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**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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**SG 341-22  
GRAND VALLEY  
Garfield County , Colorado**

**Cement Surface Casing  
12-Aug-2013**

**Post Job Report**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300721	<b>Ship To #:</b> 3088176	<b>Quote #:</b>	<b>Sales Order #:</b> 900657845
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Customer Rep:</b> Brunk, Mike	
<b>Well Name:</b> SG		<b>Well #:</b> 341-22	<b>API/UWI #:</b> 05-045-21747
<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b> PARACHUTE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.426 deg. OR N 39 deg. 25 min. 34.579 secs.		<b>Long:</b> W 108.088 deg. OR W -109 deg. 54 min. 43.65 secs.	
<b>Contractor:</b> CYCLONE 17		<b>Rig/Platform Name/Num:</b> 17	
<b>Job Purpose:</b> Cement Surface Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> MAYO, MARK		<b>Srvc Supervisor:</b> YOUNG, JEREMY	<b>MBU ID Emp #:</b> 418013

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CAMPBELL, DAVID Arthur	7	544403	EICKHOFF, ROBERT Edward	7	495311	YOUNG, JEREMY R	7	418013

**Equipment**

HES Unit #	Distance-1 way						
10867423	60 mile	10872429	60 mile	11562538	60 mile	11583932	60 mile
11808833	60 mile						

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
08/12/2013	7	3						

**TOTAL** Total is the sum of each column separately

**Job**

**Job Times**

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
<b>Formation Depth (MD)</b>			<b>On Location</b>	12 - Aug - 2013	01:00	MST
<b>Form Type</b>		<b>BHST</b>	<b>Job Started</b>	12 - Aug - 2013	04:00	MST
<b>Job depth MD</b>	853. ft	<b>Job Depth TVD</b>	853. ft	<b>Job Completed</b>	12 - Aug - 2013	08:35
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>	4. ft	<b>Departed Loc</b>	12 - Aug - 2013	09:24
<b>Perforation Depth (MD)</b>	<b>From</b>	<b>To</b>			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
13 1/2" OPEN HOLE				13.5				.	870.		
9 5/8" 32.3# SURFACE CASING	Unknown		9.625	9.001	32.3		H-40	.	853.		

**Tools and Accessories**

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
<b>Guide Shoe</b>					<b>Packer</b>					<b>Top Plug</b>	9.625	1	HES
<b>Float Shoe</b>					<b>Bridge Plug</b>					<b>Bottom Plug</b>			
<b>Float Collar</b>					<b>Retainer</b>					<b>SSR plug set</b>			
<b>Insert Float</b>										<b>Plug Container</b>	9.625	1	HES
<b>Stage Tool</b>										<b>Centralizers</b>			

**Miscellaneous Materials**

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc %
<b>Treatment Fld</b>	<b>Conc</b>	<b>Inhibitor</b>	<b>Conc</b>	<b>Sand Type</b>	<b>Size</b>	<b>Qty</b>

**Fluid Data**

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /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 lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water Spacer	FRESH WATER	20.00	bbl	8.33	.0	.0	4	
2	VariCem GJ1 Tail Cement	VERSACEM (TM) SYSTEM (452010)	220.0	sacks	12.8	2.11	11.75	8	11.75
11.75 Gal		FRESH WATER							
3	Fresh Water Displacement	FRESH WATER	63.50	bbl	8.33	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	63.5	Shut In: Instant		Lost Returns	NO	Cement Slurry	82.7	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	36	Actual Displacement	63.5	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	166.2
Rates									
Circulating	10	Mixing	8	Displacement	10	Avg. Job	9		
Cement Left In Pipe	Amount	45.82 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*

