
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**PA 24-31
Parachute
Garfield County , Colorado**

Squeeze Perfs
29-Aug-2012

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2947386	Quote #:	Sales Order #: 9765284
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Skalla, Justin	
Well Name: PA		Well #: 24-31	API/UWI #: 05-045-14833
Field: Parachute	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.476 deg. OR N 39 deg. 28 min. 33.082 secs.		Long: W 108.044 deg. OR W -109 deg. 57 min. 20.52 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: CHASTAIN, DERICK	MBU ID Emp #: 455848

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BLOSSOM, SHAWN Lawrence	6	454483	CHASTAIN, DERICK Allan	6	455848	ENGBERG, KEVIN W	6	454218
HAMMOND, DENNIS C	6	287025	MEYERS, GARY W	6	524819	SIMINEO, JEROD M	6	479954

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10784080	60 mile	10872429	60 mile	10951251	60 mile	11164590	60 mile
11360883	60 mile	11808847	60 mile				

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
8/29/2012	6	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	29 - Aug - 2012	07:00	MST
Form Type		BHST	Job Started	29 - Aug - 2012	10:09	MST
Job depth MD	3954. ft	Job Depth TVD	3954. ft	Job Completed	29 - Aug - 2012	11:40
Water Depth		Wk Ht Above Floor	3. ft	Departed Loc	29 - Aug - 2012	13:00
Perforation Depth (MD)	From	To				

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
1	Injection Test		0.00	bbl	8.33	.0	.0	.0	
2	SqueezeCem Tail Cement	SQUEEZECEM (TM) SYSTEM (452971)	25.0	sacks	15.8	1.47	4.97	1.5	4.97
	4.97 Gal	FRESH WATER							
3	Displacement		14.00	bbl	8.33	.0	.0	2	
Calculated Values		Pressures		Volumes					
Displacement	13.9	Shut In: Instant		Lost Returns		Cement Slurry	5.1	Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement	12.5	Treatment	
Frac Gradient		15 Min		Spacers	5	Load and Breakdown		Total Job	25
Rates									
Circulating		Mixing	1.5	Displacement	2	Avg. Job		1	
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 @
The Information Stated Herein Is Correct				Customer Representative Signature					

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Well Name: PA	Well #: 24-31	API/UWI #: 05-045-14833	
Field: Parachute	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.476 deg. OR N 39 deg. 28 min. 33.082 secs.		Long: W 108.044 deg. OR W -109 deg. 57 min. 20.52 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: CHASTAIN, DERICK	MBU ID Emp #: 455848

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	08/29/2012 03:00							DISPATCH CALLS OUT CREW
Pre-Convoy Safety Meeting	08/29/2012 05:30							WITH ALL HES PERSONNEL
Arrive at Location from Service Center	08/29/2012 07:00							RIG CREW NOT ON LOCATION YET
Assessment Of Location Safety Meeting	08/29/2012 07:45							WITH ALL HES PERSONNEL
Other	08/29/2012 08:00							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	08/29/2012 08:45							WITH ALL HES PERSONNEL
Rig-Up Equipment	08/29/2012 09:00							1 ELITE PUMP TRUCK, 1 660 BULK TRUCK, 1 F-450 PICKUP
Pre-Job Safety Meeting	08/29/2012 09:40							WITH ALL PERSONNEL ON LOCATION
Start Job	08/29/2012 10:09							2.375" 4.7# J-55 TUBING SET AT 3954', 4.5" 11.6# CASING 2 PERFORATIONS AT 7280', 8.4 PPG PROD. H2O WF
Other	08/29/2012 10:09		2	2			270.0	FILL LINES
Test Lines	08/29/2012 10:10							STAGED TEST AT 1820 PSI, THEN TESTED TO 2056 PSI. HELD PRESSURE FOR 2 MIN, NO LEAKS.
Pump Spacer	08/29/2012 10:17		1.5	5			10.0	FRESH WATER
Shutdown	08/29/2012 10:23							MIX TUB UP
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl		Pressure psig		Comments

Sold To # : 300721

Ship To # :2947386

Quote # :

Sales Order # :

