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**WILLIAMS PRODUCTION RMT INC - EBUS**

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**PA 444-20  
PARACHUTE  
Garfield County , Colorado**

**Cement Surface Casing**  
**10-Oct-2011**

**Post Job Report**

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2880032	Quote #:	Sales Order #: 8490150
Customer: WILLIAMS PRODUCTION RMT INC - EBUS	Customer Rep: David, Buddy		
Well Name: PA	Well #: 444-20	API/UWI #: 05-045-20250	
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.504 deg. OR N 39 deg. 30 min. 14.31 secs.	Long: W 108.019 deg. OR W -109 deg. 58 min. 51.359 secs.		
Contractor: NABORS	Rig/Platform Name/Num: NABORS 577		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: KOHL, KYLE	Srv Supervisor: ANGLESTEIN, TROY	MBU ID Emp #: 436099	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANGLESTEIN, TROY Edward WM	11	436099	JENSEN, JESSE Robert	11	478774	KEANE, JOHN Donovan	11	486519

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10205677	60 mile	10784053	60 mile	11259884	60 mile	11360871	60 mile
11542767	60 mile						

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10/10/2011	11	1						

**TOTAL** Total is the sum of each column separately

### Job

Formation Name											
Formation Depth (MD)		Top			Bottom			Called Out	Date	Time	Time Zone
Form Type				BHST				On Location	10 - Oct - 2011	04:00	MST
Job depth MD		973. ft		Job Depth TVD		973. ft		Job Started	10 - Oct - 2011	13:22	MST
Water Depth				Wk Ht Above Floor		4. ft		Job Completed	10 - Oct - 2011	14:11	MST
Perforation Depth (MD)		From			To			Departed Loc	10 - Oct - 2011	15:30	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
OPEN HOLE SECTION				13.5				.	983.		
SURFACE CASING	Unknown		9.625	9.001	32.3		H-40	.	973.		

### 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	5	
2	Tail Cement	VERSACEM (TM) SYSTEM (452010)	305.0	sacks	12.8	2.11	11.75	8	11.75
11.75 Gal		FRESH WATER							
3	Displacement Fluid		74.00	bbl	8.34	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	73.2	Shut In: Instant		Lost Returns	0	Cement Slurry	114.6	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	23	Actual Displacement	73.2	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	208
Rates									
Circulating	16	Mixing	8	Displacement	10	Avg. Job	8		
Cement Left In Pipe	Amount	43.3 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					

