
WILLIAMS PRODUCTION RMT INC - EBUS

**SP 341-14
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing
20-Dec-2011

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2860677	Quote #:	Sales Order #: 9110458
Customer: WILLIAMS PRODUCTION RMT INC - EBUS	Customer Rep: Shults, Mike		
Well Name: SP	Well #: 341-14	API/UWI #: 05-045-20375	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.555 deg. OR N 39 deg. 33 min. 16.452 secs.	Long: W 108.242 deg. OR W -109 deg. 45 min. 27.648 secs.		
Contractor: H&P 271	Rig/Platform Name/Num: H&P 271		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: SCOTT, KYLE	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	11	485182	GOWEN, WESLEY M	11	496205	PHILLIPS, MARK Bejar	11	445272
VANALSTYNE, TROY L	11	420256						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10565341	60 mile	10804567	60 mile	10867304	60 mile	10951249	60 mile
10998054	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
12-20-11	9	2						

TOTAL	Total is the sum of each column separately							
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Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	20 - Dec - 2011	12:30	MST
Form Type		BHST	Job Started	20 - Dec - 2011	17:24	MST
Job depth MD	2467. ft	Job Depth TVD	2467. ft	Job Completed	20 - Dec - 2011	18:48
Water Depth		Wk Ht Above Floor	4. ft	Departed Loc	20 - Dec - 2011	21:00
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
OPEN HOLE				13.5				.	2467.		
SURFACE CASING	New		9.625	9.001	32.3		H-40	.	2452.		

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	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar				2412						SSR plug set			
Insert Float										Plug Container	9.625	1	HES
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	Fresh Water		20.00	bbl	8.33	.0	.0	4.0		
2	VersaCem Lead	VERSACEM (TM) SYSTEM (452010)	460.0	sacks	12.3	2.38	13.75	8.0	13.75	
		13.75 Gal	FRESH WATER							
3	VersaCem Tail	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	8.0	11.75	
		11.75 Gal	FRESH WATER							
4	Displacement Fluid		189.8	bbl	8.34	.0	.0	10.0		
Calculated Values		Pressures		Volumes						
Displacement	189.8	Shut In: Instant		Lost Returns	0	Cement Slurry	255	Pad		
Top Of Cement	SURFACE	5 Min		Cement Returns	40	Actual Displacement	185	Treatment		
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	465	
Rates										
Circulating	9	Mixing	8	Displacement	10	Avg. Job	8			
Cement Left In Pipe	Amount	40 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: SP	Well #: 341-14	API/UWI #: 05-045-20375	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.555 deg. OR N 39 deg. 33 min. 16.452 secs.		Long: W 108.242 deg. OR W -109 deg. 45 min. 27.648 secs.	
Contractor: H&P 271		Rig/Platform Name/Num: H&P 271	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: SCOTT, KYLE		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	12/20/2011 06:00							
Pre-Convoy Safety Meeting	12/20/2011 09:00							ALL HES EMPLOYEES
Arrive At Loc	12/20/2011 12:30							RIG STILL RUNNING CASING
Assessment Of Location Safety Meeting	12/20/2011 12:40							ALL HES EMPLOYEES
Rig-Up Equipment	12/20/2011 12:45							1 HT 400 PUMP TRUCK, 2 660 BULK TRUCK, 1 9.625" QUICK LATCH PLUG CONTAINER, 1 F 450 P/U.
Pre-Job Safety Meeting	12/20/2011 17:00							ALL HES EMPLOYEES, RIG CREW, CO REP.
Start Job	12/20/2011 17:24							TD 2467', TP 2452', FC 2412', HOLE 13.5", SJ 40.0', MUD WT 9.4 PPG, 600 BBLS OF H2O ON LOCATION, WATER SAMPLE SUBMITTED.
Pump Water	12/20/2011 17:25		2	2				FILL LINES
Pressure Test	12/20/2011 17:28		0.5			3000.0		NO LEAKS
Pump Spacer 1	12/20/2011 17:31		4	20			120.0	FRESH WATER

