
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**TR 31-3-597
TRAIL RIDGE
Garfield County , Colorado**

**Squeeze Perfs
16-Oct-2012**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 2957808		Quote #:		Sales Order #: 9849825	
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: Dunnick, Brian			
Well Name: TR			Well #: 31-3-597			API/UWI #: 05-045-12539	
Field: TRAIL RIDGE		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
Lat: N 39.647 deg. OR N 39 deg. 38 min. 48.347 secs.				Long: W 108.263 deg. OR W -109 deg. 44 min. 12.264 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: CASTILLO, JAVIER			MBU ID Emp #: 513620	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BRENNECKE, ANDREW Bailey	9	486345	CASTILLO, JAVIER	9	513620			
ENGBERG, KEVIN W	9	454218	HONE, AARON D	9	381285	MILLER II, MATTHEW Reginald	9	425164

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10784064	90 mile	10867094	90 mile	10897925	90 mile	10951249	90 mile
11006314	90 mile	11223557	90 mile	11583916	90 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10/16/2012	9	5						

TOTAL Total is the sum of each column separately

Job

Formation Name	Top	Bottom	8233	Called Out	Date	Time	Time Zone
Formation Depth (MD)					10/16/2012	02:00	MST
Form Type		BHST		On Location	16 - Oct - 2012	09:00	MST
Job depth MD	8233. ft	Job Depth TVD	8233. ft	Job Started	16 - Oct - 2012	11:47	MST
Water Depth		Wk Ht Above Floor	3. ft	Job Completed	16 - Oct - 2012	16:43	MST
Perforation Depth (MD)	From 8059	To	8233	Departed Loc	16 - Oct - 2012	18:00	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		
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	2.375	1		8233	Top Plug			
Float Shoe					Bridge Plug	2.375	1		8300	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

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

1	Injection Test			bbl	8.33	.0	.0	4	
2	SqueezeCem Tail Cement	SQUEEZECEM (TM) SYSTEM (452971)		sacks	17.	.99	3.76	2.3	3.76
	3.76 Gal	FRESH WATER							
3	Displacement		31.00	bbl	8.33	.0	.0	2.3	
Calculated Values		Pressures		Volumes					
Displacement	31	Shut In: Instant	800	Lost Returns		Cement Slurry	22	Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	77
Rates									
Circulating	4	Mixing	2.3	Displacement	2.3	Avg. Job			2.8
Cement Left In Pipe	Amount	0 ft	Reason	N/A					
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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 Quote #:
Sales Order #: 9849825

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 Customer Rep: Dunnick, Brian

Well Name: TR
 Well #: 31-3-597
 API/UWI #: 05-045-12539

Field: TRAIL RIDGE
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Legal Description:

Lat: N 39.647 deg. OR N 39 deg. 38 min. 48.347 secs.
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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
 Srv Supervisor: CASTILLO, JAVIER
 MBU ID Emp #: 513620

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pre-Convoy Safety Meeting	10/16/2012 04:15							ALL HES PERSONEL
Crew Leave Yard	10/16/2012 04:22							
Arrive At Loc	10/16/2012 08:45							WE ARRIVED LATE TO LOCATION DUE TO GARDEN GULCH RD BEING CLOSE TILL 07:00HRS
Assessment Of Location Safety Meeting	10/16/2012 08:50							ALL HES PERSONEL
Pre-Rig Up Safety Meeting	10/16/2012 09:00							ALL HES PERSONEL
Rig-Up Equipment	10/16/2012 09:10							RIG UP 1-RED TIGER, 2-660 BULK TRUCKS, AND PUMPING IIRON.
Rig-Up Completed	10/16/2012 11:30							RIG UP TOOK A LONG TIME BECAUSE LOCATION WAS VERY SMALL MAKING IT VERY COMPLICATED TO SPOT TRUCKS
Pre-Job Safety Meeting	10/16/2012 11:37							ALL HES PERSONEL AND RIG CREW
Start Job	10/16/2012 11:47							TUBING-2 3/8 4.7# N-80, CSG-4.5 11.60# I-80. SQ#1 PACKER SET AT 7999', SQ#2 PACKER SET AT 7594', SQ#3 PACKER SET AT 7256'
Other	10/16/2012 11:48		2	2			14.0	FILL LINES
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Sold To # : 300721