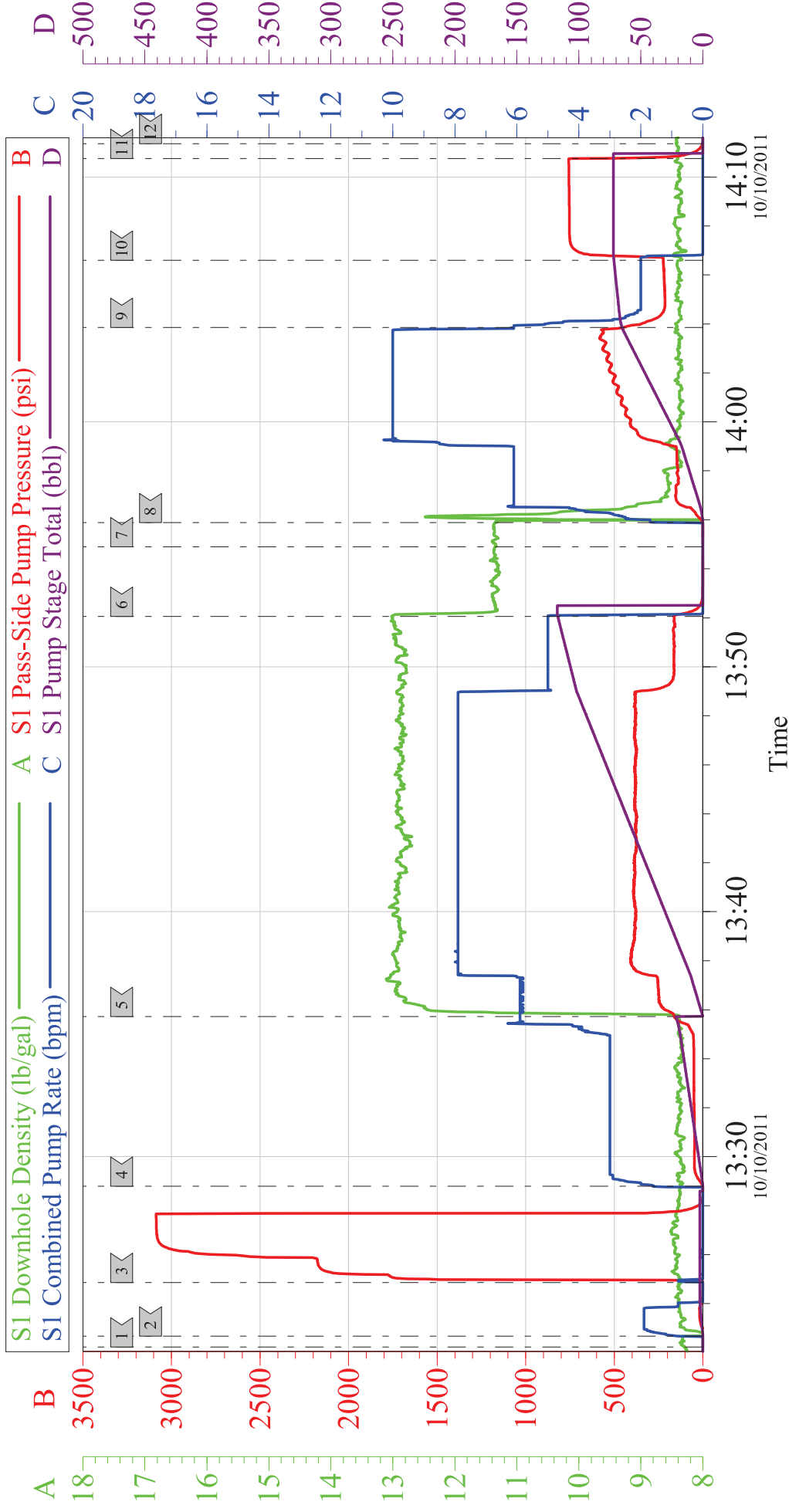
*The Road to Excellence Starts with Safety*

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Well Name: PA	Well #: 444-20	API/UWI #: 05-045-20250	
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.504 deg. OR N 39 deg. 30 min. 14.31 secs.		Long: W 108.019 deg. OR W -109 deg. 58 min. 51.359 secs.	
Contractor: NABORS	Rig/Platform Name/Num: NABORS 577		
Job Purpose: Cement Surface Casing	Ticket Amount:		
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: KOHL, KYLE	Srvc Supervisor: ANGLESTEIN, TROY	MBU ID Emp #: 436099	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/10/2011 00:00							
Pre-Convoy Safety Meeting	10/10/2011 02:30							ALL HES EMPLOYEES
Arrive At Loc	10/10/2011 04:00							RIG STILL RUNNING CASING CIRCULATED FOR 1 HOUR
Assessment Of Location Safety Meeting	10/10/2011 04:15							ALL HES EMPLOYEES
Rig-Up Equipment	10/10/2011 04:30							1 HT 400 PUMP TRUCK, 1 660 BULK TRUCK, 1 9.625 QUICK LATCH PLUG CONTAINER, 1 F 450 P/U
Pre-Job Safety Meeting	10/10/2011 13:00							ALL HES EMPLOYEES, RIG CREW, CO REP.
Start Job	10/10/2011 13:22							9.625 CASING SET AT 973', FC 929.67', TD: 983, OPEN HOLE 13.5", MUD WT 9.5 PPG, 800 BBLS OF H2O ON LOCATION, WATER SAMPLE SUBMITTED.
Pump Water	10/10/2011 13:22		2	2			25.0	FILL LINES
Pressure Test	10/10/2011 13:24		0.5	0.5		3080.0		NO LEAKS
Pump Spacer 1	10/10/2011 13:28		5	20			138.0	FRESH WATER
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

