
WILLIAMS PRODUCTION RMT INC - EBUS

**GM 23-23
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing
24-Aug-2011

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2870099	Quote #:	Sales Order #: 8371105
Customer: WILLIAMS PRODUCTION RMT INC - EBUS	Customer Rep: Hartl, Al		
Well Name: GM	Well #: 23-23	API/UWI #: 05-045-20480	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.506 deg. OR N 39 deg. 30 min. 22.579 secs.	Long: W 108.083 deg. OR W -109 deg. 55 min. 0.739 secs.		
Contractor: Nabors Industries LTD.	Rig/Platform Name/Num: Nabors 576		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: KOHL, KYLE	Srv Supervisor: PONDER, THOMAS	MBU ID Emp #: 427112	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BORSZICH, STEPHEN A	3.5	412388	MAGERS, MICHAEL Gerard	3.5	339439	PONDER, THOMAS Lynn	3.5	427112
SINCLAIR, DAN J	3.5	338784						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10783493	60 mile	10822007	60 mile	10872429	60 mile	11259886	60 mile
11360883	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
08/24/2011	3.5	2						

TOTAL Total is the sum of each column separately

Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To	Called Out	Date	Time	Time Zone
				BHST	1010. ft	1010. ft						24 - Aug - 2011	08:00	MST
											On Location	24 - Aug - 2011	11:00	MST
											Job Started	24 - Aug - 2011	12:33	MST
											Job Completed	24 - Aug - 2011	13:25	MST
											Departed Loc	24 - Aug - 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
13 1/2" Open Hole				13.5				.	1010.		
9 5/8" Surface Casing	New		9.625	9.001	32.3		H-40	.	1010.7		

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 5/8	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8	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	Water Spacer		20.00	bbl	8.34	.0	.0	.0	
2	VersaCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	280.0	sacks	12.8	2.11	11.75		11.75
	11.75 Gal	FRESH WATER							
3	Displacement Fluid		76.00	bbl	8.34	.0	.0	10.0	
Calculated Values		Pressures		Volumes					
Displacement	76.1	Shut In: Instant		Lost Returns		Cement Slurry	105.2	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	26	Actual Displacement	76.1	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	201
Rates									
Circulating	10	Mixing	8	Displacement	10	Avg. Job	8		
Cement Left In Pipe	Amount	43.45 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 #: 23-23	API/UWI #: 05-045-20480	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.506 deg. OR N 39 deg. 30 min. 22.579 secs.		Long: W 108.083 deg. OR W -109 deg. 55 min. 0.739 secs.	
Contractor: Nabors Industries LTD.		Rig/Platform Name/Num: Nabors 576	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: KOHL, KYLE		Srv Supervisor: PONDER, THOMAS	MBU ID Emp #: 427112

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	08/24/2011 08:00							
Crew Leave Yard	08/24/2011 10:00							ALL HES PRESENT FOR PRE-CONVOY SAFETY HUDDLE
Arrive At Loc	08/24/2011 11:00							RIG WAS ON BOTTOM WHEN CREW ARRIVED ON LOCATION
Assessment Of Location Safety Meeting	08/24/2011 11:10							TD- 1025', TP- 1010.73', SJ- 43.45', MUD- 10.1 PPG, HOLE- 13 1/2", SURFACE CASING- 9 5/8" 32.3# H-40
Rig-Up Equipment	08/24/2011 11:20							RIG STARTED CIRCULATION ON BOTTOM @ 1100
Safety Meeting	08/24/2011 12:00							ALL HES PRESENT, RIG CREW PRESENT
Start Job	08/24/2011 12:33							
Other	08/24/2011 12:35		2	2			42.0	FILL LINES
Test Lines	08/24/2011 12:36		0.1	0.1			6027.0	
Pump Spacer 1	08/24/2011 12:40		6	20			150.0	FRESH WATER
Pump Tail Cement	08/24/2011 12:46		8	105.2			318.0	280 SKS 12.8 PPG 2.11 FT3/SK 11.75 GAL/SK
Shutdown	08/24/2011 13:00							
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Cementing Job Log