Ship To # :2957808

Quote # :

Sales Order # :

9849825

SUMMIT Version: 7.3.0045

Tuesday, October 23, 2012 11:12:00

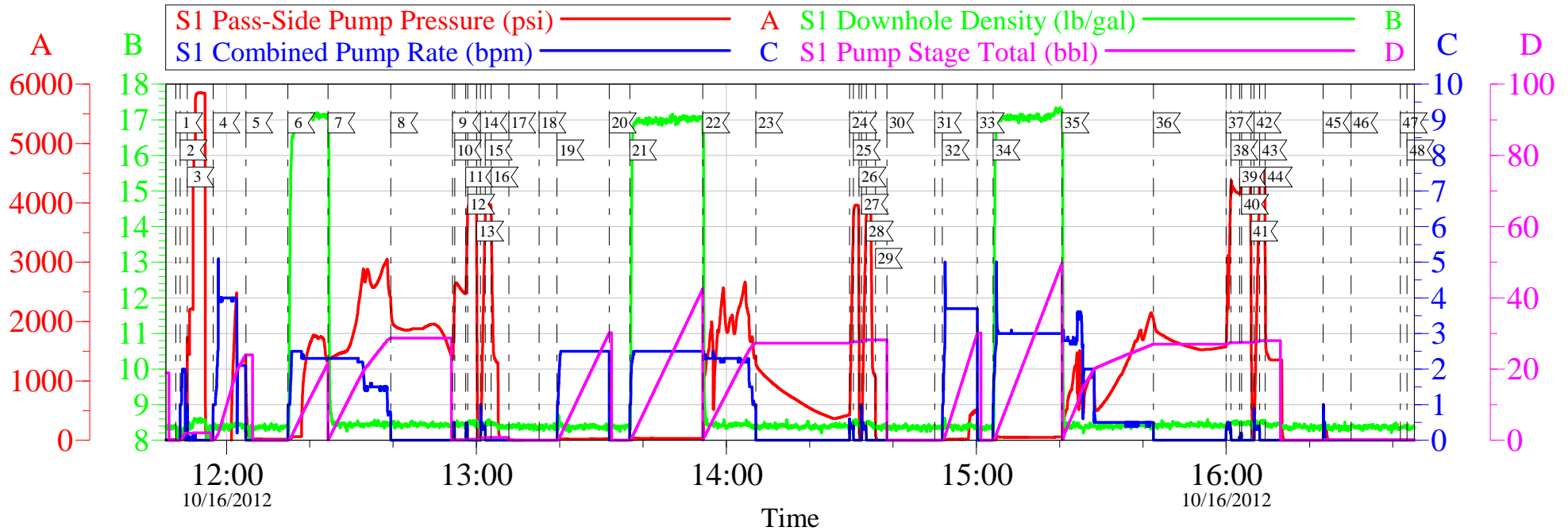
Pressure Test	10/16/2012 11:50		0.2	0.2				PRESSURE TEST PUMPING IRON. PRESSURE HELD @ 5859PSI
Injection Test	10/16/2012 11:56		4	24			400.0	INJECTION RATE
ISIP	10/16/2012 12:04						800.0	ISIP
Pump Cement	10/16/2012 12:14		2.3	22			1359. 0	125 SKS AT 17PPG/.99YIELD/3.76G PS, SETUP TIME @ 70 BC 1:11
Pump Displacement	10/16/2012 12:24		2.3	31			2400. 0	
Shutdown	10/16/2012 12:39							HESITATE #1
Shutdown	10/16/2012 12:54							HESITATE#2
Start Squeeze	10/16/2012 12:54		0.5	0.25			2650. 0	
Start Squeeze	10/16/2012 12:57		0.5	0.1			3975. 0	
Shutdown	10/16/2012 12:57							HESITATE#3
Release Tubing Pressure	10/16/2012 13:00							
Start Squeeze	10/16/2012 13:00		0.5	0.5			3970. 0	
Shutdown	10/16/2012 13:02							HESITATE#4
Release Tubing Pressure	10/16/2012 13:03							UNSET PACKER
Other	10/16/2012 13:07							RIG PULLED TUBING UP TO NEXT PERF ZONE. WELL WAS NOT REVERSED OUT PER CUSTOMER DECISION.
Other	10/16/2012 13:15							RIG SET PACKER ON SECOND PERF ZONE AT 7594', TOP PERFS- 7628', BOTTOM PERFS-7951'
Injection Test	10/16/2012 13:19		2.5	30			30.0	
Shutdown	10/16/2012 13:31							NO ISIP
Pump Cement	10/16/2012 13:36		2.5	44			32.0	250SKS, 17PPG/.99YIELD/3.76G PS, SETUP TIME AT 70 BC 1:11