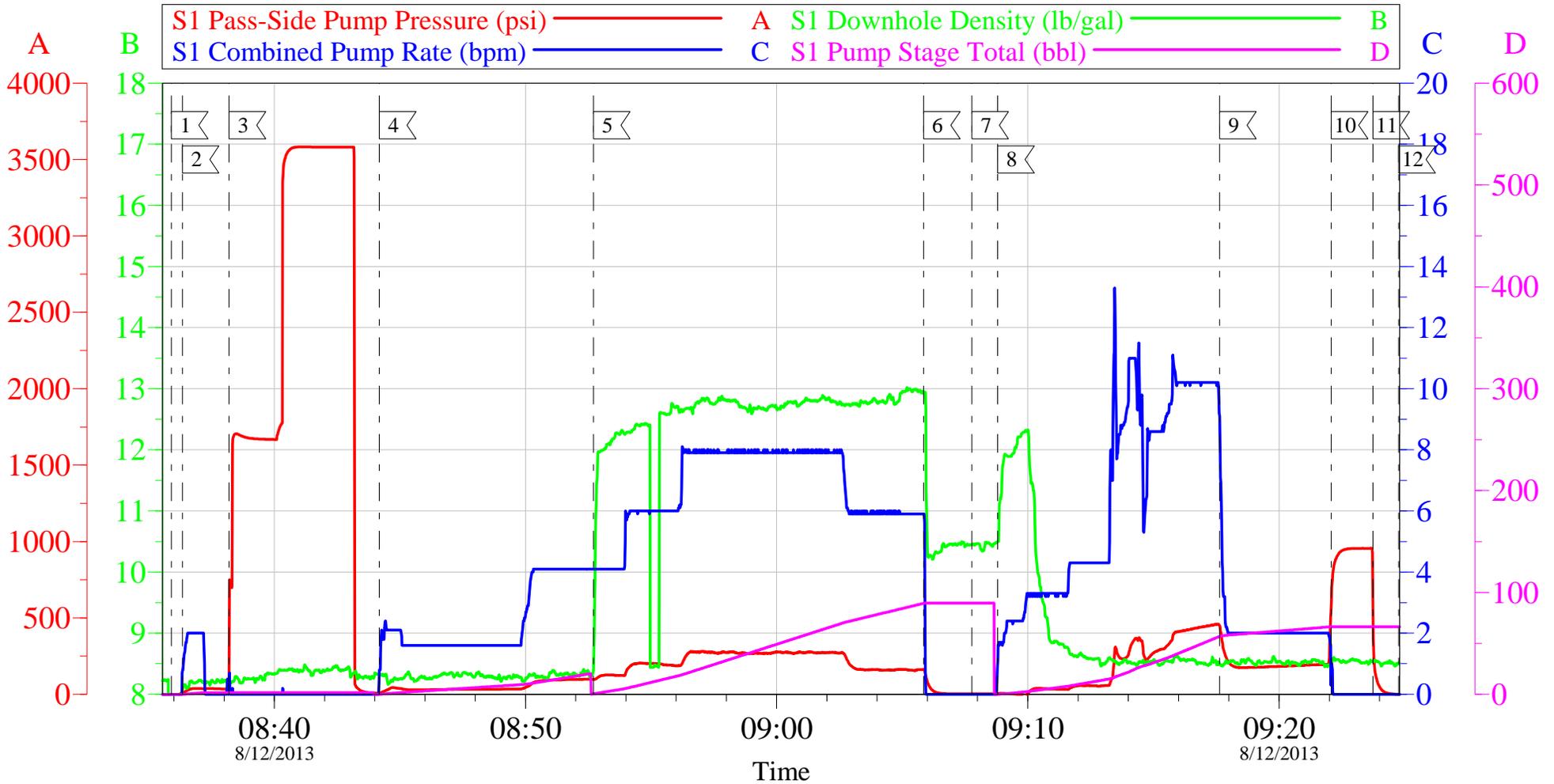
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<b>Well Name:</b> SG	<b>Well #:</b> 341-22	<b>API/UWI #:</b> 05-045-21747	
<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b> PARACHUTE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 39.426 deg. OR N 39 deg. 25 min. 34.579 secs.		<b>Long:</b> W 108.088 deg. OR W -109 deg. 54 min. 43.65 secs.	
<b>Contractor:</b> CYCLONE 17		<b>Rig/Platform Name/Num:</b> 17	
<b>Job Purpose:</b> Cement Surface Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> MAYO, MARK		<b>Srvc Supervisor:</b> YOUNG, JEREMY	<b>MBU ID Emp #:</b> 418013

