
WILLIAMS PRODUCTION RMT INC - EBUS

**KP 334-8
KOKOPELLI
Garfield County , Colorado**

Cement Surface Casing
03-Dec-2011

Post Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2889090	Quote #:	Sales Order #: 9041275
Customer: WILLIAMS PRODUCTION RMT INC - EBUS	Customer Rep: Mulherin, Seth		
Well Name: KP	Well #: 334-8	API/UWI #: 05-04-20987	
Field: KOKOPELLI	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Lat: N 39.536 deg. OR N 39 deg. 32 min. 7.876 secs.	Long: W 107.58 deg. OR W -108 deg. 25 min. 13.44 secs.		
Contractor: NABORS	Rig/Platform Name/Num: NABORS 574		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: MAYO, MARK	Srv Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
EICKHOFF, ROBERT Edward		495311	LEIST, JAMES R		362787	SALAZAR, PAUL Omar		445614
SMITH, CHRISTOPHER Scott		452619						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10616651C	60 mile	10867423	60 mile	10897887	60 mile	11259882	60 mile
11808827	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours

TOTAL	Total is the sum of each column separately							
-------	--	--	--	--	--	--	--	--

Job

Formation Name									Date	Time	Time Zone	
Formation Depth (MD)		Top			Bottom			Called Out	03 - Dec - 2011	04:00	MST	
Form Type					BHST				On Location	03 - Dec - 2011	07:30	MST
Job depth MD		1305. m			Job Depth TVD		1305. m		Job Started	03 - Dec - 2011	14:11	MST
Water Depth					Wk Ht Above Floor		4. m		Job Completed	03 - Dec - 2011	15:09	MST
Perforation Depth (MD)		From			To			Departed Loc	03 - Dec - 2011	16:15	MST	

Well Data

Description	New / Used	Max pressure MPa	Size mm	ID mm	Weight kg/m	Thread	Grade	Top MD m	Bottom MD m	Top TVD m	Bottom TVD m
-------------	------------	------------------	---------	-------	-------------	--------	-------	----------	-------------	-----------	--------------

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 kg/m3	Yield m3/sk	Mix Fluid m3/tonne	Rate m3/min	Total Mix Fluid m3/tonne

1	Water Spacer		20.00	bbl	8.34	.0	.0	.0	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	170.0	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		99.00	bbl	8.34	.0	.0	.0	
Calculated Values		Pressures		Volumes					
<i>Displacement</i>		Shut In: Instant		Lost Returns		<i>Cement Slurry</i>		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
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					

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2889090	Quote #:	Sales Order #: 9041275
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Customer Rep: Mulherin, Seth	
Well Name: KP	Well #: 334-8	API/UWI #: 05-04-20987	
Field: KOKOPELLI	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.536 deg. OR N 39 deg. 32 min. 7.876 secs.		Long: W 107.58 deg. OR W -108 deg. 25 min. 13.44 secs.	
Contractor: NABORS		Rig/Platform Name/Num: NABORS 574	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srv Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619

