
WILLIAMS PRODUCTION RMT INC - EBUS

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

**Plug Back
21-Dec-2011**

Post Job Report

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
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			
Well Type: Development Well		Job Type: Plug Back	
Sales Person: MAYO, MARK		Srvc Supervisor: PHILLIPS, MARK	MBU ID Emp #: 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						
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						

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)			On Location	21 - Dec - 2011	07:00	MST
Form Type		BHST	Job Started	21 - Dec - 2011	10:53	MST
Job depth MD	8245. ft	Job Depth TVD	8245. ft	Job Completed	21 - Dec - 2011	11:46
Water Depth		Wk Ht Above Floor	10. ft	Departed Loc	21 - Dec - 2011	14:30
Perforation Depth (MD)	<i>From</i>	<i>To</i>				

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 ³ /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					

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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		Srvc Supervisor: PHILLIPS, MARK	MBU ID Emp #: 445272

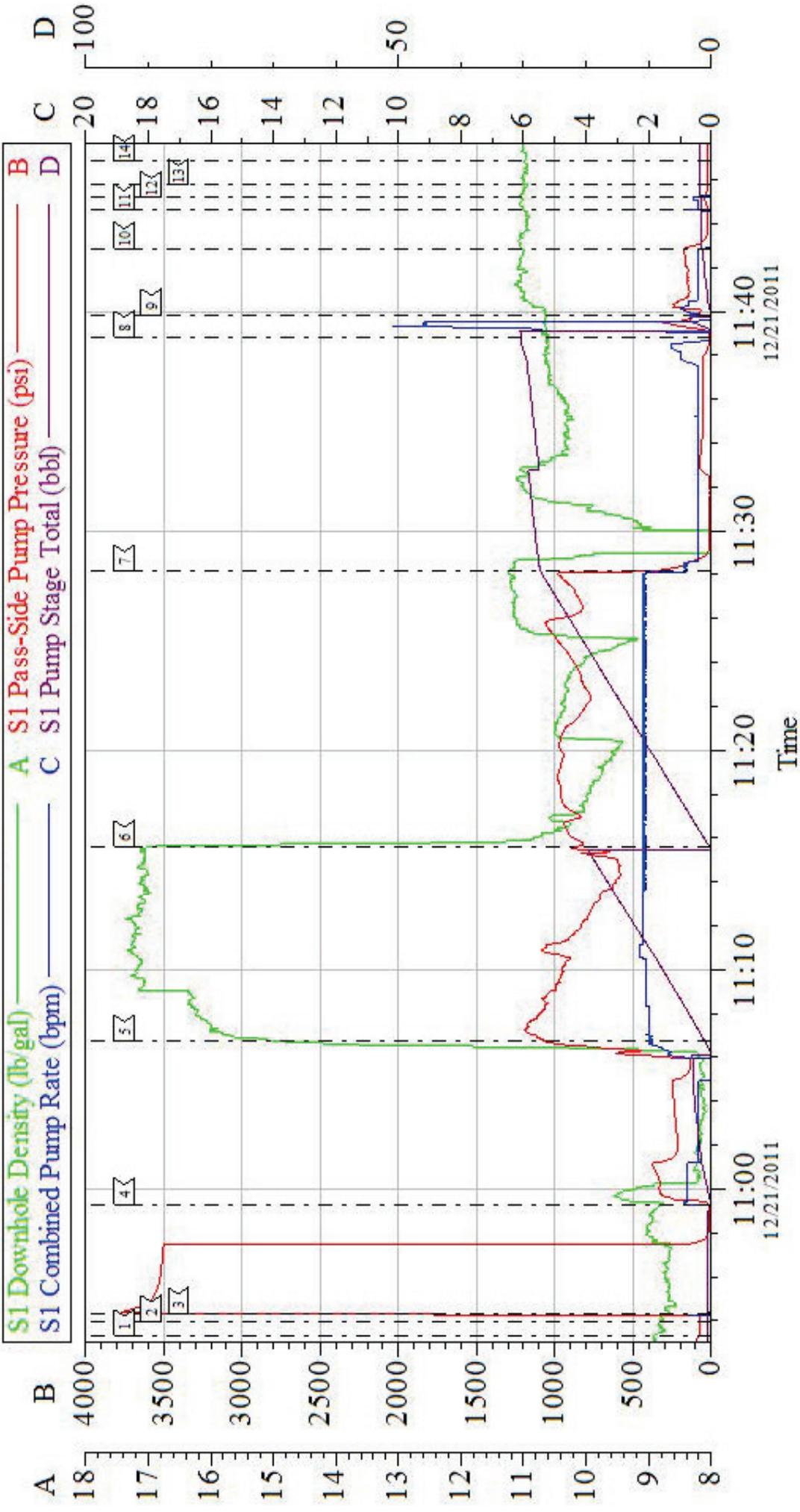
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/21/2011 03:00							
Pre-Convoy Safety Meeting	12/21/2011 04:00							ALL HES EMPLOYEES
Arrive At Loc	12/21/2011 07:00							
Assessment Of Location Safety Meeting	12/21/2011 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



Customer: WILLIAMS	Job Date: 21-Dec-2011	Sales Order #: 9148604
Well Description: GM 22-16	Job Type: PLUG BACK	ADC Used: YES
Company Rsp: KES TREL DICKERSON	Cement Supervisor: MARK PHILLIPS	Elite #: 5 ED DEUSSEN

Sales Order #: 9148604	Line Item: 10	Survey Conducted Date: 12/21/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT PLUG BACK BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20230
Well Name: GM		Well Number: 22-26
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: 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	

CUSTOMER SIGNATURE

Sales Order #: 9148604	Line Item: 10	Survey Conducted Date: 12/21/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT PLUG BACK BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20230
Well Name: GM		Well Number: 22-26
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	12/21/2011
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	4
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Operating Hours (Pumping Hours)	1.5
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	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.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	6
Number Of Jsas Performed	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	No

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Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20230
Well Name: GM		Well Number: 22-26
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: Garfield

Primary Cement Job <input type="checkbox"/> Casing job, Liner job, or Tie-back <input type="checkbox"/> job.	
Was this a Plug or a Squeeze Job? Please select the appropriate choice	Yes
Was this a Primary or a Remedial Job? Kickoff plug, Plug to Abandon, LCM plug or Planned Liner Top Squeeze, Squeeze of existing perforations, Squeeze of casing lead	No
Mixing Density of Job Stayed in Designed Density Range (%) Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	98
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	98
Nbr of Remedial Squeeze Jobs Required - Competition Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
Nbr of Remedial Plug Jobs Required - HES Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
Nbr of Remedial Squeeze Jobs Required - HES Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0