HALLIBURTON

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

SG 14-27

Garfield County , Colorado

Cement Surface Casing

26-May-2012

Post Job Report

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 2929088	**Quote #:**	**Sales Order #:** 9538824
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		**Customer Rep:** Moore, Frank	
Well Name: SG	**Well #:** 14-27		**API/UWI #:** 05-045-21022
Field:	**City (SAP):**	**County/Parish:** Garfield	**State:** Colorado
Lat: N 39.404 deg. OR N 39 deg. 24 min. 15.779 secs.		**Long:** W 108.099 deg. OR W -109 deg. 54 min. 5.08 secs.	
Contractor: NABORS 573	**Rig/Platform Name/Num:** NABORS 573		
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 #
BRENNECKE, ANDREW Bailey	0.0	486345	DEUSSEN, EDWARD Eric	0.0	485182	KEANE, JOHN Donovon	0.0	486519
SMITH, CHRISTOPHER Scott	0.0	452619						

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*
10567589C	60 mile	10784064	60 mile	11006314	60 mile	11259884	60 mile
11808829	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

Formation Name			
Formation Depth (MD)	**Top**	**Bottom**	
Form Type		**BHST**	
Job depth MD	991. m	**Job Depth TVD**	991. m
Water Depth		**Wk Ht Above Floor**	6. m
Perforation Depth (MD)	*From*	**To**	

Job Times

	Date	Time	Time Zone
Called Out	25 - May - 2012	20:00	MST
On Location	25 - May - 2012	23:00	MST
Job Started	26 - May - 2012	05:05	MST
Job Completed	26 - May - 2012	05:53	MST
Departed Loc	26 - May - 2012	07:00	MST

Well Data

Description	New / Used	Max pressure MPa	Size mm	ID mm	Weight kg/m	Thread	Grade	Top MD m	Bottom MD m	Top TVD m	Bottom TVD m

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
R/A DENSOMETER W/CHART RECORDER,/JOB,ZI	1	JOB		
PORT. DATA ACQUIS. W/OPTICEM RT W/HES	1	EA		
ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI	1	JOB		
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

HALLIBURTON

Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density kg/m3	Yield m3/sk	Mix Fluid m3/ tonne	Rate m3/min	Total Mix Fluid m3/ tonne
1	Fresh Water		20.00	bbl	8.33	.0	.0	.0	
2	VersaCem Tail	VERSACEM (TM) SYSTEM (452010)	285.0	sacks	12.8	2.11	11.75		11.75
	11.75 Gal	FRESH WATER							
3	Displacement Fluid		74.00	bbl	8.34	.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	*0 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***

HALLIBURTON

Cementing Job Log

The Road to Excellence Starts with Safety

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Well Name: SG	**Well #:** 14-27		**API/UWI #:** 05-045-21022
Field:	**City (SAP):**	**County/Parish:** Garfield	**State:** Colorado
Legal Description:			
Lat: N 39.404 deg. OR N 39 deg. 24 min. 15.779 secs.		**Long:** W 108.099 deg. OR W -109 deg. 54 min. 5.08 secs.	
Contractor: NABORS 573	**Rig/Platform Name/Num:** NABORS 573		
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 m3/min	Volume m3 Stage	Volume m3 Total	Pressure MPa Tubing	Pressure MPa Casing	Comments
Pre-Convoy Safety Meeting	05/25/2012 21:15							ALL HES PERSONNEL
Crew Leave Yard	05/25/2012 21:30							
Arrive At Loc	05/25/2012 23:00							
Assessment Of Location Safety Meeting	05/25/2012 23:15							ALL HES PERSONNEL
Rig-Up Equipment	05/26/2012 03:00							
Rig-Up Completed	05/26/2012 03:45							
Pre-Job Safety Meeting	05/26/2012 04:45							ALL HES PERSONNEL AND RIG CREW
Start Job	05/26/2012 05:05		2	2			40.0	TD 1003 TP 991 SJ 44.45 MUD 10.2 OH 13 1/2" CAS 9 5/8" 32.3 LB
Pressure Test	05/26/2012 05:09							ALL LINES HELD PRESSURE TO 3212 PSI
Pump Spacer 1	05/26/2012 05:16		4	20			98.0	FRESH WATER
Pump Tail Cement	05/26/2012 05:21		8	107.1			312.0	285 SKS, 12.8 PPG, 2.11 FT3/ SK, 11.75 GAL/SK
Shutdown	05/26/2012 05:36							
Drop Top Plug	05/26/2012 05:38							
Pump Displacement	05/26/2012 05:39		10	64			484.0	FRESH WATER
Slow Rate	05/26/2012 05:47		2	10			229.0	
Bump Plug	05/26/2012 05:50						245.0	12 BBLS CEMENT TO SURFACE

