
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

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

Squeeze Perfs
12-Oct-2012

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2939008	Quote #:	Sales Order #: 9826919
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Brady, Jeff		
Well Name: KP	Well #: 514-18	API/UWI #: 05-045-20629	
Field: KOKOPELLI	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Lat: N 39.522 deg. OR N 39 deg. 31 min. 19.87 secs.	Long: W 107.595 deg. OR W -108 deg. 24 min. 19.13 secs.		
Contractor: WORKOVER	Rig/Platform Name/Num: WORKOVER		
Job Purpose: Squeeze Perfs			
Well Type: Development Well	Job Type: Squeeze Perfs		
Sales Person: MAYO, MARK	Srv Supervisor: SLAUGHTER, JESSE	MBU ID Emp #: 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	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	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						

TOTAL Total is the sum of each column separately

Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	12 - Oct - 2012	12:30	MST
Form Type		BHST	Job Started	12 - Oct - 2012	15:30	MST
Job depth MD	5514. ft	Job Depth TVD	Job Completed	12 - Oct - 2012	16:42	MST
Water Depth		Wk Ht Above Floor	Departed Loc	12 - Oct - 2012	18:27	MST
Perforation Depth (MD)	From	To		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/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
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Stage/Plug #: 1

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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	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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Well Name: KP			Well #: 514-18			API/UWI #: 05-045-20629	
Field: KOKOPELLI		City (SAP): RIFLE		County/Parish: Garfield		State: Colorado	
Legal Description:							
Lat: N 39.522 deg. OR N 39 deg. 31 min. 19.87 secs.				Long: W 107.595 deg. OR W -108 deg. 24 min. 19.13 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: SLAUGHTER, JESSE			MBU ID Emp #: 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 # :

Sales Order # :

9826919

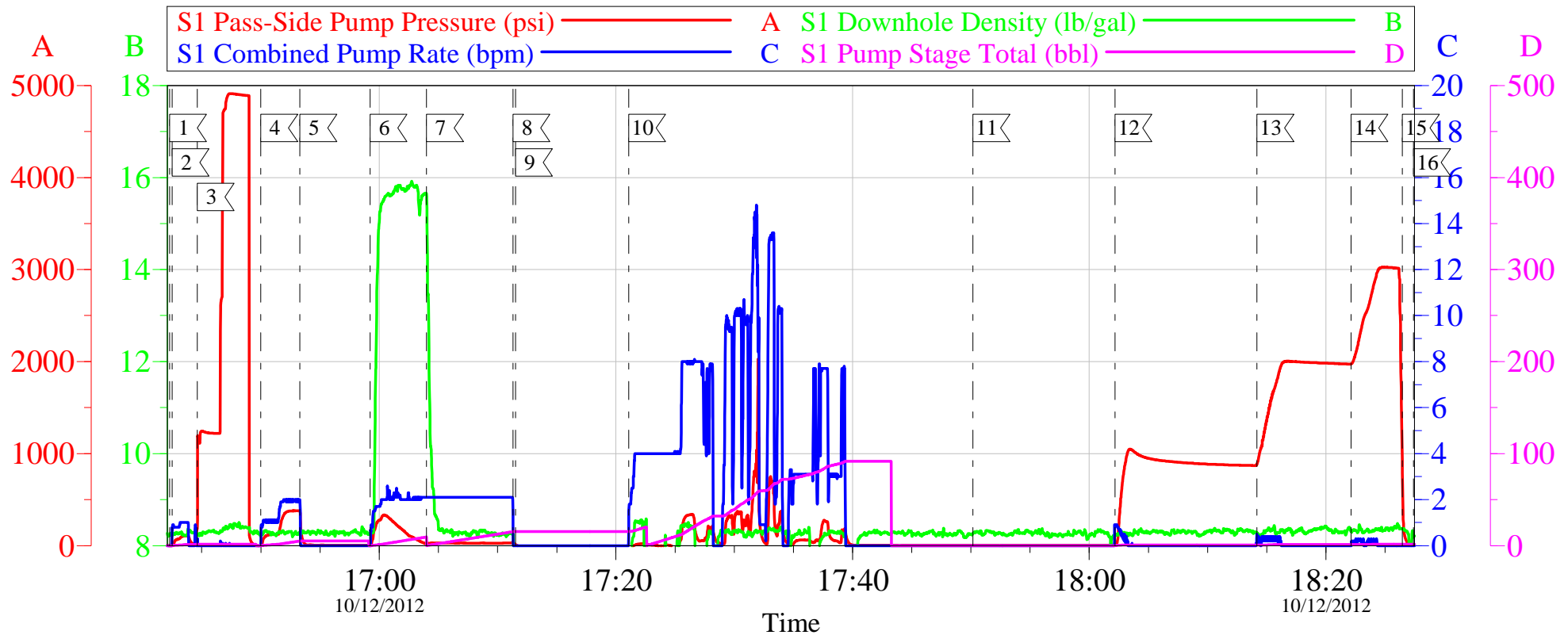
SUMMIT Version: 7.3.0040

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 FT3/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



Local Event Log

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
Well Description: KP 514-18
Customer Rep: JEFF BRADY