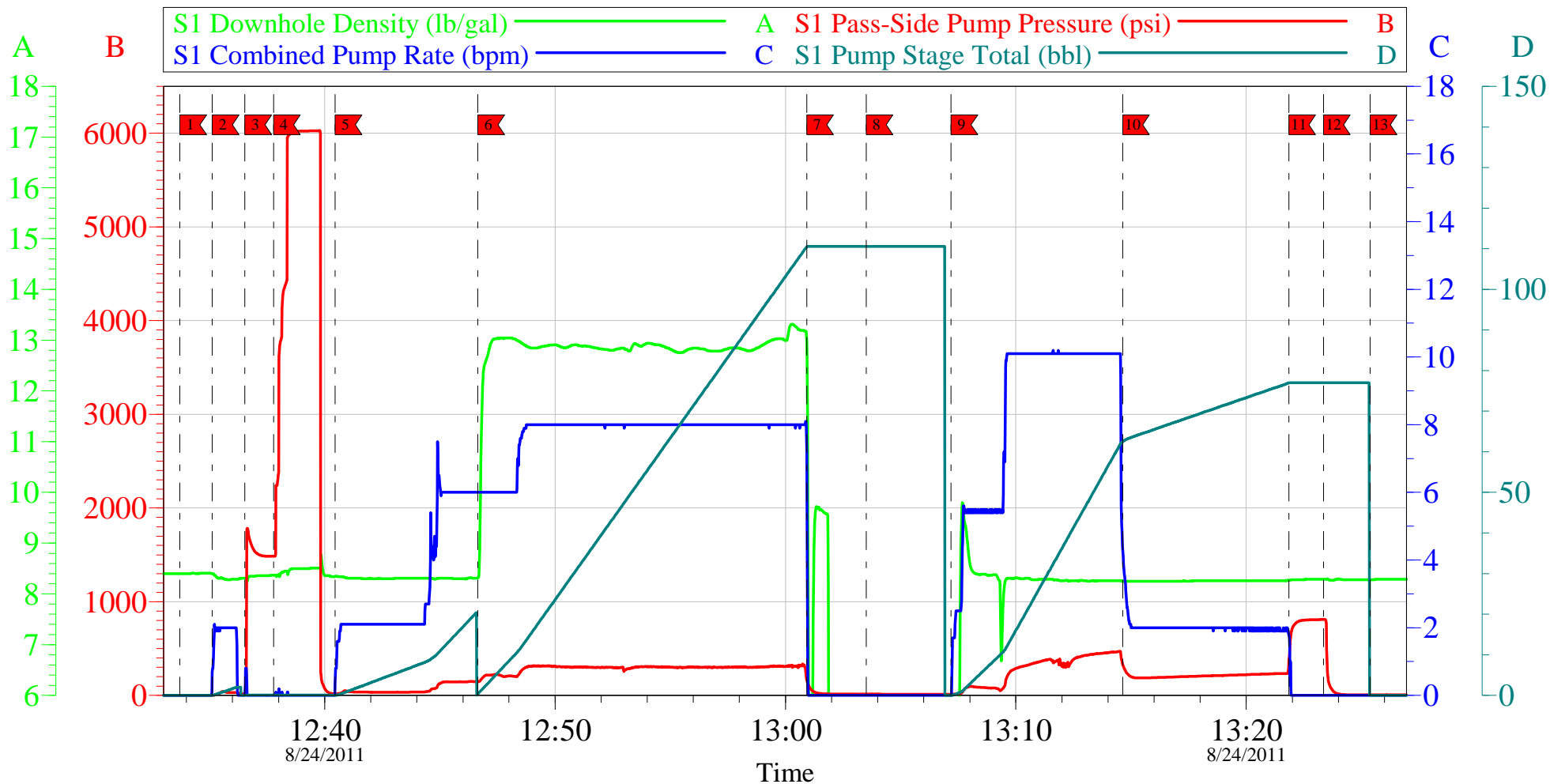
Drop Plug	08/24/2011 13:03							PLUG DROP VERIFIED VIA TATTLE TELL BY DRILLER, WASHED UP TRUCK ON TOP OF THE PLUG
Pump Displacement	08/24/2011 13:07		10	76.1			472.0	FRESH WATER
Slow Rate	08/24/2011 13:14		2	60			191.0	GOOD RETURNS THROUGH OUT THE JOB, CIRCULATED 26 BBL OF CEMENT TO SURFACE
Bump Plug	08/24/2011 13:21		2	76.1			352.0	PLUG BUMPED
Check Floats	08/24/2011 13:23						810.0	FLOATS HELD, 1/4 BBL BACK TO THE DISPLACEMENT TANKS
End Job	08/24/2011 13:25							THANK YOU FOR CHOOSING HALLIBURTON, THOMAS PONDER AND CREW

