
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**GM 421-4
GRAND VALLEY
Garfield County , Colorado**

Squeeze Perfs
05-Sep-2012

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 300721	Quote #:	Sales Order #: 9780592
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Skalla, Justin		
Well Name: GM	Well #: 421-4	API/UWI #: 05-045-10859	
Field: GRAND VALLEY	City (SAP): TULSA	County/Parish: Garfield	State: Colorado
Lat: N 39.471 deg. OR N 39 deg. 28 min. 15.305 secs.	Long: E 108.115 deg. OR E 108 deg. 6 min. 53.737 secs.		
Contractor: WORKOVER	Rig/Platform Name/Num: WORKOVER		
Job Purpose: Squeeze Perfs			
Well Type: Development Well	Job Type: Squeeze Perfs		
Sales Person: MAYO, MARK	Srvs 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 #
HYDE, DUSTIN C	6.0	453940	MILLER, KEVIN Paul	6.0	443040	MILLER II, MATTHEW Reginald	6.0	425164
WYCKOFF, RYAN Scott	6.0	476117						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248066	60 mile	10951245	60 mile	11223557	60 mile	11583915	60 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
9/5/2012	6.0	3						

TOTAL	Total is the sum of each column separately							
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Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	05 - Sep - 2012	05:00	MST
Form Type		BHST	Job Started	05 - Sep - 2012	06:30	MST
Job depth MD	4508. ft	Job Depth TVD	Job Completed	05 - Sep - 2012	08:34	MST
Water Depth		Wk Ht Above Floor	Departed Loc	05 - Sep - 2012	10:15	MST
Perforation Depth (MD)	From 4613	To 4709			12:00	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
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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	4 1/2	1		4750	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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
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1	Injection Test		23.00	bbl	8.33	.0	.0	.0	
2	SqueezeCem Tail Cement	SQUEEZECEM (TM) SYSTEM (452971)	150.0	sacks	15.8	1.15	4.97		4.97
	4.97 Gal	FRESH WATER							
3	Displacement		17.40	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures		Volumes					
Displacement	17.4	Shut In: Instant		Lost Returns	0	Cement Slurry	30.7	Pad	
Top Of Cement		5 Min		Cement Returns	0	Actual Displacement	17.4	Treatment	
Frac Gradient		15 Min		Spacers	0	Load and Breakdown		Total Job	71.1
Rates									
Circulating		Mixing	2	Displacement	.8	Avg. Job			1.4
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					

