

---

**WILLIAMS PRODUCTION RMT INC - EBUS**

---

**PA 44-20  
PARACHUTE  
Garfield County , Colorado**

**Cement Surface Casing**  
03-Nov-2011

**Post Job Summary**

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2884190	Quote #:	Sales Order #: 8542936
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Customer Rep: Harrison, Jeremy	
Well Name: PA	Well #: 44-20	API/UWI #: 05-045-20247	
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.504 deg. OR N 39 deg. 30 min. 14.18 secs.		Long: W 108.019 deg. OR W -109 deg. 58 min. 51.29 secs.	
Contractor: Nabors 577		Rig/Platform Name/Num: Nabors 577	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BLUST, CHARLES Thomas	13	386662	EICKHOFF, ROBERT Edward	13	495311	LEIST, JAMES R	13	362787
SMITH, CHRISTOPHER Scott	13	452619						

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	10804567	60 mile	10995027	60 mile
11259882	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11.03.2011	13	1						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)	0	994	On Location	03 - Nov - 2011	07:00	MST
Form Type	BHST		On Location	03 - Nov - 2011	10:30	MST
Job depth MD	994. ft	Job Depth TVD	994. ft	Job Started	03 - Nov - 2011	22:21
Water Depth		Wk Ht Above Floor	4. ft	Job Completed	03 - Nov - 2011	23:15
Perforation Depth (MD)	From	To	Departed Loc	03 - Nov - 2011	23:55	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/3 <sup>rd</sup> 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 ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	

1	Water Spacer		20.00	bbl	8.34	.0	.0	6	
2	Tail Cement	VERSACEM (TM) SYSTEM (452010)	305.0	sacks	12.8	2.11	11.75	8	11.75
3	Displacement Fluid		74.00	bbl	8.34	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	73.8	Shut In: Instant		Lost Returns	0	Cement Slurry	114.6	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	27	Actual Displacement	73.8	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	210
Rates									
Circulating	RIG	Mixing	8	Displacement	10	Avg. Job			9
Cement Left In Pipe	Amount	35.8 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					

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300721	<b>Ship To #:</b> 2884190	<b>Quote #:</b>	<b>Sales Order #:</b> 8542936
<b>Customer:</b> WILLIAMS PRODUCTION RMT INC - EBUS		<b>Customer Rep:</b> Harrison, Jeremy	
<b>Well Name:</b> PA		<b>Well #:</b> 44-20	<b>API/UWI #:</b> 05-045-20247
<b>Field:</b> PARACHUTE	<b>City (SAP):</b> PARACHUTE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 39.504 deg. OR N 39 deg. 30 min. 14.18 secs.		<b>Long:</b> W 108.019 deg. OR W -109 deg. 58 min. 51.29 secs.	
<b>Contractor:</b> Nabors 577		<b>Rig/Platform Name/Num:</b> Nabors 577	
<b>Job Purpose:</b> Cement Surface Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> MAYO, MARK		<b>Srvc Supervisor:</b> SMITH, CHRISTOPHER	<b>MBU ID Emp #:</b> 452619

