HALLIBURTON

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

SG 413-27
SOUTH GRAND VALLEY
Garfield County , Colorado

Cement Surface Casing

21-May-2012

Post Job Report

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 300721	**Quote #:**	**Sales Order #:** 9518608
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		**Customer Rep:** Moore, Frank	
Well Name: SG	**Well #:** 413-27		**API/UWI #:**
Field: SOUTH GRAND VALLEY	**City (SAP):** TULSA	**County/Parish:** Garfield	**State:** Colorado
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:** SLAUGHTER, JESSE	**MBU ID Emp #:** 454315	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
GOWEN, WESLEY M	6.5	496205	KUKUS, CARLTON Dean	6.5	458577	SLAUGHTER, JESSE Dean	6.5	454315

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*
10867423	60 mile	11259881	60 mile	11560046	60 mile	11562538	60 mile
11808833	60 mile						

Job Hours

Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours
5-21-2012	6.5	3						
TOTAL			*Total is the sum of each column separately*					

Job

Formation Name			
Formation Depth (MD)	**Top**	**Bottom**	
Form Type		**BHST**	
Job depth MD	1230. ft	**Job Depth TVD**	1230. ft
Water Depth		**Wk Ht Above Floor**	9. ft
Perforation Depth (MD)	*From*	**To**	

Job Times

	Date	Time	Time Zone
Called Out	21 - May - 2012	05:00	MST
On Location	21 - May - 2012	08:00	MST
Job Started	21 - May - 2012	11:33	MST
Job Completed	21 - May - 2012	12:29	MST
Departed Loc	21 - May - 2012	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

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

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

HALLIBURTON

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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
1	Fresh Water	FRESH WATER	20.00	bbl	8.33	.0	.0	4	
2	VersaCem Lead	VERSACEM (TM) SYSTEM (452010)	175.0	sacks	12.3	2.38	13.77	8	13.77
	13.77 Gal	FRESH WATER							
3	VersaCem Tail	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	8	11.75
	11.75 Gal	FRESH WATER							
4	Displacement Fluid	FRESH WATER	93.3	bbl	8.34	.0	.0	10	

Calculated Values		Pressures		Volumes					
Displacement	93.3	Shut In: Instant		Lost Returns	NO	*Cement Slurry*	134	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	30	Actual Displacement	93.3	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	248

Rates							
Circulating		*Mixing*	8	*Displacement*	10	Avg. Job	9

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***

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Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 300721	**Quote #:**	**Sales Order #:** 9518608
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		**Customer Rep:** Moore, Frank	
Well Name: SG	**Well #:** 413-27		**API/UWI #:**
Field: SOUTH GRAND VALLEY	**City (SAP):** TULSA	**County/Parish:** Garfield	**State:** Colorado
Legal Description:			
Lat:		**Long:**	
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:** SLAUGHTER, JESSE		**MBU ID Emp #:** 454315

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl Stage	Volume bbl Total	Pressure psig Tubing	Pressure psig Casing	Comments
Call Out	05/21/2012 05:00							TD 1234 FT, TP 1230 FT, SHOE 44.49 FT. CSG 9 5/8 IN 32.3 LB/FT, HOLE 13 1/2 IN, MUD WT 10.9 PPG
Pre-Convoy Safety Meeting	05/21/2012 06:50							WITH ALL HES PERSONNEL
Crew Leave Yard	05/21/2012 07:00							
Arrive At Loc	05/21/2012 08:00							RIG WAS RUNNING CASING UPON HES ARRIVAL
Assessment Of Location Safety Meeting	05/21/2012 10:00							WITH ALL HES PERSONNEL
Other	05/21/2012 10:10							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	05/21/2012 10:20							WITH ALL HES PERSONNEL
Rig-Up Equipment	05/21/2012 10:30							
Pre-Job Safety Meeting	05/21/2012 11:20							WITH ALL PERSONNEL ON LOCATION
Start Job	05/21/2012 11:33							
Other	05/21/2012 11:33		2	2			47.0	FILL LINES WITH FRESH WATER
Test Lines	05/21/2012 11:35							TESTED LINES TO 3113 PSI PRESSURE HOLDING
Pump Spacer 1	05/21/2012 11:41		4	20			108.0	FRESH WATER
Pump Lead Cement	05/21/2012 11:50		8	74.2			305.0	175 SKS AT 12.3 PPG, 2.38 FT3/SK, 13.75 GAL/SK

