HALLIBURTON

WILLIAMS PRODUCTION RMT INC - EBUS

PA 541-29
PARACHUTE
Garfield County , Colorado

Cement Surface Casing

14-Nov-2011

Post Job Summary

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 2885807	**Quote #:**	**Sales Order #:** 9000006
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		**Customer Rep:** Towers, Ron	
Well Name: PA	**Well #:** 541-29		**API/UWI #:** 05-045-20426
Field: PARACHUTE	**City (SAP):** PARACHUTE	**County/Parish:** Garfield	**State:** Colorado
Lat: N 39.502 deg. OR N 39 deg. 30 min. 5.713 secs.		**Long:** W 108.012 deg. OR W -109 deg. 59 min. 18.128 secs.	
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: KOHL, KYLE	**Srvc Supervisor:** TRIPLETT, MICHEAL	**MBU ID Emp #:** 447908	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HARDRICK, RAYMOND Frank	14	391324	STILLSON, ERIC W	14	393789	TRIPLETT, MICHEAL Anthony	14	447908
WEAVER, CARLTON Russell	14	457698						

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*
10565341	60 mile	10567589C	60 mile	10784080	60 mile	10804567	60 mile
10804579	60 mile	10951246	60 mile	10995027	60 mile		

Job Hours

Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours
11/13/2011	10	0	11/14/2011	4	2			
TOTAL				*Total is the sum of each column separately*				

Job

Formation Name			
Formation Depth (MD)	**Top**	**Bottom**	
Form Type		**BHST**	
Job depth MD	2740. ft	**Job Depth TVD**	2740. ft
Water Depth		**Wk Ht Above Floor**	4. ft
Perforation Depth (MD)	*From*	**To**	

Job Times

	Date	Time	Time Zone
Called Out	13 - Nov - 2011	10:00	MST
On Location	13 - Nov - 2011	14:30	MST
Job Started	14 - Nov - 2011	01:26	MST
Job Completed	14 - Nov - 2011	02:53	MST
Departed Loc	14 - Nov - 2011	04:00	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
OPen Hole				13.5				.	2750.		
Surface Casing	Unknown		9.625	9.001	32.3		H-40	.	2740.		

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**			
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 lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Spacer		20.00	bbl	8.34	.0	.0	4.0	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	450.0	sacks	12.3	2.38	13.75	8.0	13.75
	13.75 Gal	FRESH WATER							
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	8.0	11.75
	11.75 Gal	FRESH WATER							
4	Displacement Fluid		213.00	bbl	8.34	.0	.0	10.0	

Calculated Values		Pressures		Volumes					
Displacement	213.1	Shut In: Instant		Lost Returns		*Cement Slurry*	250.8	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	60	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	438

Rates							
Circulating	*12*	*Mixing*	8	*Displacement*	10	Avg. Job	10

Cement Left In Pipe	Amount	***42.14 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

Sold To #: 300721	**Ship To #:** 2885807	**Quote #:**	**Sales Order #:** 9000006
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		**Customer Rep:** Towers, Ron	
Well Name: PA	**Well #:** 541-29		**API/UWI #:** 05-045-20426
Field: PARACHUTE	**City (SAP):** PARACHUTE	**County/Parish:** Garfield	**State:** Colorado
Legal Description:			
Lat: N 39.502 deg. OR N 39 deg. 30 min. 5.713 secs.		**Long:** W 108.012 deg. OR W -109 deg. 59 min. 18.128 secs.	
Contractor: NABORS 574	**Rig/Platform Name/Num:** NABORS 574		
Job Purpose: Cement Surface Casing		**Ticket Amount:**	
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: KOHL, KYLE	**Srvc Supervisor:** TRIPLETT, MICHEAL	**MBU ID Emp #:** 447908	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl Stage	Volume bbl Total	Pressure psig Tubing	Pressure psig Casing	Comments
Call Out	11/13/2011 10:00							
Pre-Convoy Safety Meeting	11/13/2011 12:00							
Crew Leave Yard	11/13/2011 12:10							
Arrive At Loc	11/13/2011 14:30							RIG WAS JUST RUNNING WIPER TRIP, STILL HAD TO RUN CASING.
Assessment Of Location Safety Meeting	11/13/2011 14:35							
Other	11/13/2011 23:15							SPOT EQUIPMENT, 1 RCM PUMP AND 2 660'S
Pre-Rig Up Safety Meeting	11/13/2011 23:30							GO OVER JSA AND HAVE CREW SIGN
Rig-Up Equipment	11/13/2011 23:35							
Pre-Job Safety Meeting	11/14/2011 01:15							GO OVER SAFETY INFORMATION AND JOB PROCEDURES.
Start Job	11/14/2011 01:26							TD:2775', TP:2750', SJ:42.14', MW:10.7, CASING: 9.625 32.3#, OH: 13.5"
Test Lines	11/14/2011 01:29						3000	PRESSURE TEST PUMPS AND LINES. STARTED AT 3234 PSI AND ENDED AT 3227 PSI, LOST 7 PSI IN TWO MINUTES.
Pump Spacer 2	11/14/2011 01:35		4	20			110.0	FRESH WATER
Activity Description	**Date/Time**	**Cht**	**Rate bbl/min**	**Volume bbl**		**Pressure psig**		**Comments**

