
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**PA 22-11
RULISON
Garfield County , Colorado**

Cement Surface Casing
31-May-2013

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2798151	Quote #:	Sales Order #: 900477699
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep:	
Well Name: PA		Well #: 22-11	API/UWI #:
Field: RULISON	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Contractor: Cyclone Drilling		Rig/Platform Name/Num: Cyclone 17	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc Supervisor: DEUSSEN, EDWARD	MBU ID Emp #: 485182

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANDERSON, ADAM S	0.0	456683	ANDREWS, ANTHONY Michael	0.0	321604	DEUSSEN, EDWARD Eric	0.0	485182

Equipment

HES Unit #	Distance-1 way						
10616651C	60 mile	11139330	60 mile	11583932	60 mile	11808827	60 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type	BHST		On Location	31 - May - 2013	04:00	MST
Job depth MD	974.6 ft	Job Depth TVD	974.6 ft	Job Started	31 - May - 2013	11:24
Water Depth		Wk Ht Above Floor	5. ft	Job Completed	31 - May - 2013	12:09
Perforation Depth (MD)	<i>From</i>	<i>To</i>	Departed Loc	31 - May - 2013	13:30	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
OPEN HOLE				12.25				.	967.		
SURFACE CASING	Unknown		9.625	9.001	32.3		I-80	.	974.6		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 9 5/8, HWE, 8.16 MIN/9.06 MA	1	EA		

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

Stage/Plug #: 1

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		20.00	bbl	.	.0	.0	.0		
2	VersaCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	240.0	sacks	12.8	2.11	11.75		11.75	
11.752 Gal		FRESH WATER								
3	Fresh Water Displacement		73.00	bbl	.	.0	.0	.0		
Calculated Values			Pressures			Volumes				
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad		
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment		
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job		
Rates										
Circulating			Mixing			Displacement			Avg. Job	
Cement Left In Pipe		Amount	46.83 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

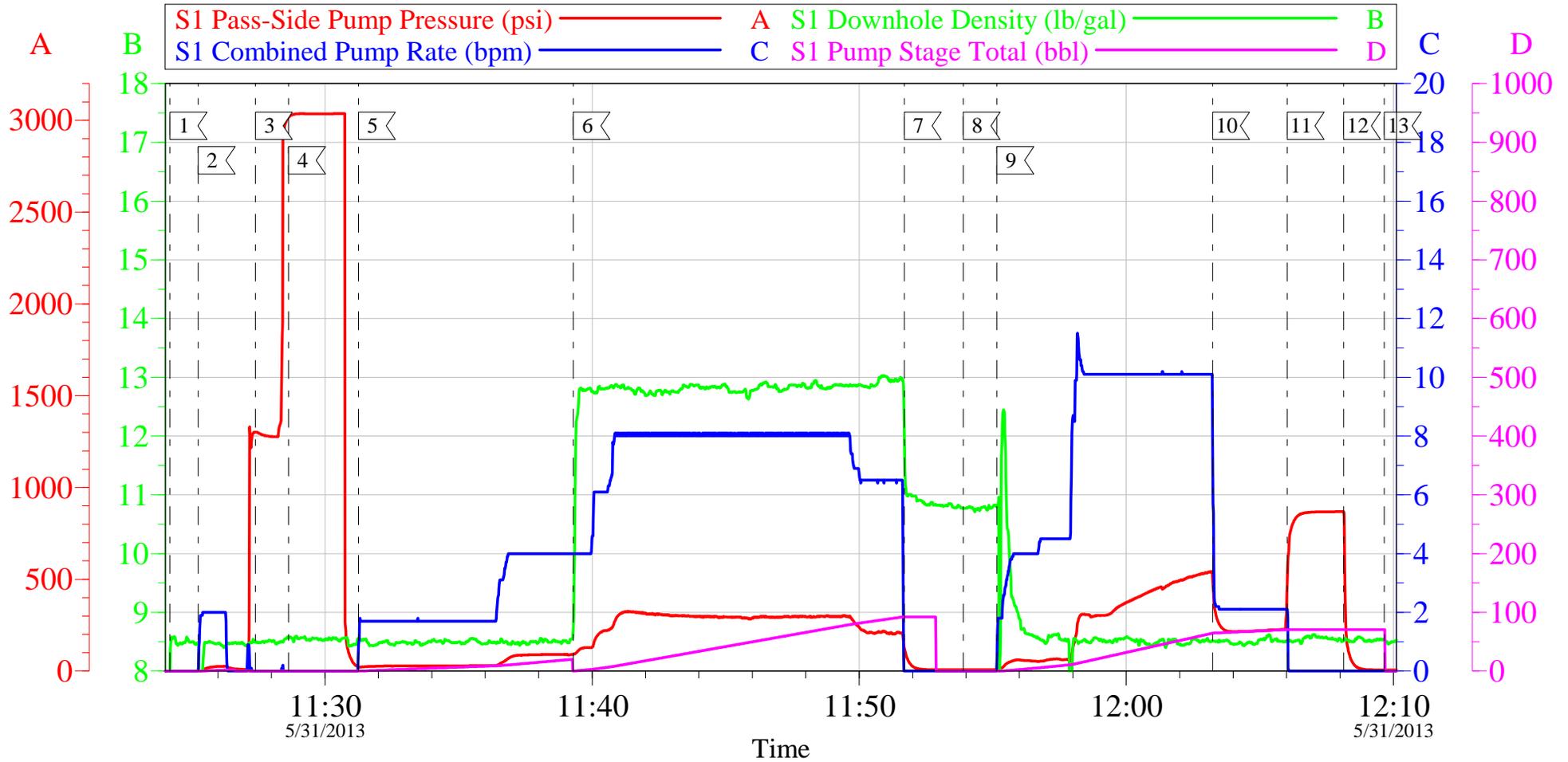
Sold To #: 300721	Ship To #: 2798151	Quote #:	Sales Order #: 900477699
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep:	
Well Name: PA		Well #: 22-11	API/UWI #:
Field: RULISON	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat:		Long:	
Contractor: Cylcone Drilling		Rig/Platform Name/Num: Cyclone 17	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc Supervisor: DEUSSEN, EDWARD	MBU ID Emp #: 485182

