
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**KP 314-18
KOKOPELLI
Garfield County , Colorado**

Squeeze Perfs
28-Sep-2012

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2934423	Quote #:	Sales Order #: 9826904
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Hoffland, Keith	
Well Name: KP		Well #: 314-18	API/UWI #: 05-045-20635
Field: KOKOPELLI	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.522 deg. OR N 39 deg. 31 min. 20.071 secs.		Long: W 107.596 deg. OR W -108 deg. 24 min. 15.408 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: SMITH, CHRISTOPHER	MBU ID Emp #: 452619

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BRENNECKE, ANDREW Bailey	0.0	486345	SINCLAIR, DAN J	0.0	338784	SMITH, CHRISTOPHER Scott	0.0	452619
WOLFE, JON P	0.0	485217						

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	10951251	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
TOTAL			Total is the sum of each column separately					

Job

Formation Name	Job	Date	Time	Time Zone
Formation Depth (MD)	Top Bottom	Called Out	28 - Sep - 2012	01:00 MST
Form Type	BHST	On Location	28 - Sep - 2012	10:45 MST
Job depth MD	4660. m	Job Depth TVD	4660. m	Job Started 28 - Sep - 2012 12:32 MST
Water Depth		Wk Ht Above Floor		Job Completed 28 - Sep - 2012 13:53 MST
Perforation Depth (MD)	From To	Departed Loc	28 - Sep - 2012	15:30 MST

Well Data

Description	New / Used	Max pressure MPa	Size mm	ID mm	Weight kg/m	Thread	Grade	Top MD m	Bottom MD m	Top TVD m	Bottom TVD m
-------------	------------	------------------	---------	-------	-------------	--------	-------	----------	-------------	-----------	--------------

Sales/Rental/3rd 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

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density ka/m3	Yield m3/sk	Mix Fluid m3/tonne	Rate m3/min	Total Mix Fluid m3/tonne

1	Injection Test		5.00	bbl	8.33	.0	.0	.0	
2	SqueezeCem Tail Cement	SQUEEZECEM (TM) SYSTEM (452971)	50.0	sacks	15.8	1.47	4.97		4.97
	4.97 Gal	FRESH WATER							
3	Displacement		18.00	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					

The Road to Excellence Starts with Safety

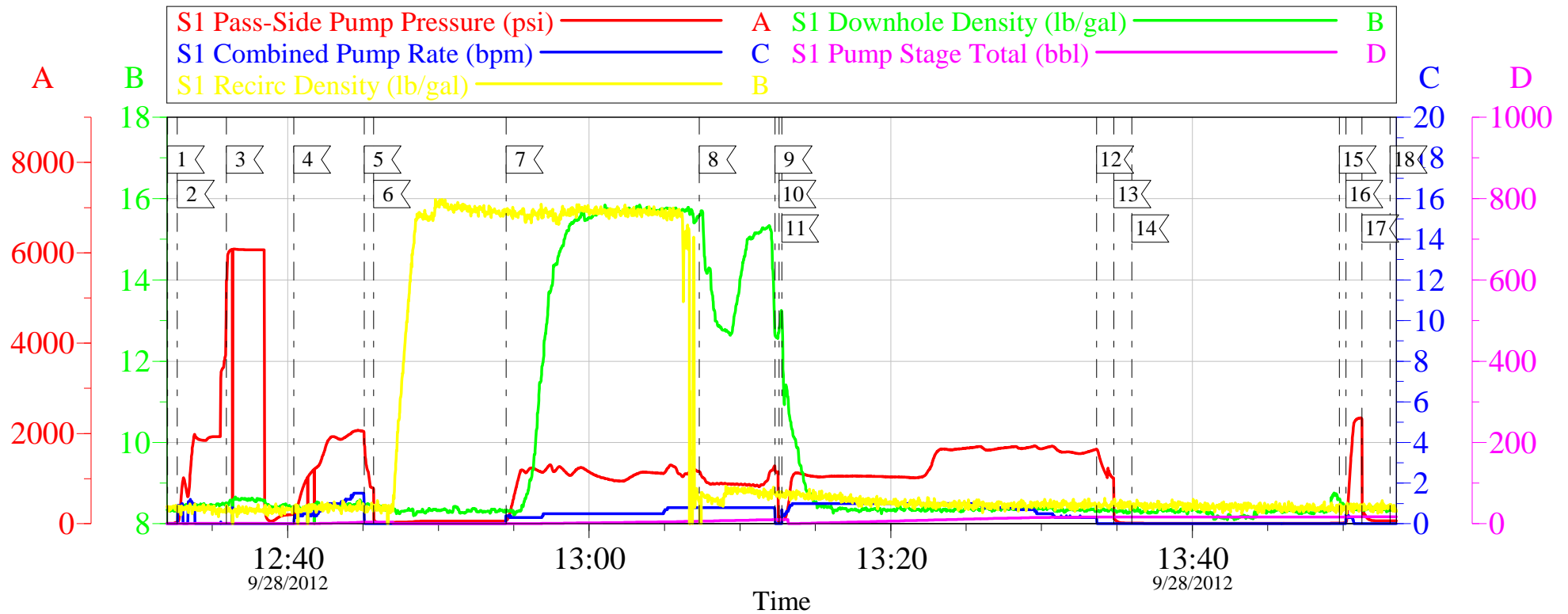
Sold To #: 300721		Ship To #: 2934423		Quote #:		Sales Order #: 9826904	
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: Hoffland, Keith			
Well Name: KP			Well #: 314-18			API/UWI #: 05-045-20635	
Field: KOKOPELLI		City (SAP): SILT		County/Parish: Garfield		State: Colorado	
Legal Description:							
Lat: N 39.522 deg. OR N 39 deg. 31 min. 20.071 secs.				Long: W 107.596 deg. OR W -108 deg. 24 min. 15.408 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: SMITH, CHRISTOPHER			MBU ID Emp #: 452619	