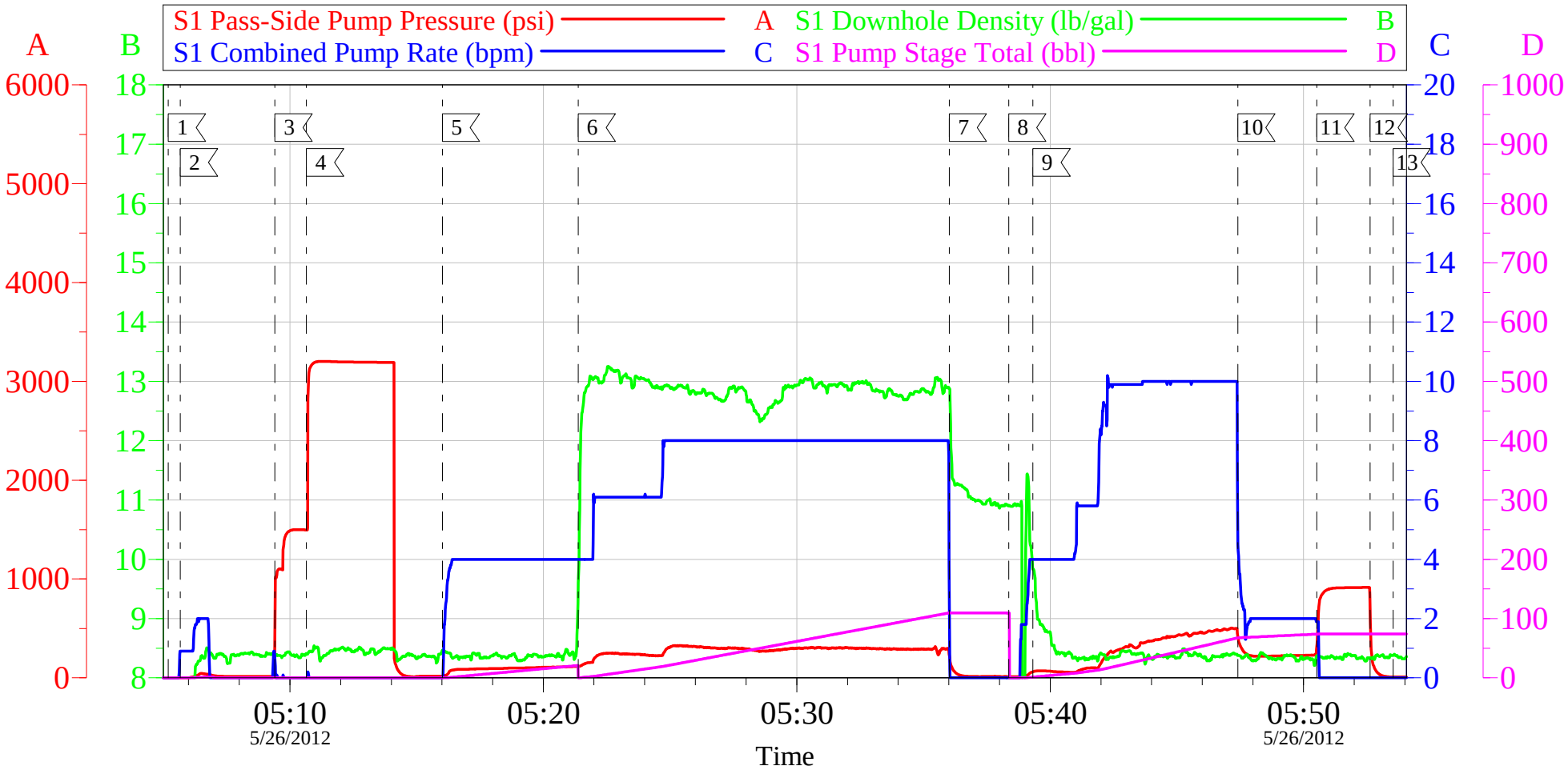
HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate m3/ min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Check Floats	05/26/2012 05:52						861.0	1/2 BBL BACK
End Job	05/26/2012 05:53							
Post-Job Safety Meeting (Pre Rig-Down)	05/26/2012 05:55							ALL HES PERSONNEL
Rig-Down Completed	05/26/2012 06:15							
Depart Location Safety Meeting	05/26/2012 06:20							ALL HES PERSONNEL
Crew Leave Location	05/26/2012 06:30							
Other	05/26/2012 06:31							THANK YOU FOR CHOOSING HALLIBURTON, ED DEUSSEN AND CREW