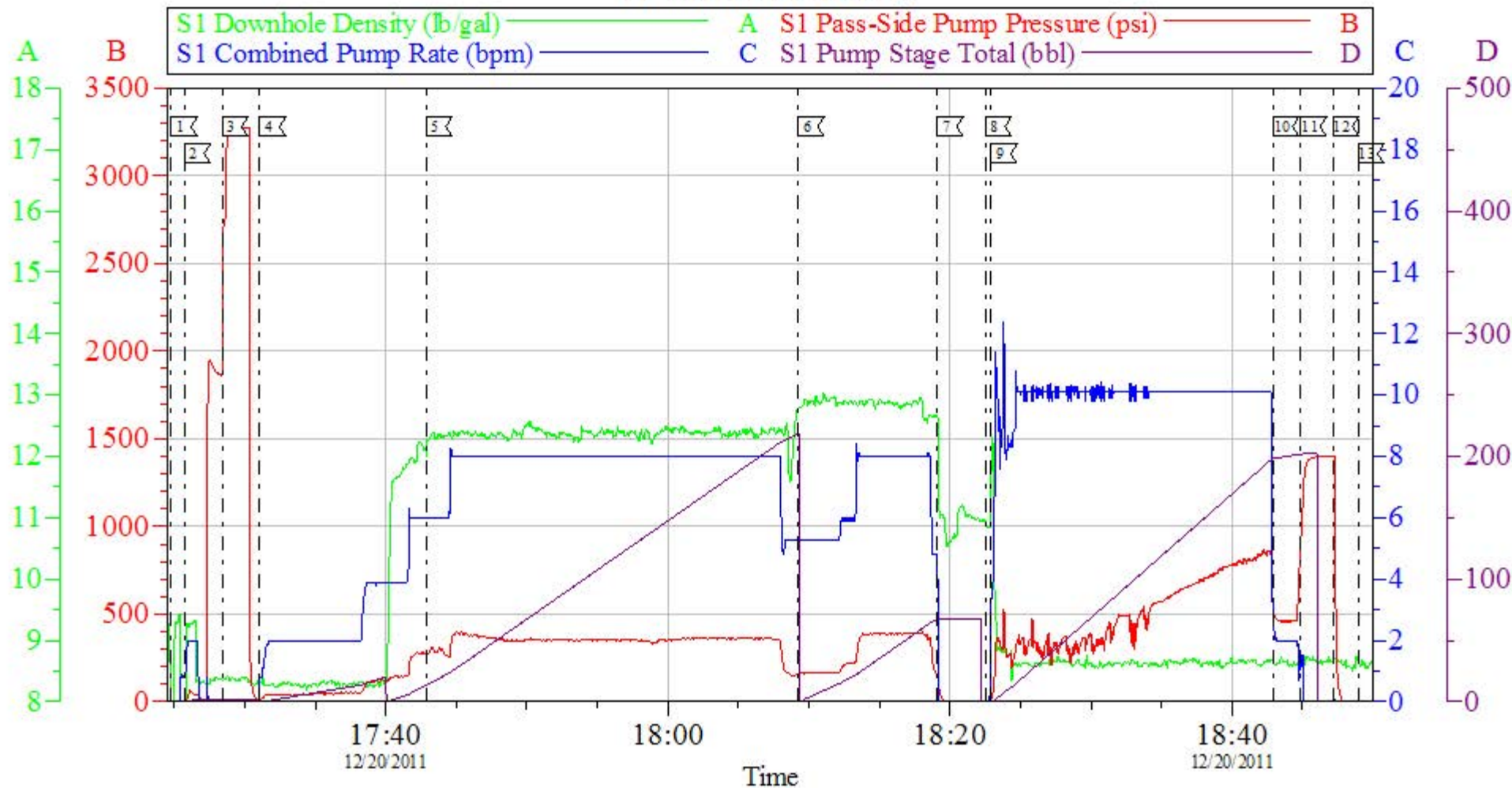
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	12/20/2011 17:42		8	195			340.0	460 SKS VERSACEM CMT MIXED AT 12.3 PPG, 2.38 YIELD, 13.75 GAL/SK, CMT WEIGHED VIA PRESSURE BALANCED MUD SCALES, WET AND DRY SAMPLES SUBMITTED.RATE WILL BE AS FOLLOWS 4-6-8 BPM
Pump Tail Cement	12/20/2011 18:09		8	60			400.0	160 SKS VERSACEM CMT MIXED AT 12.8 PPG, 2.11 YIELD, 11.75 GAL/SK, CMT WEIGHED VIA PRESSURE BALANCED MUD SCALES. WET AND DRY SAMPLES SUBMITTED.
Shutdown	12/20/2011 18:19							
Drop Plug	12/20/2011 18:22							PLUG LAUNCHED
Pump Displacement	12/20/2011 18:23		10	189.8			830.0	FRESH WATER
Cement Returns to Surface	12/20/2011 18:39		10	150			720.0	40 BBLS CEMENT RETURNED TO SURFACE
Slow Rate	12/20/2011 18:42		2	180			600.0	10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	12/20/2011 18:44		2	189.8			1200.0	PLUG LANDED HOLD FOR TWO MINUTES
Check Floats	12/20/2011 18:47							FLOATS HOLDING
End Job	12/20/2011 18:48							THANK YOU FOR USING HES FROM MARK PHILLIPS AND CREW.
Post-Job Safety Meeting (Pre Rig-Down)	12/20/2011 18:50							ALL HES EMPLOYEES
Rig-Down Equipment	12/20/2011 19:30							SAFELY, PUMP & LINES BLOWN DOWN