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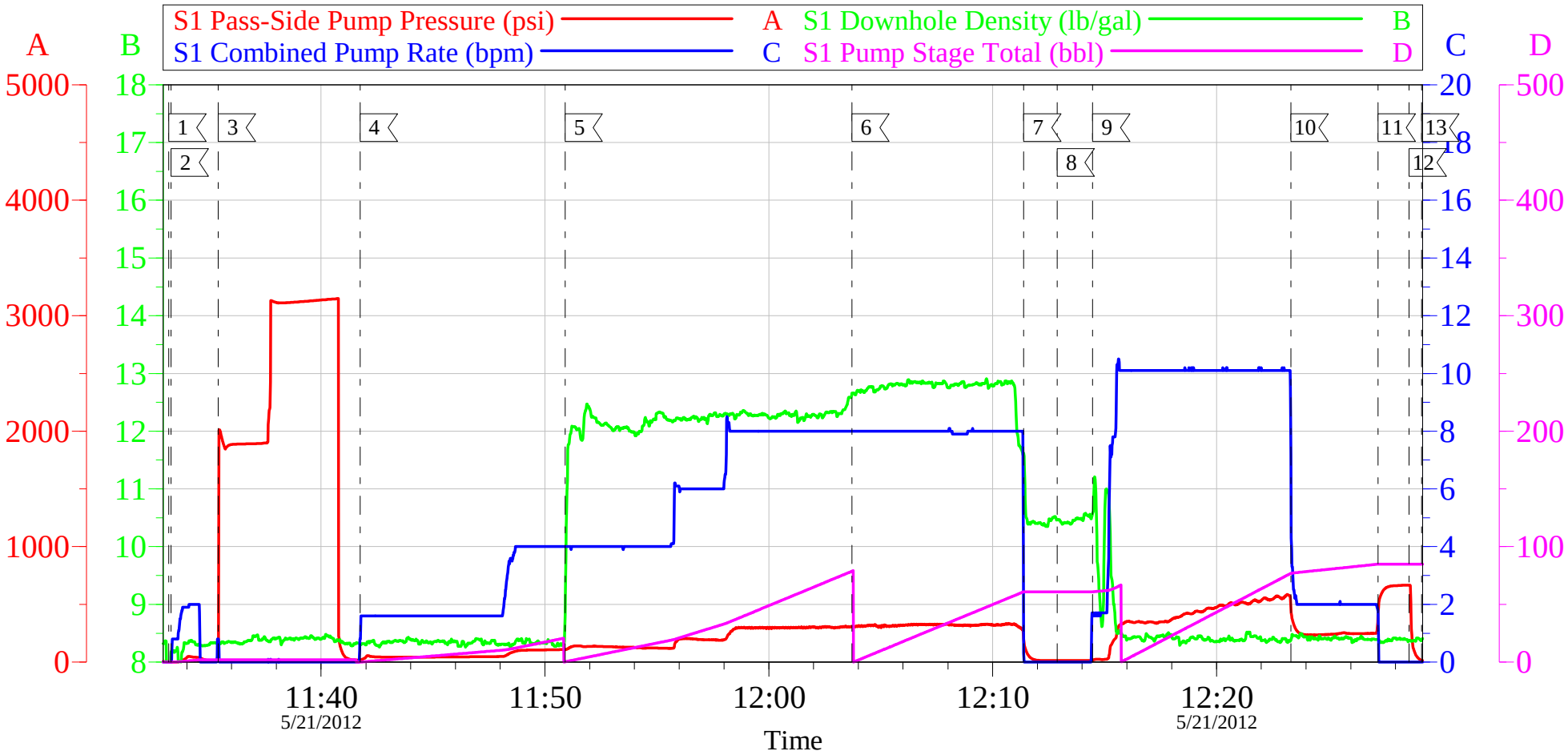
Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	05/21/2012 12:03		8	60.1			320.0	160 SKS AT 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK
Shutdown	05/21/2012 12:11							
Drop Top Plug	05/21/2012 12:12							PLUG LAUNCHED
Pump Displacement	05/21/2012 12:14		10	83.3			570.0	FRESH WATER
Slow Rate	05/21/2012 12:23		2	10			245.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	05/21/2012 12:27		2		93.3		665.0	PLUG BUMPED
Check Floats	05/21/2012 12:28							FLOATS HOLDING. HES RETURNED 1/2 BBL H20 TO PUMP
End Job	05/21/2012 12:29							PIPE WAS STATIC THROUGHOUT JOB, GOOD CIRCULATION THROUGHOUT JOB. HES RETURNED 30 BBL CEMENT TO SURFACE
Pre-Rig Down Safety Meeting	05/21/2012 12:35							WITH ALL HES PERSONNEL
Rig-Down Equipment	05/21/2012 12:45							
Pre-Convoy Safety Meeting	05/21/2012 14:20							WITH ALL HES PERSONNEL
Crew Leave Location	05/21/2012 14:30							
Comment	05/21/2012 14:31							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. JESSE SLAUGHTER AND CREW.