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	10/16/2012 13:54		1	29			1300.0	
Shutdown	10/16/2012 14:07							HESITATE#1
Start Squeeze	10/16/2012 14:29		0.5	0.5			3964.0	
Shutdown	10/16/2012 14:30							HESITATE#2
Release Tubing Pressure	10/16/2012 14:31							
Start Squeeze	10/16/2012 14:32		0.3	0.1			3965.0	
Shutdown	10/16/2012 14:33							
Release Tubing Pressure	10/16/2012 14:35							UNSET PACKER
Other	10/16/2012 14:38							RIG PULLED TUBING UP TO NEXT PERF ZONE. WELL WAS NOT REVERSED OUT PER CUSTOMER DECISION.
Other	10/16/2012 14:49							RIG SET PACKER
Injection Test	10/16/2012 14:51		3.7	30			500.0	
ISIP	10/16/2012 15:00						200.0	
Pump Cement	10/16/2012 15:04		3	49			50.0	275SKS, 17PPG/.99YIELD/3.76G PS, SETUP TIME AT 70 BC 1:11
Pump Displacement	10/16/2012 15:20		2.7	27.5			2030.0	
Shutdown	10/16/2012 15:42							HESITATE#1
Start Squeeze	10/16/2012 15:59		0.5	0.5			4300.0	
Shutdown	10/16/2012 16:01							HESITATE#2
Start Squeeze	10/16/2012 16:03		0.3	0.1			4571.0	
Shutdown	10/16/2012 16:03							HESITATE#3
Release Tubing Pressure	10/16/2012 16:05							
Start Squeeze	10/16/2012 16:06		0.4	0.5			4585.0	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	10/16/2012 16:08							HESITATE#4
Release Tubing Pressure	10/16/2012 16:09							
Other	10/16/2012 16:23		1	1			150.0	PUMP TO HELP RIG UNSET PACKER
Reverse Circ Well	10/16/2012 16:29							RIG TRIED TO REVERSE CIRCULATE BUT WAS UNABLE TO PUMP THROUGH THE ANNULUS. BUT RIG WAS ABLE TO CIRCULATE THROUGH THE TUBING AND OUT THE ANNULUS BUT WITH HIGH PRESSURE.
Other	10/16/2012 16:41							WAIT TO BE RELEASED
End Job	10/16/2012 16:43							RIG WAS UNABLE TO REMOVE THE PACKER. HES CREW WAS RELEASED.
Safety Meeting	10/16/2012 16:50							RIG DOWN SAFETY MEETING
Rig-Down Equipment	10/16/2012 17:00							
Safety Meeting	10/16/2012 17:50							POST JOB SAFETY MEETING WITH ALL HES PERSONEL
Other	10/16/2012 18:00							LEAVE LOCATION
Other	10/16/2012 18:00							THANK YOU FOR YOUR BUSINESS FROM JAVIER CASTILLO AND CREW

