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# **WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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**PA 412-11  
Parachute  
Garfield County , Colorado**

## **Cement Surface Casing** **01-May-2013**

### **Post Job Report**

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2995762	Quote #:	Sales Order #: 900406224
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: Duniho, Al		
Well Name: PA	Well #: 412-11	API/UWI #: 05-045-21827	
Field: Parachute	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.453 deg. OR N 39 deg. 27 min. 10.39 secs.	Long: W 107.967 deg. OR W -108 deg. 1 min. 57.367 secs.		
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	Srv Supervisor: PONDER, THOMAS	MBU ID Emp #: 427112	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
PONDER, THOMAS Lynn	8.5	427112	ROSE, BENJAMIN Keith	8.5	487022	SINCLAIR, DAN J	8.5	338784

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10296152C	60 mile	11021972	60 mile	11027039	60 mile	11583931	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
05/01/2013	8.5	2						

TOTAL Total is the sum of each column separately

## Job

JOB						JOB TIMES				
Formation Name							Date	Time	Time Zone	
Formation Depth (MD)	Top			Bottom		Called Out	01 - May - 2013	09:00	MST	
Form Type		BHST				On Location	01 - May - 2013	13:00	MST	
Job depth MD		1203. ft		Job Depth TVD		1203. ft	Job Started	01 - May - 2013	19:34	MST
Water Depth				Wk Ht Above Floor		4. ft	Job Completed	01 - May - 2013	20:29	MST
Perforation Depth (MD)	From			To			Departed Loc	01 - May - 2013	21:30	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				13.5				.	1217.		
SURFACE CASING	Unknown		9.625	9.001	32.3			.	1203.		

## Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe	9 5/8	1		1203	Packer					Top Plug	9 5/8	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar	9 5/8	1		1157	Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8	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

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

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		20.00	bbl	8.34	.0	.0	4.0	
2	VariCem GJ1 Lead Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.3	2.38	13.77	8.0	13.77
13.77 Gal		FRESH WATER							
3	VersaCem GJ1Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	8.0	11.75
4	Fresh Water Displacement		91.00	bbl	8.34	.0	.0	10.0	
Calculated Values		Pressures		Volumes					
Displacement	91	Shut In: Instant		Lost Returns		Cement Slurry	127.9	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	30	Actual Displacement	91	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	239
Rates									
Circulating	RIG	Mixing	8	Displacement	10	Avg. Job	8		
Cement Left In Pipe	Amount	46.5 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*

