
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**SG 344-23
S. GRAND VALLEY
Garfield County , Colorado**

**Squeeze Perfs
03-Apr-2013**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2975553	Quote #:	Sales Order #: 900337866
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Welsh, Dustin	
Well Name: SG		Well #: 344-23	API/UWI #:
Field:	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
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: ARNOLD, EDWARD	MBU ID Emp #: 439784

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ARNOLD, EDWARD John	4	439784	LAULAINEN, ROGER Edward	4	524413	SALAZAR, PAUL Omar	4	445614
ZUMWALT, ORVILLE Raymond	4	398157						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248065	60 mile	10713212	60 mile	10872429	60 mile	10951245	60 mile
11360871	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
4-3-2013	4	4						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Job			Date	Time	Time Zone
Formation Depth (MD) Top	Bottom	Called Out	03 - Apr - 2013	08:00	MST	
Form Type	BHST	On Location	03 - Apr - 2013	11:30	MST	
Job depth MD	1900. ft	Job Depth TVD	03 - Apr - 2013	12:41	MST	
Water Depth		Wk Ht Above Floor	03 - Apr - 2013	14:13	MST	
Perforation Depth (MD) From	To	Departed Loc	03 - Apr - 2013	15:30	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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

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

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		15.00	bbl	.	.0	.0	2		
2	Squeeze Lead Cement	SQUEEZECEM (TM) SYSTEM (452971)	200.0	sacks	15.8	1.15	5.0	3	5.0	
	5 Gal	FRESH WATER								
3	SqueezeCem Tail Cement	SQUEEZECEM (TM) SYSTEM (452971)	50.0	sacks	17.	.99	3.77	3	3.77	
	3.77 Gal	FRESH WATER								
4	Fresh Water Spacer		29.00	bbl	.	.0	.0	3		
Calculated Values			Pressures			Volumes				
Displacement	29.5	Shut In: Instant		Lost Returns		Cement Slurry	49.7	Pad		
Top Of Cement		5 Min		Cement Returns	0	Actual Displacement	26.5	Treatment		
Frac Gradient		15 Min		Spacers	15	Load and Breakdown		Total Job	91.2	
Rates										
Circulating		Mixing	3	Displacement	3	Avg. Job	3			
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

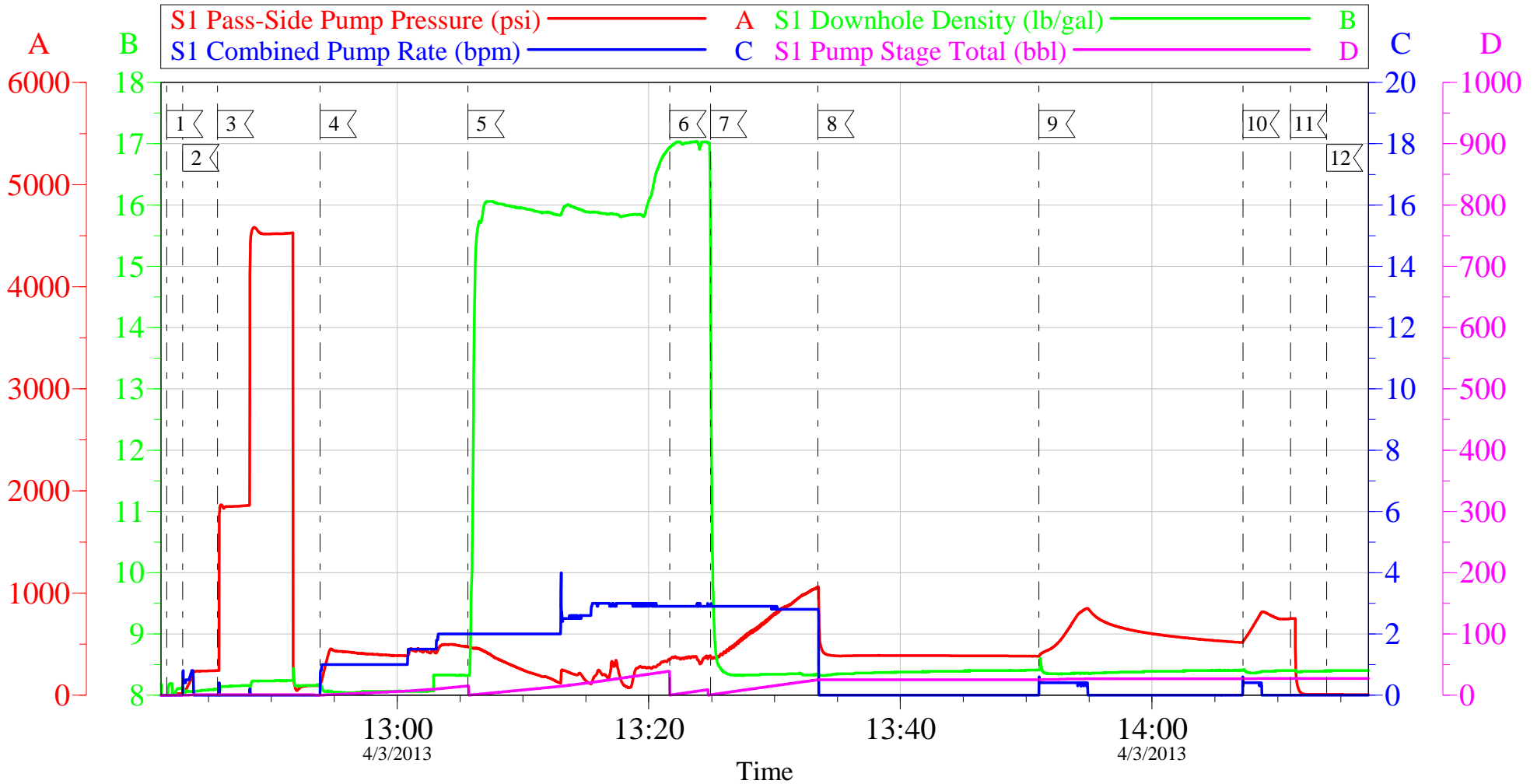
Sold To #: 300721	Ship To #: 2975553	Quote #:	Sales Order #: 900337866
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Welsh, Dustin	
Well Name: SG	Well #: 344-23	API/UWI #:	
Field:	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 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: ARNOLD, EDWARD	MBU ID Emp #: 439784

