

---

**WILLIAMS PRODUCTION RMT INC - EBUS**

---

**PA 324-20  
Parachute  
Garfield County , Colorado**

**Cement Surface Casing**  
**26-Nov-2011**

**Post Job Summary**

### The Road to Excellence Starts with Safety

<b>Sold To #:</b> 300721		<b>Ship To #:</b> 2891324		<b>Quote #:</b>		<b>Sales Order #:</b> 9068265	
<b>Customer:</b> WILLIAMS PRODUCTION RMT INC - EBUS				<b>Customer Rep:</b> David, Buddy			
<b>Well Name:</b> PA			<b>Well #:</b> 324-20		<b>API/UWI #:</b>		
<b>Field:</b> Parachute		<b>City (SAP):</b> PARACHUTE		<b>County/Parish:</b> Garfield		<b>State:</b> Colorado	
<b>Lat:</b> N 39.504 deg. OR N 39 deg. 30 min. 14.08 secs.				<b>Long:</b> W 108.019 deg. OR W -109 deg. 58 min. 51.11 secs.			
<b>Contractor:</b> NABORS 577			<b>Rig/Platform Name/Num:</b> NABORS 577				
<b>Job Purpose:</b> Cement Surface Casing							
<b>Well Type:</b> Development Well				<b>Job Type:</b> Cement Surface Casing			
<b>Sales Person:</b> MAYO, MARK			<b>Srvc Supervisor:</b> ERIC CARTER		<b>MBU ID Emp #:</b> 345598		
<b>Job Personnel</b>							
<b>HES Emp Name</b>	<b>Exp Hrs</b>	<b>Emp #</b>	<b>HES Emp Name</b>	<b>Exp Hrs</b>	<b>Emp #</b>	<b>HES Emp Name</b>	<b>Exp Hrs</b>
BANKS, BRENT A	15	371353	CARTER, ERIC Earl	15	345598	JENKINS, DEMON Lashaun	15
LINN, PAUL Andrew	15	479143					
<b>Equipment</b>							
<b>HES Unit #</b>	<b>Distance-1 way</b>	<b>HES Unit #</b>	<b>Distance-1 way</b>	<b>HES Unit #</b>	<b>Distance-1 way</b>	<b>HES Unit #</b>	<b>Distance-1 way</b>
10713212	60 mile	10871245	60 mile	10897849	60 mile	10951247	60 mile
11021972	60 mile	11027039	60 mile	11360881	60 mile		
<b>Job Hours</b>							
<b>Date</b>	<b>On Location Hours</b>	<b>Operating Hours</b>	<b>Date</b>	<b>On Location Hours</b>	<b>Operating Hours</b>	<b>Date</b>	<b>On Location Hours</b>
11/26/11	15	1					
<b>TOTAL</b>			<i>Total is the sum of each column separately</i>				
<b>Job</b>				<b>Job Times</b>			
<b>Formation Name</b>				<b>Date</b>		<b>Time</b>	<b>Time Zone</b>
<b>Formation Depth (MD)</b>	<b>Top</b>	<b>Bottom</b>	<b>1345"</b>	<b>Called Out</b>	26 - Nov - 2011	00:00	MST
<b>Form Type</b>	<b>BHST</b>			<b>On Location</b>	26 - Nov - 2011	05:30	MST
<b>Job depth MD</b>	1345. ft	<b>Job Depth TVD</b>	1345. ft	<b>Job Started</b>	26 - Nov - 2011	18:28	MST
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>	5. ft	<b>Job Completed</b>	26 - Nov - 2011	19:29	MST
<b>Perforation Depth (MD)</b>	<b>From</b>	<b>To</b>		<b>Departed Loc</b>	26 - Nov - 2011	20:30	MST
<b>Well Data</b>							
<b>Description</b>	<b>New / Used</b>	<b>Max pressure psig</b>	<b>Size in</b>	<b>ID in</b>	<b>Weight lbm/ft</b>	<b>Thread</b>	<b>Grade</b>
OPEN HOLE				13.5			
SURFACE CASING	Unknown		9.625	9.001	32.3		H-40
<b>Sales/Rental/3<sup>rd</sup> Party (HES)</b>							
<b>Description</b>				<b>Qty</b>	<b>Qty uom</b>	<b>Depth</b>	<b>Supplier</b>
PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA				1	EA		
<b>Tools and Accessories</b>							
<b>Type</b>	<b>Size</b>	<b>Qty</b>	<b>Make</b>	<b>Depth</b>	<b>Type</b>	<b>Size</b>	<b>Qty</b>
Guide Shoe					Packer		
Float Shoe					Bridge Plug		
Float Collar					Retainer		
Insert Float							
Stage Tool							
<b>Miscellaneous Materials</b>							
<b>Gelling Agt</b>		<b>Conc</b>		<b>Surfactant</b>		<b>Conc</b>	
<b>Treatment Fld</b>		<b>Conc</b>		<b>Inhibitor</b>		<b>Conc</b>	
				<b>Acid Type</b>		<b>Qty</b>	<b>Conc %</b>
				<b>Sand Type</b>		<b>Size</b>	<b>Qty</b>