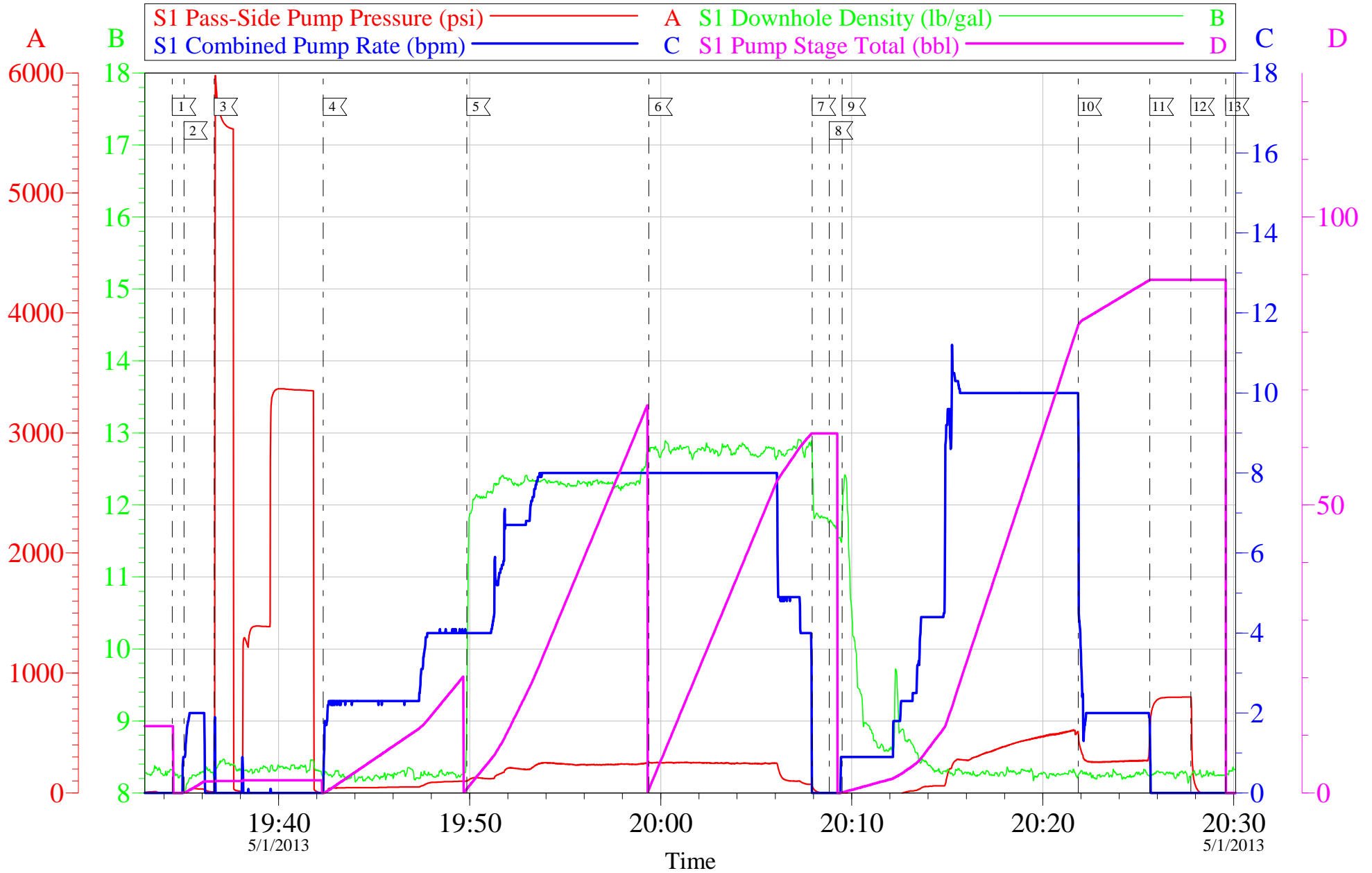
<b>Sold To #:</b> 300721		<b>Ship To #:</b> 2995762		<b>Quote #:</b>		<b>Sales Order #:</b> 900406224	
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				<b>Customer Rep:</b> Dunihoo, Al			
<b>Well Name:</b> PA			<b>Well #:</b> 412-11		<b>API/UWI #:</b> 05-045-21827		
<b>Field:</b> Parachute		<b>City (SAP):</b> PARACHUTE		<b>County/Parish:</b> Garfield		<b>State:</b> Colorado	
<b>Legal Description:</b>							
<b>Lat:</b> N 39.453 deg. OR N 39 deg. 27 min. 10.39 secs.				<b>Long:</b> W 107.967 deg. OR W -108 deg. 1 min. 57.367 secs.			
<b>Contractor:</b> Cylcone Drilling			<b>Rig/Platform Name/Num:</b> Cyclone 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> PONDER, THOMAS			<b>MBU ID Emp #:</b> 427112	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	05/01/2013 09:00							
Crew Leave Yard	05/01/2013 11:00							ALL HES PRESENT FOR PRE-CONVOY SAFETY HUDDLE
Arrive At Loc	05/01/2013 13:00							RIG WAS STILL RUNNING THEIR WIPER TRIP WHEN CREW ARRIVED ON LOCATION, CREW WAS ASKED TO ON LOCATION @ 1500, CASING CREW ARRIVED @ 1400 DID NOT START RUNNING CASING UNTIL 1500
Assessment Of Location Safety Meeting	05/01/2013 18:30							TD- 1217', TP- 1203.34', SJ- 46.5', MUD- 9.7 PPG, HOLE- 13 1/2", SURFACE CASING- 9 5/8" 32.3# H-40
Rig-Up Equipment	05/01/2013 18:45							1-550 PICKUP, 1-ELITE PUMP, 1-660 CUFT BULK TRUCK
Safety Meeting	05/01/2013 19:15							ALL HES PRESENT, RIG CREW PRESENT, RIG STARTED CIRCULATING ON BOTTOM @ 1830
Start Job	05/01/2013 19:34		2	2			36.0	FILL LINES
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Test Lines	05/01/2013 19:36		0.1	0.1			3369.0	GOOD PRESSURE TEST, OPERATOR ACCIDENTALLY HAD THE RPM ON THE DECK ENGINE UP SLIGHTLY BEFORE KICKING IT INTO GEAR
Pump Spacer 1	05/01/2013 19:42		4	10			100.0	FRESH WATER
Pump Tail Cement	05/01/2013 19:49		8	60.1			256.0	160 SKS 12.8 PPG 2.11 FT3/SK 11.75 GAL/SK
Pump Lead Cement	05/01/2013 19:49		8	67.8			254.0	160 SKS 12.3 PPG 2.38 FT3/SK 13.75 GAL/SK
Shutdown	05/01/2013 20:07							
Drop Plug	05/01/2013 20:08							PLUG DROP VERIFIED VIA TATTLE TELL BY CUSTOMER REP
Pump Displacement	05/01/2013 20:09		10	81			527.0	FRESH WATER, WASHED UP MIXING TUB ON TOP OF PLUG
Slow Rate	05/01/2013 20:21		2	10	91		265.0	GOOD CIRCULATION THROUGH OUT THE JOB, 30 BBL CEMENT CIRCULATED TO SURFACE
Bump Plug	05/01/2013 20:25			91			295.0	PLUG BUMPED
Check Floats	05/01/2013 20:27							FLOATS HELD, 1/2 BBL BACK TO THE DISPLACEMENT TANKS
End Job	05/01/2013 20:29							THANK YOU FOR CHOOSING HALLIBURTON, THOMAS PONDER AND CREW

