
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**PA 512-11
Parachute
Garfield County , Colorado**

**Squeeze Perfs
02-Aug-2013**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2994659	Quote #:	Sales Order #: 900641120
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep:	
Well Name: PA		Well #: 512-11	API/UWI #: 05-045-21829
Field: Parachute	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.453 deg. OR N 39 deg. 27 min. 10.39 secs.		Long: W 107.967 deg. OR W -108 deg. 1 min. 57.274 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: KEANE, JOHN	MBU ID Emp #: 486519

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANKS, BRENT A	0.0	371353	DEUSSEN, EDWARD Eric	0.0	485182	HONE, AARON D	0.0	381285
KEANE, JOHN Donovon	0.0	486519						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10616651C	60 mile	10867423	60 mile	11259881	60 mile	11562538	60 mile
11808827	60 mile	12037685	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	
Formation Depth (MD)			On Location	02 - Aug - 2013	00:30	MST	
Form Type		BHST	Job Started	02 - Aug - 2013	04:00	MST	
Job depth MD	5844. ft	Job Depth TVD	5844. ft	Job Started	02 - Aug - 2013	08:07	MST
Water Depth		Wk Ht Above Floor	7. ft	Job Completed	02 - Aug - 2013	09:59	MST
Perforation Depth (MD)	<i>From</i>	<i>To</i>	Departed Loc	02 - Aug - 2013	11:00	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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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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
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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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Stage/Plug #: 1									
1	Injection Test		15.00	bbl	8.34	.0	.0	.0	
2	SqueezeCem Lead Cement	SQUEEZECEM (TM) SYSTEM (452971)	75.0	sacks	15.8	1.15	4.98		4.98
	4.98 Gal	FRESH WATER							
3	SqueezeCem Tail Cement	SQUEEZECEM (TM) SYSTEM (452971)	50.0	sacks	17.	.99	3.77		3.77
	3.77 Gal	FRESH WATER							
4	Displacement		22.00	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