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/03/2011 07:00							
Pre-Convoy Safety Meeting	11/03/2011 09:00							WITH ALL HES PERSONNEL
Arrive At Loc	11/03/2011 10:30							RIG DRILLING
Pre-Rig Up Safety Meeting	11/03/2011 21:30							WITH ALL ON HES PERSONNEL
Rig-Up Completed	11/03/2011 22:00							
Pre-Job Safety Meeting	11/03/2011 22:10							WITH ALL ON LOCATION PERSONNEL
Start Job	11/03/2011 22:21							TD 994', TP 973.6', SJ 35.8', OH 13.5", CSG 9.625" 32.3#, MUD 9.5 PPG. TIGHTEND CEMENT HEAD DURING FILL LINES.
Pressure Test	11/03/2011 22:24		0.5	0.5				LOW PRESSURE TEST, ALL LINES HELD 250 PSI
Pressure Test	11/03/2011 22:25		0.5	0.5				HIGH PRESSURE TEST, ALL LINES HELD 2682 PSI
Pump Spacer	11/03/2011 22:31		4	20			105.0	FRESH WATER
Pump Tail Cement	11/03/2011 22:37		8	114.6			345.0	305 SKS, 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK,
Shutdown	11/03/2011 22:53							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Drop Top Plug	11/03/2011 22:55							COMP. REP. VERIFIED PLUG WENT, WASH UP ON TOP OF PLUG PER COMP. REP. REQUEST.
Pump Displacement	11/03/2011 22:56		10	63.8			500.0	PUMP 100 LB. SODIUM BICARBONATE IN FIRST 20 BBL PER COMP REP.
Slow Rate	11/03/2011 23:06		2	10			262.0	
Bump Plug	11/03/2011 23:10						840.0	PLUG BUMPED
Check Floats	11/03/2011 23:15							FLOATS HELD
End Job	11/03/2011 23:16							
Pre-Rig Down Safety Meeting	11/03/2011 23:20							WITH ALL HES PERSONNEL
Rig-Down Completed	11/03/2011 23:45							
Pre-Convoy Safety Meeting	11/03/2011 23:55							WITH ALL HES PERSONNEL
Comment	11/03/2011 23:56							THANKYOU FOR USING HALLIBURTON CEMENT, CHRIS SMITH, JAMES LEIST AND CREW

# HALLIBURTON

## Water Analysis Report

Company: WILLIAMS  
Submitted by: J. LEIST  
Attention: LAB TECH  
Lease pa  
Well # 44-20

Date: 11/3/2011  
Date Rec.: \_\_\_\_\_  
S.O.# 8542936  
Job Type: surface

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>6.8</b>
Potassium (K)	<i>5000</i>	<b>250 Mg / L</b>
Calcium (Ca)	<i>500</i>	<b>0 Mg / L</b>
Iron (FE2)	<i>300</i>	<b>0 Mg / L</b>
Chlorides (Cl)	<i>3000</i>	<b>0 Mg / L</b>
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>&lt;200 Mg / L</b>
Chlorine (Cl <sub>2</sub> )		<b>0 Mg / L</b>
Temp	<i>40-80</i>	<b>45 Deg</b>
Total Dissolved Solids		<b>440 PPM</b>