WPX SG 14-27

9 5/8" SURFACE



Local Event Log

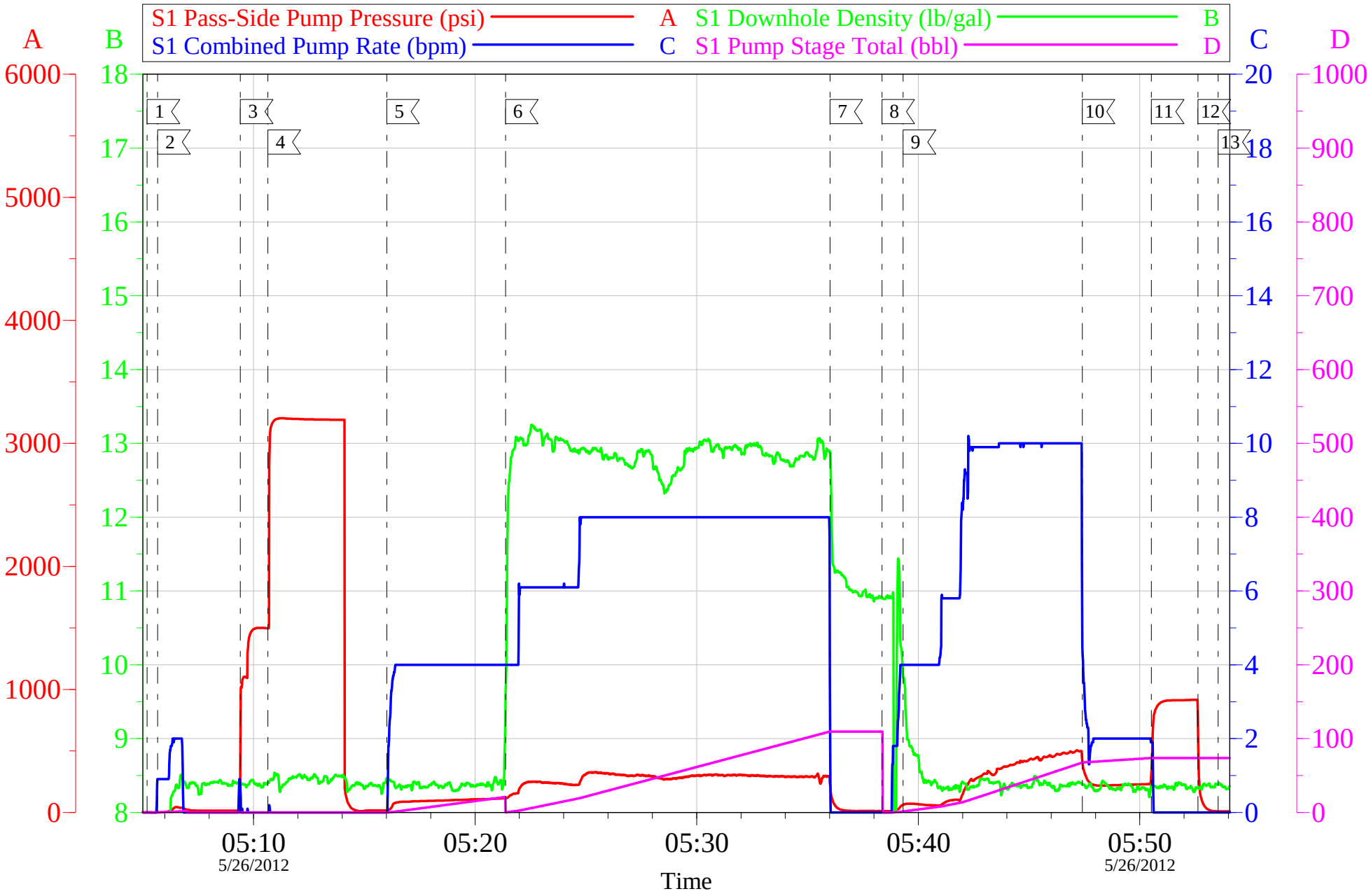
1	START JOB	05:05:12	2	FILL LINES	05:05:40	3	5TH GEAR STALLOUT	05:09:25
4	PRESSURE TEST	05:10:39	5	PUMP WATER SPACER	05:16:01	6	PUMP TAIL CEMENT	05:21:22
7	SHUT DOWN	05:36:01	8	DROP PLUG	05:38:22	9	PUMP DISPLACEMENT	05:39:19
10	SLOW RATE	05:47:24	11	BUMP PLUG	05:50:31	12	CHECK FLOATS	05:52:38
13	END JOB	05:53:32						