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Start Job	12/20/2011 21:24							RIG UP IRON TO CELLER.CEMENT FELL BACK ABOUT 70FT HES TO PERFORM TOP OUT JOB, PER CO REP HES TO WAIT2 HOURS BEFORE PUMPING TOP OUT JOB. 90 FT OF 1" TBG USED.
Pump Cement	12/20/2011 21:25		3	15		200.0		PUMP TOP OUT CEMENT MIXED AT 15.0 PPG, 1.33 YIELD, 5.49 GAL/SK, 63 SKS USED FROM SILO CALCULATED.
Cement Returns to Surface	12/20/2011 21:50							RETURNS TO SURFACE 3 BBLS, HES TO WASH UP IN PIT
End Job	12/20/2011 21:51							
Rig-Down Equipment	12/20/2011 22:15							PUMP & LINES AGAIN BLOWN DOWN POST FINISHING TOP OUT JOB.
Pre-Convoy Safety Meeting	12/20/2011 23:30							ALL HES EMPLOYEES
Crew Leave Location	12/20/2011 23:45							SITE WAS AS CLEAN AS WHEN WE ARRIVED

WILLIAMS

SP 341-14 SURFACE



Local Event Log			
1 START JOB	17:24:48	2 FILL LINES	17:25:43
3 PRESSURE TEST	17:28:24	4 H2O SPACER	17:31:04
5 LEAD CEMENT	17:42:51	6 TAIL CEMENT	18:09:13
7 SHUT DOWN	18:19:05	8 DROP PLUG	18:22:30
9 START DISPLACEMENT	18:22:55	10 SLOW RATE	18:42:54
11 BUMP PLUG	18:44:51	12 CHECK FLOATS	18:47:08
13 END JOB	18:48:56		

