
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**KP 322-22
KOKOPELLI
Garfield County , Colorado**

**Squeeze Perfs
07-Sep-2012**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2864460	Quote #:	Sales Order #: 9780595
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Brady, Jeff	
Well Name: KP		Well #: 322-22	API/UWI #: 05-045-20268
Field: KOKOPELLI	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.517 deg. OR N 39 deg. 30 min. 59.893 secs.		Long: W 107.544 deg. OR W -108 deg. 27 min. 20.095 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: WYCKOFF, RYAN	MBU ID Emp #: 476117

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HONE, AARON D	0.0	381285	HYDE, DUSTIN C	0.0	453940	MILLER II, MATTHEW Reginald	0.0	425164
WYCKOFF, RYAN Scott	0.0	476117						

Equipment

HES Unit #	Distance-1 way						
10616651C	60 mile	10867425	60 mile	10897891	60 mile	10951245	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								
<i>Total is the sum of each column separately</i>								

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type	BHST		On Location	07 - Sep - 2012	00:00	MST
Job depth MD	2290. ft	Job Depth TVD	Job Started	07 - Sep - 2012	09:23	MST
Water Depth		Wk Ht Above Floor	Job Completed	07 - Sep - 2012	10:47	MST
Perforation Depth (MD)	<i>From</i>	<i>To</i>	Departed Loc	07 - Sep - 2012	12:40	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
Production Casing	Unknown		4.5	4.	11.6		I-80	.	7195.		
Tubing	Unknown		2.375	1.995	4.7	8 RD	P-110	.	2190.		

Sales/Rental/3rd 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 ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	Injection Test		10.00	bbl	8.33	.0	.0	.0		
2	MUD FLUSH		20.00	bbl	8.5	.0	.0	.0		
3	SqueezeCem Lead Cement	SQUEEZECEM (TM) SYSTEM (452971)	150.0	sacks	16.2	1.09	4.55		4.55	
	4.55 Gal	FRESH WATER								
4	SqueezeCem Tail Cement	SQUEEZECEM (TM) SYSTEM (452971)	50.0	sacks	17.	.99	3.77		3.77	
	3.77 Gal	FRESH WATER								
5	Displacement		8.00	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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Well Name: KP		Well #: 322-22	API/UWI #: 05-045-20268
Field: KOKOPELLI	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.517 deg. OR N 39 deg. 30 min. 59.893 secs.		Long: W 107.544 deg. OR W -108 deg. 27 min. 20.095 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		Srvc Supervisor: WYCKOFF, RYAN	MBU ID Emp #: 476117

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/07/2012 03:00							ELITE #4
Pre-Convoy Safety Meeting	09/07/2012 05:00							ALL HES EMPLOYEES
Arrive At Loc	09/07/2012 07:15							ARRIVE AT LOCATION @ 07:15, RIG RUNNING IN HOLE WITH TUBING
Assessment Of Location Safety Meeting	09/07/2012 07:16							ALL HES EMPLOYEES
Pre-Rig Up Safety Meeting	09/07/2012 07:20							ALL HES EMPLOYEES
Rig-Up Equipment	09/07/2012 07:21							1 HT-400 PUMP (ELITE), 1 660 BULK TRUCK, 1 F-450 PICKUP
Pre-Job Safety Meeting	09/07/2012 09:15							ALL HES EMPLOYEES AND RIG CREW
Rig-Up Completed	09/07/2012 09:20							RIG HAVING TROUBLE WITH RETAINER, WAITED ON RIG TO COMPLETE RIG UP
Start Job	09/07/2012 09:23							TP 2200, TB 2 3/8 4.7# N-36, CSG 4 1/2 11.6# I-80, BRIDGE PLUG @ 4000, RETAINER @ 2200, WELL FLUID IS PRODUCED WATER
Pressure Test	09/07/2012 09:27					5500.0		PRESSURE TEST PUMPS AND LINES TO 5500 PSI
Other	09/07/2012 09:33		1.5	10	10	1462.0		PUMP 10 BBL FRESH WATER INJECTION TEST
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl		Pressure psig		Comments