HALLIBURTON

Cementing Job Log

		#		Stage	Total	Tubing	Casing	
Pump Lead Cement	11/14/2011 01:44		8	190.7			510.0	450 SACKS MIXED AT 12.3 PPG, 2.38 YIELD, 13.75 GALS/SACK. HAD TO SHUTDOWN DUE TO NOT GETTING CEMENT.
Pump Tail Cement	11/14/2011 02:10		8	60.1			530.0	160 SACKS MIXED @ 12.8, 2.11 YIELD, 11.75 GAL/SACK
Shutdown	11/14/2011 02:13							
Drop Top Plug	11/14/2011 02:22							VERIFY PLUG LEFT.
Pump Displacement	11/14/2011 02:23		10	213.8			1100.0	FRESHWATER. WASHED UP ON TOP OF PLUG PER COMPANY REP.
Slow Rate	11/14/2011 02:48		2	203.8			650.0	SLOWED RATE LAST 10BBLS OF DISPLACEMENT. BUMPED PLUG 10 BBLS EARLY.
Bump Plug	11/14/2011 02:49						750.0	BUMP PLUG AND WENT 750PSI OVER.
Check Floats	11/14/2011 02:53							FLOATS HELD
End Job	11/14/2011 02:54							HAD GOOD CIRCULATION THROUGHOUT JOB. GOT CEMENT BACK WITH 150 BBLS OF DISPLACEMENT AWAY. GOT 60 BBLS OF CEMENT BACK TO SURFACE. NO DERRICK CHARGE. 3 ADDITIONAL HOURS ADDED TO TICKET. 120 #'S OF SUGAR USED.
Post-Job Safety Meeting (Pre Rig-Down)	11/14/2011 02:55							
Rig-Down Equipment	11/14/2011 03:00							
Pre-Convoy Safety Meeting	11/14/2011 03:55							
Crew Leave Location	11/14/2011 04:00							THANKS FOR USING HALLIBURTON MIKE TRIPLETT AND CREW

HALLIBURTON

Water Analysis Report

Company:	WILLIAMS	**Date:**	11/14/2011
Submitted by:	MIKE TRIPLETT	**Date Rec.:**	11/14/2011
Attention:	LAB	**S.O.#**	9000006
Lease	PA	**Job Type:**	SURFACE
Well #	541-29		

Specific Gravity	*MAX*	1	
pH	*8*	7	
Potassium (K)	*5000*	0	Mg / L
Calcium (Ca)	*500*	250	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*	38	Deg
Total Dissolved Solids		60	Mg / L