9765284

SUMMIT Version: 7.3.0040

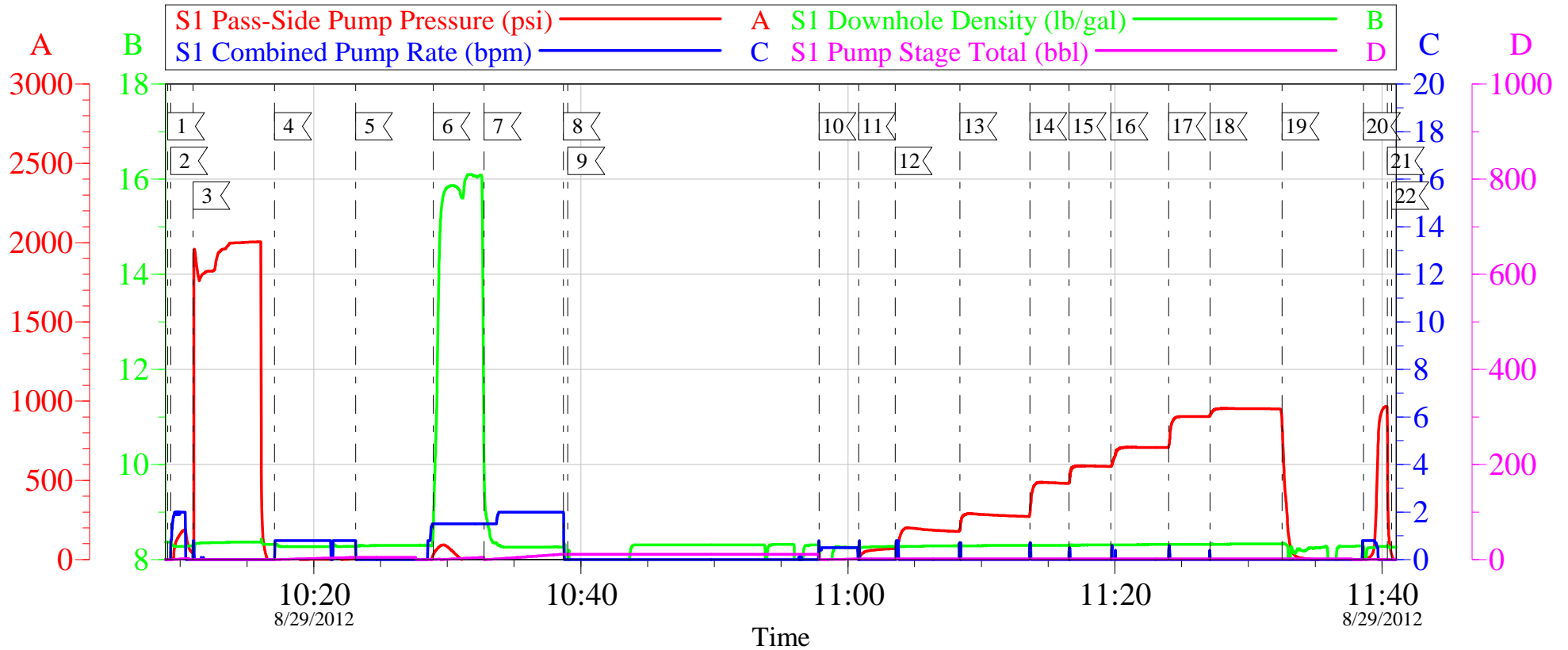
Wednesday, September 12, 2012 10:55:00

		#		Stage	Total	Tubing	Casing	
Pump Cement	08/29/2012 10:28		1.5	5.1			10.0	25 SKS AT 15.8 PPG, 1.15 FT3/SK, 4.97 GAL/SK. WE ONLY USED 25 SACKS OUT OF THE 50 DELIVERED. THIS LEFT 25 SKS IN THE BULK TRUCK.
Pump Displacement	08/29/2012 10:32		2	12.5			9.0	FRESH H2O
Shutdown	08/29/2012 10:38							SHUT DOWN, START HESITATION
Other	08/29/2012 10:39							RIG PULLS 13 STANDS OF TUBING
Pump Water	08/29/2012 10:57		2	1.9			126.0	FILL CASING
Shutdown	08/29/2012 11:00							
Pump Water	08/29/2012 11:03		0.8	0.1			250.0	SQUEEZE WITH FRESH H2O
Pump Water	08/29/2012 11:08		0	0			350.0	SQUEEZE WITH FRESH H2O
Pump Water	08/29/2012 11:13		0	0			540.0	SQUEEZE WITH FRESH H2O
Pump Water	08/29/2012 11:16		0	0			645.0	SQUEEZE WITH FRESH H2O
Pump Water	08/29/2012 11:19		0	0			760.0	SQUEEZE WITH FRESH H2O
Pump Water	08/29/2012 11:24		0	0			950.0	SQUEEZE WITH FRESH H2O
Pump Water	08/29/2012 11:27		0	0			1008. 0	SQUEEZE WITH FRESH H2O
Release Casing Pressure	08/29/2012 11:32							1 BBL BACK TO TRUCK
Pressure Up	08/29/2012 11:38		0.8	1			1009. 0	