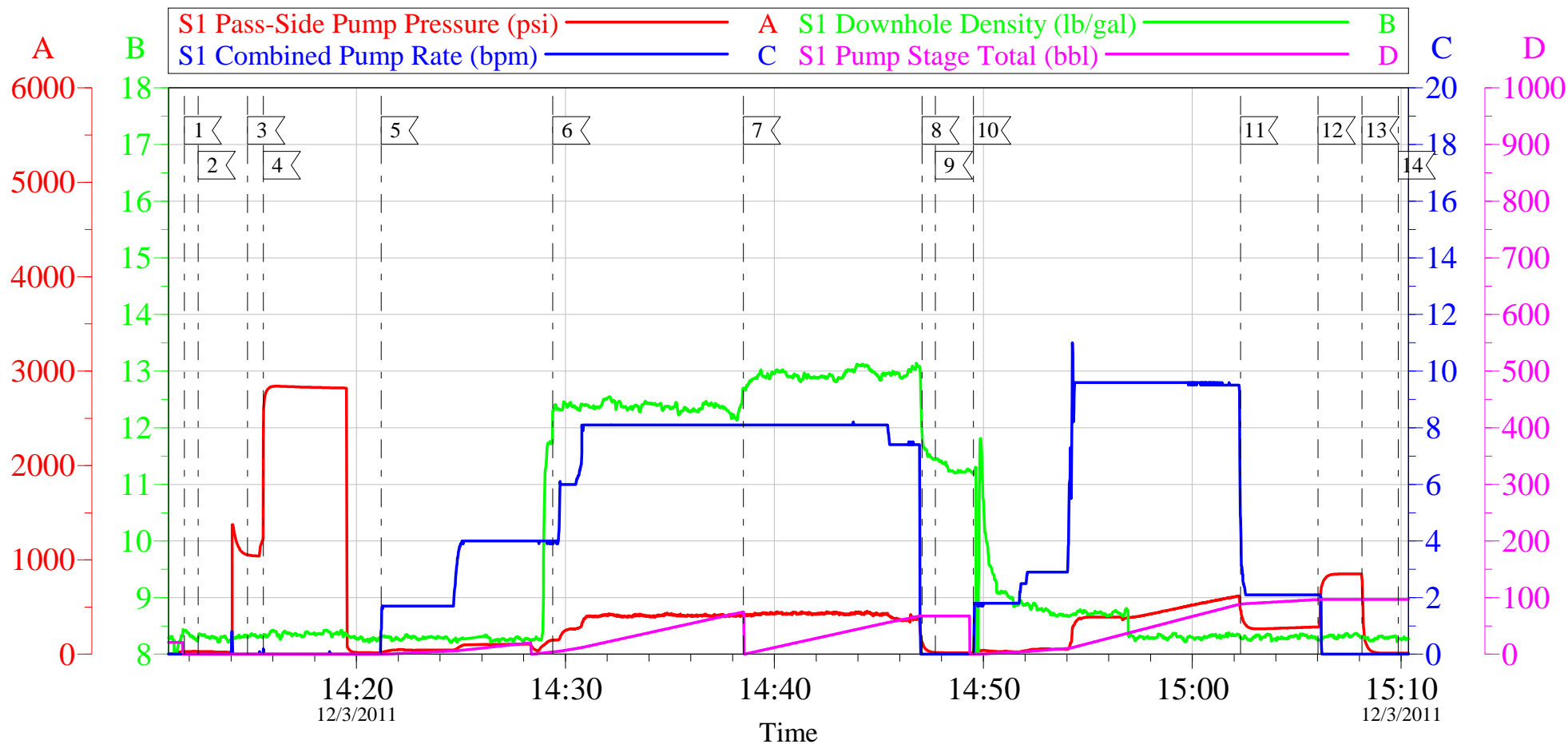
Activity Description	Date/Time	Cht #	Rate m3/min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Pre-Convoy Safety Meeting	12/03/2011 05:45							ALL HES PERSONEL
Crew Leave Yard	12/03/2011 06:00							
Arrive At Loc	12/03/2011 07:30							RIG RUNNING CASEING.
Assessment Of Location Safety Meeting	12/03/2011 08:00							ALL HES PERSONEL
Rig-Up Equipment	12/03/2011 13:30							
Pre-Job Safety Meeting	12/03/2011 14:00							ALL HES PERSONEL AND RIG CREW
Start Job	12/03/2011 14:11							TD 1305', TP 1293', SJ 38.9', OH 13.5", CSG 9.625" 32.3# H-40 , MUD 9.4PPG.
Other	12/03/2011 14:12		2	2			30.0	FILL LINES
Pressure Test	12/03/2011 14:14		0.5	0.5				ALL LINES HELD PRESSURE @ 1050 PSI
Pressure Test	12/03/2011 14:15		0.5	0.5				ALL LINES HELD PRESSURE @ 2826 PSI
Pump Spacer 1	12/03/2011 14:21		4	20			91.0	FRESH WATER
Pump Lead Cement	12/03/2011 14:29		8	72.1			408.0	160 SKS, 12.3 PPG, 2.38 FT3/SK, 13.75 GAL/SK, SET UP TIME 4:11 @ 70 BC.
Pump Tail Cement	12/03/2011 14:38		8	60.1			417.0	170 SKS, 12.8 PPG, 2.11 FT3/ SK, 11.75 GAL/SK, SET UP TIME 2:20 @ 70 BC.

