
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**RU 22-5
Rulison
Garfield County , Colorado**

Cement Surface Casing
05-Sep-2013

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3098786	Quote #:	Sales Order #: 900703594
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Hartl, Al	
Well Name: RU		Well #: 22-5	API/UWI #: 05-045-21794
Field: Rulison	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.475 deg. OR N 39 deg. 28 min. 28.823 secs.		Long: W 107.799 deg. OR W -108 deg. 12 min. 4.424 secs.	
Contractor: NABORS 574		Rig/Platform Name/Num: NABORS 574	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc Supervisor: YOUNG, JEREMY	MBU ID Emp #: 418013

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANDERSON, ADAM S	5	456683	EICKHOFF, ROBERT Edward	5	495311	YOUNG, JEREMY R	5	418013

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10296152C	60 mile	10744549	60 mile	10995027	60 mile	11583932	60 mile
11808849	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
09/04/2013	3	1	09/05/2013	2	2			

TOTAL Total is the sum of each column separately

Job

Formation Name	Job	Job Times
Formation Depth (MD) Top	Bottom	Date Time Time Zone
Form Type	BHST	Called Out 04 - Sep - 2013 18:00 MST
Job depth MD 1118.3 ft	Job Depth TVD 1118.3 ft	On Location 04 - Sep - 2013 21:00 MST
Water Depth	Wk Ht Above Floor 3. ft	Job Started 04 - Sep - 2013 23:39 MST
Perforation Depth (MD) From	To	Job Completed 05 - Sep - 2013 00:38 MST
		Departed Loc 05 - Sep - 2013 02:00 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				.	1130.		
9 5/8" 32.3# SURFACE CASING	Unknown		9.625	9.001	32.3		H-40	.	1118.3		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	HES
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 lbm/gal	Yield ft ³ /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 GJ! Lead Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75	8	13.75
13.75 Gal		FRESH WATER							
3	VariCem GJ1 Tail Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.8	2.11	11.75	6	11.75
11.75 Gal		FRESH WATER							
4	Fresh Water Displacement	FRESH WATER	84.50	bbl	8.33	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	84.5	Shut In: Instant		Lost Returns	NO	Cement Slurry	127.9	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	25	Actual Displacement	84.5	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	232.4
Rates									
Circulating		Mixing	8	Displacement	10	Avg. Job	8.5		
Cement Left In Pipe	Amount	43.8 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