WILLIAMS GM 23-23, 9 5/8" SURFACE

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK	BBLS H2O REQ
1	Start Job		1120		Max Psi		
6	Test Lines	5000.0					
9	H2O Spacer	20.0					
14	LEAD	0.0	0	12.3	2.38	13.75	0.0
	TAIL	105.2	280	12.8	2.11	11.75	78.3
32	Drop Plug	0.0					
23	Displacement	76.1					
26	Bump Plug	199.5					
511	Check Floats	699.5					
2	End Job	0.0					
TOTAL PIPE	1010.73	OH ANN CAPACITY	87.93		BBL/FT	H2O REQ.	
SHOE JOINT	43.45	SJ CAPACITY	3.42	CSG CAP	0.0787	204.5	
FLOAT COLLAR	967.28	Displacement	76.12	CSG & OH	0.0870		
CALCULATED DIFFERENTIAL PSI			199.5	XS CMT	13.9		
Collapse	1400	Burst	2270		SO#	8371105	
CALCULATED PSI LIFT PIPE OUT OF HOLE			84.5		Total Fluid	201.3	

WILLIAMS

GM 23-23, 9.625 IN SURFACE

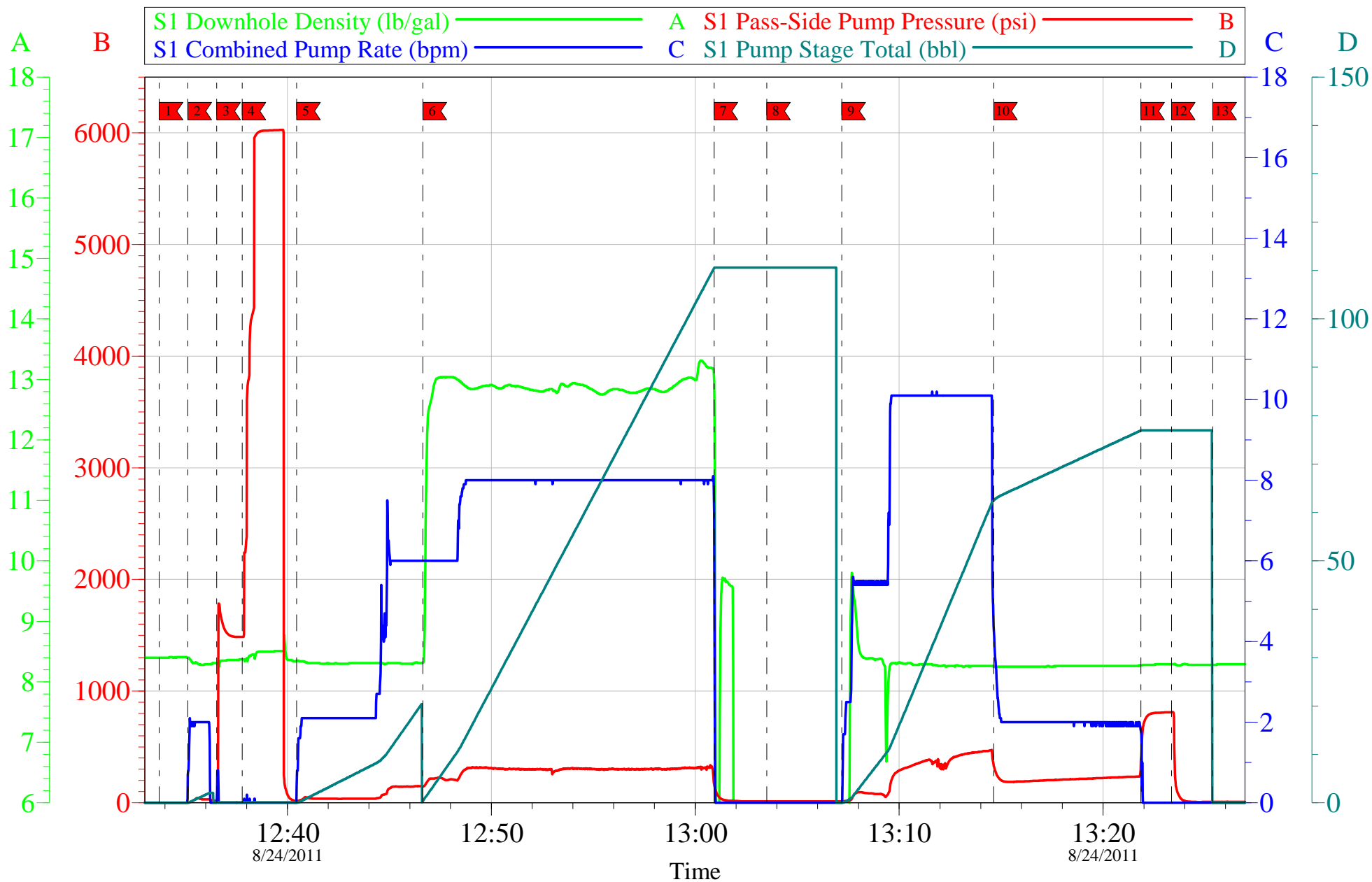


Local Event Log			
Maximum		SPPP	Maximum
1 START JOB	12:33:43	0.000	2 FILL LINES
4 HIGH TEST LINES	12:37:47	6027	5 PUMP H2O SPACER
7 SHUTDOWN	13:00:55	187.0	8 DROP PLUG
10 SLOW RATE	13:14:38	352.0	11 BUMP PLUG
13 END JOB	13:25:23	9.000	
			Maximum SPPP
			3 LOW TEST LINES
			6 PUMP CEMENT
			9 PUMP H2O DISPLACEMENT
			12 CHECK FLOATS

Customer: WILLIAMS	Job Date: 24-Aug-2011	Sales Order #: 8371105
Well Description: GM 23-23	Job Type: SURFACE	ADC Used: YES
Company Rep: BRIAN KLATT	Cement Supervisor: THOMAS PONDER	Elite #/Operator: ELITE #7 / DAN SINCLAIR

WILLIAMS

GM 23-23, 9.625 IN SURFACE



Customer: WILLIAMS	Job Date: 24-Aug-2011	Sales Order #: 8371105
Well Description: GM 23-23	Job Type: SURFACE	ADC Used: YES
Company Rep: BRIAN KLATT	Cement Supervisor: THOMAS PONDER	Elite #/Operator: ELITE #7 / DAN SINCLAIR

Sales Order #: 8371105	Line Item: 10	Survey Conducted Date: 8/24/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: BRIAN KLATT		API / UWI: (leave blank if unknown) 05-045-20480
Well Name: GM		Well Number: 23-23
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	8/24/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	THOMAS PONDER (HX41187)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	BRIAN KLATT
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

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Customer Representative: BRIAN KLATT		API / UWI: (leave blank if unknown) 05-045-20480
Well Name: GM		Well Number: 23-23
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 The date the survey was conducted	8/24/2011

Cementing KPI Survey	
Type of Job Select the type of job. (Cementing or Non-Cementing)	0
Select the Maximum Deviation range for this Job What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	2
HSE Incident, Accident, Injury HSE Incident, Accident, Injury. This should be recordable incidents only.	No
Was the job purpose achieved? Was the job delivered correctly as per customer agreed design?	Yes
Operating Hours (Pumping Hours) Total number of hours pumping fluid on this job. Enter in decimal format.	1
Customer Non-Productive Rig Time (hrs) 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
Type of Rig Classification Job Was Performed Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
Number Of JSAs Performed Number Of Jsas Performed	6
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Was this a Primary Cement Job (Yes / No)	Yes

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Customer Representative: BRIAN KLATT		API / UWI: (leave blank if unknown) 05-045-20480
Well Name: GM		Well Number: 23-23
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	99
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