Customer:	WPX	Job Date:	26-May-2012	Sales Order #:	9538824
Well Description:	SG 14-27	Job Type:	SURFACE	ADC Used:	NO
Company Rep:	FRANK MOORE	Cement Supervisor:	ED DEUSSEN	Elite #3	CHRIS SMITH

OptiCem v6.4.10
26-May-12 06:03

WPX SG 14-27

9 5/8" SURFACE



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Well Description:	SG 14-27	Job Type:	SURFACE	ADC Used:	NO
Company Rep:	FRANK MOORE	Cement Supervisor:	ED DEUSSEN	Elite #3	CHRIS SMITH

OptiCem v6.4.10
26-May-12 06:03

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
9538824	10	5/26/2012
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
FRANK MOORE		05-045-21022
Well Name:		**Well Number:**
SG		14-27
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	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**	**5/26/2012**
Survey Interviewer	**The survey interviewer is the person who initiated the survey.**	**EDWARD DEUSSEN (HB57194)**
Customer Participation	**Did the customer partipcipate in this survey? (Y/N)**	**Yes**
Customer Representative	**Enter the Customer representative name**	**FRANK MOORE**
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

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
9538824	10	5/26/2012
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
FRANK MOORE		05-045-21022
Well Name:		**Well Number:**
SG		14-27
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	5/26/2012

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.	2.5
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	5
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 SURVEY

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9538824	10	5/26/2012
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
FRANK MOORE		05-045-21022
Well Name:		**Well Number:**
SG		14-27
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	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 cment mixed at designed density divided by total BBLs of cement multiplied by 100	95
Was Automated Density Control Used? Was Automated Density Control (ADC) Used ?	No
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