
WILLIAMS PRODUCTION RMT INC - EBUS

**PA 541-7
Parachute
Garfield County , Colorado**

Post Job Summary
02-Jun-2011

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2855130	Quote #:	Sales Order #: 8189421
Customer: WILLIAMS PRODUCTION RMT INC - EBUS	Customer Rep: Towers, Ron		
Well Name: PA	Well #: 541-7	API/UWI #: 05-045-20152	
Field: Parachute	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.456 deg. OR N 39 deg. 27 min. 23.152 secs.	Long: W 108.044 deg. OR W -109 deg. 57 min. 23.09 secs.		
Contractor: NABORS 574	Rig/Platform Name/Num: NABORS 574		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: KOHL, KYLE	Srv Supervisor: TRIPLETT, MICHEAL	MBU ID Emp #: 447908	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
SINGLETON, AUSTIN W	8	487406	STILLSON, ERIC W	8	393789	TRIPLETT, MICHEAL Anthony	8	447908
WEAVER, CARLTON Russell	8	457698						

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	10867322	60 mile	10951246	60 mile
10995025	60 mile	10998512	60 mile				

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
06/02/2011	8	1						

TOTAL Total is the sum of each column separately

Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	02 - Jun - 2011	03:30	MST
Form Type		BHST	Job Started	02 - Jun - 2011	09:34	MST
Job depth MD	1596. ft	Job Depth TVD	1596. ft	Job Completed	02 - Jun - 2011	10:39
Water Depth		Wk Ht Above Floor	4. ft	Departed Loc	02 - Jun - 2011	11:35
Perforation Depth (MD)	From	To				

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
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Sales/Rental/3rd 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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
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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		20.00	bbl	8.33	.0	.0	.0	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	240.0	sacks	12.3	2.38	13.75		13.75
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75		11.75
4	Displacement Fluid		122.00	bbl	8.34	.0	.0	.0	
Calculated Values		Pressures		Volumes					
Displacement	122.3	Shut In: Instant		Lost Returns	0	Cement Slurry	162	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	32	Actual Displacement	122.3	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	304
Rates									
Circulating	9	Mixing	8	Displacement	10	Avg. Job	9		
Cement Left In Pipe	Amount	42 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					

Pre-Planned Job Procedure Single Stage

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job					
6	Test Lines	3000.0				
10	FRESHWATER	20.0				
13	Lead Cement	101.7	240	12.3	2.38	13.75
15	Tail Cement	60.1	160	12.8	2.11	11.75
22	Drop Plug					
23	KCL DISPLACEMENT	122.3				
	SLOW RATE	112.3				
26	Land Plug	335+500				
2	Release Psi / Job Over					
			Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH		FLOAT COLLAR	BBL/FT	H2O REQ.
122.30	1596	42.00		1554.00	0.0787	266
PSI to Lift Pipe	602	*****Use Mud Scales on Each Tier*****				
Total Displacement	122.30					
CALCULATED DIFFERENTIAL PSI		335		TOTAL FLUID PUMPED		304
Collapse	2220	Burst	3520		SO#	8189421

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Field: Parachute	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.456 deg. OR N 39 deg. 27 min. 23.152 secs.		Long: W 108.044 deg. OR W -109 deg. 57 min. 23.09 secs.	
Contractor: NABORS 574		Rig/Platform Name/Num: NABORS 574	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: KOHL, KYLE		Srvc Supervisor: TRIPLETT, MICHEAL	MBU ID Emp #: 447908

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	06/02/2011 00:00							
Pre-Convoy Safety Meeting	06/02/2011 01:45							
Crew Leave Yard	06/02/2011 02:00							
Arrive At Loc	06/02/2011 03:30							VERIFY NUMBERS AND CEMENT WITH COMPANY REP
Assessment Of Location Safety Meeting	06/02/2011 03:40							
Other	06/02/2011 07:30							SPOT EQUIPMENT, 1 RCM PUMP TRUCK, 1 660, 1 BODY LOAD
Pre-Rig Up Safety Meeting	06/02/2011 07:45							GO OVER JSA AND HAVE CREW SIGN
Rig-Up Equipment	06/02/2011 07:50							
Pre-Job Safety Meeting	06/02/2011 09:15							GO OVER SAFETY INFORMATION AND JOB PROCEDURES.
Start Job	06/02/2011 09:34							TD:1615', TP:1596', SJ:42.00', MW:9.8, CASING: 9.625 32.3#, OH: 14".
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Test Lines	06/02/2011 09:37						3000.0	PRESSURE TEST LINES AND PUMPS, STARTED AT 2966 PSI ENDED AT 2973 PSI LOST 0 PSI IN TWO MINUTES.
Pump Spacer 1	06/02/2011 09:40		4	20			260.0	FRESH WATER