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	7		
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	210.0	sacks	12.3	2.38	13.75	7.5	13.75	
		13.75 Gal FRESH WATER								
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	8	11.75	
		11.75 Gal FRESH WATER								
4	Displacement Fluid		100.9	bbl	8.34	.0	.0	10		
Calculated Values		Pressures		Volumes						
Displacement	100.9	Shut In: Instant		Lost Returns	NONE	Cement Slurry	149.1	Pad		
Top Of Cement	SURFACE	5 Min		Cement Returns	5	Actual Displacement	100.9	Treatment		
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	270	
Rates										
Circulating	RIG	Mixing	8	Displacement	10	Avg. Job	9			
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*

<b>Sold To #:</b> 300721	<b>Ship To #:</b> 2891324	<b>Quote #:</b>	<b>Sales Order #:</b> 9068265
<b>Customer:</b> WILLIAMS PRODUCTION RMT INC - EBUS		<b>Customer Rep:</b> David, Buddy	
<b>Well Name:</b> PA	<b>Well #:</b> 324-20	<b>API/UWI #:</b>	
<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. 14.08 secs.		<b>Long:</b> W 108.019 deg. OR W -109 deg. 58 min. 51.11 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> ERIC CARTER	<b>MBU ID Emp #:</b> 345598

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/26/2011 00:00							
Depart Yard Safety Meeting	11/26/2011 01:20							ATTENDED BY ALL HES CREW
Crew Leave Yard	11/26/2011 01:30							
Arrive At Loc	11/26/2011 05:30							RIG DRILLING
Assessment Of Location Safety Meeting	11/26/2011 16:30							ATTENDED BY ALL HES CREW
Other	11/26/2011 17:00							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	11/26/2011 17:20							ATTENDED BY ALL HES CREW
Rig-Up Equipment	11/26/2011 17:30							
Pre-Job Safety Meeting	11/26/2011 18:00							ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP
Start Job	11/26/2011 18:28							TP 1325', TD 1345', SJ 43.32', FC 1281.68', MW 9.6 PPG, PV 24, YP 20, CASING 9.625", 32.3#, H-40, HOLE 13.5" RIG CIRCULATED FOR 2 HRS PRIOR TO JOB AT 17.5 BBL/MIN
Other	11/26/2011 18:28		2	2			50.0	FILL LINES
Test Lines	11/26/2011 18:30						3050.0	PRESSURED UP TO PSI, PRESSURE HELD
Pump Spacer 1	11/26/2011 18:34		7	20			213.0	FRESH WATER
Pump Lead Cement	11/26/2011 18:42		7.5	89			310.0	210 SKS MIXED AT 12.3 PPG, 2.38 YIELD, 13.75 GL/SK