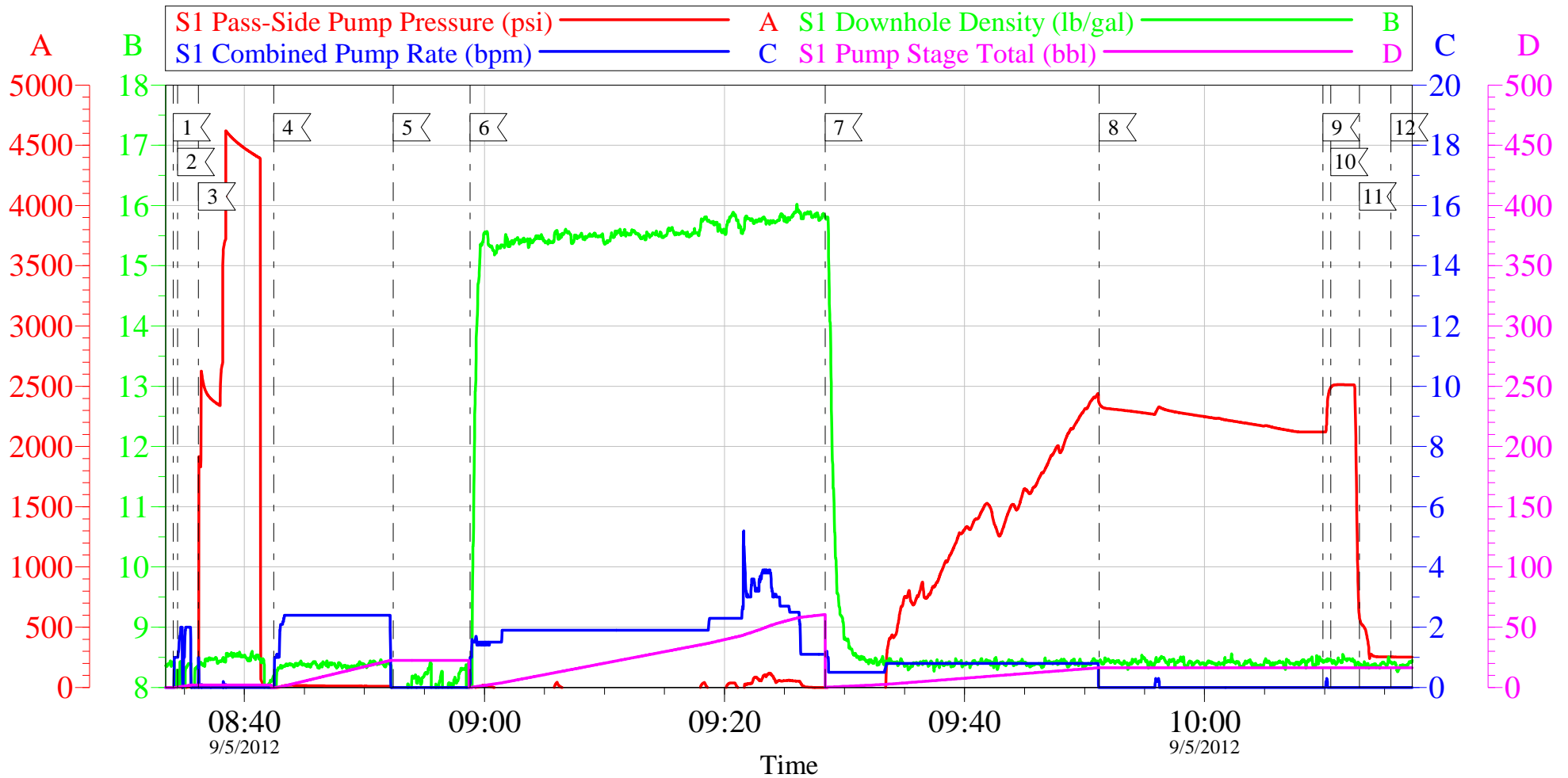
The Road to Excellence Starts with Safety

