
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**PA 511-11
RULISON
Garfield County , Colorado**

Cement Surface Casing
28-Mar-2013

Post Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2989285	Quote #:	Sales Order #: 900324015
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Dunihoo, Al	
Well Name: PA		Well #: 511-11	API/UWI #:
Field: RULISON	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Contractor: Cylcone 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: KUKUS, CHRISTOPHER	MBU ID Emp #: 413952

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
GOWEN, WESLEY M	7.5	496205	KUKUS, CHRISTOPHER A	7.5	413952	ROSE, BENJAMIN Keith	7.5	487022

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10567589C	50 mile	10784064	50 mile	11006314	50 mile	11583931	50 mile
11808829	50 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
03/28/2013	7.5	3						

TOTAL Total is the sum of each column separately

Job

Formation Name						Date	Time	Time Zone		
Formation Depth (MD)		Top		Bottom		Called Out	28 - Mar - 2013	03:30	MST	
Form Type				BHST		On Location	28 - Mar - 2013	07:00	MST	
Job depth MD		1028.5 ft		Job Depth TVD		1028.5 ft	Job Started	28 - Mar - 2013	12:24	MST
Water Depth				Wk Ht Above Floor		5. ft	Job Completed	28 - Mar - 2013	13:18	MST
Perforation Depth (MD)		From		To		Departed Loc	28 - Mar - 2013	14:30	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				.	1045.		
SURFACE CASING	New		9.625	9.001	32.3		I-80	.	1028.5		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9 5/8	1	HES
Float Shoe	9 5/8	1		1028.46	Bridge Plug					Bottom Plug			
Float Collar	9 5/8	1		981.81	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

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

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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	8.33	.0	.0	4	
2	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	110.0	sacks	12.3	2.38	13.75	6	13.75