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	11/26/2011 18:53		8	60.1			330.0	160 SKS MIXED AT 12.8 PPG, 2.11 YIELD, 11.75 GL/SK
Shutdown	11/26/2011 19:00							
Drop Top Plug	11/26/2011 19:03							COMPANY REP VERIFIED THAT PLUG LAUNCHED
Pump Displacement	11/26/2011 19:05		10	90.9			540.0	FRESH WATER, COMPANY REP REQUESTED TO ADD 100 LBS BARACARBINATE IN FIRST 20 BBLS DISPLACEMENT
Slow Rate	11/26/2011 19:16		2	10			325.0	
Bump Plug	11/26/2011 19:23						805.0	PLUG LANDED
Check Floats	11/26/2011 19:29							FLOATS HELD
End Job	11/26/2011 19:29							GOOD CIRCULATION THROUGH OUT JOB, 5 BBLS CEMENT TO SURFACE, PIPE WAS NOT MOVED DURING JOB
Post-Job Safety Meeting (Pre Rig-Down)	11/26/2011 19:30							ATTENDED BY ALL HES CREW
Rig-Down Equipment	11/26/2011 19:35							
Depart Location Safety Meeting	11/26/2011 20:20							ATTENDED BY ALL HES CREW
Crew Leave Location	11/26/2011 20:30							THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW.

# HALLIBURTON

---

## Water Analysis Report

Company: WILLIAMS  
Submitted by: ERIC CARTER  
Attention: J.Trout  
Lease: NAB 577  
Well #: PA 324-20

Date: 11/26/2011  
Date Rec.: 11/26/2011  
S.O.#: 9068265  
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>0</i> Mg / L
Hrdness	<i>500</i>	<i>120</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>500</i> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<i>&lt;200</i> Mg / L
Temp	<i>40-80</i>	<i>53</i> Deg
Total Dissolved Solids		<i>440</i> Mg / L