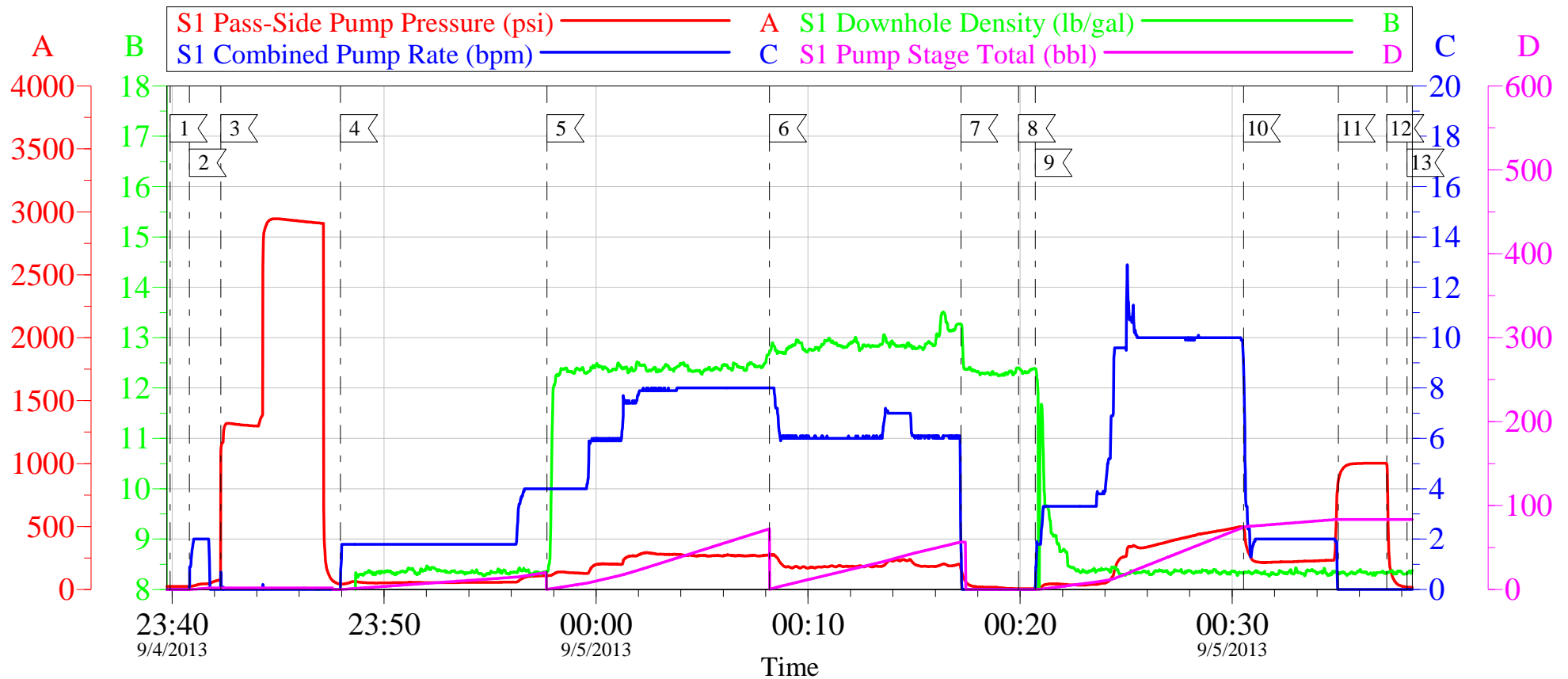
Sold To #: 300721		Ship To #: 3098786		Quote #:		Sales Order #: 900703594	
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: Hartl, Al			
Well Name: RU			Well #: 22-5			API/UWI #: 05-045-21794	
Field: Rulison		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
Legal Description:							
Lat: N 39.475 deg. OR N 39 deg. 28 min. 28.823 secs.				Long: W 107.799 deg. OR W -108 deg. 12 min. 4.424 secs.			
Contractor: NABORS 574			Rig/Platform Name/Num: NABORS 574				
Job Purpose: Cement Surface Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: MAYO, MARK			Srvc Supervisor: YOUNG, JEREMY			MBU ID Emp #: 418013	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/04/2013 16:00							
Pre-Convoy Safety Meeting	09/04/2013 18:50							WITH ALL HES PERSONNEL
Crew Leave Yard	09/04/2013 19:00							
Arrive At Loc	09/04/2013 21:00							RIG WAS RUNNING CASING UPON HES ARRIVAL
Assessment Of Location Safety Meeting	09/04/2013 22:00							WITH ALL HES PERSONNEL
Other	09/04/2013 22:10							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	09/04/2013 22:20							WITH ALL HES PERSONNEL
Rig-Up Equipment	09/04/2013 22:30							
Pre-Job Safety Meeting	09/04/2013 23:20							WITH ALL PERSONNEL ON LOCATION
Start Job	09/04/2013 23:39							TD 1130 FT, TP 1118.03 FT, SHOE 43.8 FT, HOLE 13 1/2 IN, MUD WT 9.4 PPG WBM, CSG 9 5/8 IN 32.3 LB/FT H-40
Other	09/04/2013 23:40		2	2			46.0	FILL LINES WITH FRESH WATER
Test Lines	09/04/2013 23:42							TEST LINES TO 2900 PSI. PRESSURE HOLDING
Pump Spacer 1	09/04/2013 23:47		4	20			100.0	FRESH WATER
Pump Lead Cement	09/04/2013 23:57		8	67.8			290.0	160 SKS AT 12.3 PPG, 2.38 FT3/SK, 13.75 GAL/SK

