
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

**SG 442-23
GRAND VALLEY PICEANCE
Garfield County , Colorado**

Cement Surface Casing
23-Nov-2012

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 2959558		Quote #:		Sales Order #: 9912539	
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: Hudson, Matt			
Well Name: SG			Well #: 442-23			API/UWI #:	
Field: GRAND VALLEY PICEANCE		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
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: ARNOLD, EDWARD		MBU ID Emp #: 439784	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ARNOLD, EDWARD John	7.5	439784	DOUT, JACOB J	7.5	430298	SINCLAIR, DAN J	7.5	338784

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10867425	60 mile	10871245	60 mile	10897891	60 mile	11259882	60 mile
11808831	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11-22-2012	1.5	0	11-23-2012	6	3			

TOTAL Total is the sum of each column separately

Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	22 - Nov - 2012	19:00	MST
Form Type		BHST	Job Started	22 - Nov - 2012	22:30	MST
Job depth MD	1262. ft.	Job Depth TVD	Job Completed	23 - Nov - 2012	03:32	MST
Water Depth		Wk. Ht Above Floor	Departed Loc	23 - Nov - 2012	04:33	MST
Perforation Depth (MD)	From	To			06:00	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
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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	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

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

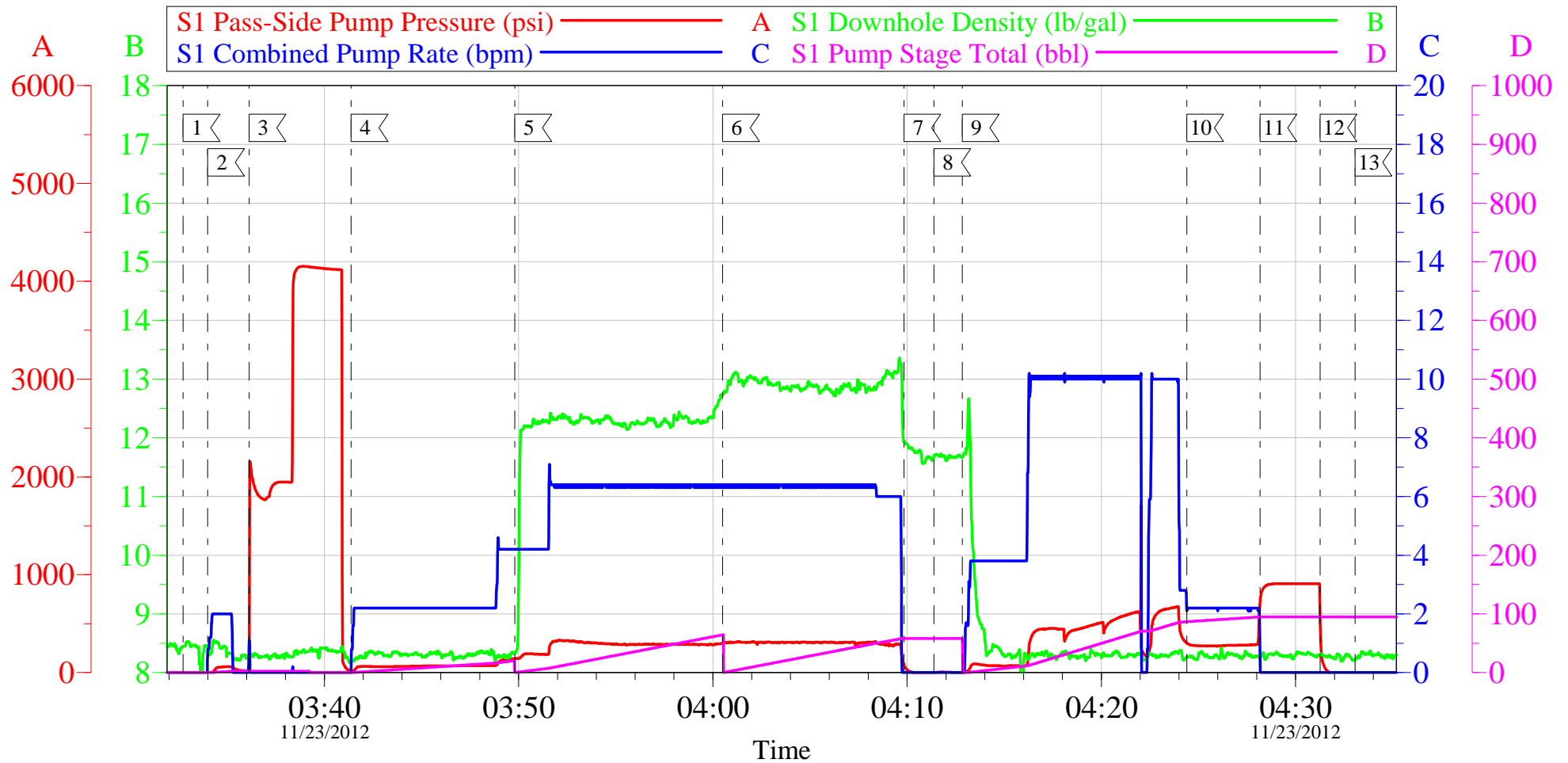
Stage/Plug #: 1

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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		20.00	bbl	.	.0	.0	4	
2	LEAD CEMENT	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.3	2.38	13.75	6	13.75
		13.75 Gal FRESH WATER							