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Quote # :

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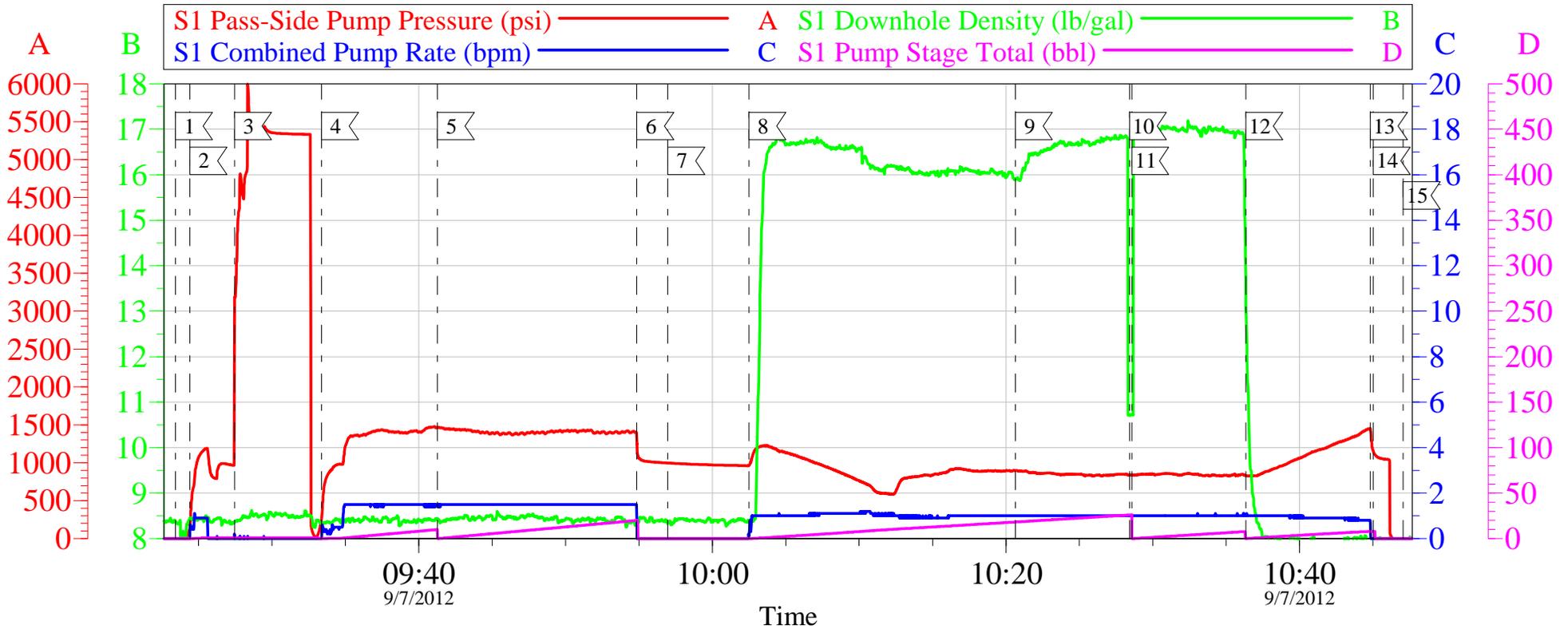
SUMMIT Version: 7.3.0040