WILLIAMS SG 413-27

9 5/8 SURFACE



Local Event Log

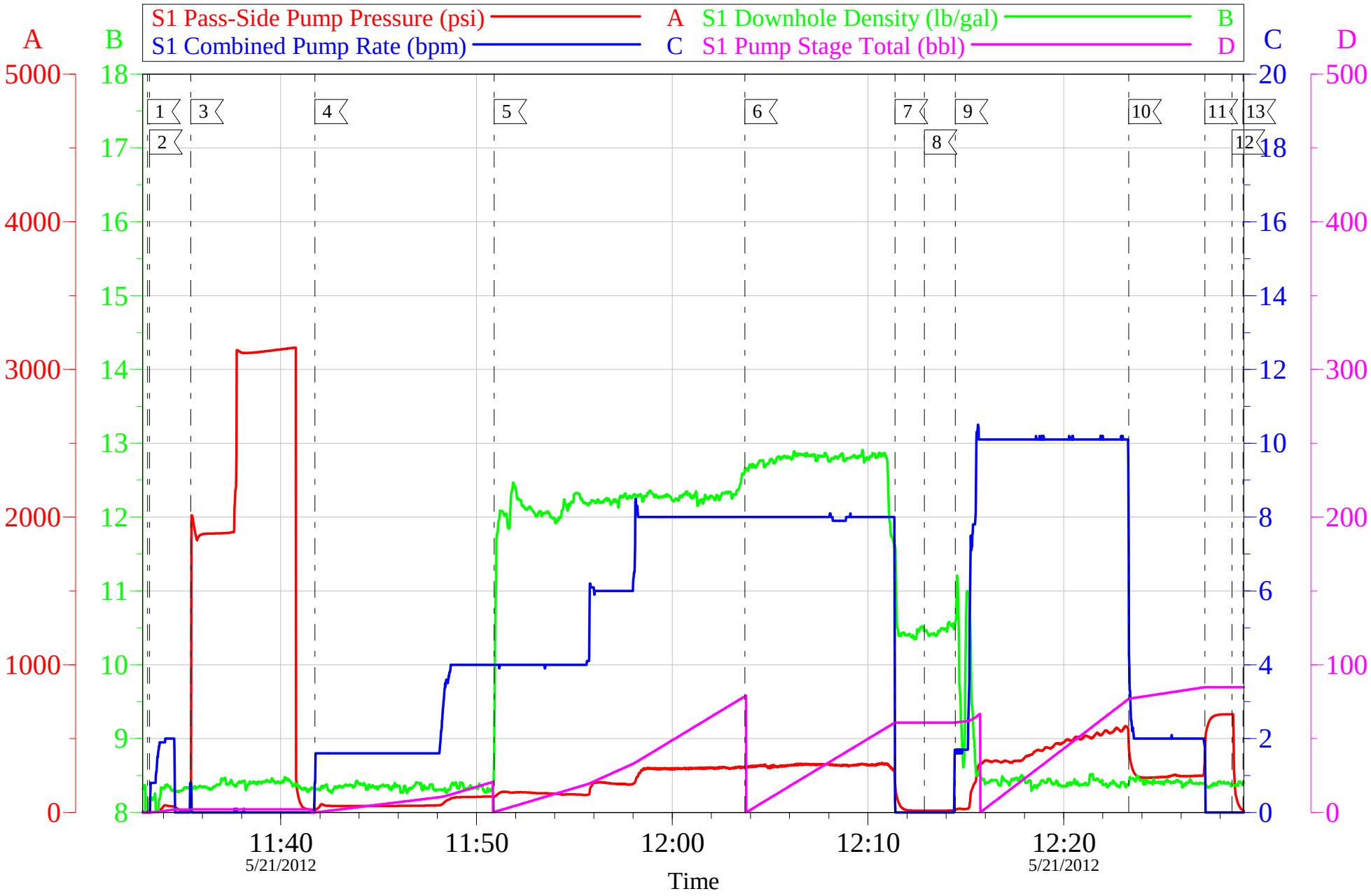
1	START JOB	11:33:11	2	PRIME LINES	11:33:18	3	TEST LINES	11:35:24
4	PUMP H20 SPACER	11:41:45	5	PUMP LEAD CEMENT	11:50:54	6	PUMP TAIL CEMENT	12:03:43
7	SHUTDOWN	12:11:23	8	DROP TOP PLUG	12:12:53	9	PUMP DISPLACEMENT	12:14:28
10	SLOW RATE	12:23:20	11	BUMP PLUG	12:27:13	12	CHECK FLOATS	12:28:36
13	END JOB	12:29:10						