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	09/05/2013 00:08		6	60.1			180.0	160 SKS AT 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK
Shutdown	09/05/2013 00:17							
Drop Top Plug	09/05/2013 00:19							PLUG LAUNCHED
Pump Displacement	09/05/2013 00:20		10	74.5			500.0	FRESH WATER
Slow Rate	09/05/2013 00:30		2	10			230.0	SLOW RATE 10 BBL PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	09/05/2013 00:35		2		84.5		1000.0	PLUG BUMPED
Check Floats	09/05/2013 00:37							FLOATS HOLDING. RETURNED 0.75 BBL H2O TO TRUCK
End Job	09/05/2013 00:38							PIPE WAS STATIC DURING JOB. GOOD CIRCULATION THROUGHOUT JOB. HES RETURNED 25 BBL CEMENT TO SURFACE. USED 40 LB SUGAR IN CEMENT RETURNS
Pre-Rig Down Safety Meeting	09/05/2013 00:45							WITH ALL HES PERSONNEL
Rig-Down Equipment	09/05/2013 00:50							
Pre-Convoy Safety Meeting	09/05/2013 01:50							WITH ALL HES PERSONNEL
Crew Leave Location	09/05/2013 02:00							
Comment	09/05/2013 02:01							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. JEREMY YOUNG AND CREW

WPX - RU 22-5

9 5/8 SURFACE



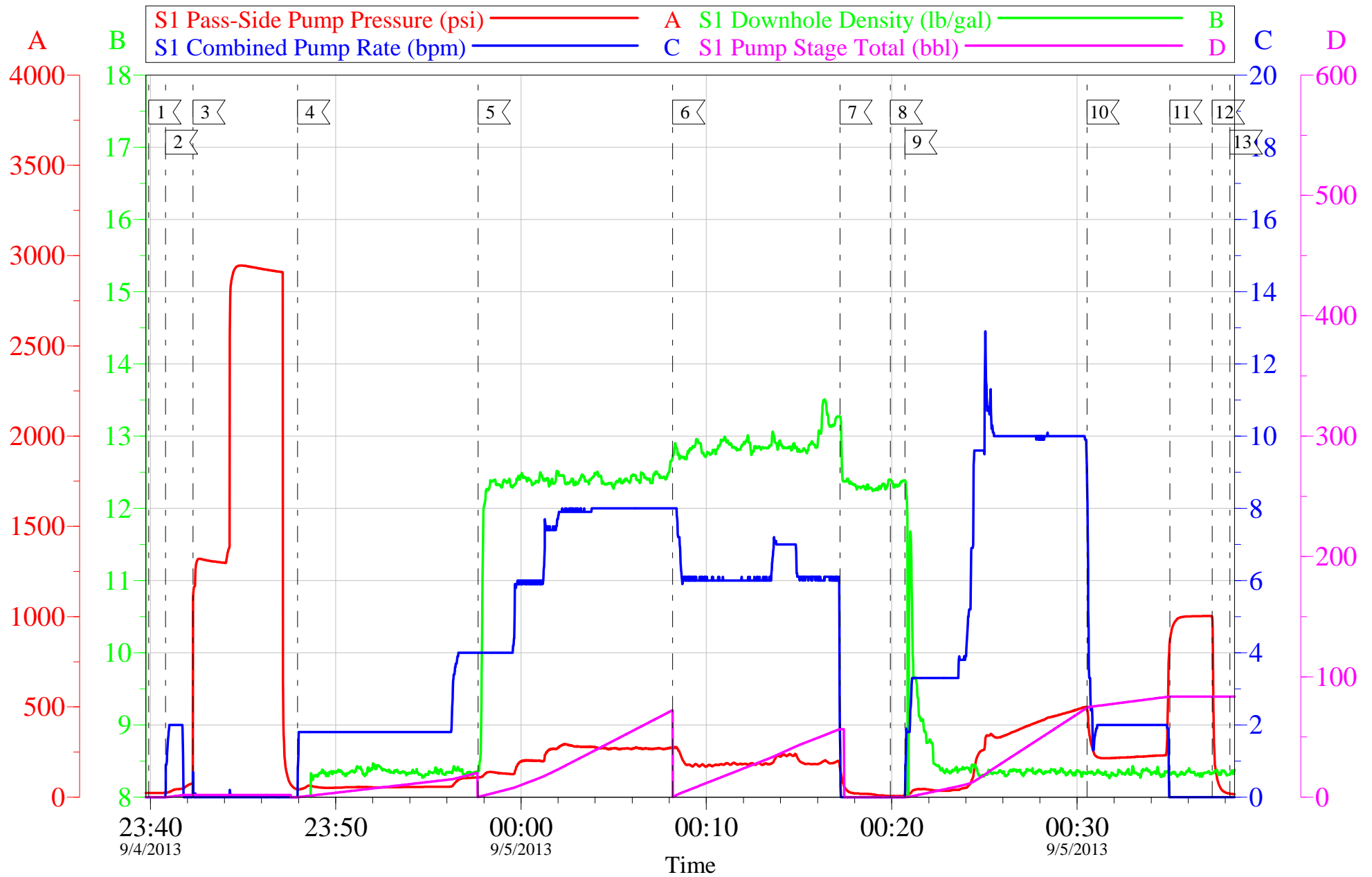
Local Event Log					
1	START JOB	9/4/2013 23:39:55	2	FILL LINES	9/4/2013 23:40:49
3	TEST LINES	9/4/2013 23:42:18	4	PUMP H2O SPACER	9/4/2013 23:47:57
5	PUMP LEAD CEMENT	9/4/2013 23:57:41	6	PUMP TAIL CEMENT	9/5/2013 00:08:11
7	SHUTDOWN	9/5/2013 00:17:13	8	DROP TOP PLUG	9/5/2013 00:19:55
9	PUMP DISPLACEMENT	9/5/2013 00:20:43	10	SLOW RATE	9/5/2013 00:30:32
11	BUMP PLUG	9/5/2013 00:35:00	12	CHECK FLOATS	9/5/2013 00:37:18
13	END JOB	9/5/2013 00:38:15			