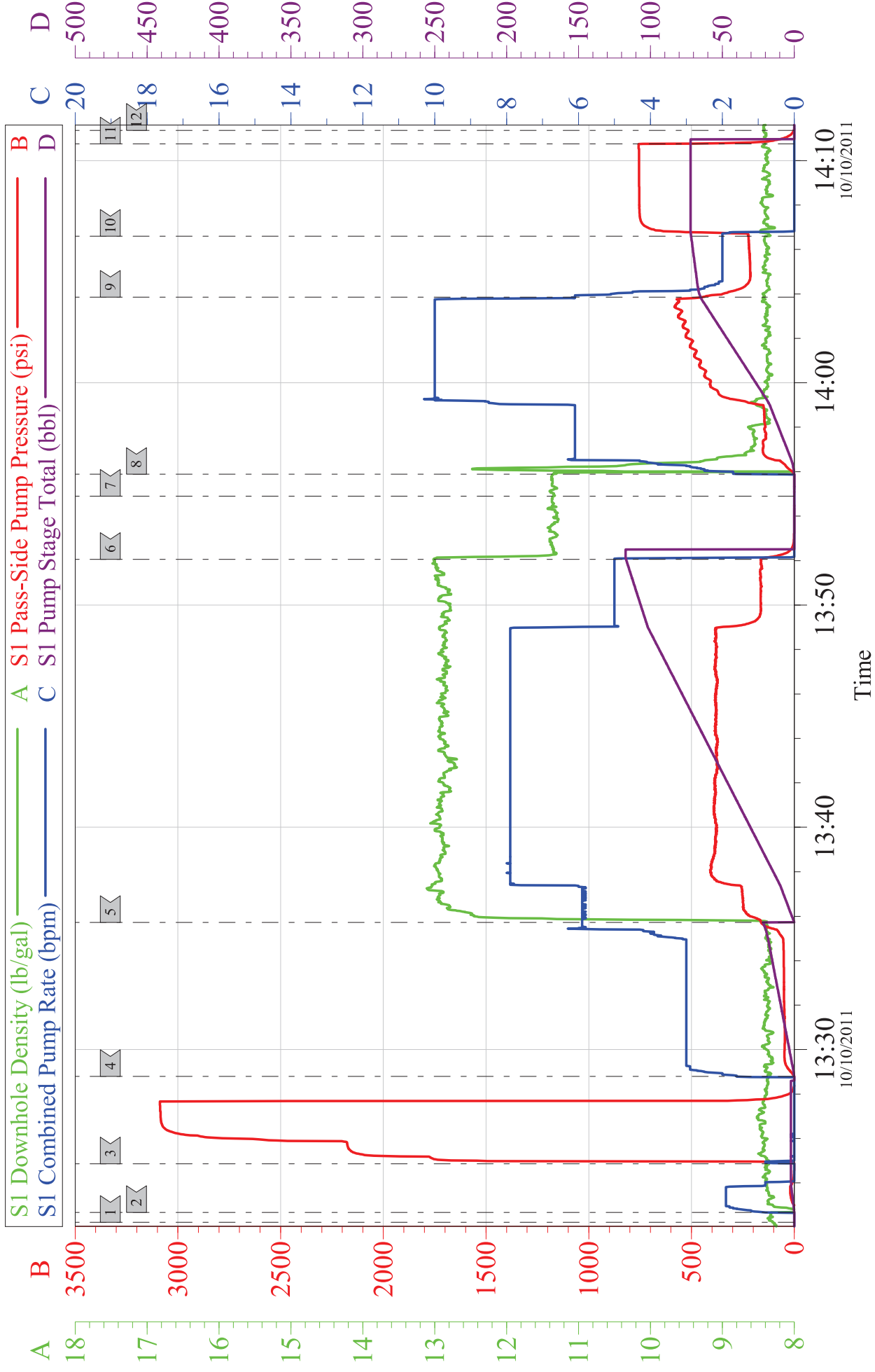
Pump Tail Cement	10/10/2011 13:35		8	114.6			373.0	305 SKS VERSACEM CMT TO BE MIXED AT 12.8 PPG, 2.11 YIELD, 11.75 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES. WET AND DRY SAMPLES SUBMITTED.
Shutdown	10/10/2011 13:52							FOR NO MORE THEN 5 MINUTES,
Drop Plug	10/10/2011 13:54							PLUG LAUNCHED
Pump Displacement	10/10/2011 13:55		10	73.2			570.0	FRESHWATER. 50 LBS OF SODIUM BICARBONATE IN FIRST 20 BBLs PER CO. REP.
Cement Returns to Surface	10/10/2011 13:58		10	50			530.0	23 BBLs OF CEMENT TO SURFACE.
Slow Rate	10/10/2011 14:03		2	63			225.0	10 BBLs PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	10/10/2011 14:06		2	73.2			230.0	PLUG LANDED AT 754 HELD FOR TWO MINUTES
Check Floats	10/10/2011 14:10							FLOATS HOLDING, NO ANNULAR FLOW NOTED
End Job	10/10/2011 14:11							THANK YOU FOR USING HES FROM TROY ANGLESTEIN AND CREW.
Post-Job Safety Meeting (Pre Rig-Down)	10/10/2011 14:15							ALL HES EMPLOYEES
Rig-Down Equipment	10/10/2011 14:30							SAFELY
Pre-Convoy Safety Meeting	10/10/2011 15:00							ALL HES EMPLOYEES
Crew Leave Location	10/10/2011 15:30							SITE WAS AS CLEAN AS WHEN WE ARRIVED

