21:58
5	PUMP FRESH WATER	10:34:45	6	PUMP LEAD CEMENT	10:39:56
7	PUMP TAIL CEMENT	11:00:42	8	PUMP FRESH WATER DISPLACEMENT	11:11:33
9	SHUT DOWN / HESITATE	11:17:36	10	RESUME SQUEEZE	12:01:31
11	PRESSURE UP	12:36:39	12	RELEASE PRESSURE / REVERSE OUT	12:44:36
13	STING INTO RETAINER	12:58:20	14	RESUME SQUEEZE	13:02:29
15	PRESSURE UP	13:09:37	16	PRESSURE UP	13:20:20
17	STING OUT	13:32:33	18	END JOB	13:35:56

Customer: WPX  
Well Description: KP 18-213D  
Company Rep: DOUG EBBERSON

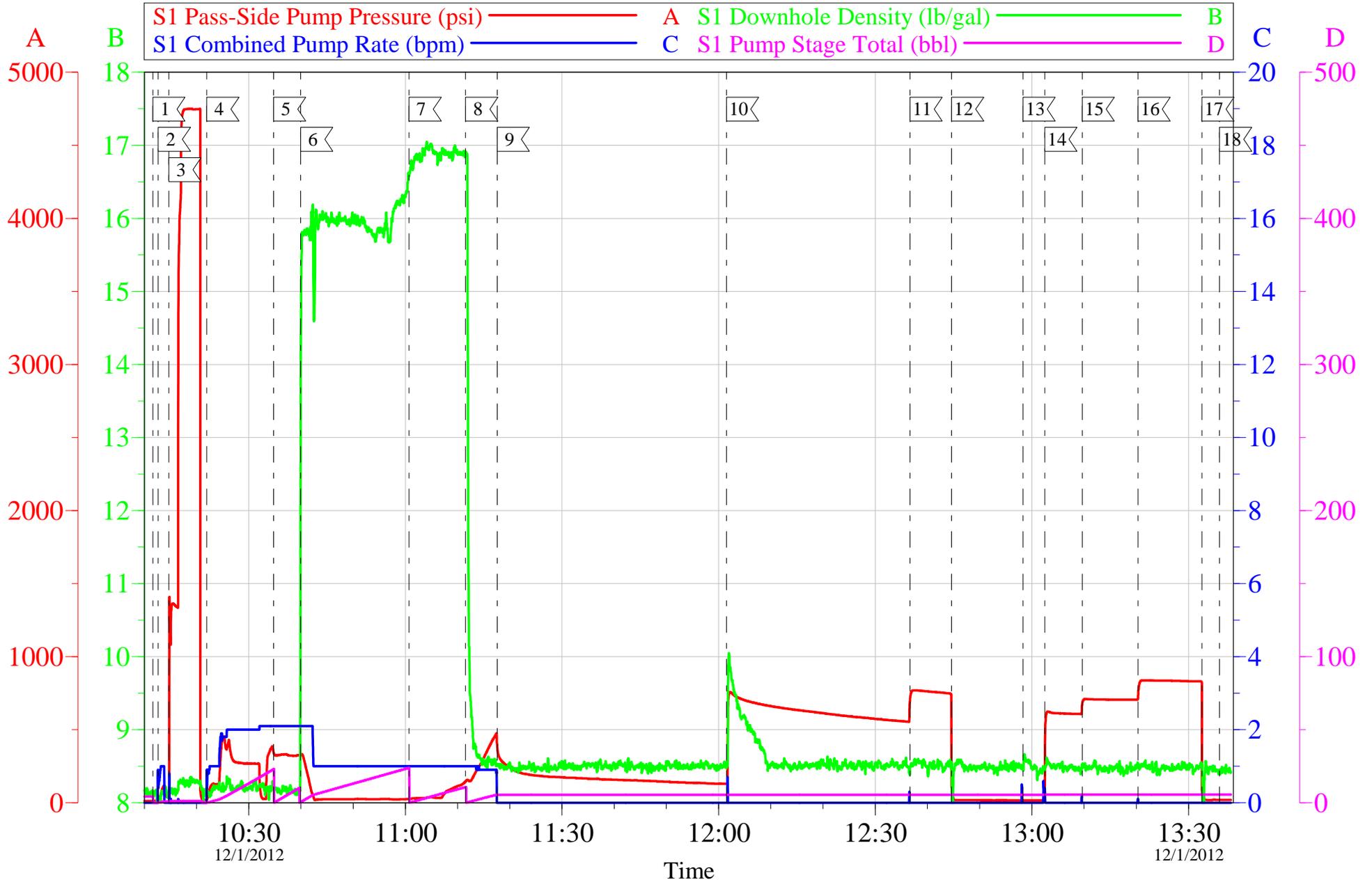
Job Date: 01-Dec-2012  
Job Type: SQUEEZE  
Cement Supervisor: CHRIS KUKUS

Sales Order #: 9932719  
ADC Used: YES  
Elite # 4: REGGIE MILLER

OptiCem v6.4.10  
01-Dec-12 13:40

# WPX - KP 18-213D

## SQUEEZE



Customer: WPX	Job Date: 01-Dec-2012	Sales Order #: 9932719
Well Description: KP 18-213D	Job Type: SQUEEZE	ADC Used: YES
Company Rep: DOUG EBBERSON	Cement Supervisor: CHRIS KUKUS	Elite # 4: REGGIE MILLER

# HALLIBURTON

## Water Analysis Report

Company: WPX

Date: 12/1/2012

Submitted by: CHRIS KUKUS

Date Rec.: 12/1/2012

Attention: J. TROUT/C.MARTINEZ

S.O.# 9932719

Lease KP

Job Type: SQUEEZE

Well # 18-213D

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>6.8</b>
Potassium (K)	<i>5000</i>	<b>0 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>0 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>50 Deg</b>
Total Dissolved Solids		<b>130 Mg / L</b>

Respectfully: CHRIS KUKUS

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> 9932719	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 12/1/2012
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SQUEEZE PERFORATIONS BOM
<b>Customer Representative:</b> DOUG EBBERSON		<b>API / UWI: (leave blank if unknown)</b> 05-045-16264
<b>Well Name:</b> KP		<b>Well Number:</b> 18-213D
<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	12/1/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHRISTOPHER KUKUS (HX35027)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	DOUG EBBERSON
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	

<b>CUSTOMER SIGNATURE</b>
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<b>Well Name:</b> KP		<b>Well Number:</b> 18-213D
<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>	12/1/2012
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>	3.5
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>	Workover
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>Customer Representative:</b> DOUG EBBERSON		<b>API / UWI: (leave blank if unknown)</b> 05-045-16264
<b>Well Name:</b> KP		<b>Well Number:</b> 18-213D
<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

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	90
<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	90
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<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	0