Shut In Well	08/29/2012 11:40							HELD PRESSURE FOR 1 HOUR.
End Job	08/29/2012 11:40							NO SUGAR USED, NO ADD HOURS.
Pre-Rig Down Safety Meeting	08/29/2012 11:50							WITH ALL HES PERSONNEL
Rig-Down Equipment	08/29/2012 12:00							
Pre-Convoy Safety Meeting	08/29/2012 12:50							WITH ALL HES PERSONNEL
Crew Leave Location	08/29/2012 13:00							LEFT LOCATION FREE OF DEBRESS
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Comment	08/29/2012 13:00							THANK YOU FOR CHOOSING HALLIBURTON. DERICK CHASTAIN AND CREW.
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WPX ENERGY - PA 24-31

2 3/8" SQUEEZE



Local Event Log

1 START JOB	10:09:03	2 FILL LINES	10:09:17	3 TEST LINES	10:10:57
4 PUMP H2O SPACER	10:17:04	5 SHUTDOWN	10:23:08	6 PUMP CEMENT	10:28:57
7 PUMP DISPLACEMENT	10:32:45	8 SHUTDOWN	10:38:42	9 RIG PULLS STANDS	10:39:01
10 FILL CASING	10:57:50	11 SHUTDOWN	11:00:48	12 PUMP	11:03:33
13 PUMP	11:08:24	14 PUMP	11:13:38	15 PUMP	11:16:34
16 PUMP	11:19:42	17 PUMP	11:24:02	18 PUMP	11:27:08
19 RELEASE PRESSURE	11:32:31	20 PRESSURE UP	11:38:37	21 SHUT IN PRESSURE	11:40:24
22 END JOB	11:40:44				