13.75 Gal		FRESH WATER							
3	VersaCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	6	11.75
11.75 Gal		FRESH WATER							
4	Fresh Water Displacement		77.30	bbl	8.33	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	77.3	Shut In: Instant		Lost Returns	0	Cement Slurry	106.7	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	20	Actual Displacement	77.3	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	204
Rates									
Circulating		Mixing	6	Displacement	10	Avg. Job	7		
Cement Left In Pipe	Amount	46.6 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					

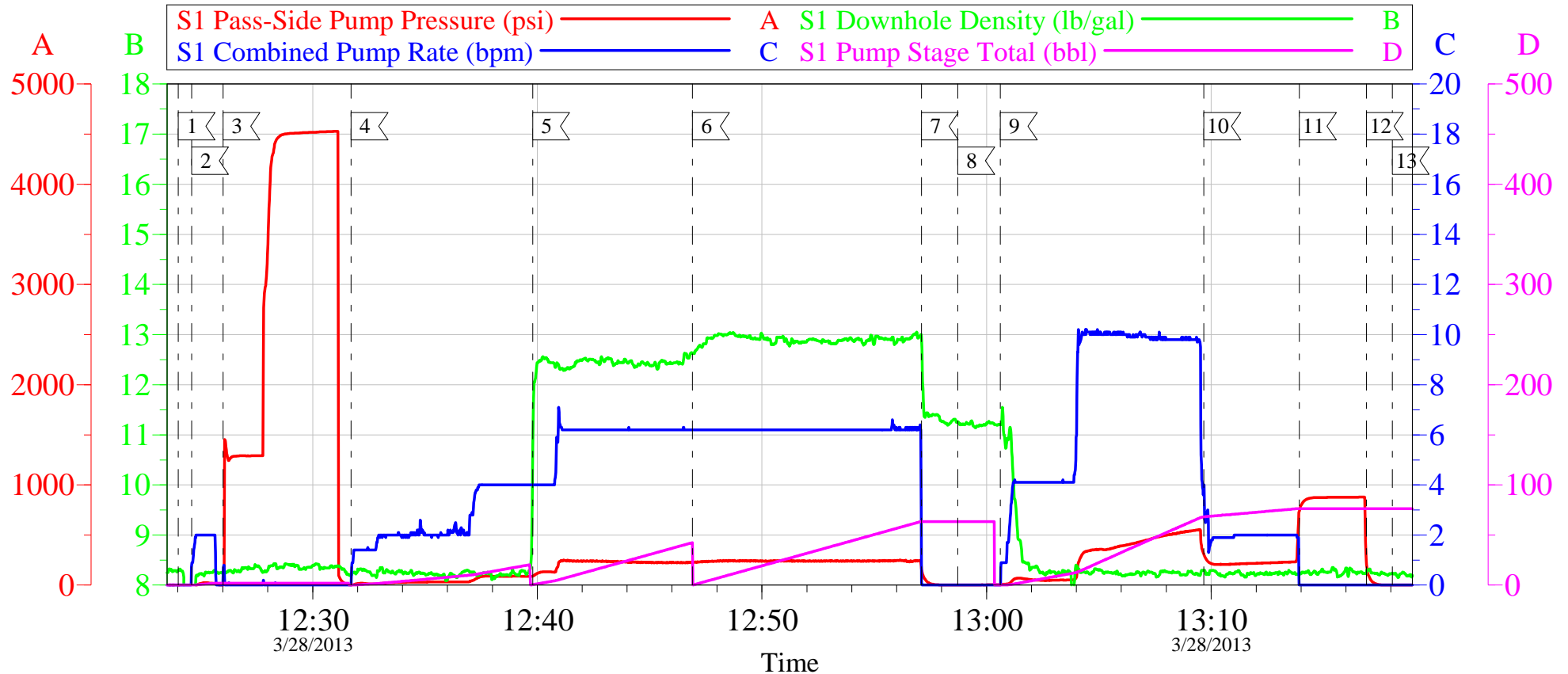
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer	03/28/2013 12:31		4	10	10		88.0	FRESH WATER SPACER
Pump Lead Cement	03/28/2013 12:39		6	46.6	46.6		230.0	110 SKS 12.3 PPG 2.38 YEILD 13.75 GAL / SK LEAD CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGH OUT LEAD CEMENT
Pump Tail Cement	03/28/2013 12:46		6	60.1	60.1		243.0	160 SKS 12.8 PPG 2.11 YEILD 11.75 GAL / SK TAIL CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGH OUT TAIL CEMENT
Shutdown	03/28/2013 12:57							SHUTDOWN AT END OF CEMENT / READY TUB FOR DISPLACEMENT
Drop Plug	03/28/2013 12:58							PLUG AWAY NO PROBLEMS
Pump Displacement	03/28/2013 13:00		10	67.3	67.3		553.0	FRESH WATER DISPLACEMENT HES WASH UP ON TOP OF PLUG PER CO-REP REQUEST
Slow Rate	03/28/2013 13:09		2	10	10		209.0	SLOW RATE TO BUMP PLUG
Bump Plug	03/28/2013 13:13		2	77.3	77.3		239.0	BUMP PLUG @ 239 AND TOOK PRESSURE UP TO 877 PSI
Check Floats	03/28/2013 13:16							FLOATS HELD .5 BBL BACK TO DISPLACEMENT TANKS
End Job	03/28/2013 13:18							WELL HAD GOOD CIRCULATION THROUGH OUT CEMENT JOB GOT 20 BBLS OF CEMENT TO SURFACE RIG USED 40LBS OF SUGAR TICKET CHANGE: NO ADD HOURS, NO DERRICK CHARGE, SUGAR TO 40 LBS
Pre-Rig Down Safety Meeting	03/28/2013 13:30							ALL HES EMPLOYEES

