

HALLIBURTON



WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**KP 533-18
KOKOPELLI
Garfield County , Colorado**

Squeeze Perfs
26-Oct-2012

Post Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2925160	Quote #:	Sales Order #: 9879647
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Brady, Jeff	
Well Name: KP	Well #: 533-18	API/UWI #: 05-045-20628	
Field: KOKOPELLI	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.522 deg. OR N 39 deg. 31 min. 20.377 secs.		Long: W 107.595 deg. OR W -108 deg. 24 min. 18.965 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: DEUSSEN, EDWARD	MBU ID Emp #: 485182

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANKS, BRENT A	11.0	371353	DEUSSEN, EDWARD Eric	11.0	485182	GRAGERT, JEFFREY Robert	11.0	528091
LINN, PAUL Andrew	11.0	479143	MILLER, KEVIN Paul	11.0	443040			

Equipment

HES Unit #	Distance-1 way						

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	Formation Depth (MD) Top	Bottom	Called Out	Date	Time	Time Zone
Form Type		BHST	On Location	26 - Oct - 2012	06:00	MST
Job depth MD	1866. ft	Job Depth TVD	Job Started	26 - Oct - 2012	08:36	MST
Water Depth		Wk Ht Above Floor	Job Completed	26 - Oct - 2012	15:25	MST
Perforation Depth (MD) From		To	Departed Loc	26 - Oct - 2012	17:00	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

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		7.00	bbl	8.33	.0	.0	.0	

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
1	Injection Test		7.00	bbl	8.33	.0	.0	.0	

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
2	SqueezeCem Tail Cement	SQUEEZECEM (TM) SYSTEM (452971)	50.0	sacks	17.	.99	3.77		3.77
	3.77 Gal	FRESH WATER							
3	Displacement		7.00	bbl	8.33	.0	.0	.0	
4	Injection Test		5.00	bbl	.	.0	.0	.0	
5	SUPER FLUSH 101	SUPER FLUSH 101 - SBM (12199)	15.00	bbl	10.	.0	.0	.0	
6	Spacer		5.00	bbl	.	.0	.0	.0	
7	2nd Stage Tail	SQUEEZECEM (TM) SYSTEM (452971)	75.0	sacks	17.	.99	3.77		3.77
	3.77 Gal	FRESH WATER							
8	Displacement		5.00	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

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Well Name: KP	Well #: 533-18	API/UWI #: 05-045-20628	
Field: KOKOPELLI	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.522 deg. OR N 39 deg. 31 min. 20.377 secs.		Long: W 107.595 deg. OR W -108 deg. 24 min. 18.965 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: DEUSSEN, EDWARD	MBU ID Emp #: 485182

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/26/2012 02:00							CREW ALREADY IN FIELD
Pre-Convoy Safety Meeting	10/26/2012 04:00							ALL HES PERSONNEL
Crew Leave Yard	10/26/2012 04:15							1 ELITE, 1 BODYLOAD, 1 SUPERFLUSH TRANSPORT, 1 PICKUP
Arrive At Loc	10/26/2012 06:00							FIRST ON LOCATION
Assessment Of Location Safety Meeting	10/26/2012 06:15							
Pre-Rig Up Safety Meeting	10/26/2012 06:30							ALL HES PERSONNEL
Rig-Up Equipment	10/26/2012 06:45							MANIFOLD ON GROUND, 1 HARD LINE TO FLOOR, 1 HARD LINE TO WASH UP TANK, 1 WATER LINE TO WATER TRUCK, 1 BULK HOSE TO BODYLOAD, 1 HOSE TO SUPERFLUSH
Pre-Job Safety Meeting	10/26/2012 08:00							ALL HES PERSONNEL AND RIG CREW
Start Job	10/26/2012 08:36	1						SQUEEZE #1 - RETAINER @ 1866', PERFS @ 1950', BRIDGE PLUG @ 4000'
Pump Water	10/26/2012 08:37	2	1	1			.0	FILL LINES
Pressure Test	10/26/2012 08:42	4						PRESSURED UP TO 4718 PSI - PRESSURE HELD WELL