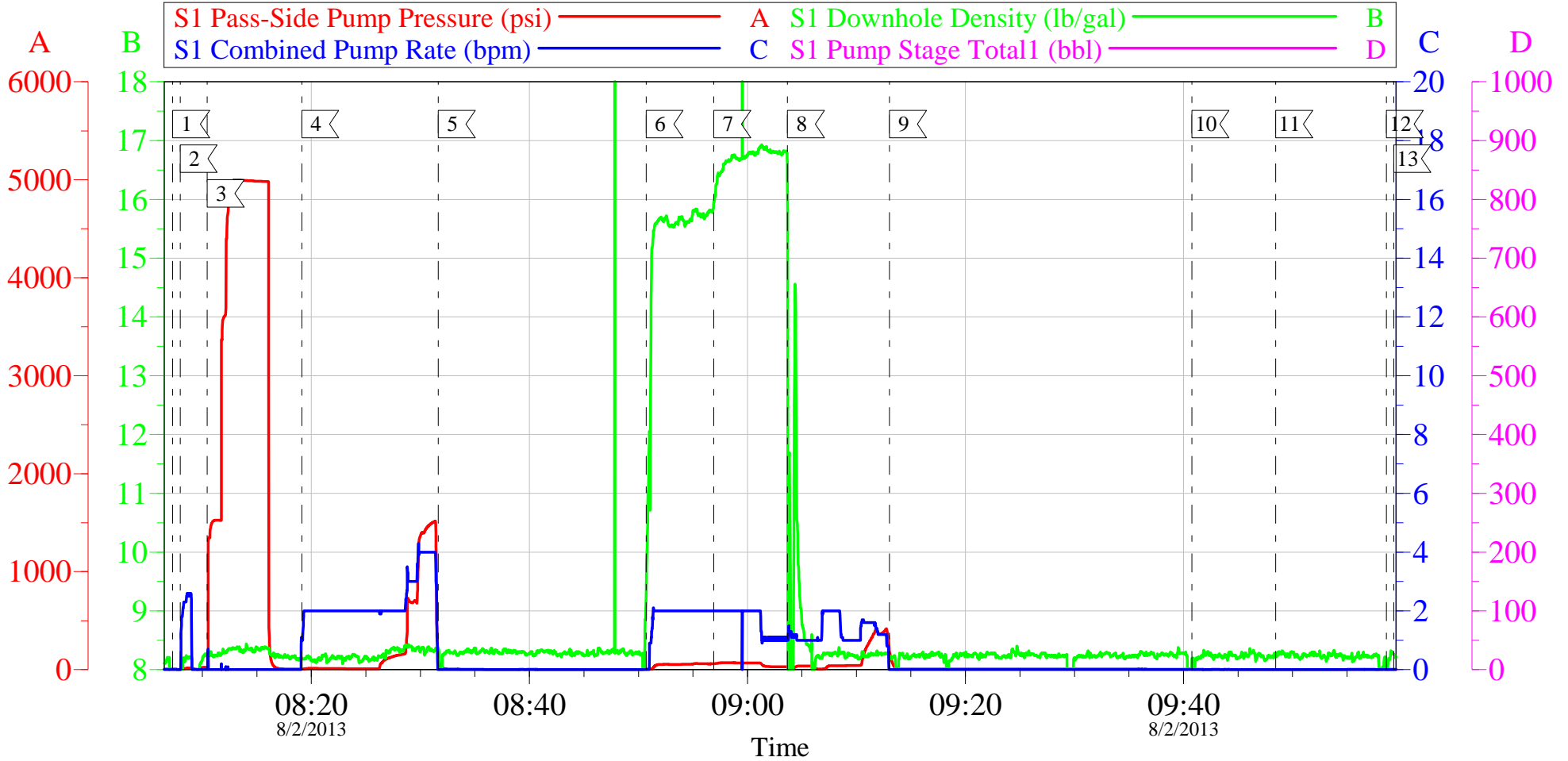
Sold To #: 300721	Ship To #: 2994659	Quote #:	Sales Order #: 900641120
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep:	
Well Name: PA		Well #: 512-11	API/UWI #: 05-045-21829
Field: Parachute	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.453 deg. OR N 39 deg. 27 min. 10.39 secs.		Long: W 107.967 deg. OR W -108 deg. 1 min. 57.274 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: KEANE, JOHN	MBU ID Emp #: 486519

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	08/02/2013 00:30							
Pre-Convoy Safety Meeting	08/02/2013 02:30							WITH HES
Arrive At Loc	08/02/2013 04:00							HES WAITING FOR WORKOVER CREW TO ARRIVE
Assessment Of Location Safety Meeting	08/02/2013 04:15							WITH HES
Pre-Rig Up Safety Meeting	08/02/2013 06:15							WITH HES
Rig-Up Equipment	08/02/2013 06:30							
Pre-Job Safety Meeting	08/02/2013 07:50							WITH HES, WPX, AND MONUMENT WELL SERVICE
Start Job	08/02/2013 08:07							5739 FT 2.375 IN 4.6 LB/FT TUBING, RETAINER SET AT 5739 FT, BRIDGE PLUG SET AT 6060 FT, TP AT 5844 FT, BP AT 6043 FT, CSG 4.5 IN 11.6 LB/FT I-80, RIG HOLDING 500 PSI ON THE BACKSIDE
Pump Water	08/02/2013 08:08		2	2			10.0	FILL LINES
Test Lines	08/02/2013 08:10							LOW TEST AT 1525 PSI, HIGH TEST AT 4999 PSI, PRESSURE HOLDING