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	08/12/2013 01:00							
Pre-Convoy Safety Meeting	08/12/2013 02:50							WITH ALL HES PERSONNEL
Crew Leave Yard	08/12/2013 03:00							
Arrive At Loc	08/12/2013 04:00							RIG RUNNING OPEN HOLE LOG UPON HES ARRIVAL
Assessment Of Location Safety Meeting	08/12/2013 07:00							WITH ALL HES PERSONNEL
Other	08/12/2013 07:10							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	08/12/2013 07:20							WITH ALL HES PERSONNEL
Rig-Up Equipment	08/12/2013 07:30							
Pre-Job Safety Meeting	08/12/2013 08:20							WITH ALL PERSONNEL ON LOCATION
Start Job	08/12/2013 08:35							TD 870 FT, TP 853 FT, SHOE 45.82 FT, HOLE 13 1/2 IN, MUD WT 9.8 PPG WBM, CSG 9 5/8 IN 32.3 LB/FT H-40
Other	08/12/2013 08:36		2	2			37.0	FILL LINES WITH FRESH WATER
Test Lines	08/12/2013 08:38							TEST LINES TO 3500 PSI. PRESSURE HOLDING
Pump Spacer 1	08/12/2013 08:44		4	20			98.0	FRESH WATER
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pump Tail Cement	08/12/2013 08:52		8	82.7			275.0	220 SKS AT 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK. DENSITY APPEARS TO DROP DUE TO ACCIDENTALLY AUTOCALING DOWNHOLE ON WATER. ACTUAL DENSITY STAYED AS DESIRED.
Shutdown	08/12/2013 09:05							
Drop Top Plug	08/12/2013 09:07							PLUG LAUNCHED
Pump Displacement	08/12/2013 09:08		10	53.5			460.0	FRESH WATER
Slow Rate	08/12/2013 09:17		2	10			195.0	SLOW RATE 10 BBL PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	08/12/2013 09:22		2		63.5		950.0	PLUG BUMPED
Check Floats	08/12/2013 09:23							FLOATS HOLDING. RETURNED 0.5 BBL H2O TO PUMP
End Job	08/12/2013 09:24							PIPE WAS STATIC DURING JOB. GOOD CIRCULATION THROUGHOUT JOB. HES RETURNED 36 BBL OF CEMENT TO SURFACE. USED 80 LBS SUGAR IN CEMENT RETURNS
Pre-Rig Down Safety Meeting	08/12/2013 09:30							WITH ALL HES PERSONNEL
Rig-Down Equipment	08/12/2013 09:40							
Pre-Convoy Safety Meeting	08/12/2013 10:50							WITH ALL HES PERSONNEL
Crew Leave Location	08/12/2013 11:00							
Comment	08/12/2013 11:01							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. JEREMY YOUNG AND CREW