Respectfully: ERIC CARTER

Title: CEMENTING SUPERVISOR

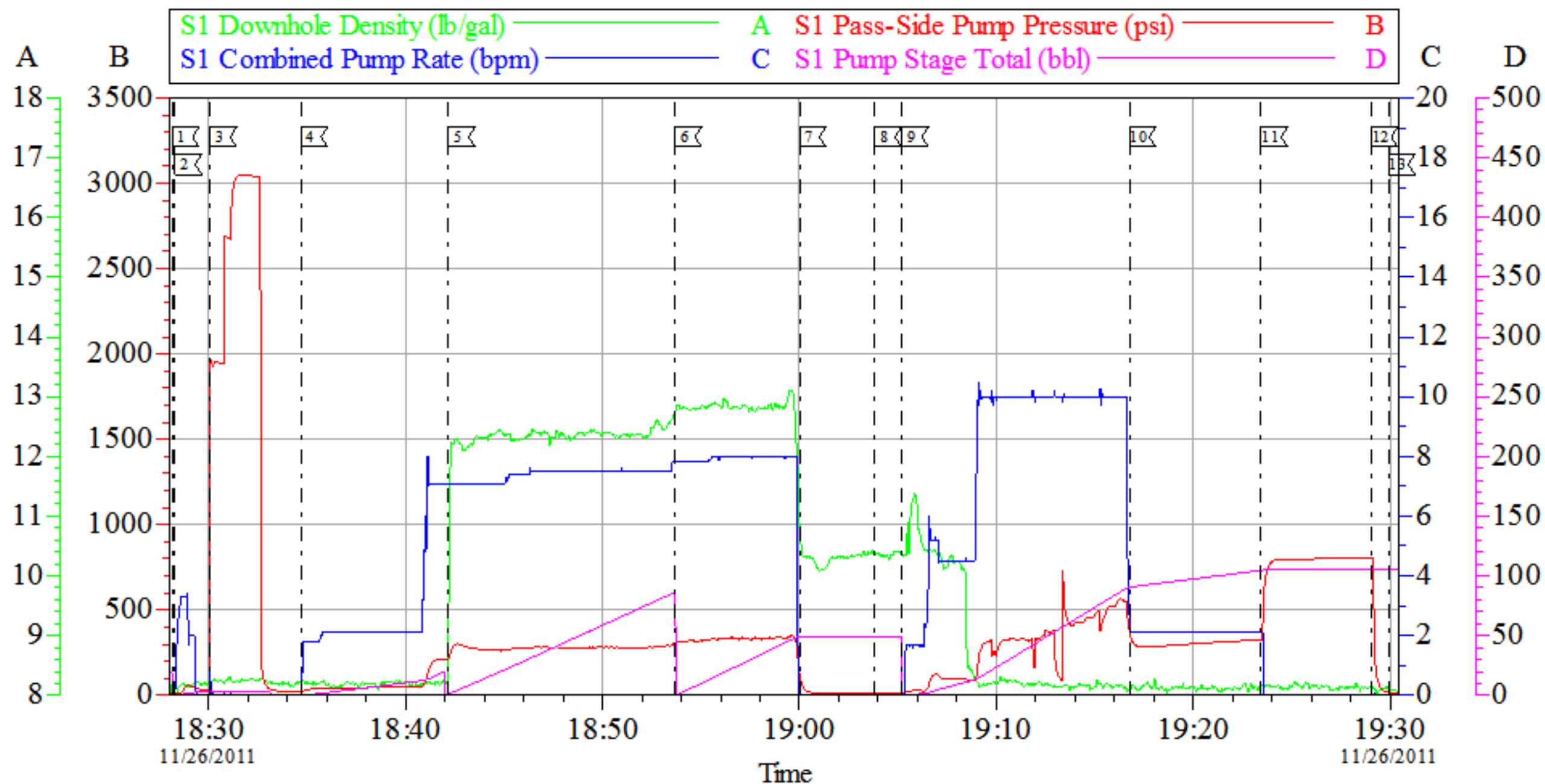
Location: Grand Junction, CO

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 repc

# WILLIAMS/PA 324-20

## 9.625" SURFACE



### Local Event Log

1 START JOB	18:28:10	2 FILL LINES	18:28:17	3 TEST LINES	18:30:04
4 PUMP H2O SPACER	18:34:41	5 PUMP LEAD CEMENT	18:42:11	6 PUMP TAIL CEMENT	18:53:41
7 SHUTDOWN	19:00:01	8 DROP TOP PLUG	19:03:50	9 PUMP H2O DISPLACEMENT	19:05:12
10 SLOW RATE	19:16:46	11 BUMP PLUG	19:23:28	12 CHECK FLOATS	19:29:03
13 END JOB	19:29:56				

Customer: WILLIAMS PRODUCTION RMT INC - EBUS  
 Well Description: PA 324-20  
 Company Rep: BUDDY DAVID