WPX TR 31-3-597

SQUEEZE



Local Event Log

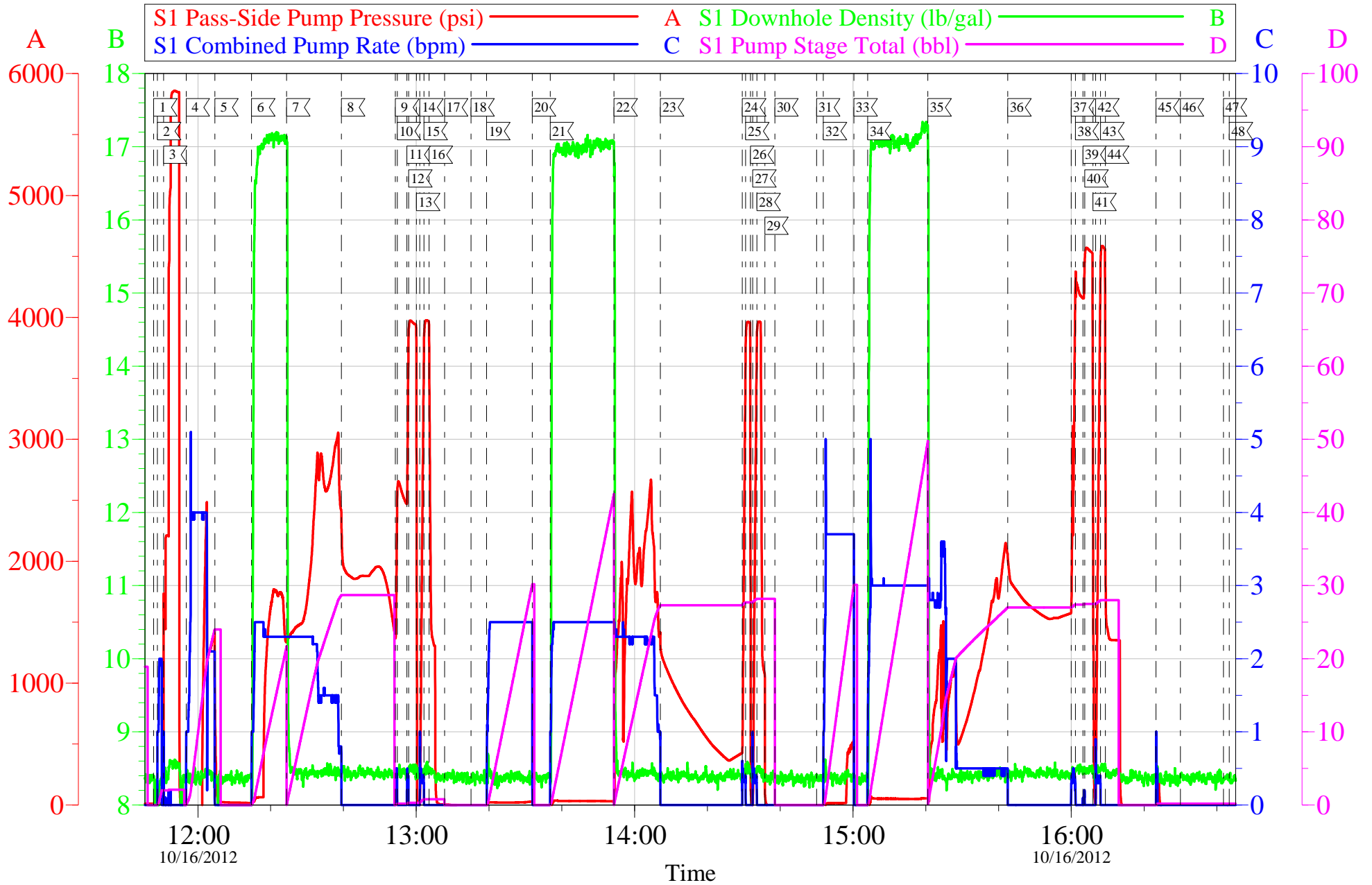
1 START JOB	11:47:51	2 FILL LINES	11:48:54	3 TEST LINES	11:50:34
4 INJECTION TEST	11:56:48	5 ISIP	12:04:40	6 PUMP CEMENT	12:14:44
7 PUMP DISPLACEMENT	12:24:24	8 SHUT DOWN/ HESITATE #1	12:39:27	9 RESUME SQUEEZE	12:54:17
10 SHUT DOWN/HESITATE #2	12:54:47	11 RESUME SQUEEZE	12:57:26	12 SHUTDOWN/HESITATE #3	12:57:56
13 RELEASE PRESSURE	13:00:03	14 RESUME SQUEEZE	13:00:57	15 SHUT DOWN/ HESITATE #4	13:02:08
16 RELEASE PRESSURE/ UNSET PACKER	13:03:31	17 RIG PULL TUBING	13:07:46	18 RIG SET PACKER	13:15:02
19 PUMP INJECTION	13:19:20	20 SHUT DOWN/ NO ISIP	13:31:54	21 PUMP CEMENT	13:36:48
22 PUMP DISPLACEMENT	13:54:20	23 SHUT DOWN/HESITATE #1	14:07:05	24 RESUME SQUEEZE	14:29:37
25 SHUT DOWN / HESITATE#2	14:30:31	26 RELEASE PRESSURE	14:31:50	27 RESUME SQUEEZE	14:32:28
28 SHUT DOWN	14:33:36	29 RELEASE PRESSURE/ UNSET PACKER	14:35:48	30 RIG PULL TUBING	14:38:32
31 RIG SET PACKER	14:49:59	32 PUMP INJECTION TEST	14:51:50	33 ISIP	15:00:15
34 PUMP CEMENT	15:04:02	35 PUMP DISPLACEMENT	15:20:35	36 SHUT DOWN / HESITATE#1	15:42:32
37 RESUME SQUEEZE	15:59:58	38 SHUT DOWN / HESITATE #2	16:01:07	39 RESUME SQUEEZE	16:03:10
40 SHUT DOWN / HESITATE #3	16:03:41	41 RELEASE PRESSURE	16:05:55	42 RESUME SQUEEZE	16:06:41
43 SHUT DOWN / HESITATE #4	16:08:03	44 RELEASE PRESSURE	16:09:22	45 PUMP TO HELP RIG UN SET PACKER	16:23:16
46 RIG REVERSE CIRCULATE	16:29:58	47 WAIT TO BE RELEASED	16:41:46	48 END JOB	16:43:24