Customer: WPX	Job Date: 04-Sep-2013	Sales Order #: 900703594
Well Description: RU 22-5	Job Type: SURFACE	ADC Used: YES
Customer Rep: AL HARTL	Cement Supervisor: JEREMY YOUNG	Elite #9: ROB EICKHOFF

OptiCem v6.4.10
05-Sep-13 00:42

WPX - RU 22-5

9 5/8 SURFACE



Customer: WPX
Well Description: RU 22-5
Customer Rep: AL HARTL

Job Date: 04-Sep-2013
Job Type: SURFACE
Cement Supervisor: JEREMY YOUNG

Sales Order #: 900703594
ADC Used: YES
Elite #9: ROB EICKHOFF

OptiCem v6.4.10
05-Sep-13 00:43

HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: JEREMY YOUNG
Attention: LAB
Lease: RU
Well #: 22-5

Date: 9/4/2013
Date Rec.:
S.O.#: 900703594
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
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>	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	68 Deg
Total Dissolved Solids		50 Mg / L

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

Sales Order #: 900703594	Line Item: 10	Survey Conducted Date: 9/5/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) 05-045-21794
Well Name: RU		Well Number: 22-5
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	9/5/2013
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	AL HARTL
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 #: 900703594	Line Item: 10	Survey Conducted Date: 9/5/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) 05-045-21794
Well Name: RU		Well Number: 22-5
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	9/5/2013
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)	3
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)	Yes

Sales Order #: 900703594	Line Item: 10	Survey Conducted Date: 9/5/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) 05-045-21794
Well Name: RU		Well Number: 22-5
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?	Top
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	90
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	90
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