Wednesday, September 19, 2012 02:47:00

Activity Description	Date/Time	#	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer	09/07/2012 09:41		1.5	20	20	1426. 0		PUMP 20 BBLS MUD FLUSH III SPACER, 50# OF MUD FLUSH PER 10 BBLS OF WATER
Pump Lead Cement	09/07/2012 09:56		1	29.1	29.1	1062. 0		150 SKS, 16.2 PPG, YIELD 1.09, 4.55 GAL/SK, CEMENT VOLUMES SHORT BY 2.8 BBLS DUE TO MIXING HEAVY, VERIFIED WEIGHT WITH MUD SCALES AND CORRECTED PROBLEM, AUTO CALLED RECIRC AND DOWNHOLE TO READ CORRECT DENSITY
Pump Tail Cement	09/07/2012 10:02		1	8.8	8.8	852.0		50 SKS, 17 PPG, YIELD .99, 3.77 GAL/SK, WEIGHT VERIFIED THROUGHOUT TAIL CEMENT VIA MUD SCALES, OPERATOR AUTO CALED UNINTENTIONALLY, AUTO CALED BACK TO CORRECT DOWN HOLE DENISTY
Pump Displacement	09/07/2012 10:36		1	8	8	1448. 0		PUMP 8 BBLS FRESH WATER DISPLACEMENT, .5 BBLS OF TAIL CEMENT LEFT IN TUBING.
Shutdown	09/07/2012 10:44							
Other	09/07/2012 10:45							STING OUT OF RETAINER PRESSURE BLED OFF, RIG REVERSE CIRCULATED WELL WITH 20 BBLS OF WATER, 1 BBL OF CEMENT BACK TO SURFACE

End Job	09/07/2012 10:47							NO DERICK CHARGE, NO ADDITIONAL HOURS, 40# OF SUGAR USED, NO TUBING ROTARY SWEDGE
Pre-Rig Down Safety Meeting	09/07/2012 11:00							ALL HES EMPLOYEES
Pre-Convoy Safety Meeting	09/07/2012 12:30							ALL HES EMPLOYEES
Crew Leave Location	09/07/2012 12:35							THANK YOU FOR USING HALLIBURTON CEMENT RYAN WYCKOFF AND CREW