Customer:	WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Job Date:	16-Oct-2012	Sales Order #:	9849825
Well Description:	TR 31-3-597	Job Type:	SQUEEZE	ADC Used:	YES
Company Rep:	BRIAN DUNNICK	Cement Supervisor:	JAVIER CASTILLO	RED TIGER:	ANDREW BRENECKE

OptiCem v6.4.10
16-Oct-12 16:54

WPX TR 31-3-597

SQUEEZE

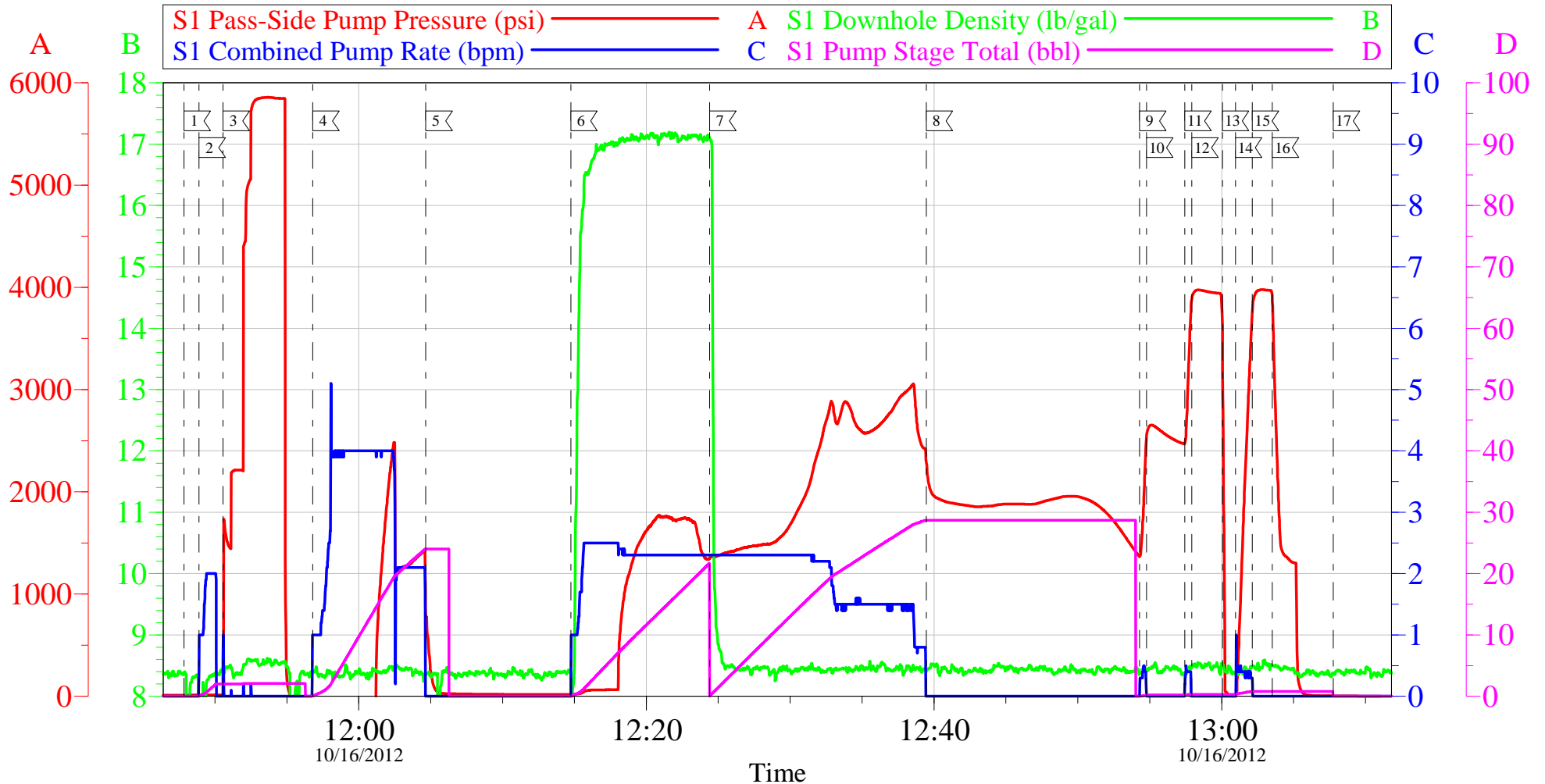