Sold To # : 300721

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Quote # :

Sales Order # :

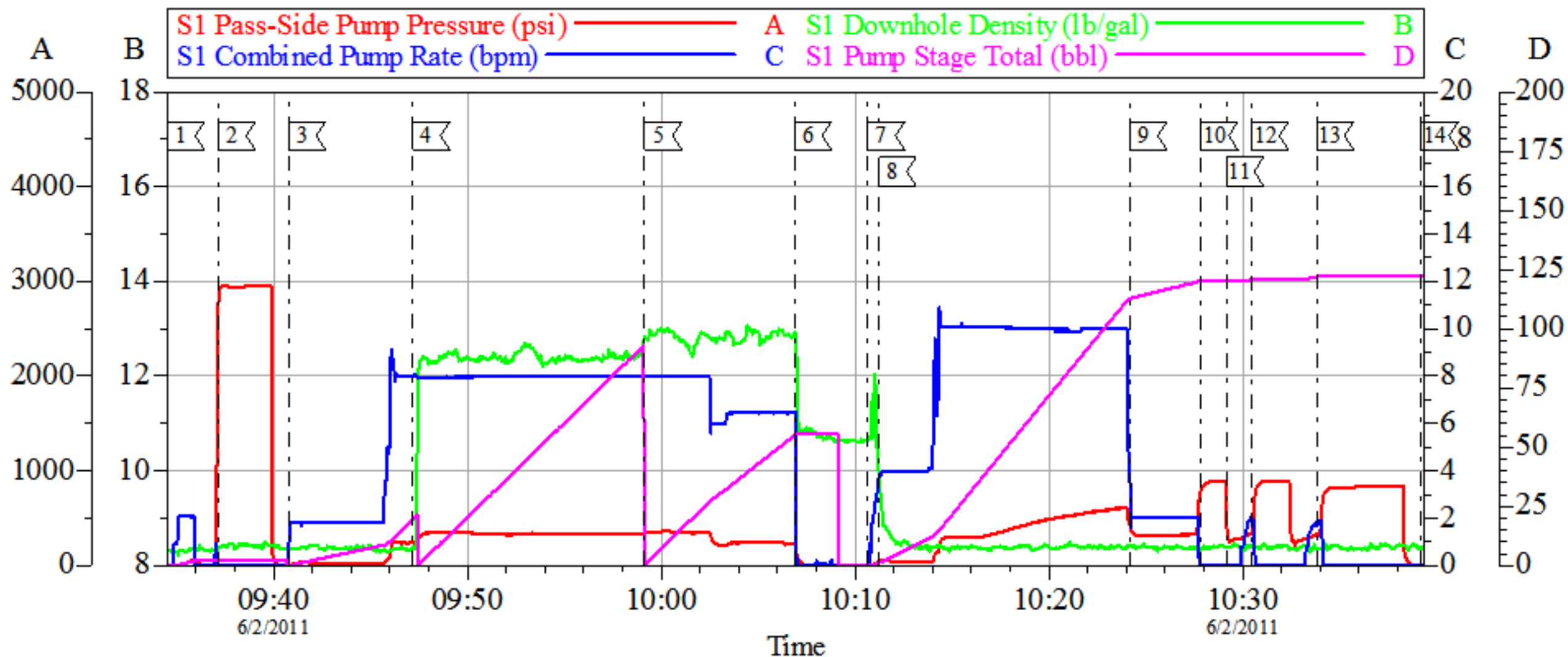
8189421

SUMMIT Version: 7.2.27

Thursday, June 02, 2011 11:02:00

Pump Lead Cement	06/02/2011 09:47		8	101.7			350.0	240 SACKS MIXED @ 12.3, 2.38 YIELD, 13.75GAL/SACK
Pump Tail Cement	06/02/2011 09:59		8	60.1			365.0	160 SACKS MIXED @ 12.8, 2.11 YIELD, 11.75GAL/SACK
Shutdown	06/02/2011 10:06							
Drop Top Plug	06/02/2011 10:10							COMPANY REP AND CEMENTER VERIFIED PLUG LEFT
Pump Displacement	06/02/2011 10:11		10	122.3			630.0	FRESHWATER DISPLACEMENT, WASHED UP ON TOP OF PLUG PER COMPANY REP.
Slow Rate	06/02/2011 10:24		2	112.3			340.0	SLOWRATE LAST 10 BBLs PRIOR TO BUMPING PLUG
Bump Plug	06/02/2011 10:27						450.0	BUMP PLUG AND WENT 500PSI OVER TO 950 PSI
Check Floats	06/02/2011 10:29							FLOATS DIDN'T HOLD RE-BUMP AND HELD FOR TWO MORE MINUTES, RELEASED PRESSURE FLOATS STILL DIDN'T HOLD, PUT 800 PSI ON CASING AND SHUT-IN.