Activity Description	Date/Time	Cht #	Rate m3/min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Other Job or Site	09/28/2012 11:00							
Assessment Of Location Safety Meeting	09/28/2012 11:15							ALL HES PERSONEL, UPON HES ARRIVAL RIG CREW WAS RUNNING TUBING IN CSG.
Pre-Rig Up Safety Meeting	09/28/2012 11:30							ALL HES PERSONEL
Pre-Job Safety Meeting	09/28/2012 12:00							ALL HES PERSONEL AND RIG CREW
Start Job	09/28/2012 12:32							TP- 6000',PERFS- 4660', CSG 4.5 11.6# N80, TUB- 2 3/8 4.7# N80, WF -8.4, RET- 4600', BRIDGE PLUG- 6000'
Pressure Test	09/28/2012 12:35		0.5	0.5				ALL LINES HELD PRESSURE @ 6000 PSI.
Injection Test	09/28/2012 12:40		1.5	3.5			2080.0	STING IN AND ESTABLISH INJECTION TEST. THE FASTER WE PUMPED THE MORE THE FORMATION TOOK.
ISIP	09/28/2012 12:45						1750.0	
Other	09/28/2012 12:45							STING OUT
Activity Description	Date/Time	Cht #	Rate m3/min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	

Pump Cement	09/28/2012 12:54		0.5	10			1250. 0	115 SKS, 15.8 PPG, 1.15 FT3/SK, 5 GAL/SK, RIG PUT 1200 PSI ON BACKSIDE, LOST PRESSURE ON BACKSIDE FOR 2 MIN.
Spot Cement	09/28/2012 13:12							SPOT CEMENT 7.5 BBL ABOVE TOOL, SWAPED TO DISPLACEMENT EARLY IN CASE CEMENT FELL OUT OF TUBING DURING SPOTTING
Shutdown	09/28/2012 13:12							STING IN
Pump Displacement	09/28/2012 13:12		1	17.5			1750. 0	H2O DISPLACEMENT, STEP RATE DOWN TO KEEP PRESSURE BELOW 1750 PSI (INJECTION PSI)
Other	09/28/2012 13:33			17.5				HESITATE, WAITED 10 MINS AS PER COMPANY MAN, PRESSURE BLED TO PSI
Reverse Circ Well	09/28/2012 13:36							PRESSURED UP TOWARDS THE END OF 1.5 TUBING VOLUMES POSSIBLY TO STINGER STARTING TO PLUG UP, NO CEMENT RETURNS, CLEAN WATER ALL THE WAY
Pump Displacement	09/28/2012 13:50		0.5	0.5				AS PER COMPANY MAN
Shutdown	09/28/2012 13:51			17.5			2340. 0	COMPANY MAN WAS SATISFIED WITH SQUEEZE PRESSURE
End Job	09/28/2012 13:53							
Post-Job Safety Meeting (Pre Rig-Down)	09/28/2012 14:10							ALL HES PERSONEL
Pre-Convoy Safety Meeting	09/28/2012 15:30							ALL HES PERSONEL
Crew Leave Location	09/28/2012 15:35							
Other	09/28/2012 15:36							THANK YOU FOR CHOOSING HALLIBURTON, CHRIS SMITH AND CREW