Injection Test	08/02/2013 08:19		4	28			1500.0	FRESH WATER, ISIP 365 PSI
Shutdown	08/02/2013 08:31							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	08/02/2013 08:50		2	15.4			26.0	MIXED AT 15.8 LB/GAL, 75 SKS, 1.15 FT3/SK, 4.98 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Pump Tail Cement	08/02/2013 08:57		2	8.8			50.0	MIXED AT 17.0 LB/GAL, 50 SKS, .99 FT3/SK, 3.77 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Pump Displacement	08/02/2013 09:03		1				400.0	FRESH WATER
Shutdown	08/02/2013 09:12						415.0	SHUTDOWN WITH 21 BBL AWAY
Comment	08/02/2013 09:24							BEGAN HESITATING ON CEMENT LEFT 1BBL IN THE WORKSTRING, PRESSURE DROP TO 5 PSI AFTER THE INITIAL SHUTDOWN, DISPLACED 21.7 BBL
Reverse Circ Well	08/02/2013 09:58		2	33.3			5.0	STUNG OUT OF THE RETAINER, REVERSED OUT USING RIG PUMPS, 1 BBL CEMENT CIRCULATED TO SURFACE
End Job	08/02/2013 09:59							75 SKS LEAD CEMENT IN THE FORMATION, 50 SKS TAIL CEMENT IN THE FORMATION, RIG USED 40 LBS OF SUGAR, NO ADD HOURS CHARGED
Pre-Rig Down Safety Meeting	08/02/2013 10:10							WITH HES
Rig-Down Equipment	08/02/2013 10:15							
Pre-Convoy Safety Meeting	08/02/2013 10:50							WITH HES
Crew Leave Location	08/02/2013 11:00							
Comment	08/02/2013 11:01							THANKS FOR USING HALLIBURTON, JOHN KEANE AND CREW