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	10/26/2012 08:46	5	2	7.5			937.0	INJECTION TEST - FRESH WATER
Shutdown	10/26/2012 08:51	6						ISIP @ 450 PSI
Pump Tail Cement	10/26/2012 09:05	8	1	8.8			440.0	50 SKS, 17.0 PPG, 0.99 YIELD, 3.77 GAL/SK
Pump Displacement	10/26/2012 09:11	9	1.5	4			690.0	FRESH WATER
Shutdown	10/26/2012 09:13	10						HESITATE 10 MINUTES
Pump Displacement	10/26/2012 09:23	11	0.5	0.5	4.5		380.0	SQUEEZE ON CEMENT
Shutdown	10/26/2012 09:24	12						HESITATE 20 MINUTES
Pump Displacement	10/26/2012 09:45	13	0.5	0.5	5		535.0	SQUEEZE ON CEMENT
Shutdown	10/26/2012 09:46	14						HESITATE 15 MINUTES
Pump Displacement	10/26/2012 10:00	15	0.5	0.5	5.5		838.0	SQUEEZE ON CEMENT
Shutdown	10/26/2012 10:01	16						HESITATE 15 MINUTES
Pump Displacement	10/26/2012 10:13	17	0.5	0.25	5.75		1063.0	SQUEEZE ON CEMENT
Shutdown	10/26/2012 10:14	18						HESITATE 10 MINUTES
Pump Displacement	10/26/2012 10:24	19	0.5	0.25	6		1215.0	SQUEEZE ON CEMENT
Shutdown	10/26/2012 10:25	20						HESITATE 5 MINUTES
Pump Displacement	10/26/2012 10:31	21	0.5	0.25	6.25		1543.0	SQUEEZE ON CEMENT
Shutdown	10/26/2012 10:32	22						PRESSURE HOLDING
Pump Displacement	10/26/2012 10:33	23	0.5	0.25	6.5		2025.0	SQUEEZE ON CEMENT
Shutdown	10/26/2012 10:34	24						CEMENT SQUEEZED OFF
Other	10/26/2012 10:35	25						RELEASE PRESSURE
Other	10/26/2012 10:36							STING OUT OF RETAINER - SWAP OVER TO RIG TO REVERSE OUT
Reverse Circ Well	10/26/2012 10:38	26						RIG REVERSE OUT - WASH UP PUMP
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl		Pressure psig		Comments

		#		Stage	Total	Tubing	Casing	
Other	10/26/2012 11:00							SQUEEZE #2 -SET NEW RETAINER @ 1450' - 2ND SET OF PERFS @ 1500'
Pump Water	10/26/2012 12:27	29	1	0.5			260.0	FILL LINES
Pressure Test	10/26/2012 12:31	31						PRESSURED UP TO 4480 PSI - PRESSURE HELD WELL
Pump Spacer 1	10/26/2012 12:33	32	2.5	5			1214. 0	FRESH WATER
Pump Spacer	10/26/2012 12:38	33	2	15			1301. 0	SUPERFLUSH
Pump Spacer 1	10/26/2012 12:46	34	2	5			1032. 0	FRESH WATER
Pump Tail Cement	10/26/2012 12:52	35	1.5	13.2			790.0	75 SACKS, 17.0 PPG, 0.99 YIELD, 3.77 GAL/SK
Pump Displacement	10/26/2012 13:01	36	1.5	2.5			747.0	FRESH WATER
Shutdown	10/26/2012 13:02	37						HESITATE 15 MINUTES
Pump Displacement	10/26/2012 13:16	38	0.5	0.5	3		716.0	SQUEEZE ON CEMENT
Shutdown	10/26/2012 13:18	39						HESITATE 20 MINUTES
Pump Displacement	10/26/2012 13:37	40	0.5	0.25	3.25		830.0	SQUEEZE ON CEMENT
Shutdown	10/26/2012 13:38	41						HESITATE 20 MINUTES
Pump Displacement	10/26/2012 14:02	42	0.5	0.25	3.5		782.0	SQUEEZE ON CEMENT
Shutdown	10/26/2012 14:03	43						HESITATE 15 MINUTES
Pump Displacement	10/26/2012 14:16	44	0.5	0.25	3.75		775.0	SQUEEZE ON CEMENT
Shutdown	10/26/2012 14:17	45						HESITATE 10 MINUTES
Pump Displacement	10/26/2012 14:20							
Shutdown	10/26/2012 14:20							
Pump Displacement	10/26/2012 14:27	46	0.5	0.25	4		860.0	SQUEEZE ON CEMENT
Shutdown	10/26/2012 14:28	47						HESITATE 10 MINUTES
Pump Displacement	10/26/2012 14:38	48	0.5	0.25	4.25		924.0	SQUEEZE ON CEMENT
Shutdown	10/26/2012 14:39	49						HESITATE 10 MINUTES