Customer: WPX
Well Description: PA 24-31
Company Rep: JUSTIN SKALLA

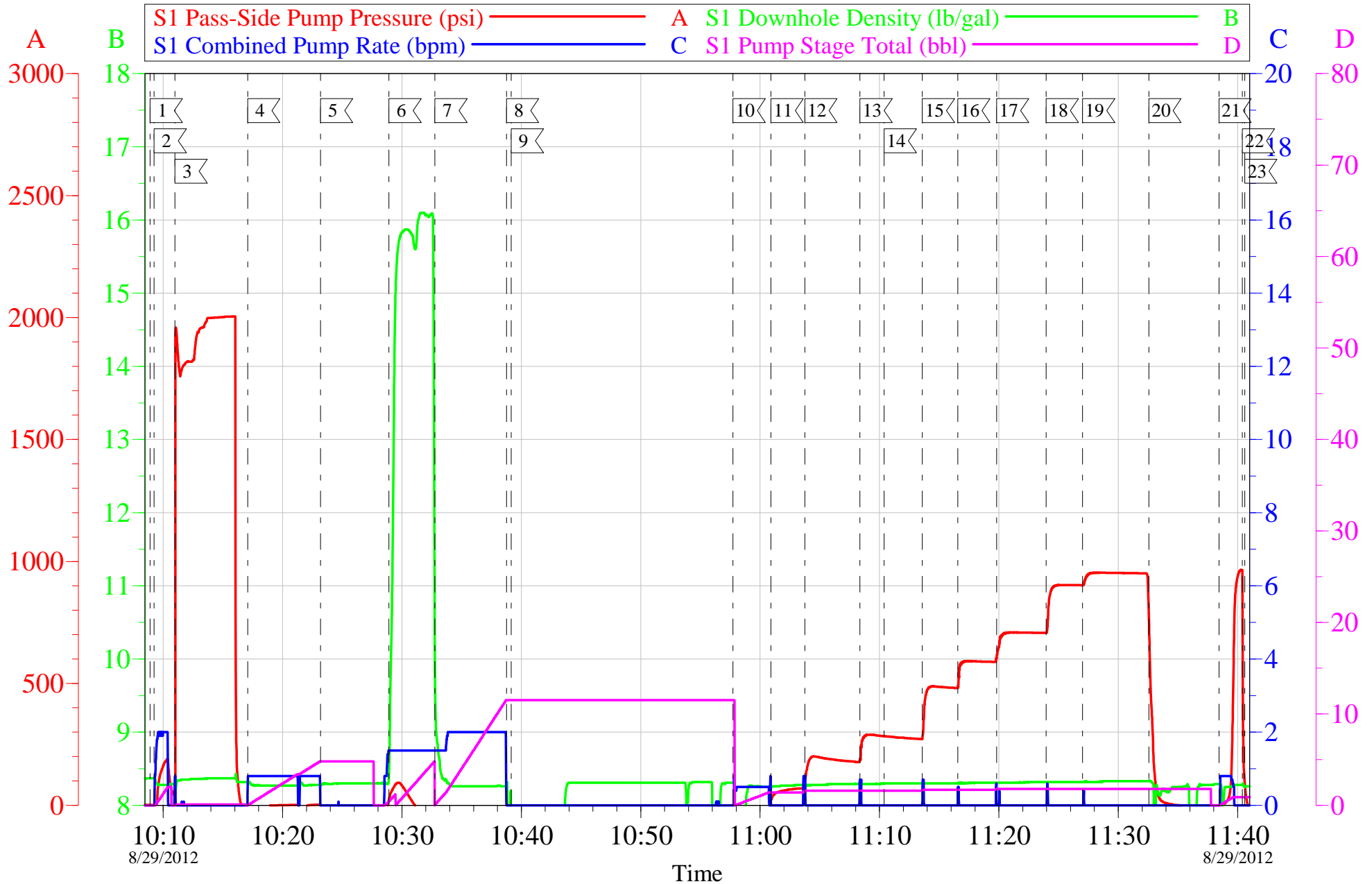
Job Date: 29-Aug-2012
Job Type: SQUEEZE
Cement Supervisor: DERICK CHASTAIN

Sales Order #: 9765284
ADC Used: YES
Elite #7: JEROD SIMINEO

OptiCem v6.4.10
29-Aug-12 11:59

WPX ENERGY - PA 24-31

2 3/8" SQUEEZE



Customer:	WPX ENERGY	Job Date:	29-Aug-2012	Sales Order #:	9765284
Well Description:	PA 24-31	Job Type:	SQUEEZE	ADC Used:	YES
Company Rep:	JUSTIN SKALLA	Cement Supervisor:	DERICK CHASTAIN	Elite #7:	JEROD SIMINEO

OptiCem v6.4.10
29-Aug-12 12:18

HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: DERICK CHASTAIN

Attention: J. Trout

Lease PA

Well # 24-31

Date: 8/29/2012

Date Rec.: 8/29/2012

S.O.# 9765284

Job Type: SQUEEZE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>0</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>0</i> Mg / L
Iron (FE2)	<i>300</i>	<i>200</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>0</i> Mg / L
Sulfates (SO ₄)	<i>1500</i>	<i><200</i> Mg / L
Chlorine (Cl ₂)		<i>0</i> Mg / L
Temp	<i>40-80</i>	<i>55</i> Deg
Total Dissolved Solids		<i>210</i> Mg / L

Respectfully: DERICK CHASTAIN

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 #: 9765284	Line Item: 10	Survey Conducted Date: 8/29/2012
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-14833
Well Name: PA		Well Number: 24-31
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	8/29/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	DERICK CHASTAIN (HB23225)
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

Sales Order #: 9765284	Line Item: 10	Survey Conducted Date: 8/29/2012
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-14833
Well Name: PA		Well Number: 24-31
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	8/29/2012
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)	2
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	Workover
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	9
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) 05-045-14833
Well Name: PA		Well Number: 24-31
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	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 +/- 1bbl/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