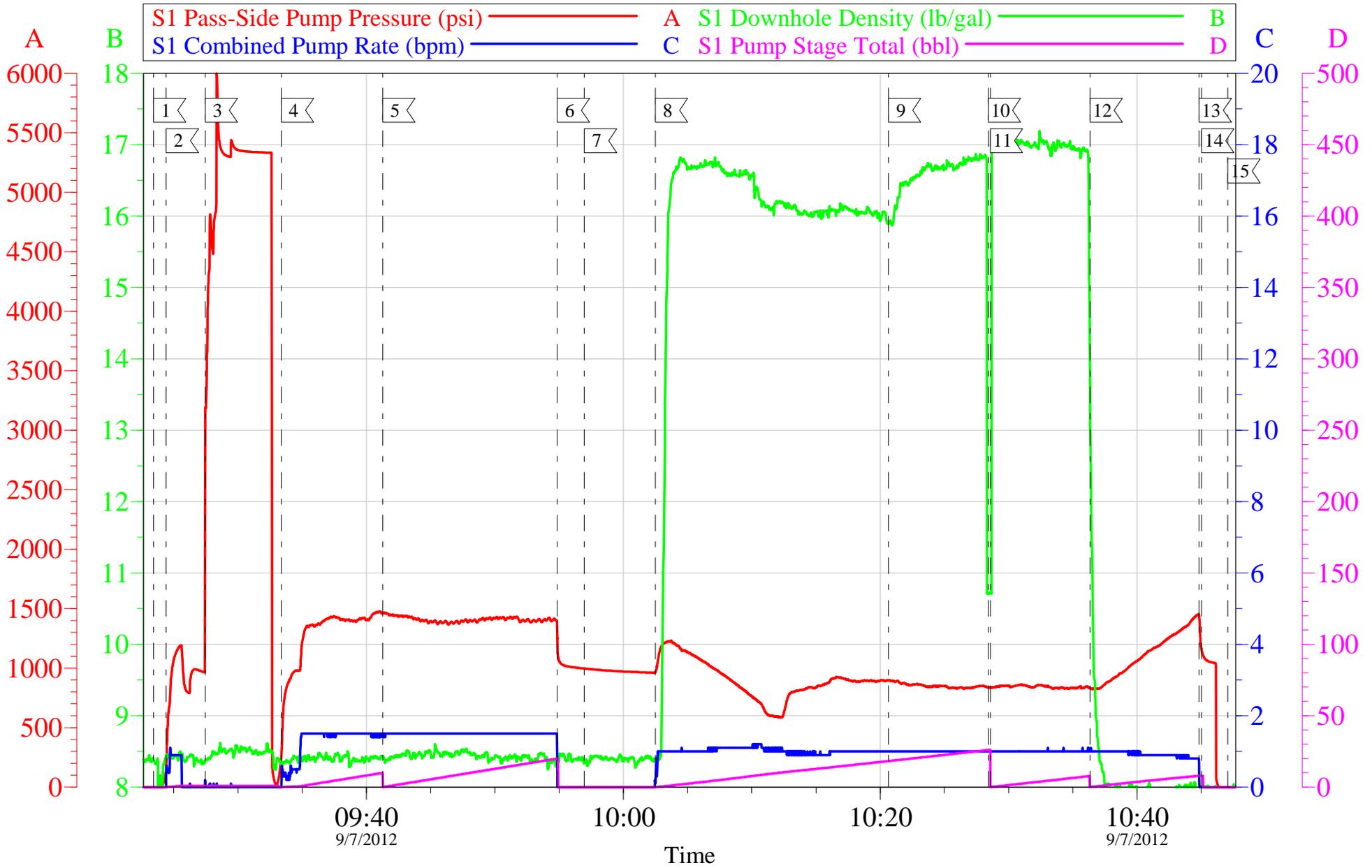
WPX KP 322-22 SQUEEZE



Local Event Log			
1	START JOB	09:23:25	2
3	TEST LINES	09:27:26	4
5	PUMP MUD FLUSH	09:41:16	6
7	PUMP LEAD CEMENT	09:56:58	8
9	START WEIGHING UP TAIL CEMENT	10:20:39	10
11	PUMP TAIL CEMENT	10:28:34	12
13	SHUTDOWN	10:44:49	14
15	END JOB	10:47:04	

Customer: WPX	Job Date: 07-Sep-2012	Sales Order #: 9780595
Well Description: KP 322-22	Job Type: SQUEEZE	ADC Used: YES
Company Rep: JEFF BRADY	Cement Supervisor: RYAN WYCKOFF	Elite #: REGGIE MILLER

WPX KP 322-22 SQUEEZE



Customer: WPX	Job Date: 07-Sep-2012	Sales Order #: 9780595
Well Description: KP 322-22	Job Type: SQUEEZE	ADC Used: YES
Company Rep: JEFF BRADY	Cement Supervisor: RYAN WYCKOFF	Elite #4: REGGIE MILLER

HALLIBURTON

Water Analysis Report

Company: WPX

Date: 9/7/2012

Submitted by: RYAN WYCKOFF

Date Rec.: 9/7/2012

Attention: J. TROUT/C.MARTINEZ

S.O.# 9780595

Lease KP

Job Type: SQUEEZE

Well # 322-22

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	6.8
Potassium (K)	<i>5000</i>	400 Mg / L
Calcium (Ca)	<i>500</i>	100 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	500 Mg / L
Sulfates (SO ₄)	<i>1500</i>	UNDER 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-90</i>	68 Deg
Total Dissolved Solids		120 Mg / L

Respectfully: RYAN WYCKOFF

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

Sales Order #: 9780595	Line Item: 10	Survey Conducted Date: 9/7/2012
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative: JEFF BRADY		API / UWI: (leave blank if unknown) 05-045-20268
Well Name: KP		Well Number: 322-22
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	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	9/7/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	RYAN WYCKOFF (HB47901)
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	THANKS

CUSTOMER SIGNATURE

Sales Order #: 9780595	Line Item: 10	Survey Conducted Date: 9/7/2012
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative: JEFF BRADY		API / UWI: (leave blank if unknown) 05-045-20268
Well Name: KP		Well Number: 322-22
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	9/7/2012
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	6
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

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Customer Representative: JEFF BRADY		API / UWI: (leave blank if unknown) 05-045-20268
Well Name: KP		Well Number: 322-22
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	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	90
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	1