Respectfully: JAMES LEIST

Title: CEMENTING SUPERVISOR

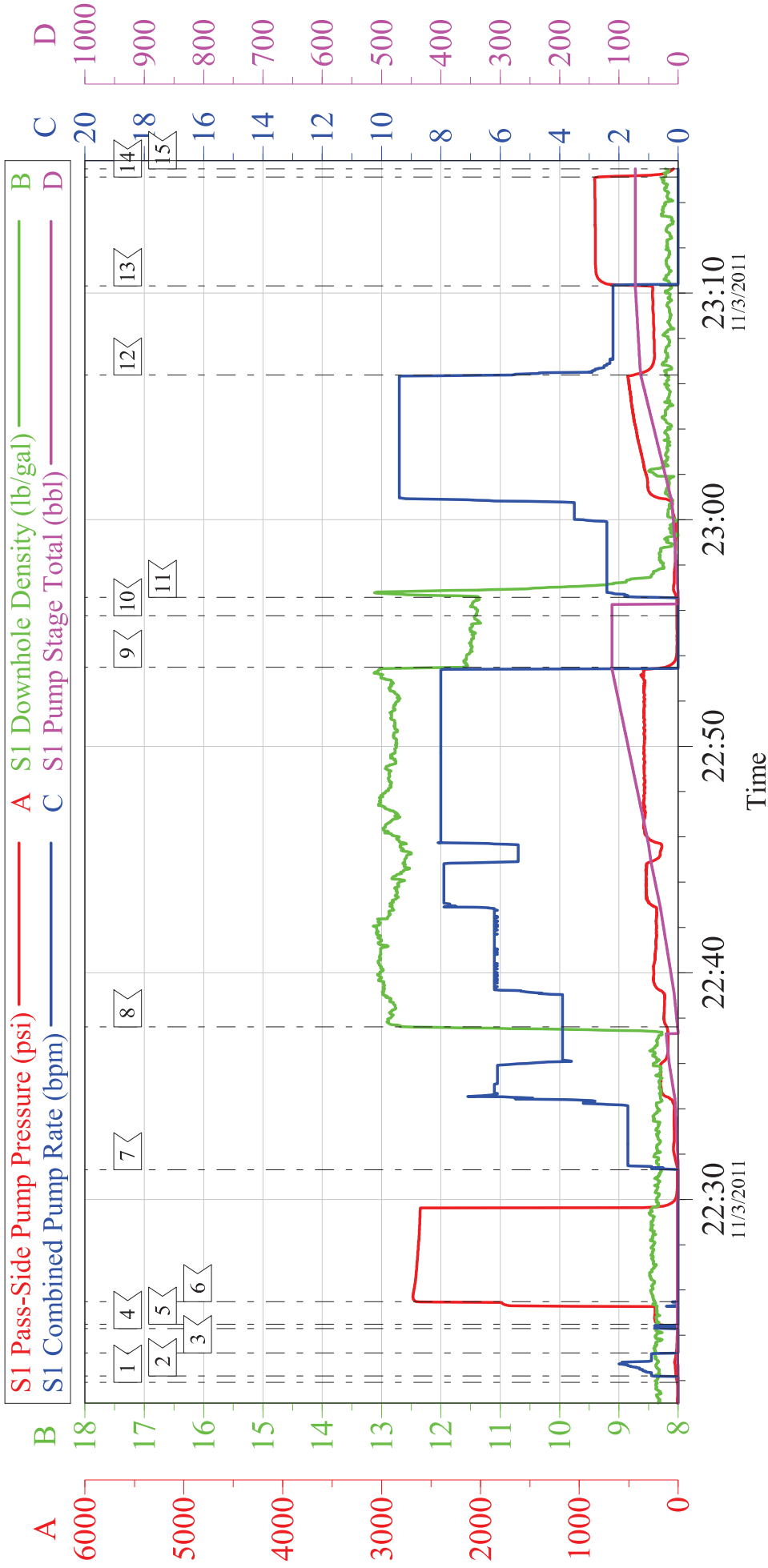
Location: GRAND JUNCTION

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 44-20

## 9.625" SURFACE



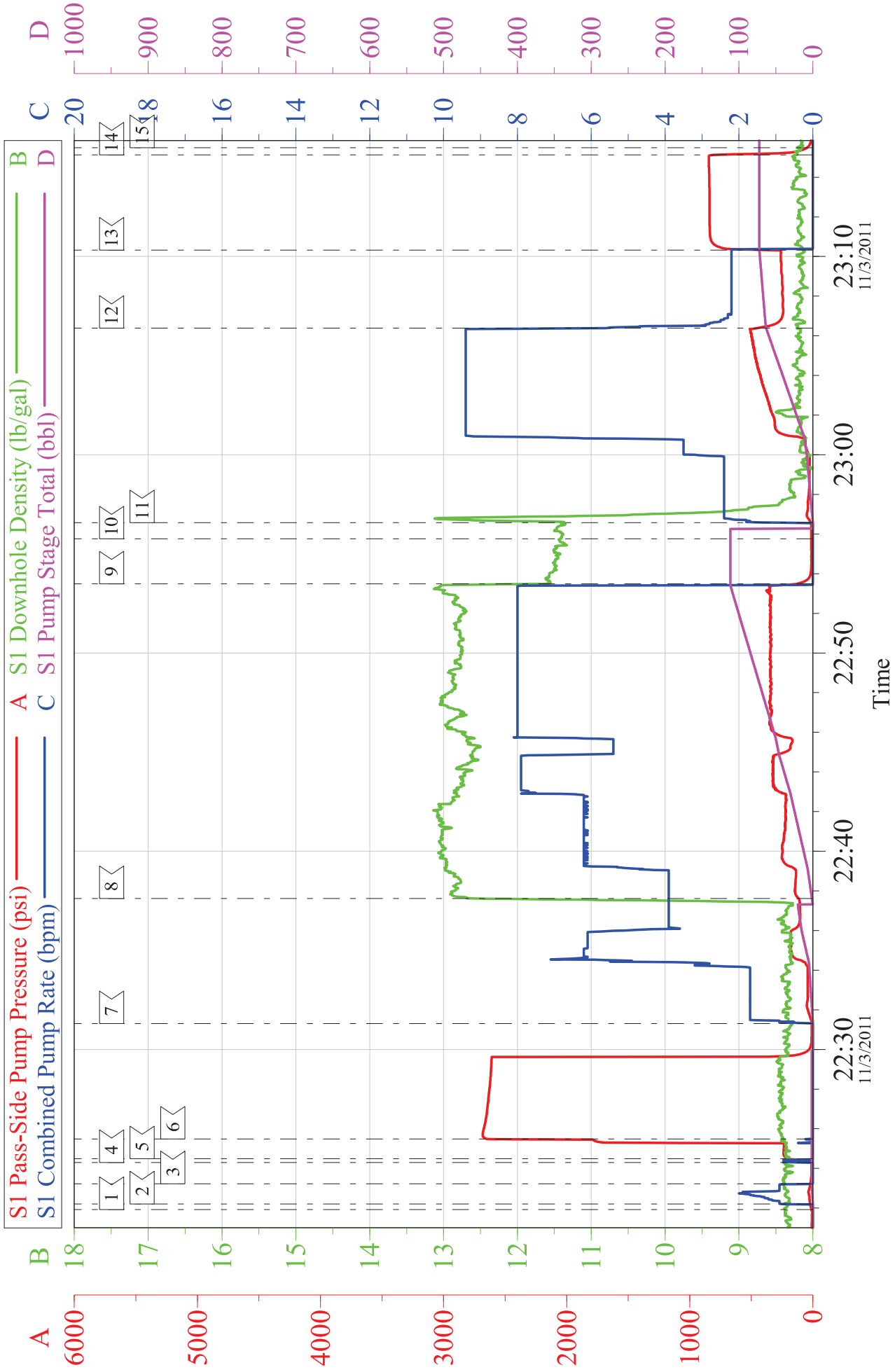
Customer: WILLIAMS PRODUCTION RMT INC - EBUS  
 Well Description: PA 44-20  
 Company Rep: BILL DAVIS

Job Date: 03-Nov-2011  
 Job Type: SURFACE  
 Cement Supervisor: C.SMITH

Sales Order #: 8542936  
 ADC Used: YES  
 Elite #X: E3/R.EICKHOFF

# WILLIAMS/ PA 44-20

## 9.625" SURFACE



Customer:	WILLIAMS PRODUCTION RMT INC - EBUS	Job Date:	03-Nov-2011	Sales Order #:	8542936
Well Description:	PA 44-20	Job Type:	SURFACE	ADC Used:	YES
Company Rep:	BILL DAVIS	Cement Supervisor:	C.SMITH	Elite #X:	E3/R.EICKHOFF

<b>Sales Order #:</b> 8542936	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 11/4/2011
<b>Customer:</b> WILLIAMS PRODUCTION RMT INC - EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> BILLY DAVIS		<b>API / UWI: (leave blank if unknown)</b> 05-045-20247
<b>Well Name:</b> PA		<b>Well Number:</b> 44-20
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> 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	11/4/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHRISTOPHER SMITH (HB20137)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	BILLY DAVIS
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	