Respectfully: MIKE TRIPLETT

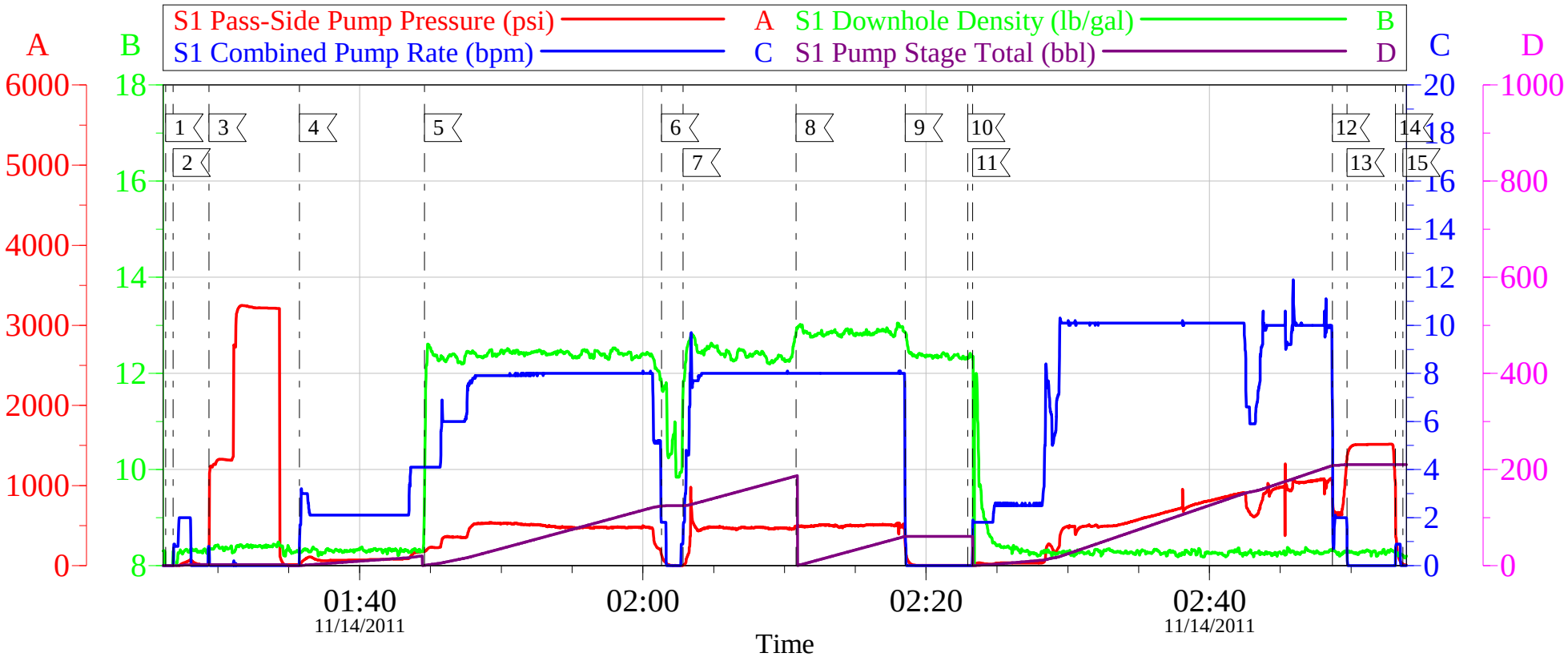
Title: CEMENTING SUPERVISOR

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 c

WILLIAMS - PA 541-29

9 5/8" SURFACE



Local Event Log

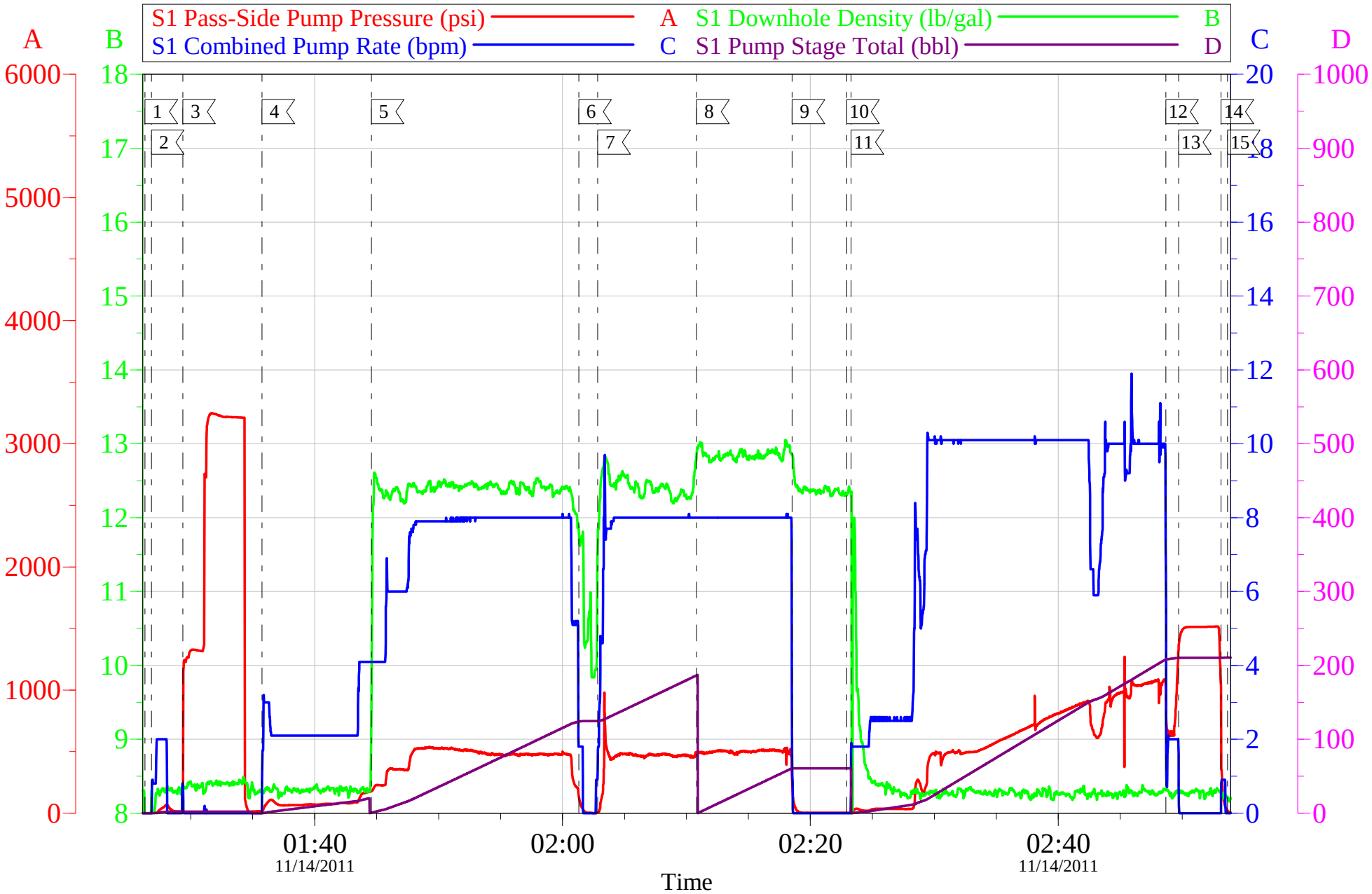
1	START JOB	01:26:18	2	FILL LINES	01:26:50
3	PRESSURE TEST	01:29:22	4	START FRESHWATER SPACER	01:35:45
5	START LEAD CEMENT	01:44:35	6	SHUTDOWN	02:01:19
7	RESUME LEAD CEMENT	02:02:51	8	START TAIL CEMENT	02:10:50
9	SHUTDOWN	02:18:32	10	DROP PLUG	02:22:56
11	START DISPLACEMENT	02:23:17	12	SLOWRATE	02:48:41
13	BUMP PLUG	02:49:43	14	CHECK FLOATS	02:53:08
15	END JOB	02:53:39			

Customer:	WILLIAMS	Job Date:	14-Nov-2011	Sales Order #:	9000006
Well Description:	PA 541-29	Job Type:	SURFACE	ADC Used:	YES
Company Rep:	MIKE OLSEN	Cement Supervisor:	MIKE TRIPLETT	Elite #X:	3/ RUSTY WEAVER

OptiCem v6.4.9
14-Nov-11 02:59

WILLIAMS - PA 541-29

9 5/8" SURFACE



Customer:	WILLIAMS	Job Date:	14-Nov-2011	Sales Order #:	9000006
Well Description:	PA 541-29	Job Type:	SURFACE	ADC Used:	YES
Company Rep:	MIKE OLSEN	Cement Supervisor:	MIKE TRIPLETT	Elite #X:	3/ RUSTY WEAVER

OptiCem v6.4.9
14-Nov-11 02:59

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
9000006	10	11/14/2011
Customer:		**Job Type (BOM):**
WILLIAMS PRODUCTION RMT INC - EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
MIKE OLSEN		05-045-20426
Well Name:		**Well Number:**
PA		541-29
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**	**11/14/2011**
Survey Interviewer	**The survey interviewer is the person who initiated the survey.**	**MICHEAL TRIPLETT (HB15721)**
Customer Participation	**Did the customer partipcipate in this survey? (Y/N)**	**Yes**
Customer Representative	**Enter the Customer representative name**	**MIKE OLSEN**
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!**

CUSTOMER SIGNATURE

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
9000006	10	11/14/2011
Customer:		**Job Type (BOM):**
WILLIAMS PRODUCTION RMT INC - EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
MIKE OLSEN		05-045-20426
Well Name:		**Well Number:**
PA		541-29
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	11/14/2011

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.	4
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.	2
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	7
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

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
9000006	10	11/14/2011
Customer:		**Job Type (BOM):**
WILLIAMS PRODUCTION RMT INC - EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
MIKE OLSEN		05-045-20426
Well Name:		**Well Number:**
PA		541-29
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	95
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