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	04/03/2013 08:00							Crew called out.
Pre-Convoy Safety Meeting	04/03/2013 09:45							Including entire cement crew, discuss hazards, route, and safety.
Crew Leave Yard	04/03/2013 10:00							Leave yard for location.
Arrive At Loc	04/03/2013 11:30							
Assessment Of Location Safety Meeting	04/03/2013 11:40							Including entire cement crew, discussed hazards, and rig up.
Pre-Rig Up Safety Meeting	04/03/2013 11:45							
Rig-Up Equipment	04/03/2013 11:50							1 Elite # 7; 1 660 Bulk Truck; 1 400 body load; 1 hard line to casing valve; 1 line to water truck.
Rig-Up Completed	04/03/2013 12:20							
Pre-Job Safety Meeting	04/03/2013 12:30							Including everyone on location. Discussed hazards, emergency situations, and job procedure.
Start Job	04/03/2013 12:41							4 1/2" 11.6# N-80 production casing, perf's at 1900, cement in casing at 1920. Rigged up to casing valve to pump job.
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pump Water	04/03/2013 12:42		0.5	0.5			230.0	Fresh water ahead to fill lines. Boosted water ahead to fill lines kicked in pump and shut down at 230 psi.
Test Lines	04/03/2013 12:45						4581.0	Test line to 4500 psi, Found no leaks, good test.
Injection Test	04/03/2013 12:53		2	15			480.0	15 bbl. injection test. Got returns right away and mixed up the first tub.
Pump Lead Cement	04/03/2013 13:05		3	40.9			300.0	200 sks Lead cement, 15.8 ppg, 1.15 cf3, 5 gal/sk.
Pump Tail Cement	04/03/2013 13:21		3	8.8			383.0	50 sks Tail cement, 17 ppg, 0.99 cf3, 3.77 gal/sk.
Pump Displacement	04/03/2013 13:24		3	25			1055.0	Fresh water displacement.
Shutdown	04/03/2013 13:33							Shut down to stage cement at 25 bbl.'s of displacement gone.
Stage Cement	04/03/2013 13:51		0.5	1	26		840.0	Stage Cement
Stage Cement	04/03/2013 14:07		0.5	0.5	26.5		830.0	Stage Cement. Pressure held.
Shut In Well	04/03/2013 14:11						750.0	Shut in well with 750 psi on well.
End Job	04/03/2013 14:13							
Pre-Rig Down Safety Meeting	04/03/2013 14:20							Including entire cement crew, discussed hazards and safety.
Rig-Down Equipment	04/03/2013 14:30							
Pre-Convoy Safety Meeting	04/03/2013 15:15							Including entire cement crew, discussed hazards, route, and safety.
Crew Leave Location	04/03/2013 15:30							
Other	04/03/2013 15:30							Thank You for using Halliburton, Ed Arnold and Crew.