3	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		96.00	bbl	.	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	95.6	Shut In: Instant		Lost Returns		Cement Slurry	127.9	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	10	Actual Displacement	95.9	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	243.8
Rates									
Circulating	RIG	Mixing	6	Displacement	10	Avg. Job	8		
Cement Left In Pipe	Amount	47.35FT	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					

Start Job	11/23/2012 03:32							TD 1280; TP 1266; SJ 47.35; OH 13 1/2"; CASING 9 5/8"m, 32.3# H-40; MUD 10 PPG.
Pump Water	11/23/2012 03:33		2	2			52.0	Fresh water ahead to fill lines.
Test Lines	11/23/2012 03:36					4151.0		Test lines to 4151 psi, Found no leaks, good test.
Pump Spacer 1	11/23/2012 03:41		4	20			140.0	20 BBL's fresh water.
Pump Lead Cement	11/23/2012 03:49		6	67.8			300.0	169 sks Lead cement, 12.3 ppg, 2.38 cf3, 13.75 gal/sk.
Pump Tail Cement	11/23/2012 04:00		6	60.1			310.0	160 sks Tail cement, 12.8 ppg, 2.11 cf3, 11.75 gal/sk.
Shutdown	11/23/2012 04:09							
Drop Plug	11/23/2012 04:11							Plug left Container.
Pump Displacement	11/23/2012 04:12		10	85.9			685.0	Fresh water displacement.
Slow Rate	11/23/2012 04:24		2	10			268.0	Slow rate last 10 BBL's of displacement prior to bumping the plug.
Bump Plug	11/23/2012 04:28				95.9		908.0	Plug landed. Took to 908 psi.
Check Floats	11/23/2012 04:31							Floats Held. 3/4 BBL's back. 10 BBL's of good cement to surface.
End Job	11/23/2012 04:33							
Pre-Rig Down Safety Meeting	11/23/2012 04:35							Including entire cement crew, discussed hazards and safety.
Rig-Down Equipment	11/23/2012 04:40							
Pre-Convoy Safety Meeting	11/23/2012 05:45							Including entire cement crew, discussed hazards, route, and safety.
Crew Leave Location	11/23/2012 06:00							
Other	11/23/2012 06:00							Thank You for using Halliburton, Ed Arnold and Crew.