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Well Description:	TR 31-3-597	Job Type:	SQUEEZE	ADC Used:	YES
Company Rep:	BRIAN DUNNICK	Cement Supervisor:	JAVIER CASTILLO	RED TIGER:	ANDREW BRENNECKE

OptiCem v6.4.10
16-Oct-12 16:55

WPX TR 31-3-597

SQUEEZE #1



Local Event Log

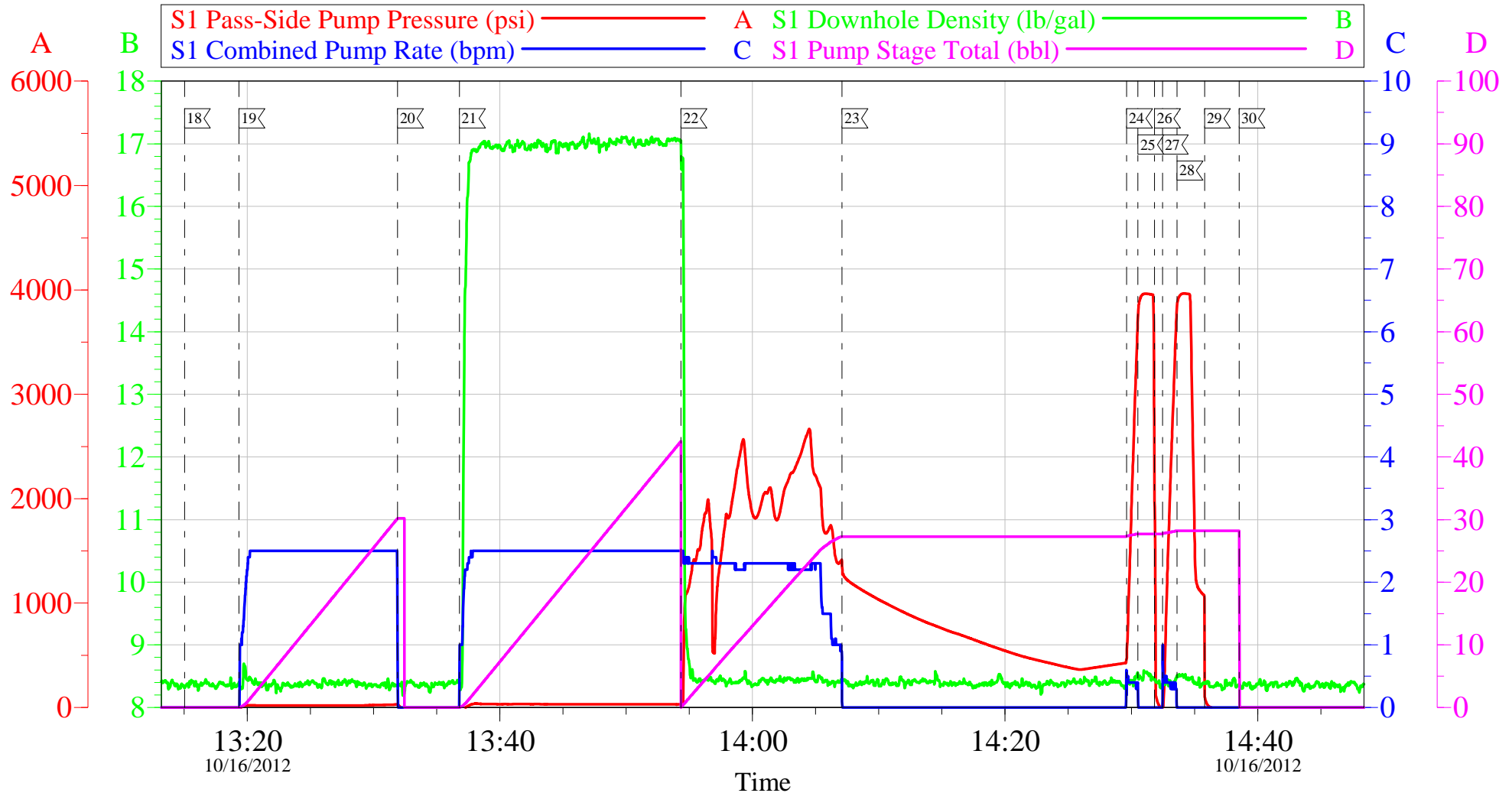
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16 RELEASE PRESSURE/ UNSET PACKER	13:03:31	17 RIG PULL TUBING	13:07:46		