WPX - PA-512-11

SQUEEZE

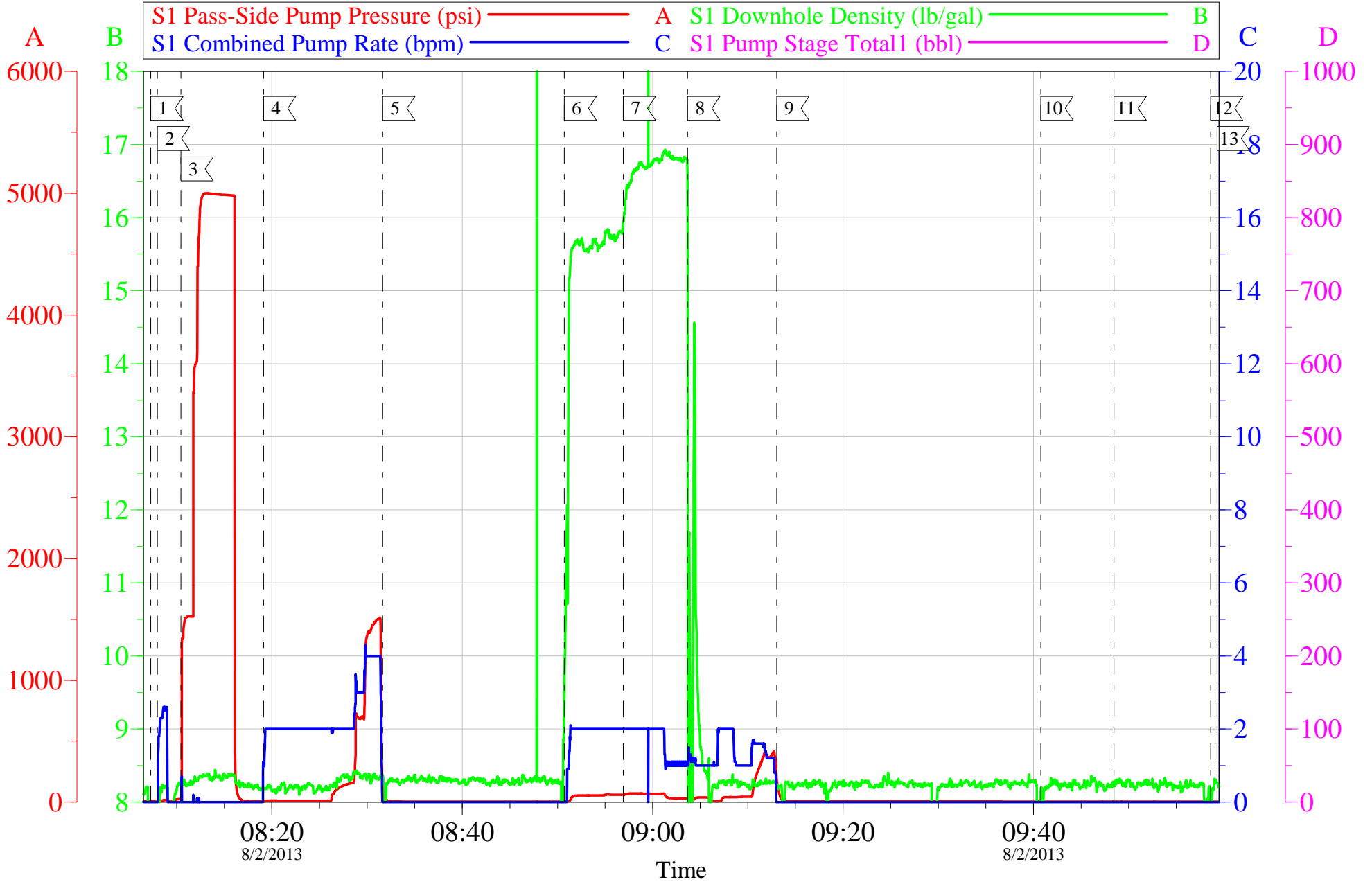


Local Event Log								
1	START JOB	08:07:16	2	FILL LINES	08:07:57	3	TEST LINES	08:10:26
4	INJECTION TEST	08:19:07	5	SHUTDOWN ISIP	08:31:38	6	PUMP LEAD CEMENT	08:50:43
7	PUMP TAIL CEMENT	08:56:55	8	PUMP DISPLACEMENT	09:03:40	9	SHUTDOWN / HESISTATE 1	09:13:03
10	SHUTDOWN/ HESISTATE 2	09:40:47	11	SHUTDOWN/ HESISTATE 3	09:48:28	12	STING OUT / REVERSE OUT	09:58:37
13	END JOB	09:59:17						

Customer:	WPX	Job Date:	02-Aug-2013	Sales Order #:	900641120
Well Description:	PA-512-11	Job Type:	SQUEEZE	ADC Used:	YES
Company Rep:	DUSTIN WELSH	Cement Supervisor:	JOHN KEANE	Elite #4:	BRENT BANKS

WPX - PA-512-11

SQUEEZE



Customer: WPX	Job Date: 02-Aug-2013	Sales Order #: 900641120
Well Description: PA-512-11	Job Type: SQUEEZE	ADC Used: YES
Company Rep: DUSTIN WELSH	Cement Supervisor: JOHN KEANE	Elite #4: BRENT BANKS

HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: JOHN KEANE
Attention: CHUCK ROSS
Lease: PA
Well #: 512=11

Date: 8/3/2013
Date Rec.: 8/3/2013
S.O.#: 900641120
Job Type: SQUEEZE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	8
Potassium (K)	<i>5000</i>	120 Mg / L
Calcium (Ca)	<i>500</i>	200 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	120 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	68 Deg
Total Dissolved Solids		330 Mg / L

Respectfully: JOHN KEANE

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 #: 900641120	Line Item: 10	Survey Conducted Date: 8/2/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative: DUSTIN WELSH		API / UWI: (leave blank if unknown) 05-045-21829
Well Name: PA		Well Number: 512-11
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	8/2/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	JOHN KEANE (HB58526)
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 #: 900641120	Line Item: 10	Survey Conducted Date: 8/2/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative: DUSTIN WELSH		API / UWI: (leave blank if unknown) 05-045-21829
Well Name: PA		Well Number: 512-11
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	8/2/2013
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)	1
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

Sales Order #: 900641120	Line Item: 10	Survey Conducted Date: 8/2/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative: DUSTIN WELSH		API / UWI: (leave blank if unknown) 05-045-21829
Well Name: PA		Well Number: 512-11
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	96
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	99.9
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