WPX - KP 314-18

SQUEEZE



Local Event Log					
1	START JOB	12:32:02	2	FILL LINES	12:32:41
3	PRESSURE TEST	12:35:57	4	INJECTION TEST	12:40:25
5	ISIP	12:45:05	6	STING OUT	12:45:42
7	LEAD CEMENT	12:54:30	8	LOSS IN BACKSIDE PRESSURE	13:07:18
9	SHUTDOWN/ SHUT IN BACKSIDE	13:12:20	10	STING IN	13:12:36
11	DISPLACEMENT	13:12:46	12	SHUTDOWN/ HESITATE	13:33:40
13	STING OUT/ OPEN BACKSIDE	13:34:48	14	RIG REVERSE OUT	13:36:00
15	STING IN	13:49:45	16	RESUME DISPLCAEMENT	13:50:11
17	SHUTDOWN/ STING OUT	13:51:15	18	END JOB	13:53:07

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS
 Well Description: KP 314-18
 Company Rep:

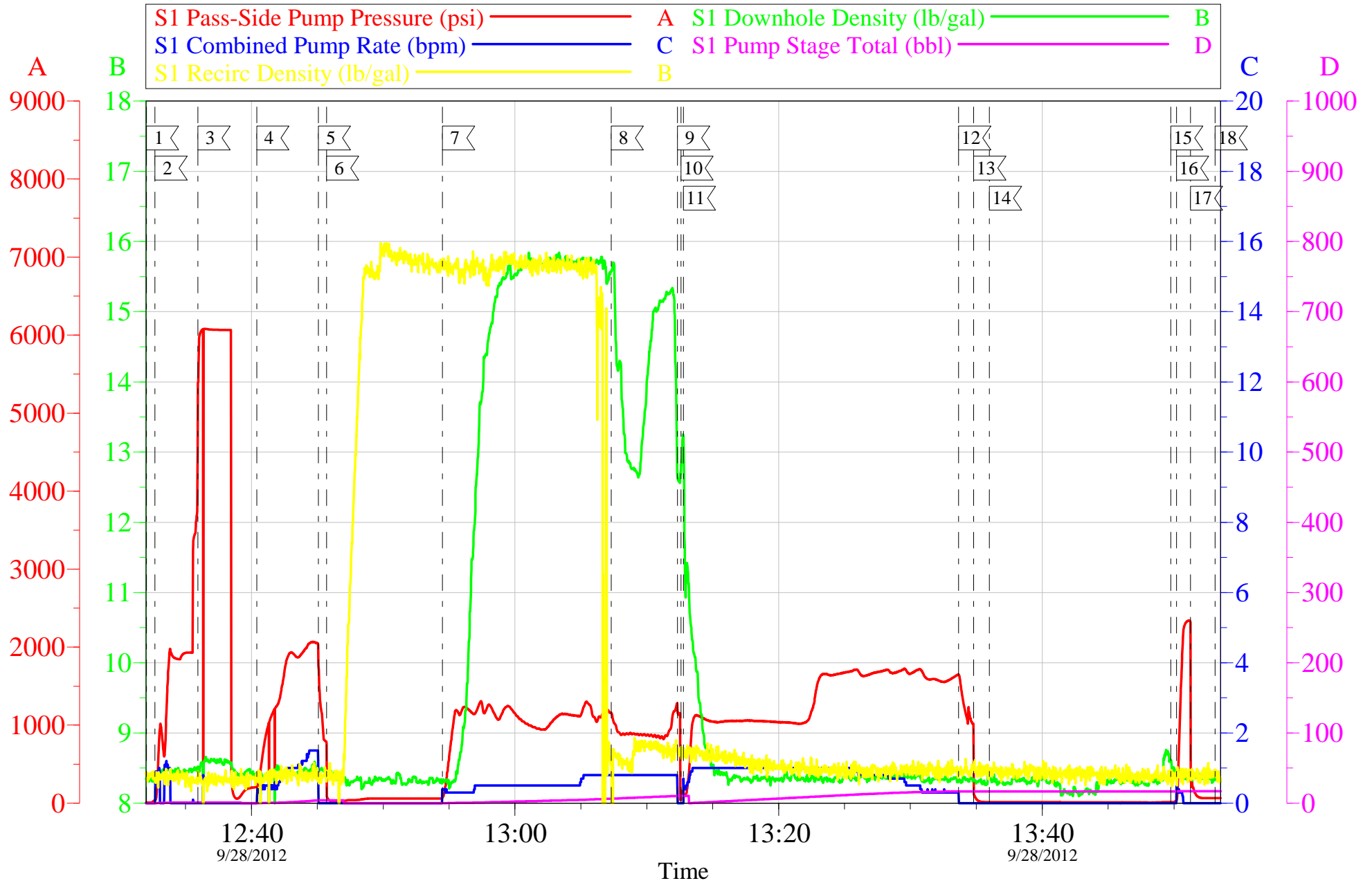
Job Date: 28-Sep-2012
 Job Type: 05-045-20635
 Cement Supervisor:

Sales Order #: 9826904
 ADC Used:
 Elite #X:

OptiCem v6.4.10
 28-Sep-12 14:19

WPX - KP 314-18

SQUEEZE



Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS
Well Description: KP 314-18
Company Rep:

Job Date: 28-Sep-2012
Job Type: 05-045-20635
Cement Supervisor:

Sales Order #: 9826904
ADC Used:
Elite #X:

OptiCem v6.4.10
28-Sep-12 14:19

HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: CHRIS SMITH

Attention: J.Trout

Lease KP

Well # 314-18

Date: 07.06.2012

Date Rec.: 07.06.2012

S.O.# 9608520

Job Type: PRODUCTION

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>	3 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	50 Deg
Total Dissolved Solids		510 Mg / L

Respectfully: CHRIS SMITH

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

Sales Order #: 9826904	Line Item: 10	Survey Conducted Date: 9/28/2012
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative: DUSTIN WELSH		API / UWI: (leave blank if unknown) 05-045-20635
Well Name: KP		Well Number: 314-18
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	9/28/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHRISTOPHER SMITH (HB20137)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	DUSTIN WELSH
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	

CUSTOMER SIGNATURE

Sales Order #: 9826904	Line Item: 10	Survey Conducted Date: 9/28/2012
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative: DUSTIN WELSH		API / UWI: (leave blank if unknown) 05-045-20635
Well Name: KP		Well Number: 314-18
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 The date the survey was conducted	9/28/2012

Cementing KPI Survey	
Type of Job Select the type of job. (Cementing or Non-Cementing)	0
Select the Maximum Deviation range for this Job What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	4.5
HSE Incident, Accident, Injury HSE Incident, Accident, Injury. This should be recordable incidents only.	No
Was the job purpose achieved? Was the job delivered correctly as per customer agreed design?	Yes
Operating Hours (Pumping Hours) Total number of hours pumping fluid on this job. Enter in decimal format.	2
Customer Non-Productive Rig Time (hrs) 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.	0
Type of Rig Classification Job Was Performed Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
Number Of JSAs Performed Number Of Jsas Performed	7
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Was this a Primary Cement Job (Yes / No)	No

Sales Order #: 9826904	Line Item: 10	Survey Conducted Date: 9/28/2012
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative: DUSTIN WELSH		API / UWI: (leave blank if unknown) 05-045-20635
Well Name: KP		Well Number: 314-18
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	99
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	97
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