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate m3/ min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Shutdown	12/03/2011 14:47							WASH UP ON TOP OF PLUG.
Drop Top Plug	12/03/2011 14:47							PLUG WENT
Pump Displacement	12/03/2011 14:49		10	88.7			540.0	FRESH WATER
Slow Rate	12/03/2011 15:02		4	10			271.0	
Bump Plug	12/03/2011 15:06						809.0	PLUG BUMPED
Check Floats	12/03/2011 15:08							FLOATS HELD
End Job	12/03/2011 15:09							GOOD CIRCULATION THROUGHOUT THE JOB, 12 BBLS OF CEMENT TO SURFACE, PIPE WAS NOT MOVED DURING JOB.
Post-Job Safety Meeting (Pre Rig-Down)	12/03/2011 15:15							ALL HES PERSONEL
Rig-Down Completed	12/03/2011 16:00							
Depart Location Safety Meeting	12/03/2011 16:05							ALL HES PERSONEL
Crew Leave Location	12/03/2011 16:15							
Other	12/03/2011 16:16							THANK YOU FOR CHOOSING HALLIBURTON, CHRIS SMITH AND CREW

Williams - KP 334-8

9.625" Surface



Local Event Log							
Intersection		SPPP	Intersection		SPPP	Intersection	SPPP
1 START JOB	14:11:46	29.00	2 FILL LINES	14:12:25	30.00	3 TEST LINES (LOW)	14:14:47 1052
4 TEST LINES (HIGH)	14:15:32	1734	5 H2O SPACER	14:21:11	17.21	6 LEAD CEMENT	14:29:24 151.0
7 TAIL CEMENT	14:38:31	411.8	8 SHUTDOWN	14:47:04	129.4	9 DROP PLUG	14:47:42 19.00
10 H2O DISPLACEMENT	14:49:32	16.00	11 SLOW RATE	15:02:19	467.2	12 BUMP PLUG	15:06:02 290.0
13 CHECK FLOATS	15:08:07	809.5	14 END JOB	15:09:51	12.00		

Customer: WILLIAMS PRODUCTION RMT INC - EBUS
 Well Description: KP 334-8
 Company Rep: S.Mulherin

