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**WILLIAMS PRODUCTION RMT INC - EBUS**

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

**Plug Back  
21-Dec-2011**

**Post Job Report**

## The Road to Excellence Starts with Safety

<b>Sold To #:</b> 300721		<b>Ship To #:</b> 2867043		<b>Quote #:</b>		<b>Sales Order #:</b> 9148604	
<b>Customer:</b> WILLIAMS PRODUCTION RMT INC - EBUS				<b>Customer Rep:</b> Dickerson, Kestrel			
<b>Well Name:</b> GM			<b>Well #:</b> 22-26			<b>API/UWI #:</b> 05-045-20230	
<b>Field:</b> GRAND VALLEY		<b>City (SAP):</b> PARACHUTE		<b>County/Parish:</b> Garfield		<b>State:</b> Colorado	
<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> Workover			<b>Rig/Platform Name/Num:</b> Workover				
<b>Job Purpose:</b> Plug Back							
<b>Well Type:</b> Development Well			<b>Job Type:</b> Plug Back				
<b>Sales Person:</b> MAYO, MARK			<b>Srvc Supervisor:</b> PHILLIPS, MARK			<b>MBU ID Emp #:</b> 445272	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DEUSSEN, EDWARD Eric	7	485182	GOWEN, WESLEY M	7	496205	NYE, KEVEN R	7	460558
PHILLIPS, MARK Bejar	7	445272	VANALSTYNE, TROY L	7	420256			

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10011429	60 mile	10951249	60 mile	11560046	60 mile	11562538	60 mile

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12-21-11	7	1						

<b>TOTAL</b>	Total is the sum of each column separately							
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### Job

### Job Times

Formation Name					Date				Time	Time Zone	
Formation Depth (MD)	Top			Bottom			Called Out	21 - Dec - 2011	03:00	MST	
Form Type				BHST				On Location	21 - Dec - 2011	07:00	MST
Job depth MD	8245. ft			Job Depth TVD		8245. ft		Job Started	21 - Dec - 2011	10:53	MST
Water Depth				Wk Ht Above Floor		10. ft		Job Completed	21 - Dec - 2011	11:46	GMT
Perforation Depth (MD)	From			To			Departed Loc	21 - Dec - 2011	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
8 3/4" Open Hole				8.75				1440.	8245.		
4 1/2" Production Casing	Used		4.5	4.	11.6		N-80	.	7649.		
9 5/8" Surface Casing	Used		9.625	9.001	32.3		H-40	.	1440.		
2 3/8" Tubing	Unknown		2.375	1.995	4.7			.	8235.		

### 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	Water Spacer		10.00	bbl	8.4	.0	.0	1.0		
2	Plug Cement	PLUGCEM (TM) SYSTEM (452969)	110.0	sacks	17.	.99	3.75	2.0	3.75	
3.75 Gal		FRESH WATER								
3	Displacement		30.7	bbl	8.4	.0	.0	2.0		
Calculated Values		Pressures		Volumes						
Displacement	30.7	Shut In: Instant		Lost Returns	0	Cement Slurry	19.5	Pad		
Top Of Cement	7984.0	5 Min		Cement Returns	3.5	Actual Displacement	30.7	Treatment		
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	54	
Rates										
Circulating	2	Mixing		2	Displacement	2	Avg. Job	2		
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						

*The Road to Excellence Starts with Safety*

Sold To #: 300721	Ship To #: 2867043	Quote #:	Sales Order #: 9148604
Customer: WILLIAMS PRODUCTION RMT INC - EBUS	Customer Rep: Dickerson, Kestrel		
Well Name: GM	Well #: 22-26	API/UWI #: 05-045-20230	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
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: Workover	Rig/Platform Name/Num: Workover		
Job Purpose: Plug Back	Ticket Amount:		
Well Type: Development Well	Job Type: Plug Back		
Sales Person: MAYO, MARK	Srv Supervisor: PHILLIPS, MARK	MBU ID Emp #: 445272	