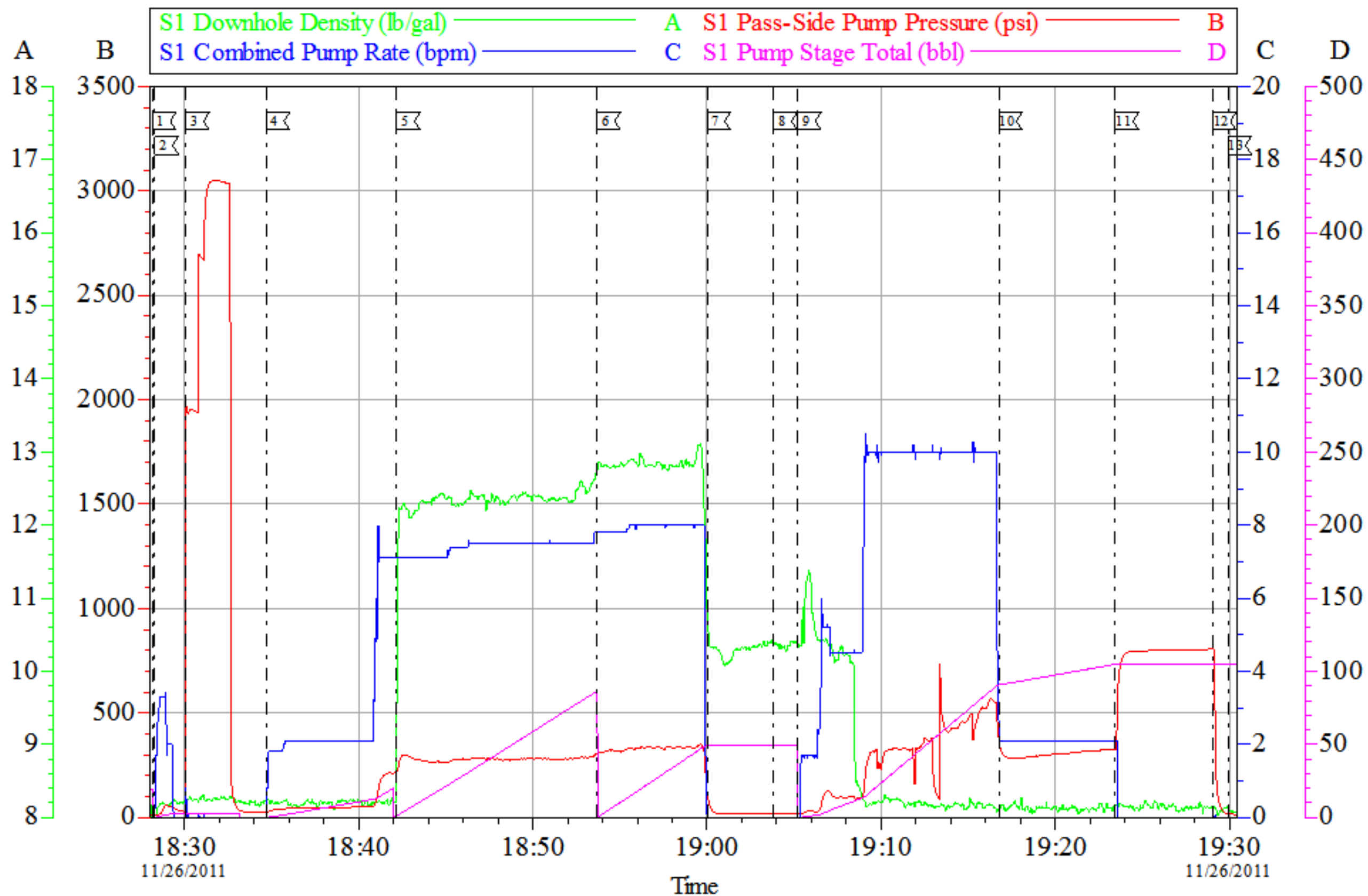
Job Date: 26-Nov-2011  
 Job Type: SURFACE  
 Cement Supervisor: ERIC CARTER

Sales Order #: 9068265  
 ADC Used: YES  
 Elite #/Operator: 8/BRENT BANKS

OptiCem v6.4.0  
 26-Nov-11 19:51

# WILLIAMS/PA 324-20

## 9.625" SURFACE



Customer: WILLIAMS PRODUCTION RMT INC - EBUS	Job Date: 26-Nov-2011	Sales Order #: 9068265
Well Description: PA 324-20	Job Type: SURFACE	ADC Used: YES
Company Rep: BUDDY DAVID	Cement Supervisor: ERIC CARTER	Elite #/Operator: 8/BRENT BANKS



<b>Sales Order #:</b> 9068265	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 11/26/2011
<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> AFEYK4FNB1JOWATHAAA
<b>Well Name:</b> PA		<b>Well Number:</b> 324-20
<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	11/26/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	ERIC CARTER (HX15491)
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	CHECKED DVA

CUSTOMER SIGNATURE

<b>Sales Order #:</b> 9068265	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 11/26/2011
<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> AFEYK4FNB1JOWATHAAA
<b>Well Name:</b> PA		<b>Well Number:</b> 324-20
<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

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b> The date the survey was conducted	11/26/2011

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 highest 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.	3
<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.	1
<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	5
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

<b>Sales Order #:</b> 9068265	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 11/26/2011
<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> AFEYK4FNB1JOWATHAAA
<b>Well Name:</b> PA		<b>Well Number:</b> 324-20
<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

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	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	92
<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 +/- 1bbl/min. Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped, multiplied by 100	92
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0