WPX - SG 344-23

SQUEEZE

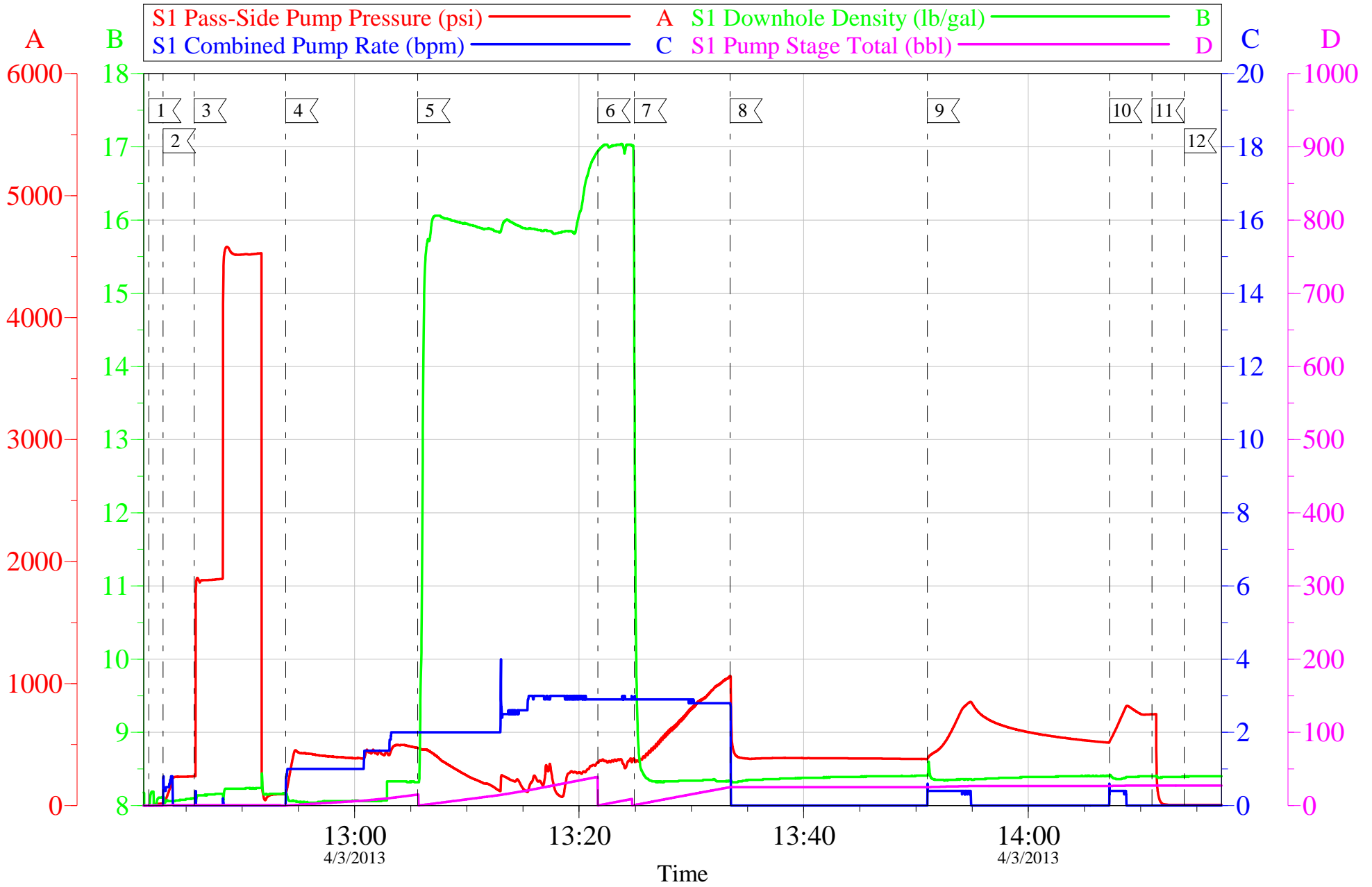


1	START JOB	12:41:40	2	FILL LINES	12:42:57	3	TEST LINES	12:45:43
4	INJECTION TEST	12:53:53	5	LEAD CEMENT	13:05:37	6	TAIL CEMENT	13:21:40
7	H2O DISPLACEMENT	13:24:54	8	SHUT DOWN	13:33:27	9	STAGE CEMENT	13:51:00
10	STAGE CEMENT	14:07:14	11	SHUT IN WELL	14:11:00	12	END JOB	14:13:52

Customer: WPX	Job Date: 03-Apr-2013	Sales Order #: 900337866
Well Description: SG 344-23	Job Type: SQUEEZE	ADC Used: YES
Company Rep: DUSTIN WELSH	Cement Supervisor: ED ARNOLD	Elite #7: PAUL SALAZAR

WPX - SG 344-23

SQUEEZE



Customer: WPX	Job Date: 03-Apr-2013	Sales Order #: 900337866
Well Description: SG 344-23	Job Type: SQUEEZE	ADC Used: YES
Company Rep: DUSTIN WELSH	Cement Supervisor: ED ARNOLD	Elite #7: PAUL SALAZAR