Customer:	WILLIAMS	Job Date:	21-May-2012	Sales Order #:	9518608
Well Description:	SG 413-27	Job Type:	SURFACE	ADC Used:	YES
Customer Rep:	FRANK MOORE	Cement Supervisor:	JESSE SLAUGHTER	Elite #5:	WESLEY GOWEN

OptiCem v6.4.10
21-May-12 12:58

WILLIAMS SG 413-27

9 5/8 SURFACE



Customer:	WILLIAMS	Job Date:	21-May-2012	Sales Order #:	9518608
Well Description:	SG 413-27	Job Type:	SURFACE	ADC Used:	YES
Customer Rep:	FRANK MOORE	Cement Supervisor:	JESSE SLAUGHTER	Elite #5:	WESLEY GOWEN

OptiCem v6.4.10
21-May-12 12:58

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Water Analysis Report

Company:	WILLIAMS PRODUCTION	**Date:**	5/21/2012
Submitted by:	JESSE SLAUGHTER	**Date Rec.:**	
Attention:	LAB	**S.O.#**	9518608
Lease	SG	**Job Type:**	SURFACE
Well #	413-27		

Specific Gravity	*MAX*	1	
pH	*8*	6	
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*	UNDER 200	Mg / L
Chlorine (Cl_2)		0	Mg / L
Temp	*40-80*	55	Deg
Total Dissolved Solids		200	Mg / L

Respectfully: JESSE SLAUGHTER

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

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CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
9518608	10	5/21/2012
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
FRANK MOORE		AFEYCBFPO4JSVMZRAAA
Well Name:		**Well Number:**
SG		413-27
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**	**5/21/2012**
Survey Interviewer	**The survey interviewer is the person who initiated the survey.**	**JESSE SLAUGHTER (HB21762)**
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

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CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
9518608	10	5/21/2012
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
FRANK MOORE		AFEYCBFPO4JSVMZRAAA
Well Name:		**Well Number:**
SG		413-27
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	5/21/2012

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.	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
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 SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
9518608	10	5/21/2012
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
FRANK MOORE		AFEYCBFPO4JSVMZRAAA
Well Name:		**Well Number:**
SG		413-27
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 ?	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	98
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