End Job	06/02/2011 10:39							GOOD CIRCULATION THROUGHOUT THE JOB, GOT CEMENT RETURNS WITH 90BBLs OF DISPLACEMENT GONE. GOT 32 BBLs OF CEMENT BACK TO SURFACE. 100#'S OF SUGAR USED.
Post-Job Safety Meeting (Pre Rig-Down)	06/02/2011 10:40							
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Rig-Down Equipment	06/02/2011 10:45							
Pre-Convoy Safety Meeting	06/02/2011 11:30							
Crew Leave Location	06/02/2011 11:35							THANKS FOR USING HALLIBURTON MIKE TRIPLETT AND CREW

WILLIAMS SURFACE PA 541-7



Local Event Log

1	START JOB	09:34:31	2	PRESSURE TEST	09:37:09
3	START FRESHWATER DISPLACEMENT	09:40:46	4	START LEAD CEMENT	09:47:11
5	START TAIL CEMENT	09:59:09	6	SHUTDOWN	10:06:52
7	DROP PLUG	10:10:39	8	START DISPLACEMENT	10:11:14
9	SLOWRATE	10:24:11	10	BUMP PLUG	10:27:50
11	CHECK FLOATS	10:29:09	12	RE-BUMP PLUG	10:30:27
13	RE-BUMP PLUG HOLD 800PSI ON PLUG	10:33:49	14	END JOB	10:39:12