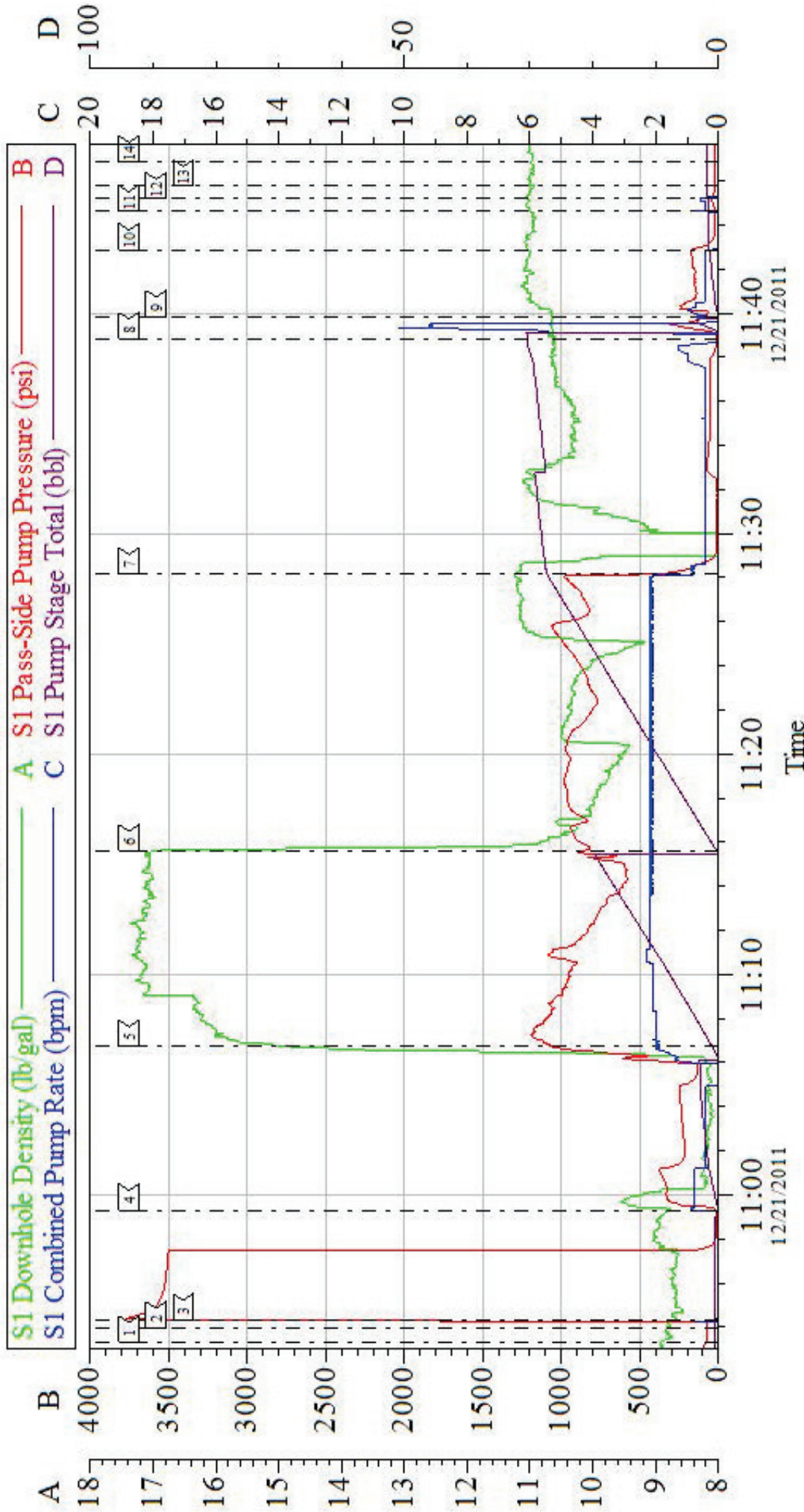
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/21/2011 03:00							
Pre-Convoy Safety Meeting	12/21/2011 04:00							ALL HES EMPLOYEES
Arrive At Loc	12/21/2011 07:00							
Assessment Of Location Safety Meeting	12/21/2011 07:20							2.375" 4.7# TBG 8235 FT, OPEN HOLE 8.75", TD 8245', 4.5" CSG 11.6# SET AT 7649' 2.375 TOP CONNECTION. CALCULATED PLUG 260.8' TBG OUT.
Rig-Up Equipment	12/21/2011 07:30							1 HT-400 PUMP TRUCK, 1 BODY LOAD BULK TRUCK.
Pre-Job Safety Meeting	12/21/2011 10:20							ALL HES EMPLOYEES, 3RD PARTY REPS, RIG CREW AND COMPANY REP.
Start Job	12/21/2011 10:53							
Pump Water	12/21/2011 10:53		1	1			20.0	FILL LINES
Pressure Test	12/21/2011 10:54		0.5			3500.0		ON HES LINES ONLY
Pump Spacer 1	12/21/2011 10:59		0.5	3			380.0	SPACER AHEAD FRESH WATER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	12/21/2011 11:06		2	19.6			950.0	110 SKS PLUG CEM CMT MIXED AT 17.0 PPG, 0.99 YIELD, 3.75 GAL/SK CMT TO BE WEIGHED VIA PSI BALANCED MUD SCALES. WET AND DRY SAMPLES SUBMITTED. WHILE PUMPING CMT RETURN LINE VALVE CHOKED BACK TO PREVENT CMT GOING AWAY.RETURNS T/O JOB.
Pump Displacement	12/21/2011 11:15		2	30.7			1100.0	SPACER BEHIND IS SO MINIMAL AT 0.17 BBL THAT HES & CO REP DECIDED TO GO STRAIGHT TO DISPLACEMENT POST CMT. ONCE AGAIN RETURN LINE VALVE SHUT 3/4 TO AIDE IN PREVENTING CMT FALLING AWAY OR COMING AROUND.
Shutdown	12/21/2011 11:38							HES OPENED RELEASE NO FLOW BACK TO TANK
Other	12/21/2011 11:40							RIG TO PULL 7 STANDS OF TUBING, TBG PULLED DRY. RIG REVERSED OUT WITH 3.5 BBLS OF CMT RETURNED TO TANK. RIG P.O.O.H TO A HEIGHT OF 8025'.
End Job	12/21/2011 11:46							THANK YOU FOR USING HES FROM MARK PHILLIPS AND CREW.
Post-Job Safety Meeting (Pre Rig-Down)	12/21/2011 12:00							ALL HES EMPLOYEES, WASH UP PUMP TO PIT.
Crew Leave Location	12/21/2011 12:50							LOCATION CLEAN, NO SPILLS ON LOCATION.