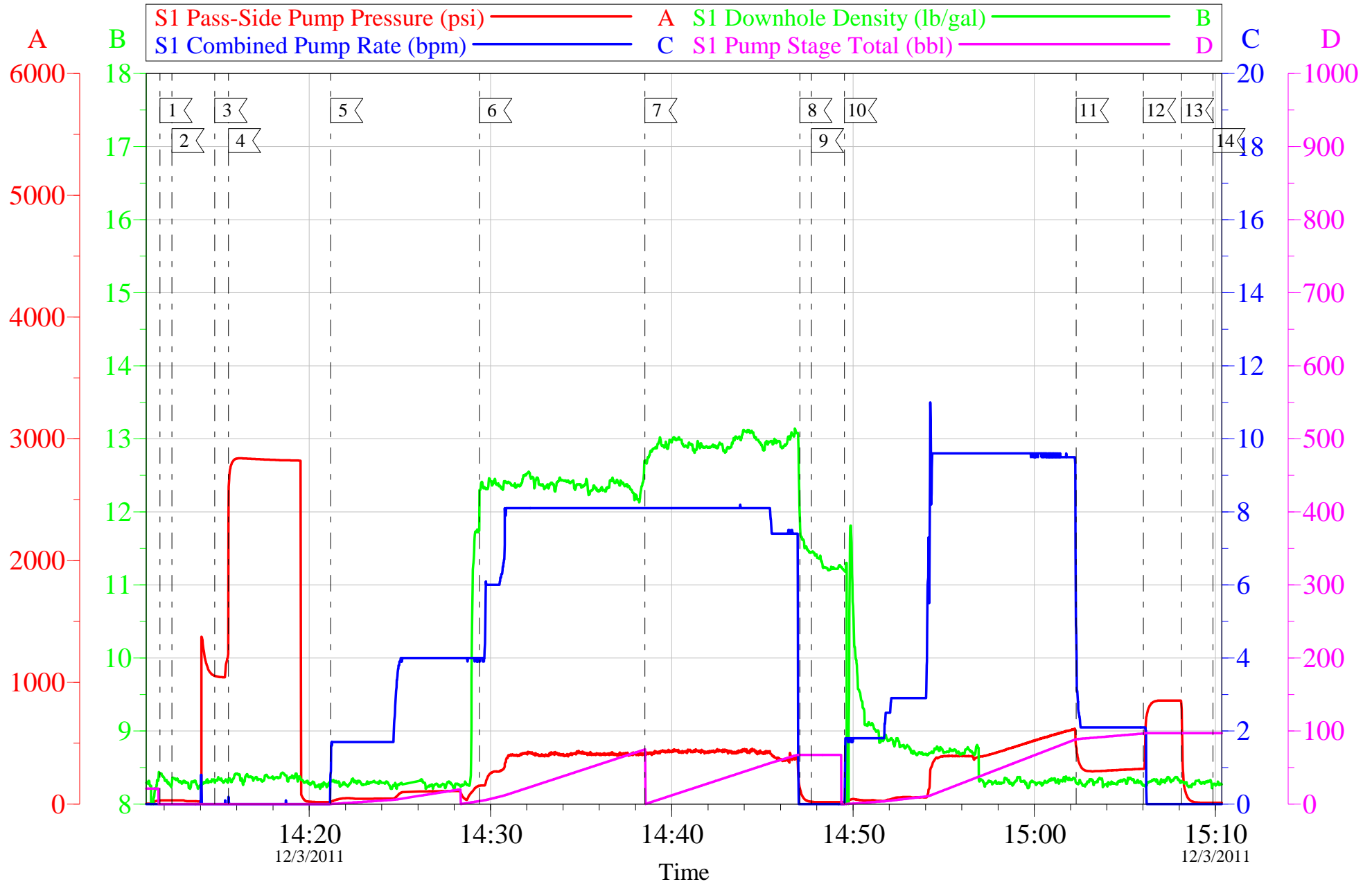
Job Date: 03-Dec-2011
 Job Type: 05-04-20987
 Cement Supervisor: C.Smith

Sales Order #: 9041275
 ADC Used: Yes
 Elite #4: R. EICKHOFF

OptiCem v6.4.10
 03-Dec-11 15:15

Williams - KP 334-8

9.625" Surface



Customer: WILLIAMS PRODUCTION RMT INC - EBUS
 Well Description: KP 334-8
 Company Rep: S.Mulherin

Job Date: 03-Dec-2011
 Job Type: 05-04-20987
 Cement Supervisor: C.Smith

Sales Order #: 9041275
 ADC Used: Yes
 Elite #4: R. EICKHOFF

OptiCem v6.4.10
 03-Dec-11 15:17

Sales Order #: 9041275	Line Item: 10	Survey Conducted Date: 12/3/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: SETH MULHERIN		API / UWI: (leave blank if unknown) 05-04-20987
Well Name: KP		Well Number: 334-8
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	12/3/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHRISTOPHER SMITH (HB20137)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	SETH MULHERIN
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	

CUSTOMER SIGNATURE

Sales Order #: 9041275	Line Item: 10	Survey Conducted Date: 12/3/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: SETH MULHERIN		API / UWI: (leave blank if unknown) 05-04-20987
Well Name: KP		Well Number: 334-8
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 The date the survey was conducted	12/3/2011

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	7
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

Sales Order #: 9041275	Line Item: 10	Survey Conducted Date: 12/3/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: SETH MULHERIN		API / UWI: (leave blank if unknown) 05-04-20987
Well Name: KP		Well Number: 334-8
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	96
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