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Well Name: GM	Well #: 421-4	API/UWI #: 05-045-10859	
Field: GRAND VALLEY	City (SAP): TULSA	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.471 deg. OR N 39 deg. 28 min. 15.305 secs.		Long: E 108.115 deg. OR E 108 deg. 6 min. 53.737 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	09/05/2012 05:00							RED TIGER
Pre-Convoy Safety Meeting	09/05/2012 05:30							ALL HES EMPLOYEES
Arrive At Loc	09/05/2012 06:30							ARRIVE AT LOCATION AT 06:30
Assessment Of Location Safety Meeting	09/05/2012 06:31							ALL HES EMPLOYEES
Pre-Rig Up Safety Meeting	09/05/2012 06:35							ALL HES EMPLOYEES
Rig-Up Equipment	09/05/2012 06:36							1 HT-400 PUMP (RED TIGER), 1 BODY LOAD, 1 F-450 PICKUP
Pre-Job Safety Meeting	09/05/2012 08:30							ALL HES EMPLOYEES AND RIG CREW
Rig-Up Completed	09/05/2012 08:33							
Start Job	09/05/2012 08:34							TP 4508, TUBING 2 3/8 4.7# J-55, PACKER @ 4750, PERFS FROM 4613 TO 4709, CSG 4 1/2 11.6# PRODUCED WATER FOR WELL FLUID
Pressure Test	09/05/2012 08:36					4500		PRESSURE TEST TO 4500 PSI
Injection Test	09/05/2012 08:42		2.5	23	23	13.0		PUMP 23 FRESH WATER INJECTION TEST, NO PRESSURE
Shutdown	09/05/2012 08:52							SHUTDOWN TO MIX UP TUB OF CEMENT
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pump Tail Cement	09/05/2012 08:58		2	30.7	30.7	73.0		150 SKS 15.8# 1.15 YIELD 4.97 GAL/ SK WEIGHT VERIFIED VIA MUD SCALES THROUGHOUT TAIL CEMENT, DOWNHOLE DENSITY DID NOT COME UP DUE TO WELL BEING ON A SUCK, CEMENT VOLUMES ARE NOT ACCURATE DUE TO PUMP CAVITAION
Pump Displacement	09/05/2012 09:28		0.8	17.4	17.4	2390. 0		PUMP FRESH WATER DISPLACEMENT
Shutdown	09/05/2012 09:51			17	17			SHUTDOWN/ HESITATE .4 BBLS OF CEMENT LEFT IN TUBING
Other	09/05/2012 10:09			0.1	0.1	2507. 0		SQUEEZE CEMENT INTO PERFS
Shutdown	09/05/2012 10:10							RIG UNSET PACKER AND REVERSE CIRCULATED WELL WITH 25 BBLS OF WATER AT 2.5 BBLS/MIN, 2 BBLS OF CEMENT CIRCULATED OUT
End Job	09/05/2012 10:15							NO DERICK CHARGE, NO ADD HOURS, NO TUBING ROTARY SUB, NO SUGAR
Pre-Rig Down Safety Meeting	09/05/2012 10:30							
Pre-Convoy Safety Meeting	09/05/2012 10:32							
Crew Leave Location	09/05/2012 12:31							THANK YOU FOR USING HALLIBURTON CEMENT RYAN WYCKOFF AND CREW

WPX GM 421-4 SQUEEZE



Local Event Log

1 START JOB	08:34:04	2 FILL LINES	08:34:26	3 PRESSURE TEST	08:36:11
4 PUMP INJECTION TEST	08:42:28	5 SHUTDOWN	08:52:25	6 PUMP TAIL CEMENT	08:58:48
7 PUMP H2O DISPLACEMENT	09:28:23	8 HESITATE	09:51:13	9 SQUEEZE PERFS	10:09:51
10 SHUTDOWN	10:10:31	11 BLEED PRESSURE	10:12:54	12 END JOB	10:15:32