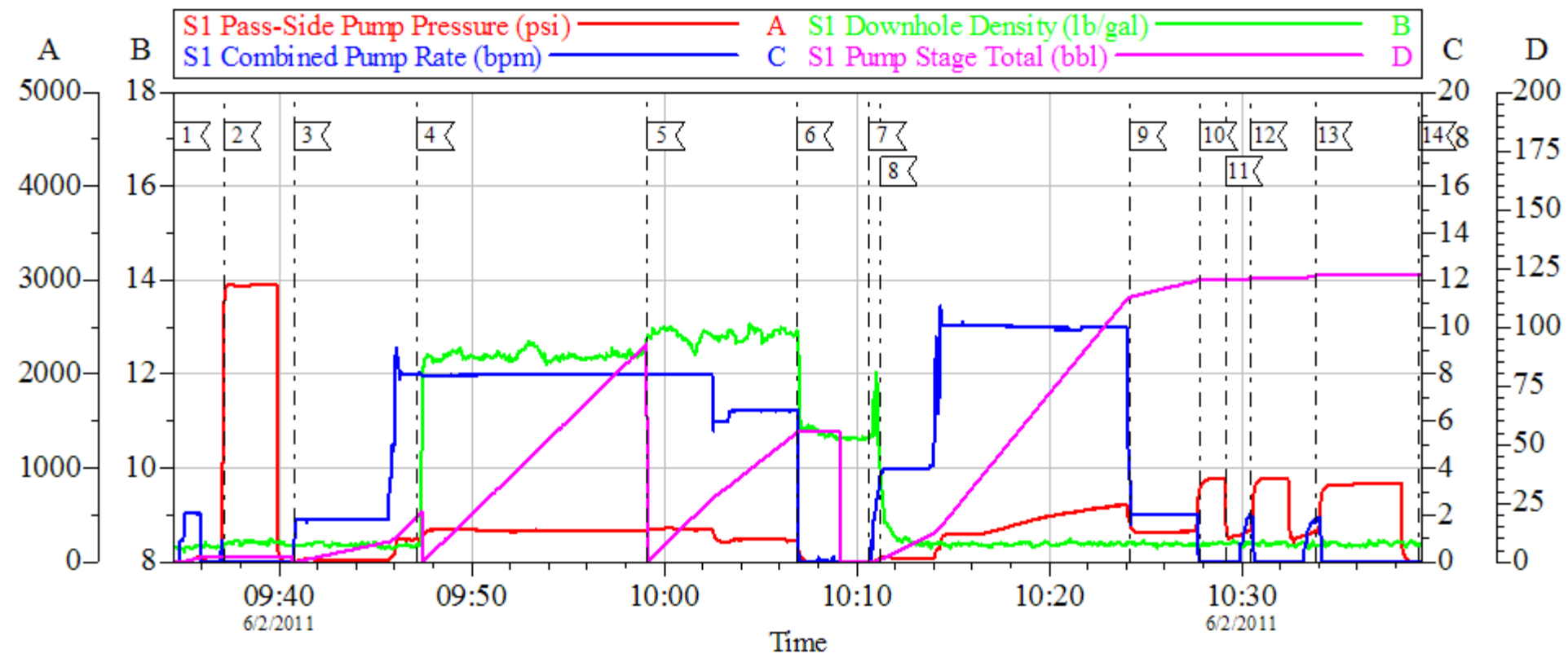
Customer: WILLIAMS
Well Description: PA 541-7
ADC USED: YES

Job Date: 02-Jun-2011
JOB TYPE: SURFACE
SERVICE SUPERVISOR: MIKE TRIPLETT

Sales Order #: 8189421
COMPANY REP: RON TOWERS
ELITE/OPERATER 4/ RUSTY WEAVER

OptiCem v6.4.9
02-Jun-11 10:45

WILLIAMS SURFACE PA 541-7



HALLIBURTON

Water Analysis Report

Company: NOBLE
Submitted by: MIKE TRIPLETT
Attention: JON TROUT
Lease: BM
Well #: 598-25-cv-01

Date: 12/22/2010
Date Rec.: 12/22/2010
S.O.#: 7785368
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7.1</i>
Potassium (K)	<i>5000</i>	<i>450</i> Mg / L
Calcium (Ca)	<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 ₄)	<i>1500</i>	<i>-200</i> Mg / L
Chlorine (Cl ₂)		<i>0</i> Mg / L
Temp	<i>40-80</i>	<i>47</i> Deg
Total Dissolved Solids		<i>40</i> Mg / L

Respectfully: MIKE TRIPLETT

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 report c

Sales Order #: 8189421	Line Item: 10	Survey Conducted Date: 6/2/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: RON TOWERS		API / UWI: (leave blank if unknown) 05-045-20152
Well Name: PA		Well Number: 541-7
Well Type: Development Well	Well Country: United States of America	
H2S Present:	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	6/2/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	MICHEAL TRIPLETT (HB15721)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	RON TOWERS
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

Sales Order #: 8189421	Line Item: 10	Survey Conducted Date: 6/2/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: RON TOWERS		API / UWI: (leave blank if unknown) 05-045-20152
Well Name: PA		Well Number: 541-7
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	6/2/2011
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)	2
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
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	7
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)	Yes

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Customer Representative: RON TOWERS		API / UWI: (leave blank if unknown) 05-045-20152
Well Name: PA		Well Number: 541-7
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
Mixing Density of Job Stayed in Designed Density Range (0-100%) Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	95
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	95
Nbr of Remedial Sqz Jobs Rqd - Competition Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
Nbr of Remedial Plug Jobs Rqd - HES Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
Nbr of Remedial Sqz Jobs Rqd - HES Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0