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**WILLIAMS PRODUCTION RMT INC - EBUS**

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**GM 22-26  
GRAND VALLEY  
Garfield County , Colorado**

**Cement Surface Casing**  
**31-Jul-2011**

**Post Job Summary**

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2867043	Quote #:	Sales Order #: 8335132
Customer: WILLIAMS PRODUCTION RMT INC - EBUS	Customer Rep: Wilson, W.C.		
Well Name: GM	Well #: 22-26	API/UWI #: 05-045-20230	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.5 deg. OR N 39 deg. 29 min. 58.873 secs.	Long: W 108.088 deg. OR W -109 deg. 54 min. 44.226 secs.		
Contractor: H&P 280	Rig/Platform Name/Num: H&P 280		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: SCOTT, KYLE	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 #
HAYES, JESSE Doug		403601	HONE, AARON D		381285	NICKLE, RYON		454759
SALAZAR, PAUL Omar		445614	SILVERTHORN, AARON Jacob		491305	SMITH, CHRISTOPHER Scott		452619

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10011429	60 mile	10616651C	60 mile	10784064	60 mile	10995025	60 mile
11006314	60 mile	11259882	60 mile	11583916	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	Job Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To
				BHST	1440. ft	1440. ft				
							Wk Ht Above Floor			
							3. ft			

## Job Times

Called Out	Date	Time	Time Zone
On Location	31 - Jul - 2011	10:20	MST
Job Started	31 - Jul - 2011	14:30	MST
Job Completed	31 - Jul - 2011	18:44	MST
Departed Loc	31 - Jul - 2011	19:47	MST
		21:00	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					14281.		
Surface Casing	Unknown		9.625	9.001	32.3		H-40		1440.		

## 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			
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

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	Spacer		20.00	bbl	8.33	.0	.0	.0	
2	VersaCem Lead	VERSACEM (TM) SYSTEM (452010)	190.0	sacks	12.3	2.33	13.75		13.75
	13.75 Gal	FRESH WATER							
3	VersaCem Tail	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75		11.75
	11.75 Gal	FRESH WATER							
4	Displacement Fluid		109.00	bbl	8.34	.0	.0	.0	
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
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	
<b>Rates</b>									
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 @
The Information Stated Herein Is Correct				Customer Representative Signature					

*The Road to Excellence Starts with Safety*

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<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b> PARACHUTE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 39.5 deg. OR N 39 deg. 29 min. 58.873 secs.		<b>Long:</b> W 108.088 deg. OR W -109 deg. 54 min. 44.226 secs.	
<b>Contractor:</b> H&P 280		<b>Rig/Platform Name/Num:</b> H&P 280	
<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> SCOTT, KYLE		<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	
Pre-Convoy Safety Meeting	07/31/2011 12:00							ALL HES PERSONEL
Crew Leave Yard	07/31/2011 12:30							
Arrive At Loc	07/31/2011 14:30							RIG RUNNING CASEING.
Assessment Of Location Safety Meeting	07/31/2011 14:45							ALL HES PERSONEL
Rig-Up Equipment	07/31/2011 17:00							
Pre-Job Safety Meeting	07/31/2011 18:35							ALL HES PERSONEL AND RIG CREW
Start Job	07/31/2011 18:44							TD 1440', TP 1428.1', SJ 41.75', OH 13.5", CSG 9.625" 36# J-55 , MUD 9.3PPG, YP- 24, PV- 31.
Other	07/31/2011 18:44		2	2			55.0	FILL LINES
Pressure Test	07/31/2011 18:46		0.5	0.5			1067.0	LOW PSI TEST, ALL LINES HELD PSI
Pressure Test	07/31/2011 18:49		0.5	0.5			2710.0	HIGH PSI TEST, ALL LINES HELD PSI
Pump Spacer 1	07/31/2011 18:52		4	20			108.0	FRESH WATER
Pump Lead Cement	07/31/2011 19:00		8	78.8			474.0	LEAD-190SKS, 12.3 PPG, 2.38 FT3/SK, 13.75 GAL/SK
Pump Tail Cement	07/31/2011 19:14		8	60.1			494.0	TAIL-160 SKS, 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK
Shutdown	07/31/2011 19:21							WASH UP ON TOP OF PLUG PER CUSTOMER REQUEST.

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Drop Top Plug	07/31/2011 19:24							DRILLER VERIFIED THAT PLUG WENT.
Pump Displacement	07/31/2011 19:25		10	109.1			710.0	FRESH WATER
Slow Rate	07/31/2011 19:38		2	10			300.0	
Bump Plug	07/31/2011 19:42						800.0	PLUG BUMPED, FLECS SCREEN FROZE UP WITH 5 BBLS LEFT OF DISPLACEMENT, BUMPED PLUG WITH MARTIN DECKER.
Check Floats	07/31/2011 19:45							FLOATS HELD
End Job	07/31/2011 19:47							GOOD CIRCULATION THROUGHOUT 21 BBLS OF CEMENT TO SURFACE, PIPE WAS NOT MOVED DURING JOB.
Post-Job Safety Meeting (Pre Rig-Down)	07/31/2011 19:58							ALL HES PERSONEL
Rig-Down Completed	07/31/2011 20:30							
Depart Location Safety Meeting	07/31/2011 20:50							ALL HES PERSONEL
Crew Leave Location	07/31/2011 21:00							
Other	07/31/2011 21:00							THANK YOU FOR CHOOSING HALLIBURTON, CHRIS SMITH AND CREW

<b>Sales Order #:</b> 8335132	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 7/31/2011
<b>Customer:</b> WILLIAMS PRODUCTION RMT INC - EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> W.C. WILSON		<b>API / UWI: (leave blank if unknown)</b> 05-045-20230
<b>Well Name:</b> GM		<b>Well Number:</b> 22-26
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b> No	<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	7/31/2011
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	W.C. WILSON
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	I NEED THE CHART
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

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**KEY PERFORMANCE INDICATORS**

General	
<b>Survey Conducted Date</b> The date the survey was conducted	7/31/2011

Cementing KPI Survey	
<b>Type of Job</b> Select the type of job. (Cementing or Non-Cementing)	0
<b>Select the Maximum Deviation range for this Job</b> What is the biggest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
<b>Total Operating Time (hours)</b> Total Operating Hours Including Rig-up/Pumping/Rig-down. Enter in decimal format.	2
<b>HSE Incident/Accident/Injury</b> HSE Incident/Accident/Injury. This should be recordable incidents only.	No
<b>Was the job purpose achieved?</b> Was the job delivered correctly as per customer agreed design?	Yes
<b>Operating Hours (Pumping Hours)</b> Total number of hours pumping fluid on this job. Enter in decimal format.	2
<b>Customer Non-Productive Rig Time (hrs)</b> 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
<b>Type of Rig Classification Job Was Performed</b> Type Of Rig Classification Job Was Performed On	Drilling Rig Portable
<b>Number Of JSAs Performed</b> Number Of Jsas Performed	7
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for an period of time.	0
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

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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.	
<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	6
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used <input type="checkbox"/>	es
<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	4
<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