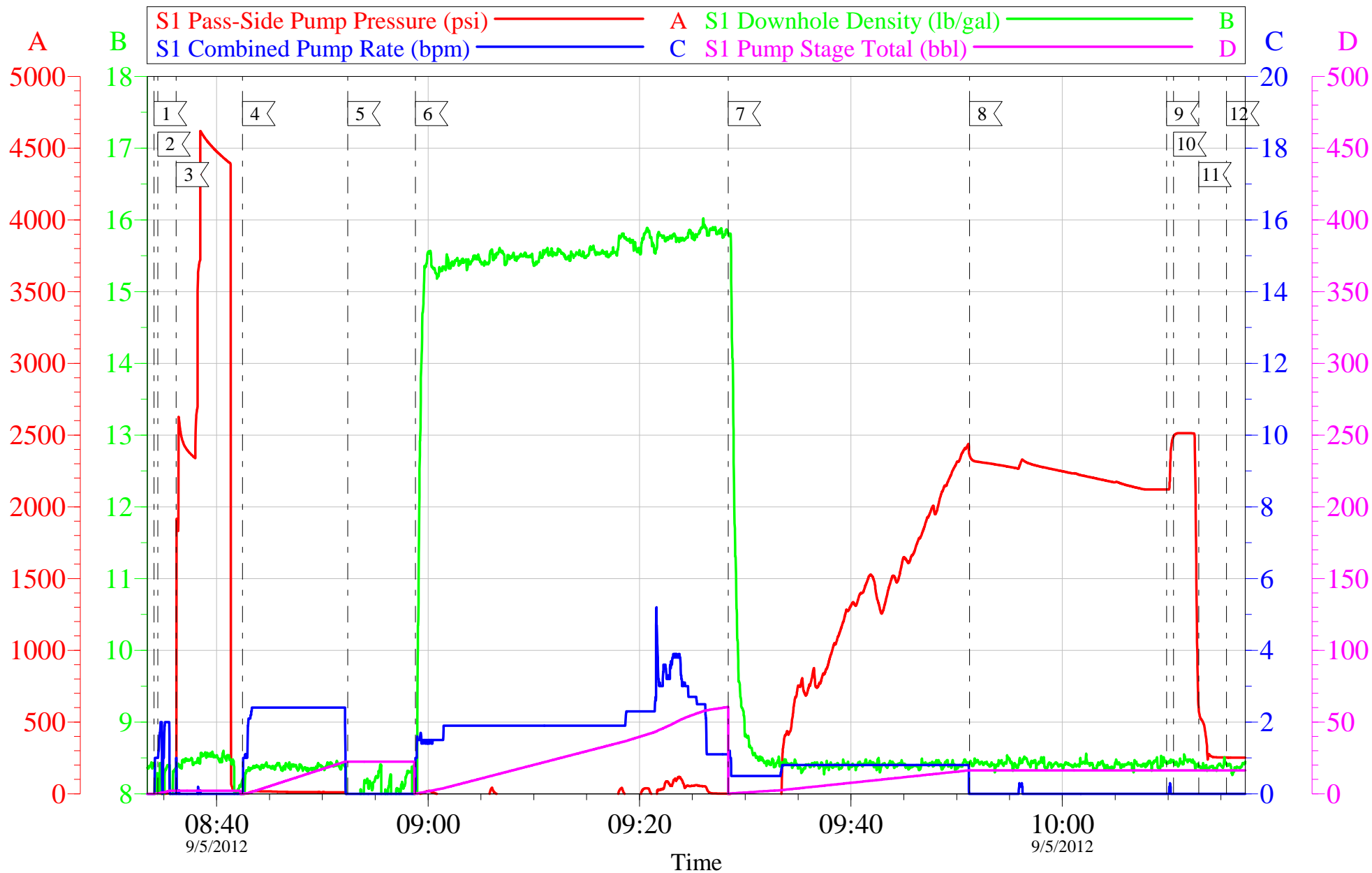
Customer: WPX
Well Description: GM 421-4
Company Rep: JUSTIN SKALLA

Job Date: 05-Sep-2012
Job Type: SQUEEZE
Cement Supervisor: RYAN WYCKOFF

Sales Order #: 9780592
ADC Used: YES
Elite #: 7

OptiCem v6.4.10
05-Sep-12 10:41

WPX GM 421-4 SQUEEZE



Customer: WPX	Job Date: 05-Sep-2012	Sales Order #: 9780592
Well Description: GM 421-4	Job Type: SQUEEZE	ADC Used: YES
Company Rep: JUSTIN SKALLA	Cement Supervisor: RYAN WYCKOFF	Elite #: 7

HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: RYAN WYCKOFF
Attention: J. TROUT/C.MARTINEZ
Lease: GM
Well #: 421-4

Date: 9/5/2012
Date Rec.: 9/5/2012
S.O.#: 9780592
Job Type: SQUEEZE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	400 Mg / L
Calcium (Ca)	<i>500</i>	140 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>	64 Deg
Total Dissolved Solids		950 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 #: 9780592	Line Item: 10	Survey Conducted Date: 9/5/2012
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-10859
Well Name: GM		Well Number: 421-4
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	9/5/2012
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)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

CUSTOMER SIGNATURE

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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	9/5/2012
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)	5
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)	3
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:		API / UWI: (leave blank if unknown) 05-045-10859
Well Name: GM		Well Number: 421-4
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