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Well Description:	TR 31-3-597	Job Type:	SQUEEZE	ADC Used:	YES
Company Rep:	BRIAN DUNNICK	Cement Supervisor:	JAVIER CASTILLO	RED TIGER:	ANDREW BRENNECKE

OptiCem v6.4.10
16-Oct-12 16:56

WPX TR 31-3-597

SQUEEZE #2

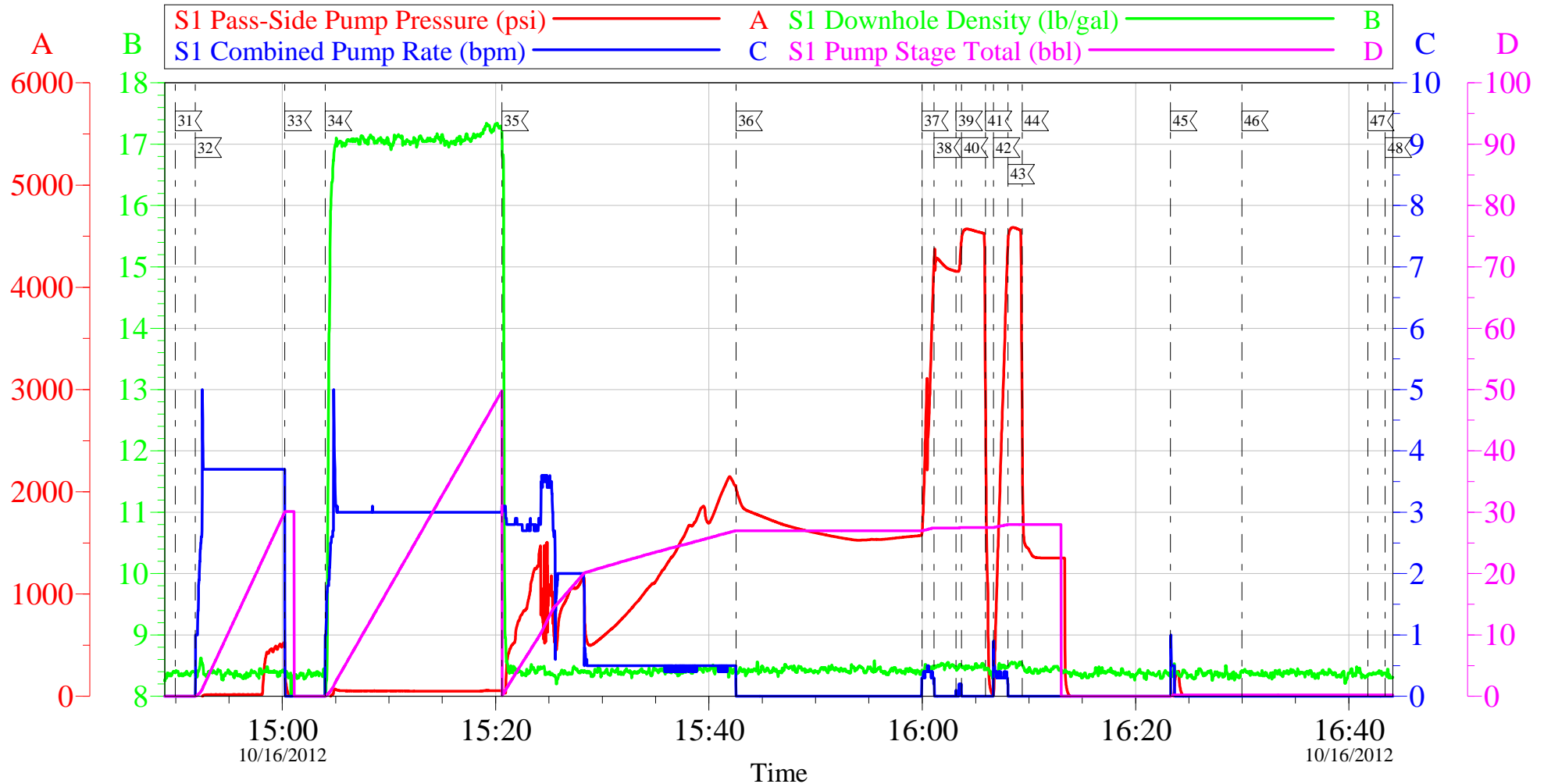


Customer:	WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Job Date:	16-Oct-2012	Sales Order #:	9849825
Well Description:	TR 31-3-597	Job Type:	SQUEEZE	ADC Used:	YES
Company Rep:	BRIAN DUNNICK	Cement Supervisor:	JAVIER CASTILLO	RED TIGER:	ANDREW BRENNECKE

OptiCem v6.4.10
16-Oct-12 16:58

WPX TR 31-3-597

SQUEEZE #3



Local Event Log

31	RIG SET PACKER	14:49:59	32	PUMP INJECTION TEST	14:51:50	33	ISIP	15:00:15
34	PUMP CEMENT	15:04:02	35	PUMP DISPLACEMENT	15:20:35	36	SHUT DOWN / HESITATE#1	15:42:32
37	RESUME SQUEEZE	15:59:58	38	SHUT DOWN / HESITATE #2	16:01:07	39	RESUME SQUEEZE	16:03:10
40	SHUT DOWN / HESITATE #3	16:03:41	41	RELEASE PRESSURE	16:05:55	42	RESUME SQUEEZE	16:06:41
43	SHUT DOWN / HESITATE #4	16:08:03	44	RELEASE PRESSURE	16:09:22	45	PUMP TO HELP RIG UN SET PACKER	16:23:16
46	RIG REVERSE CIRCULATE	16:29:58	47	WAIT TO BE RELEASED	16:41:46	48	END JOB	16:43:24

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Well Description:	TR 31-3-597	Job Type:	SQUEEZE	ADC Used:	YES
Company Rep:	BRIAN DUNNICK	Cement Supervisor:	JAVIER CASTILLO	RED TIGER:	ANDREW BRENECKE

OptiCem v6.4.10
16-Oct-12 16:58

HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: JAVIER CASTILLO

Attention: J.Trout

Lease: TRAIL RIDGE

Well #: 31-3-597

Date: 10/16/2012

Date Rec.: 10/16/2012

S.O.#: 9849825

Job Type: SQUEEZE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	200 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>	200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	50 Deg
Total Dissolved Solids		200 Mg / L

Respectfully: JAVIER CASTILLO

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 #: 9849825	Line Item: 10	Survey Conducted Date: 10/16/2012
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-12539
Well Name: TR		Well Number: 31-3-597
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	10/16/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	FRANCISCO CASTILLO (HB85312)
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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Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SQUEEZE PERFORATIONS BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-12539
Well Name: TR		Well Number: 31-3-597
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	10/16/2012
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)	9
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)	5
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	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)	Yes

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Customer Representative:		API / UWI: (leave blank if unknown) 05-045-12539
Well Name: TR		Well Number: 31-3-597
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.	
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	None
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	97
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