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Rig-Down Equipment	12/21/2011 14:00							
Pre-Convoy Safety Meeting	12/21/2011 14:30							ALL HES EMPLOYEES

# WILLIAMS

## GM 22-26 PLUG BACK



### Local Event Log

1	START JOB	10:53:19	2	FILL LINES	10:53:58	3	PRESSURE TEST	10:54:20
4	SPACER AHEAD	10:59:18	5	PUMP CEMENT	11:06:44	6	DISPLACEMENT	11:15:36
7	SLOW RATE	11:28:10	8	SHUTDOWN/REPRIME PUMPS	11:38:50	9	CONTINUE DISPLACEMENT	11:39:50
10	SHUTDOWN	11:42:52	11	CONTINUE DISPLACEMENT	11:44:37	12	SHUT DOWN	11:45:11
13	OPEN RELEASE	11:45:46	14	END JOB	11:46:51			

Customer: WILLIAMS  
Well Description: GM 22-16  
Company R q: KES TREL DICKERSON

Job Date: 21-Dec-2011  
Job Type: PLUG BACK  
Cement Supervisor: MARK PHILLIPS

Sales Order #: 9148604  
ADC Used: YES  
Elite #: 5 ED DEUSSEN

<b>Sales Order #:</b> 9148604	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 12/21/2011
<b>Customer:</b> WILLIAMS PRODUCTION RMT INC - EBUS		<b>Job Type (BOM):</b> CMT PLUG BACK BOM
<b>Customer Representative:</b>		<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	12/21/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	MARK PHILLIPS (HB13261)
Customer Participation	Did the customer participate in this survey? (Y/N)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

<b>CUSTOMER SIGNATURE</b>
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**KEY PERFORMANCE INDICATORS****General**

<b>Survey Conducted Date</b>	12/21/2011
The date the survey was conducted	

**Cementing KPI Survey**

<b>Type of Job</b>	0
Select the type of job. (Cementing or Non-Cementing)	
<b>Select the Maximum Deviation range for this Job</b>	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
<b>Total Operating Time (hours)</b>	4
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
<b>HSE Incident, Accident, Injury</b>	No
HSE Incident, Accident, Injury. 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>	1.5
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, execution, or completion of an ordered service or product, or delays in a follow-on service. Enter in decimal format. 0 if none.	
<b>Type of Rig Classification Job Was Performed</b>	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
<b>Number Of JSAs Performed</b>	6
Number Of Jsas Performed	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Was this a Primary Cement Job (Yes / No)</b>	No

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Primary Cement Job <input type="checkbox"/> Casing job, Liner job, or Tie-back <input type="checkbox"/> job.	
<b>Was this a Plug or a Squeeze Job?</b> Please select the appropriate choice	Yes
<b>Was this a Primary or a Remedial Job?</b> Kickoff plug, Plug to Abandon, LCM plug or Planned Liner Top Squeeze, Squeeze of existing perforations, Squeeze of casing leak	No
<b>Mixing Density of Job Stayed in Designed Density Range ( <input type="checkbox"/>-<input type="checkbox"/> )</b> Density Range defined as $\pm .20$ 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 ?	Yes
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> Pump Rate range defined as $\pm 1$ 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 Squeeze Jobs Required - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<b>Nbr of Remedial Plug Jobs Required - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Squeeze Jobs Required - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0