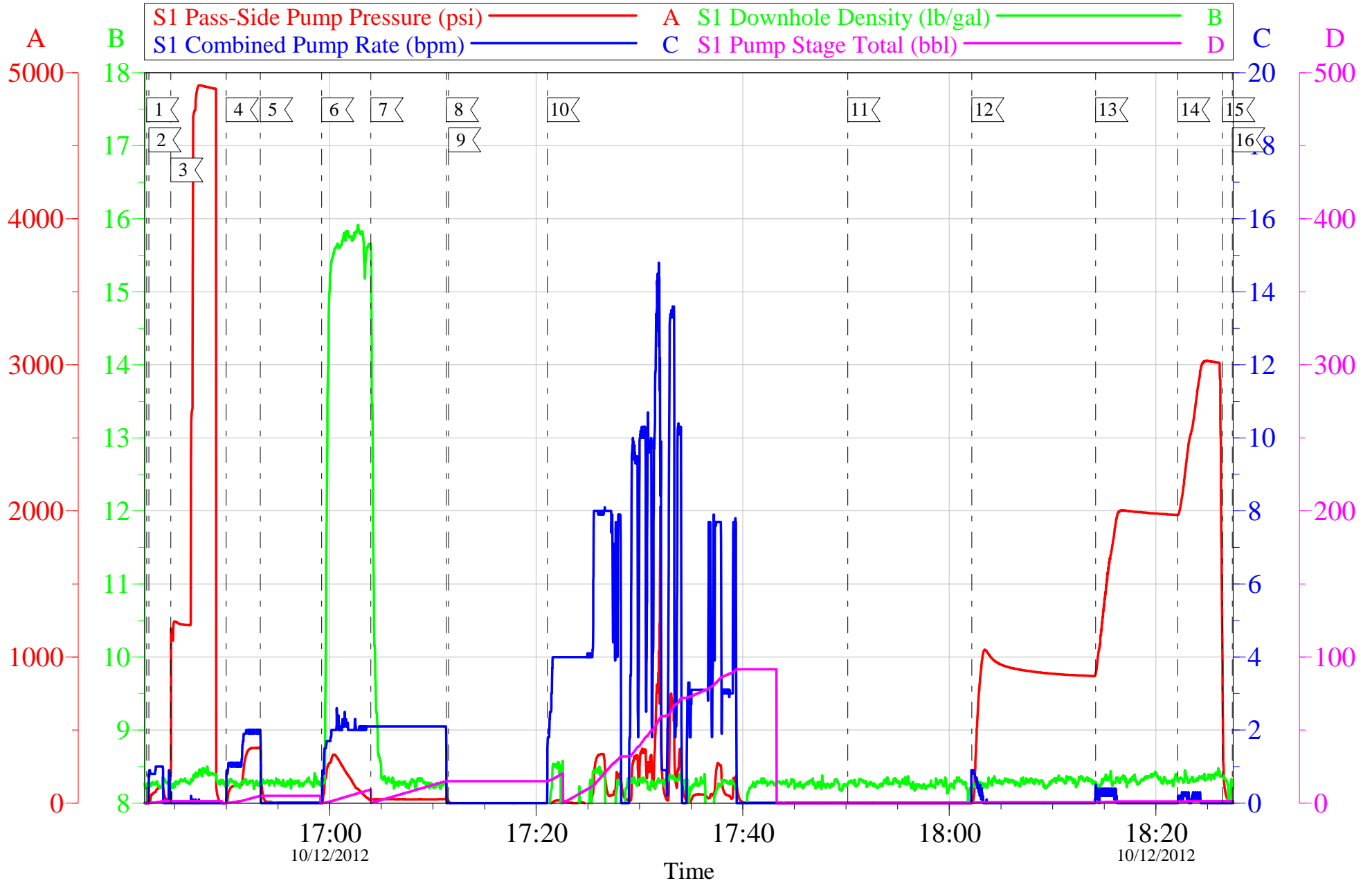
Job Date: 12-Oct-2012
Job Type: SQUEEZE
Cement Supervisor: JESSE SLAUGHTER

Sales Order #: 9826919
ADC Used: YES
Elite #3: BRENDAN BURKE

OptiCem v6.4.10
12-Oct-12 18:34

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

OptiCem v6.4.10
12-Oct-12 18:35

HALLIBURTON

Water Analysis Report

Company: WILLIAMS PRODUCTION

Submitted by: JESSE SLAUGHTER

Attention: LAB

Lease KP

Well # 514-18

Date: 10/12/2012

Date Rec.:

S.O.# 9826919

Job Type: SQUEEZE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
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>	500 Mg / L
Sulfates (SO ₄)	<i>1500</i>	UNDER 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	70 Deg
Total Dissolved Solids		410 Mg / L

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

Sales Order #: 9826919	Line Item: 10	Survey Conducted Date: 10/12/2012
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative: JEFF BRADY		API / UWI: (leave blank if unknown) 05-045-20629
Well Name: KP		Well Number: 514-18
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	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

CUSTOMER SIGNATURE

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Customer Representative: JEFF BRADY		API / UWI: (leave blank if unknown) 05-045-20629
Well Name: KP		Well Number: 514-18
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	10/12/2012
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) 05-045-20629
Well Name: KP		Well Number: 514-18
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	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	100
Nbr of Remedial Sqz Jobs Rqd - Competition Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	1
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