# WPX - SG 341-22

## 9 5/8 SURFACE

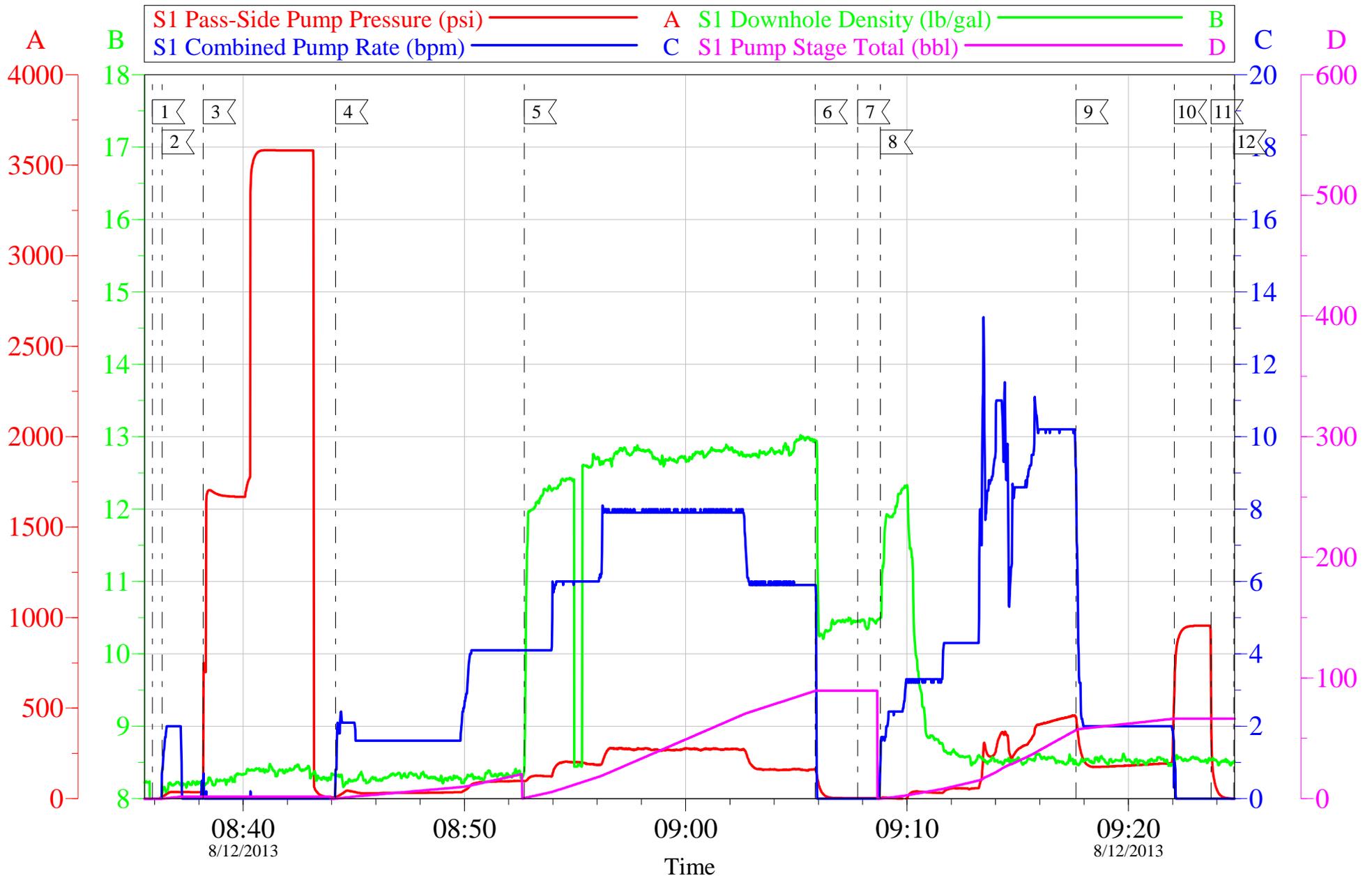


Local Event Log								
1	START JOB	08:35:54	2	FILL LINES	08:36:20	3	TEST LINES	08:38:12
4	PUMP H2O SPACER	08:44:11	5	PUMP TAIL CEMENT	08:52:42	6	SHUTDOWN	09:05:51
7	DROP TOP PLUG	09:07:46	8	PUMP DISPLACEMENT	09:08:48	9	SLOW RATE	09:17:38
10	BUMP PLUG	09:22:05	11	CHECK FLOATS	09:23:44	12	END JOB	09:24:46

Customer: WPX	Job Date: 12-Aug-2013	Sales Order #: 900657845
Well Description: SG 341-22	Job Type: SURFACE	ADC Used: YES
Customer Rep: MIKE BRUNK	Cement Supervisor: JEREMY YOUNG	Elite #7: ROB EICKHOFF

# WPX - SG 341-22

## 9 5/8 SURFACE



Customer: WPX	Job Date: 12-Aug-2013	Sales Order #: 900657845
Well Description: SG 341-22	Job Type: SURFACE	ADC Used: YES
Customer Rep: MIKE BRUNK	Cement Supervisor: JEREMY YOUNG	Elite #7: ROB EICKHOFF

# HALLIBURTON

## Water Analysis Report

Company: WPX

Date: 8/12/2013

Submitted by: JEREMY YOUNG

Date Rec.: \_\_\_\_\_

Attention: LAB

S.O.# 900657845

Lease SG

Job Type: SURFACE

Well # 341-22

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>0 Mg / L</b>
Calcium (Ca)	<i>500</i>	<b>120 Mg / L</b>
Iron (FE2)	<i>300</i>	<b>0 Mg / L</b>
Chlorides (Cl)	<i>3000</i>	<b>0 Mg / L</b>
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>UNDER 200 Mg / L</b>
Chlorine (Cl <sub>2</sub> )		<b>0 Mg / L</b>
Temp	<i>40-80</i>	<b>74 Deg</b>
Total Dissolved Solids		<b>70 Mg / L</b>

Respectfully: JEREMY YOUNG

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

<b>Sales Order #:</b> 900657845	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 8/12/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> MIKE BRUNK		<b>API / UWI: (leave blank if unknown)</b> 05-045-21747
<b>Well Name:</b> SG		<b>Well Number:</b> 341-22
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> 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	8/12/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	JEREMY YOUNG (HX37077)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	MIKE BRUNK
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	

<b>CUSTOMER SIGNATURE</b>
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<b>Well Name:</b> SG		<b>Well Number:</b> 341-22
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	8/12/2013
The date the survey was conducted	

Cementing KPI Survey	
<b>Type of Job</b>	0
Select the type of job. (Cementing or Non-Cementing)	
<b>Select the Maximum Deviation range for this Job</b>	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
<b>Total Operating Time (hours)</b>	3
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
<b>HSE Incident, Accident, Injury</b>	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
<b>Was the job purpose achieved?</b>	Yes
Was the job delivered correctly as per customer agreed design?	
<b>Operating Hours (Pumping Hours)</b>	1
Total number of hours pumping fluid on this job. Enter in decimal format.	
<b>Customer Non-Productive Rig Time (hrs)</b>	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.	
<b>Type of Rig Classification Job Was Performed</b>	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
<b>Number Of JSAs Performed</b>	6
Number Of Jsas Performed	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

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<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	95
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> 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	95
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0