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	05/31/2013 00:00							
Pre-Convoy Safety Meeting	05/31/2013 01:45							ALL HES PERSONNEL
Crew Leave Yard	05/31/2013 02:00							1 ELITE, 1 660, 1 PICKUP
Arrive At Loc	05/31/2013 04:00							RIG STILL DRILLING OUT HOLE
Assessment Of Location Safety Meeting	05/31/2013 04:15							
Pre-Rig Up Safety Meeting	05/31/2013 09:45							ALL HES PERSONNEL
Rig-Up Equipment	05/31/2013 10:00							1 HARD LINE TO FLOOR, 2 WATER LINES TO UPRIGHT, BULK HOSE TO 660
Pre-Job Safety Meeting	05/31/2013 11:00							ALL HES PERSONNEL AND RIG CREW
Start Job	05/31/2013 11:24							TD 967', TP 974.6', SJ 46.83', MW 9.7, OH 13 1/2", CSG 9 5/8", 32.3# H-40
Pump Water	05/31/2013 11:25							FILL LINES
Pressure Test	05/31/2013 11:28							
Pump Spacer 1	05/31/2013 11:31							FRESH WATER SPACER
Pump Tail Cement	05/31/2013 11:39							240 SKS, 12.8 PPG, 2.11 YIELD, 11.75 GAL/SK
Shutdown	05/31/2013 11:51							WASH UP ON TOP OF PLUG
Drop Top Plug	05/31/2013 11:53							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	05/31/2013 11:55							FRESH WATER
Slow Rate	05/31/2013 12:03							
Bump Plug	05/31/2013 12:06							
Check Floats	05/31/2013 12:08							GOT 1/2 BBL BACK
End Job	05/31/2013 12:09							GOT 20 BBLS CEMENT TO SURFACE / USED 80 LBS SUGAR / NO ADD HOURS OR DERRICK CHARGE
Post-Job Safety Meeting (Pre Rig-Down)	05/31/2013 12:15							ALL HES PERSONNEL
Rig-Down Equipment	05/31/2013 12:30							
Pre-Convoy Safety Meeting	05/31/2013 13:15							ALL HES PERSONNEL
Crew Leave Location	05/31/2013 13:30							THANK YOU FOR USING HALLIBURTON AND ED DEUSSEN AND CREW