WPX - SG 442-23

9 5/8" SURFACE

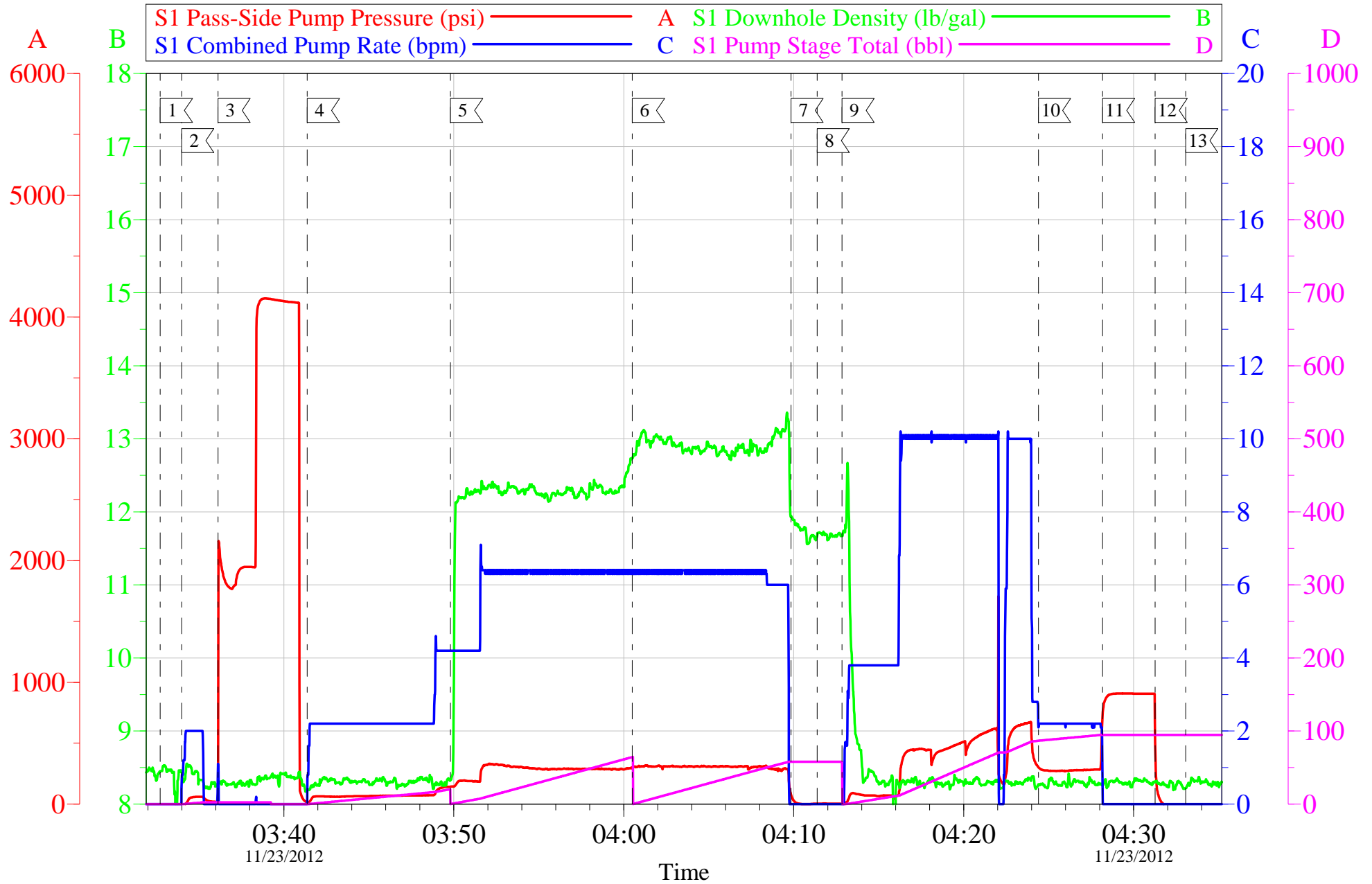


Local Event Log					
1	START JOB	03:32:43	2	FILL LINES	03:33:59
3	TEST LINES	03:36:08	4	H2O SPACER	03:41:23
5	LEAD CEMENT	03:49:48	6	TAIL CEMENT	04:00:30
7	SHUT DOWN	04:09:50	8	DROP PLUG	04:11:23
9	H2O DISPLACEMENT	04:12:50	10	SLOWRATE	04:24:24
11	BUMP PLUG	04:28:10	12	CHECK FLOATS	04:31:15
13	END JOB	04:33:03			

Customer: WPX	Job Date: 23-Nov-2012	Sales Order #: 9912539
Well Description: SG 442-23	Job Type: SURFACE	ADC Used: YES
Company Rep: MATT HUDSON	Cement Supervisor: ED ARNOLD	Elite #8: DAN SINCLAIR

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OptiCem v6.4.10
23-Nov-12 05:11



Water Analysis Report

Company:	WPX	Date:	11/23/2012
Submitted by:	ED ARNOLD	Date Rec.:	11/23/2012
Attention:	J.TROUT	S.O.#	9912539
Lease	SG	Job Type:	SURFACE
Well #	442-23		

Specific Gravity	MAX	1
pH	8	7
Potassium (K)	5000	250 Mg / L
Calcium (Ca)	500	120 Mg / L
Iron (FE2)	300	0 Mg / L
Chlorides (Cl)	3000	0 Mg / L
Sulfates (SO ₄)	1500	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	40-80	78 Deg
Total Dissolved Solids		230 Mg / L

Respectfully: ED ARNOLD

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 #: 9912539	Line Item: 10	Survey Conducted Date: 11/23/2012
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: MATT HUDSON		API / UWI: (leave blank if unknown) AFEYSFDNCBKN34QRAAA
Well Name: SG		Well Number: 442-23
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	11/23/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	EDWARD ARNOLD (HX46731)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	MATT HUDSON
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

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Customer Representative: MATT HUDSON		API / UWI: (leave blank if unknown) AFEYSFDNCBKN34QRAAA
Well Name: SG		Well Number: 442-23
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	11/23/2012
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)	1.5
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

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Well Name: SG		Well Number: 442-23
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	5
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