Sold To #: 300721

Ship To #: 2925160

Quote #:

Sales Order #:

9879647

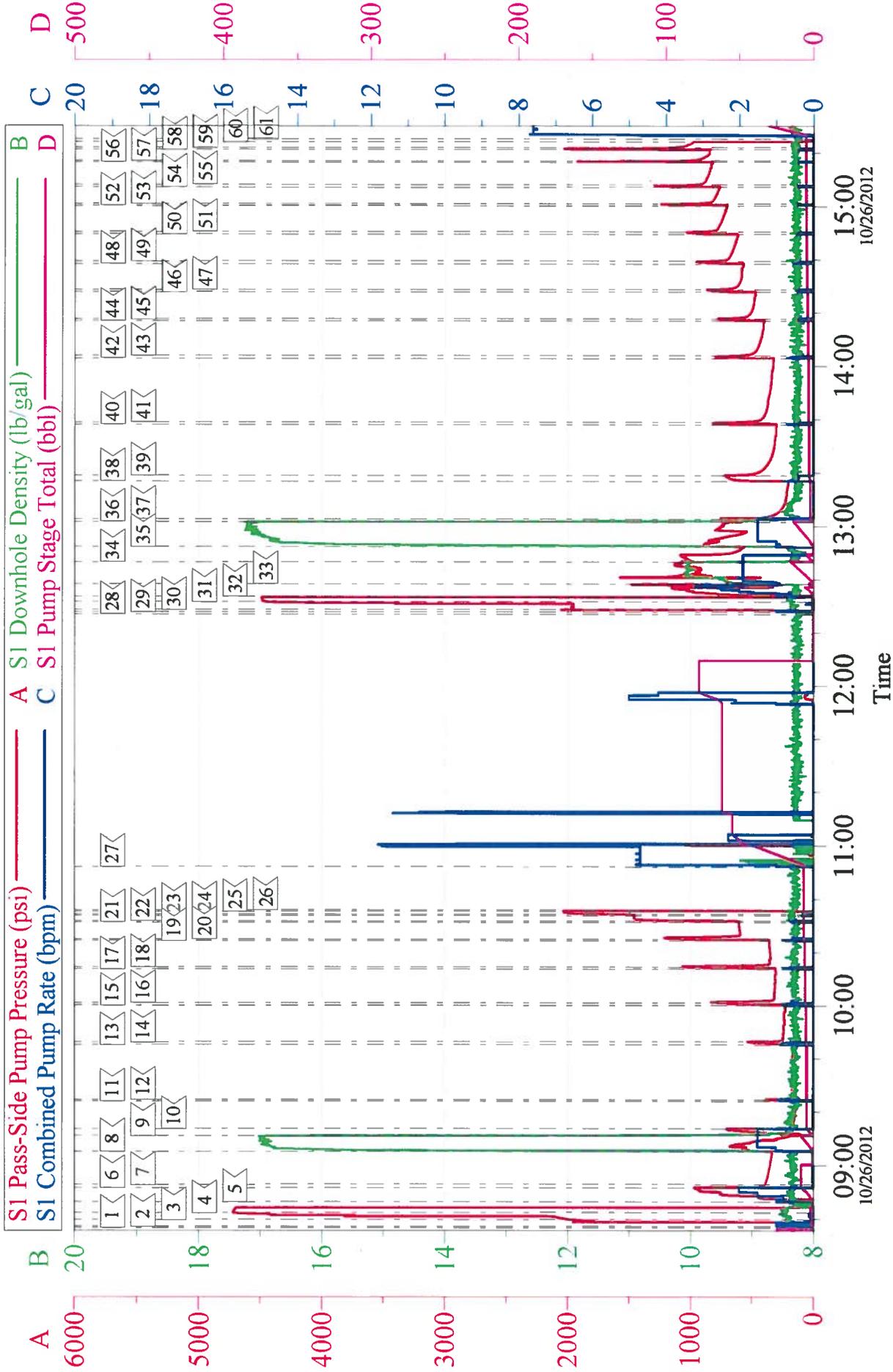
SUMMIT Version: 7.3.0045

Saturday, November 03, 2012 12:21:00

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	10/26/2012 14:49	50	0.5	0.25	4.5		1043.0	SQUEEZE ON CEMENT
Shutdown	10/26/2012 14:50	51						HESITATE
Pump Displacement	10/26/2012 15:00	52	0.5	0.1	4.6		1237.0	SQUEEZE ON CEMENT
Shutdown	10/26/2012 15:01	53						HESITATE
Pump Displacement	10/26/2012 15:07	54	0.5	0.1	4.7		1296.0	SQUEEZE ON CEMENT
Shutdown	10/26/2012 15:08	55						HESITATE
Pump Displacement	10/26/2012 15:16	56	0.5	0.1	4.8		1920.0	SQUEEZE ON CEMENT
Shutdown	10/26/2012 15:17	57						HESITATE
Pump Displacement	10/26/2012 15:21	58	0.5	0.1	4.9		2030.0	SQUEEZE ON CEMENT
Shutdown	10/26/2012 15:22	59						HESITATE - END JOB PER COMPANY REP - PAST TIME ON CEMENT SET PER LAB TESTS
Other	10/26/2012 15:24	60						STING OUT OF RETAINER - SWAP OVER TO RIG TO REVERSE OUT
Reverse Circ Well	10/26/2012 15:24							RIG REVERSE OUT - WASH UP PUMP
End Job	10/26/2012 15:25							NO SWAGE CHARGES - 6 ADD HOURS - 80 LBS SUGAR
Post-Job Safety Meeting (Pre Rig-Down)	10/26/2012 15:45							
Rig-Down Equipment	10/26/2012 16:00							
Pre-Convoy Safety Meeting	10/26/2012 16:45							
Crew Leave Location	10/26/2012 17:00							THANK YOU FOR USING HALLIBURTON AND ED DEUSSEN AND CREW

WPX - KP 533-18

CIRCULATION SQUEEZE



Customer: WPX	Job Date: 26-Oct-2012	Sales Order #: 9879647
Well Description: KP 533-18	Job Type: SQUEEZE	ADC Used: YES
Company Rep: JEFF BRADY	Cement Supervisor: ED DEUSSEN	RED TIGER: ANDREW LINN

HALLIBURTON

Water Analysis Report

Company: WILLIAMS
Submitted by: ED DEUSSEN
Attention: J.TROUT
Lease KP
Well # 533-18

Date: 10/26/2012
Date Rec.: 10/26/2012
S.O.# 9879647
Job Type: SQUEEZE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7.5
Potassium (K)	<i>5000</i>	450 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
Temp	<i>40-80</i>	38 Deg
Total Dissolved Solids		20 Mg / L

Respectfully: ED DEUSSEN

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 #: 9879647	Line Item: 10	Survey Conducted Date: 10/26/2012
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative: JEFF BRADY		API / UWI: (leave blank if unknown) 05-045-20628
Well Name: KP		Well Number: 533-18
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	10/26/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	EDWARD DEUSSEN (HB57194)
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 #: 9879647	Line Item: 10	Survey Conducted Date: 10/26/2012
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative: JEFF BRADY		API / UWI: (leave blank if unknown) 05-045-20628
Well Name: KP		Well Number: 533-18
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	10/26/2012
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)	9
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)	7
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	5
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) 05-045-20628
Well Name: KP		Well Number: 533-18
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 Plugged 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	98
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 +/- 1 bbl/min. Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped, multiplied by 100	99
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