# WPX PA 412-11

9.625 IN SURFACE

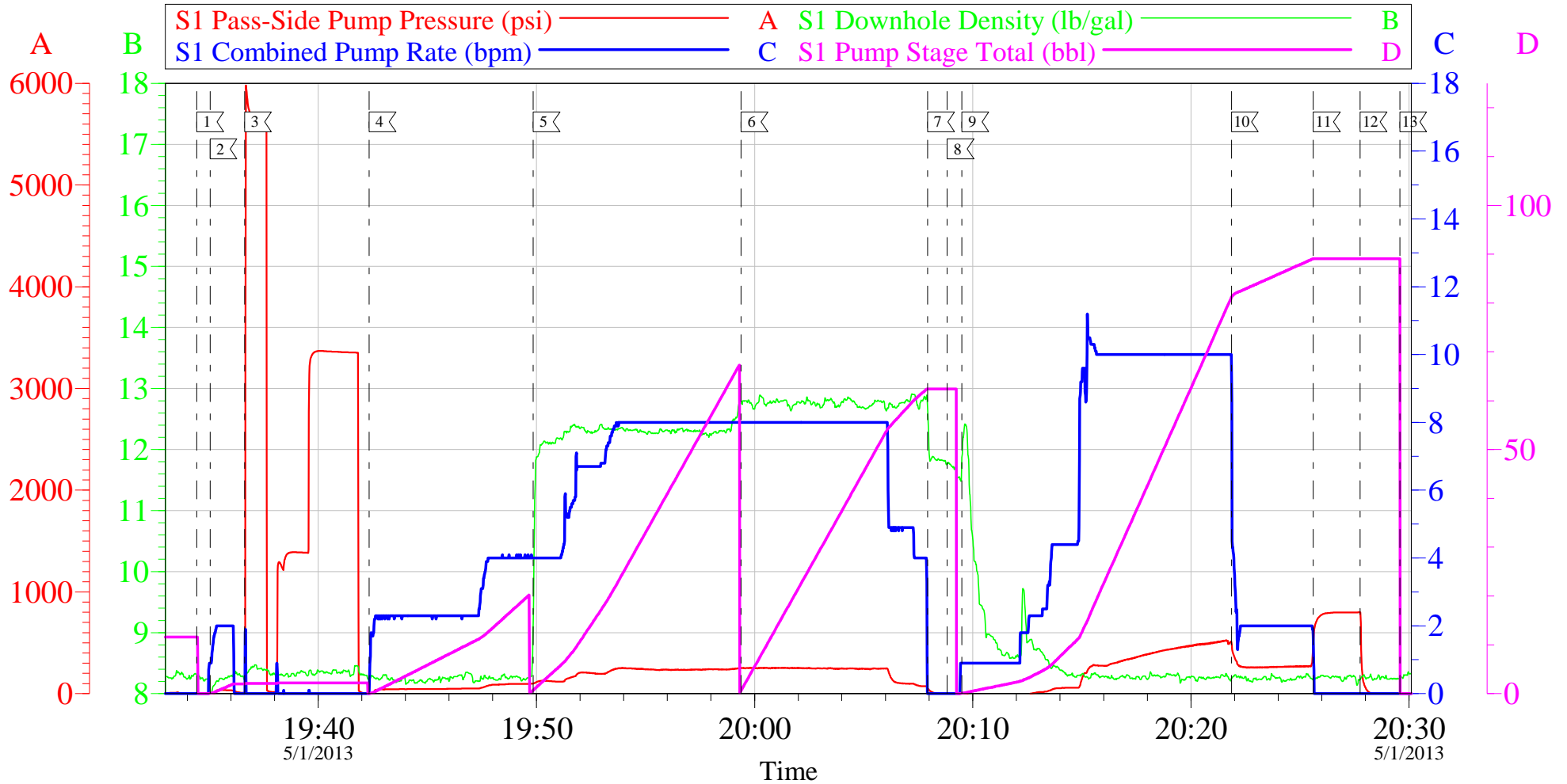


Customer: WPX	Job Date: 01-May-2013	Sales Order #: 900406224
Well Description: PA 412-11	Job Type: SURFACE	ADC Used: YES
Company Rep: AL DUNIHOO	Cement Supervisor: THOMAS PONDER	Elite #/Operator: ELITE #9 / BEN ROSE

OptiCem v6.4.10  
01-May-13 20:32

# WPX PA 412-11

9.625 IN SURFACE



Local Event Log			
Maximum	SPPP	Maximum	SPPP
1 START JOB	19:34:26 -6.619	2 FILL LINES	19:35:03 36.00
4 PUMP H2O SPACER	19:42:20 100.7	5 PUMP LEAD CEMENT	19:49:51 254.0
7 SHUTDOWN	20:07:56 58.00	8 DROP PLUG	20:08:49 -1.000
10 SLOW RATE	20:21:51 511.0	11 BUMP PLUG	20:25:37 800.0
13 END JOB	20:29:34 -1.000	3 TEST LINES	19:36:38 597.9
		6 PUMP TAIL CEMENT	19:59:23 256.0
		9 PUMP H2O DISPLACEMENT	20:09:30 527.0
		12 CHECK FLOATS	20:27:45 800.0

Customer: WPX  
Well Description: PA 412-11  
Company Rep: AL DUNIHO

Job Date: 01-May-2013  
Job Type: SURFACE  
Cement Supervisor: THOMAS PONDER

Sales Order #: 900406224  
ADC Used: YES  
Elite #/Operator: ELITE #9 / BEN ROSE

OptiCem v6.4.10  
01-May-13 20:31

# HALLIBURTON

Company:	<u>WPX</u>	Date:	<u>5/1/2013</u>
Submitted by:	<u>THOMAS PONDER</u>	Date Rec.:	<u>5/1/2013</u>
Attention:	<u>LARRY COOKSEY</u>	S.O.#	<u>900406224</u>
Lease	<u>PA</u>	Job Type:	<u>SURFACE</u>
Well #	<u>412-11</u>		

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>6</i>
Potassium (K)	<i>5000</i>	<i>500</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>120</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>0</i> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<i>&lt;200</i> Mg / L
Carbonates hardness		
Temp	<i>40-80</i>	<i>56</i> Deg
Total Dissolved Solids		<i>280</i> Mg / L

Respectfully: THOMAS PONDER

Title: CEMENTING SUPERVISOR

Location: GRAND JCT, CO



<b>Sales Order #:</b> 900406224	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 5/1/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> AL DUNIHO		<b>API / UWI: (leave blank if unknown)</b> 05-045-21827
<b>Well Name:</b> PA		<b>Well Number:</b> 412-11