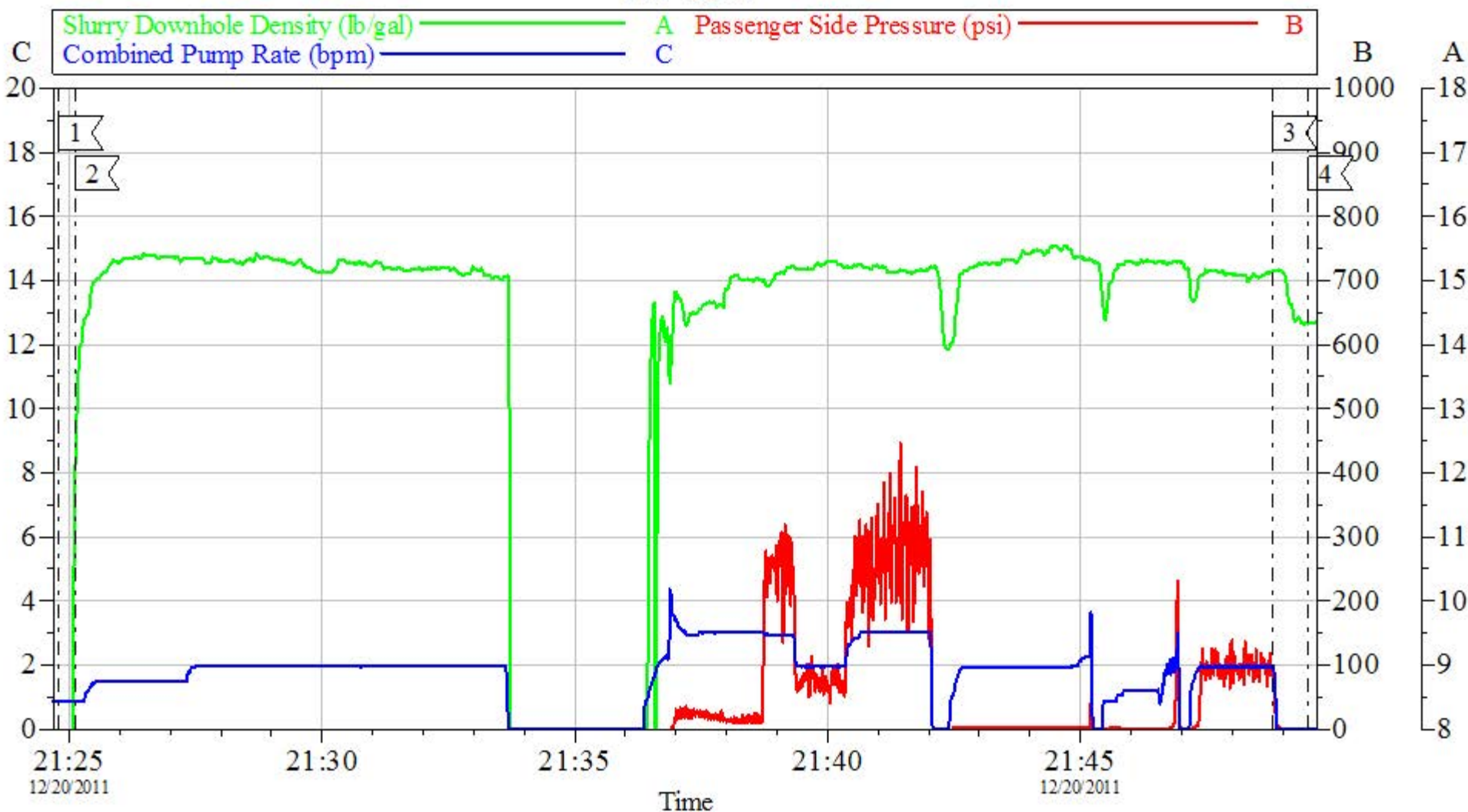
Customer: WILLIAMS
Well Description: SP 341-14
Company Rep: MIKE SHULTZ

Job Date: 20-Dec-2011
Job Type: SURFACE
Cement Supervisor: MARK PHILLIPS

Sales Order #: 9110458
ADC Used: YES
Elite #: ED DEUSSEN

OptiCem v6.4.10
20-Dec-11 19:08

TOP OUT



Local Event Log

1	START JOB	21:24:47	2	PUMP CEMENT	21:25:07
3	SHUT DOWN	21:48:48	4	END TOP OUT	21:49:30

Customer: Halliburton
Well Description: RTD

Job Date: 20-Dec-2011
UWI:

Sales Order #: 9110458

OptiCem v6.4.10
20-Dec-11 22:47



Water Analysis Report

Company: WILLIAMS

Submitted by: MARK PHILLIPS

Attention: LAB

Lease SP

Well # 341-14

Date: 12/20/2011

Date Rec.: 12/20/2011

S.O.# 9110458

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>200</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>250</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>100</i> Mg / L
Sulfates (SO ₄)	<i>1500</i>	<i>0</i> Mg / L
Chlorine (Cl ₂)		<i>0</i> Mg / L
Temp	<i>40-80</i>	<i>45</i> Deg
Total Dissolved Solids		<i>550</i> Mg / L

Respectfully: MARK PHILLIPS

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 or

Sales Order #: 9110458	Line Item: 10	Survey Conducted Date: 12/20/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20375
Well Name: SP		Well Number: 341-14
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	12/20/2011
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 #: 9110458	Line Item: 10	Survey Conducted Date: 12/20/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20375
Well Name: SP		Well Number: 341-14
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	12/20/2011
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)	11
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)	2
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)	Yes

Sales Order #: 9110458	Line Item: 10	Survey Conducted Date: 12/20/2011
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Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20375
Well Name: SP		Well Number: 341-14
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	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	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	96
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