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Rig-Down Equipment	03/28/2013 13:40							RIG FLOOR, IRON FROM STAND PIPE, SUCTION HOSE, BULK HOSE, WASH UP & BLOW DOWN PUMP
Pre-Convoy Safety Meeting	03/28/2013 14:20							ALL HES EMPLOYEES
Crew Leave Location	03/28/2013 14:30							THANKS FOR USING HALLIBURTON CEMENT CHRIS KUKUS AND CREW

WPX ENERGY / PA 511-11

9 5/8 SURFACE



Local Event Log

1 START JOB	12:24:01	2 FILL LINES	12:24:37
3 TEST LINES	12:26:01	4 PUMP FRESH WATER SPACER	12:31:43
5 PUMP LEAD CEMENT	12:39:48	6 PUMP TAIL CEMENT	12:46:55
7 SHUTDOWN	12:57:06	8 DROP PLUG	12:58:43
9 PUMP FRESH WATER DISPLACEMENT	13:00:37	10 SLOW RATE	13:09:41
11 BUMP PLUG	13:13:56	12 CHECK FLOATS	13:16:55
13 END JOB	13:18:04		

Customer: WPX ENERGY
Well Description: PA 511-11
Company Rep: AL DUNIHO

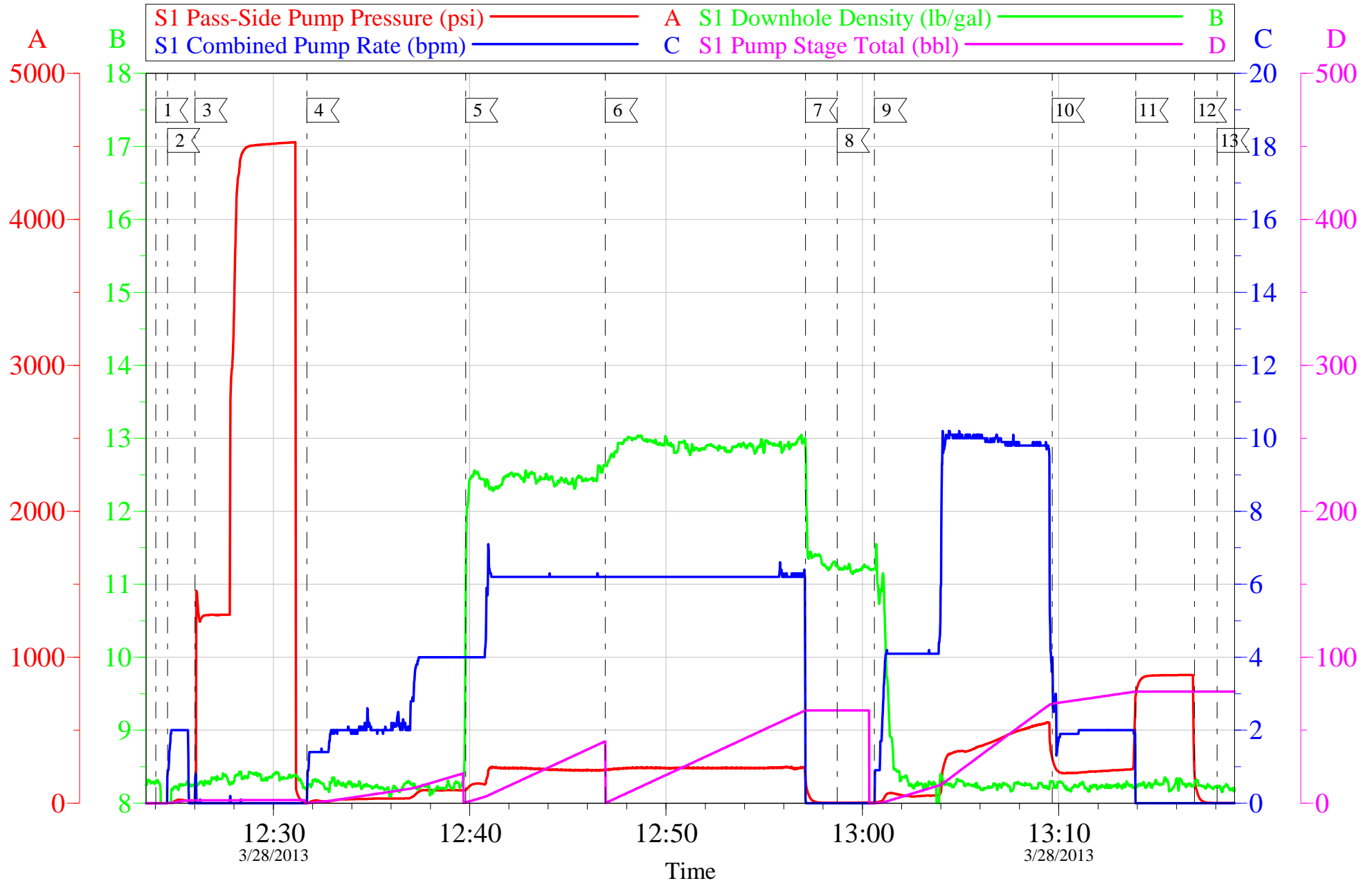
Job Date: 28-Mar-2013
Job Type: SURFACE
Cement Supervisor: CHRIS KUKUS

Sales Order #: 900324015
ADC Used: YES
Elite # 3: WESLEY GOWEN

OptiCem v6.4.10
28-Mar-13 13:21

WPX ENERGY / PA 511-11

9 5/8 SURFACE



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HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: CHRIS KUKUS

Attention: J. TROUT/C.MARTINEZ

Lease PA

Well # 511-11

Date: 3/28/2013

Date Rec.: 3/28/2013

S.O.# 900324015

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>	UNDER 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	50 Deg
Total Dissolved Solids		370 Mg / L

Respectfully: CHRIS KUKUS

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 #: 900324015	Line Item: 10	Survey Conducted Date: 3/28/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: AL DUIHOO		API / UWI: (leave blank if unknown) AFEYS2NTBHKTOFLPAAA
Well Name: PA		Well Number: 511-11
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	3/28/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHRISTOPHER KUKUS (HX35027)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	AL DUIHOO
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

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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	3/28/2013
The date the survey was conducted	

Cementing KPI Survey	
Type of Job Select the type of job. (Cementing or Non-Cementing)	0
Select the Maximum Deviation range for this Job What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	3
HSE Incident, Accident, Injury HSE Incident, Accident, Injury. This should be recordable incidents only.	No
Was the job purpose achieved? Was the job delivered correctly as per customer agreed design?	Yes
Operating Hours (Pumping Hours) Total number of hours pumping fluid on this job. Enter in decimal format.	1.5
Customer Non-Productive Rig Time (hrs) 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
Type of Rig Classification Job Was Performed Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
Number Of JSAs Performed Number Of Jsas Performed	6
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Was this a Primary Cement Job (Yes / No)	Yes

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Customer Representative: AL DUIHOO		API / UWI: (leave blank if unknown) AFEYS2NTBHKTOFLPAAA
Well Name: PA		Well Number: 511-11
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	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