WILLIAMS  
PA 444-20 SURFACE



Customer: WILLIAMS	Job Date: 10-Oct-2011	Sales Order #: 8490150
Well Description: PA 444-20	Job Type: SURFACE	ADC Used: YES
Company Rep: VINCON DAVID	Cement Supervisor: TROY ANGLESTEIN	Elite #: 1
		JESSE JENSEN

WILLIAMS  
PA 444-20 SURFACE



Customer: WILLIAMS	Job Date: 10-Oct-2011	Sales Order #: 8490150
Well Description: PA 444-20	Job Type: SURFACE	ADC Used: YES
Company Rep: VINCON DAVID	Cement Supervisor: TROY ANGLESTEIN	Elite #: 1 JESSE JENSEN

<b>Sales Order #:</b> 8490150	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 10/10/2011
<b>Customer:</b> WILLIAMS PRODUCTION RMT INC - EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> BUDDY DAVID		<b>API / UWI: (leave blank if unknown)</b> 05-045-20250
<b>Well Name:</b> PA		<b>Well Number:</b> 444-20
<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	10/10/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	TROY ANGLESTEIN (HX45574)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	BUDDY DAVID
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	
Job DVA	Did we provide job DVA above our normal service today? Circle Y or N	No
Time	Please enter hours in decimal format to nearest quarter hour.	
Other	Enter short text for other efficiencies gained.	
Customer Initials	Customer's Initials	
Please provide details	Please describe how the job efficiencies were gained.	

CUSTOMER SIGNATURE



<b>Sales Order</b> <input type="checkbox"/>	<b>Line Item:</b>	<b>Survey Conducted Date:</b>
8490150	10	10/10/2011
<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>
BUDDY DAVID		05-045-20250
<b>Well Name:</b>		<b>Well Number:</b>
PA		444-20
<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>	10/10/2011
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>	Deviated
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>	3
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 <input type="checkbox"/> classification <input type="checkbox"/> Job Was Performed On	
<b>Number Of JSAs Performed</b>	5
Number Of Jsas Performed	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is <input type="checkbox"/> open injection stops for an <input type="checkbox"/> period of time <input type="checkbox"/>	
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

<b>Sales Order #:</b> 8490150	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 10/10/2011
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<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> Did We Run Top And Bottom Casing Wiper Plugs <input type="checkbox"/>	Top
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- 20 ppg Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	98
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used <input type="checkbox"/>	Yes
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> 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	98
<b>Nbr of Remedial Square Jobs Rqd by Competition</b> Number Of Remedial Square Jobs Required After Primary Job Performed By Competition	0
<b>Nbr of Remedial Plug Jobs Rqd by HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Square Jobs Rqd by HES</b> Number Of Remedial Square Jobs Required After Primary Job Performed By HES	0