WPX - PA 22-11

9 5/8" SURFACE

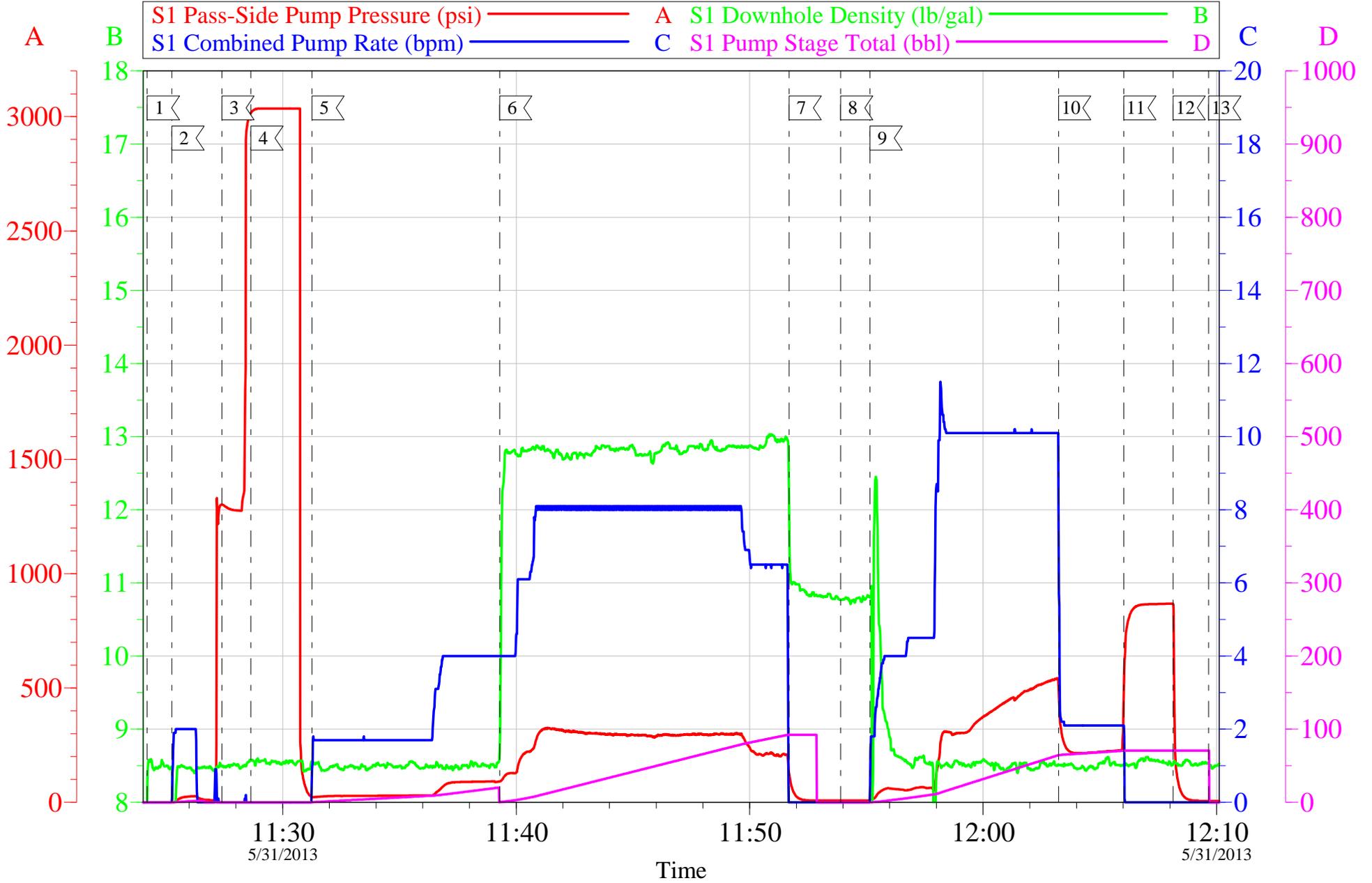


Local Event Log								
1	START JOB	11:24:12	2	FILL LINES	11:25:15	3	5TH GEAR STALLOUT	11:27:24
4	PRESSURE TEST	11:28:38	5	PUMP H2O SPACER	11:31:15	6	PUMP TAIL CEMENT	11:39:18
7	SHUTDOWN/ WASH UP	11:51:41	8	DROP TOP PLUG	11:53:54	9	PUMP DISPLACEMENT	11:55:09
10	SLOW RATE	12:03:14	11	BUMP PLUG	12:06:02	12	CHECK FLOATS	12:08:08
13	END JOB	12:09:40						

Customer:	WPX	Job Date:	31-May-2013	Sales Order #:	900477699
Well Description:	PA 22-11	Job Type:	SURFACE	ADC Used:	YES
Company Rep:	AL DUNIHO	Cement Supervisor:	ED DEUSSEN	Elite #4:	ADAM ANDERSON

WPX - PA 22-11

9 5/8" SURFACE



Customer: WPX	Job Date: 31-May-2013	Sales Order #: 900477699
Well Description: PA 22-11	Job Type: SURFACE	ADC Used: YES
Company Rep: AL DUNIHO	Cement Supervisor: ED DEUSSEN	Elite #4: ADAM ANDERSON

OptiCem v6.4.10
31-May-13 12:18

HALLIBURTON

Water Analysis Report

Company: WILLIAMS

Submitted by: ED DEUSSEN

Attention: J.TROUT

Lease PA

Well # 22-11

Date: 5/31/2013

Date Rec.: 5/31/2013

S.O.# 900477699

Job Type: 9 5/8 SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	6.5
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
Temp	<i>40-80</i>	63 Deg
Total Dissolved Solids		370 Mg / L

Respectfully: ED DEUSSEN

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 #: 900477699	Line Item: 10	Survey Conducted Date: 5/31/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: AL DUNIHO		API / UWI: (leave blank if unknown) AFEYSCD1YGKHNG4JAAA
Well Name: PA		Well Number: 22-11
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	5/31/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	EDWARD DEUSSEN (HB57194)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	AL DUNIHO
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	GOOD JOB MEN!

CUSTOMER SIGNATURE

Sales Order #: 900477699	Line Item: 10	Survey Conducted Date: 5/31/2013
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Customer Representative: AL DUNIHO		API / UWI: (leave blank if unknown) AFEYSCD1YGKHNG4JAAA
Well Name: PA		Well Number: 22-11
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	5/31/2013
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	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

Sales Order #: 900477699	Line Item: 10	Survey Conducted Date: 5/31/2013
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Customer Representative: AL DUNIHO		API / UWI: (leave blank if unknown) AFEYSCD1YGKHNG4JAAA
Well Name: PA		Well Number: 22-11
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	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