<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	5/1/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	THOMAS PONDER (HX41187)
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!

<b>CUSTOMER SIGNATURE</b>
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<b>Sales Order #:</b> 900406224	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 5/1/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> AL DUNIHO		<b>API / UWI: (leave blank if unknown)</b> 05-045-21827
<b>Well Name:</b> PA		<b>Well Number:</b> 412-11
<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> The date the survey was conducted	5/1/2013

Cementing KPI Survey	
<b>Type of Job</b> Select the type of job. (Cementing or Non-Cementing)	0
<b>Select the Maximum Deviation range for this Job</b> What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
<b>Total Operating Time (hours)</b> Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	3
<b>HSE Incident, Accident, Injury</b> HSE Incident, Accident, Injury. This should be recordable incidents only.	No
<b>Was the job purpose achieved?</b> Was the job delivered correctly as per customer agreed design?	Yes
<b>Operating Hours (Pumping Hours)</b> Total number of hours pumping fluid on this job. Enter in decimal format.	2
<b>Customer Non-Productive Rig Time (hrs)</b> 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.	0
<b>Type of Rig Classification Job Was Performed</b> Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
<b>Number Of JSAs Performed</b> Number Of Jsas Performed	6
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

<b>Sales Order #:</b> 900406224	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 5/1/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> AL DUNIHO		<b>API / UWI: (leave blank if unknown)</b> 05-045-21827
<b>Well Name:</b> PA		<b>Well Number:</b> 412-11
<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

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	99
<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	99
<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