<b>CUSTOMER SIGNATURE</b>
---------------------------

<b>Sales Order</b> <input type="checkbox"/>	<b>Line Item:</b>	<b>Survey Conducted Date:</b>
854293 <input type="checkbox"/>	10	11/4/2011
<b>Customer:</b>		<b>Job Type (BOM):</b>
WILLIAMS PRODUCTION RMT INC - EBUS		CMT SURFACE CASING BOM
<b>Customer Representative:</b>		<b>API / UWI: (leave blank if unknown)</b>
BILLY DAVIS		05-045-20247
<b>Well Name:</b>		<b>Well Number:</b>
PA		44-20
<b>Well Type:</b>	<b>Well Country:</b>	
Development Well	United States of America	
<b>H2S Present:</b>	<b>Well State:</b>	<b>Well County:</b>
	Colorado	Garfield

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	11/4/2011
The date the survey was conducted	

Cementing KPI Survey	
<b>Type of Job</b>	0
Select the type of job <input type="checkbox"/> Cementing or Non-Cementing <input type="checkbox"/>	
<b>Select the Maximum Deviation range for this Job</b>	Vertical
What is the biggest deviation for the job you just completed? This may not be the maximum well deviation	
<b>Total Operating Time (hours)</b>	2
Total Operating Hours Including Rig-up <input type="checkbox"/> Pumping <input type="checkbox"/> Rig-down <input type="checkbox"/> Enter in decimal format	
<b>HSE Incident <input type="checkbox"/> Accident <input type="checkbox"/> Injury</b>	No
HSE Incident <input type="checkbox"/> Accident <input type="checkbox"/> Injury <input type="checkbox"/> This should be recordable incidents only	
<b>Was the job purpose achieved?</b>	Yes
Was the job delivered correctly as per customer agreed design	
<b>Operating Hours (Pumping Hours)</b>	1
Total number of hours pumping fluid on this job Enter in decimal format	
<b>Customer Non-Productive Rig Time (hrs)</b>	0
Lost time due to Halliburton in the start <input type="checkbox"/> execution <input type="checkbox"/> or completion of an ordered service or product <input type="checkbox"/> or delays in a follow-on service <input type="checkbox"/> Enter in decimal format: 0 if none	
<b>Type of Rig Classification Job Was Performed</b>	Drilling Rig <input type="checkbox"/> Portable <input type="checkbox"/>
Type Of Rig Classification Job Was Performed On	
<b>Number Of JSAs Performed</b>	7
Number Of Jsas Performed	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is open injection stops for an period of time	
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

<b>Sales Order #:</b> 854293	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 11/4/2011
<b>Customer:</b> WILLIAMS PRODUCTION RMT INC - EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> BILLY DAVIS		<b>API / UWI: (leave blank if unknown)</b> 05-045-20247
<b>Well Name:</b> PA		<b>Well Number:</b> 44-20
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

Primar <input type="checkbox"/> Cement Job <input type="checkbox"/> Casing Job <input type="checkbox"/> Liner Job <input type="checkbox"/> or Tie-back <input type="checkbox"/> Job <input type="checkbox"/>	
<b>Did We Run Wiper Plugs?</b>	Top
Did We Run Top And Bottom Casing Wiper Plugs <input type="checkbox"/>	
<b>Min Density of Job Stayed in Design Density Range (0-100)</b>	97
Density Range defined as +/- 20 ppg Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	
<b>Was Automated Density Control Used?</b>	Yes
Was Automated Density Control (ADC) Used <input type="checkbox"/>	
<b>Pump Rate (percent) of Job Stayed At Design Pump Rate</b>	9
Pump Rate range defined as +/- 1 bbl/min Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped multiplied by 100	
<b>Nbr of Remedial Square Jobs Rqd by Competition</b>	0
Number Of Remedial Square Jobs Required After Primary Job Performed by Competition	
<b>Nbr of Remedial Plug Jobs Rqd by HES</b>	0
Number Of Remedial Plug Jobs Needed After Primary Plug Pumped by HES	
<b>Nbr of Remedial Square Jobs Rqd by HES</b>	0
Number Of Remedial Square Jobs Required After Primary Job Performed by HES	