HALLIBURTON

Water Analysis Report

Company: WPX

Date: 4/1/2013

Submitted by: CHRIS KUKUS

Date Rec.: 4/1/2013

Attention: J. TROUT/C.MARTINEZ

S.O.# 900330788

Lease SG

Job Type: SQUEEZE

Well # 344-23

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	6.4
Potassium (K)	<i>5000</i>	0 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>	UNDER 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	53 Deg
Total Dissolved Solids		330 Mg / L

Respectfully: CHRIS KUKUS

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 #: 900337866	Line Item: 10	Survey Conducted Date: 4/3/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative: DUSTIN WELSH		API / UWI: (leave blank if unknown) AFEYKUQ4BGK1SINGAAA
Well Name: SG		Well Number: 344-23
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	4/3/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	EDWARD ARNOLD (HX46731)
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 #: 900337866	Line Item: 10	Survey Conducted Date: 4/3/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative: DUSTIN WELSH		API / UWI: (leave blank if unknown) AFEYKUQ4BGK1SINGAAA
Well Name: SG		Well Number: 344-23
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	4/3/2013
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	Workover
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

Sales Order #: 900337866	Line Item: 10	Survey Conducted Date: 4/3/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative: DUSTIN WELSH		API / UWI: (leave blank if unknown) AFEYKUQ4BGK1SINGAAA
Well Name: SG		Well Number: 344-23
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	100
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

Job Information

Request/Slurry	114409/1	Rig Name		Date	02/DEC/2010
Submitted By		Job Type	Perforation Squeeze	Bulk Plant	Grand Junction
Customer	Williams Companies	Location	Garfield	Well	KP 18-315D

Well Information

Casing/Liner Size		Depth MD	1940 ft	BHST	113 degF
Hole Size		Depth TVD	0 ft	BHCT	97 degF

Drilling Fluid Information

Mud Supplier Name		Mud Trade Name		Density	0 lbm/gal
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Cement Information - Tail Design

Cement/Additive	Sample Type	Sample Date	Lot No.	Cement Properties		
Mountain G				Slurry Density	17.000	lbm/gal
CFR-3 (PB)				Slurry Yield	0.99	ft3/sack
				Water Requirement	3.77	gal/sack
Fresh Water				Total Mix Fluid	3.77	gal/sack

Water Source Fresh Water
Water Chloride N/A

Operation Test Results Request ID 114409/1

Mixability (0 - 5) - 0 is not mixable

Mixability rating (0 - 5)
5

Thickening Time - ON-OFF-ON

Test Temp (°F)	Pressure (psi)	Reached in (min)	30 Bc (hh:min)	50 Bc (hh:min)	70 Bc (hh:min)	100 Bc (hh:min)	Start Bc	Stirring before stop (mins)	Static Period (min)
97	1490	4	01:33	01:47	01:54	01:56	6	20	10

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Job Information

Request/Slurry	2005341/1	Rig Name		Date	20/NOV/2012
Submitted By	Charles Ross	Job Type	Perforation Squeeze	Bulk Plant	
Customer	Halliburton	Location		Well	

Well Information

Casing/Liner Size	4.5"	Depth MD	2000 ft	BHST	114 degF
Hole Size		Depth TVD	2000 ft	BHCT	98 degF

Drilling Fluid Information

Mud Supplier Name	Mud Trade Name	Density
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Cement Information - Squeeze Design

Cement/Additive	Sample Type	Sample Date	Lot No.	Cement Properties		
Mountain G	Lab	16.11.12	Tank 29	Slurry Density	15.798	lbm/gal
				Slurry Yield	1.15	ft3/sack
Fresh Water	Lab	20.09.12		Water Requirement	5.00	gal/sack
				Total Mix Fluid	5.00	gal/sack

Water Source Fresh Water
Water Chloride

Project Test Results Request ID 2005341/1

API Rheology

Temp (°F)	300	200	100	60	30	6	3	Cond Time (min)	PV/YP
98	61	51	42	37	33	25	13	30	39.69 / 25.52

Free Fluid API 10B-2 / ISO 10426-2

Con. Temp (F)	Cond. Time (min)	Static time (min)	Incl. (deg)	% Fluid
98	30	120	45	3.6

Mixability (0 - 5) - 0 is not mixable

Mixability rating (0 - 5)	Avg rpm mixing under load
5	12000

Thickening Time - ON-OFF-ON

Test Temp (°F)	Pressure (psi)	Reached in (min)	30 Bc (hh:min)	50 Bc (hh:min)	70 Bc (hh:min)	100 Bc (hh:min)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
98	1540	4	2:21	3:05	3:38	4:00	2	20	10	5

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UCA Comp. Strength

End Temp (°F)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	12 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)	End CS (psi)	End Time (hrs)
114	3000	2:27	4:34	2301	3055	3527	3783	72

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