
WILLIAMS PRODUCTION RMT INC - EBUS

**KP 331-17
KOKOPELLI
Garfield County , Colorado**

Cement Surface Casing
08-Jan-2012

Post Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 2896806		Quote #:		Sales Order #: 9133484	
Customer: WILLIAMS PRODUCTION RMT INC - EBUS				Customer Rep: Mulherin, Seth			
Well Name: KP			Well #: 331-17			API/UWI #: 05-045-20993	
Field: KOKOPELLI		City (SAP): SILT		County/Parish: Garfield		State: Colorado	
Lat: N 39.536 deg. OR N 39 deg. 32 min. 7.858 secs.				Long: W 107.58 deg. OR W -108 deg. 25 min. 13.184 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: SCOTT, KYLE			Srvc Supervisor: KUKUS, CRAIG			MBU ID Emp #: 369124	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BURKE, BRENDAN Patrick	6	487782	GOWEN, WESLEY M	6	496205	KUKUS, CRAIG A	6	369124
SMITH, DUSTIN Michael	6	418015						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025118	60 mile	10741259	60 mile	10784080	60 mile	10804579	60 mile
10871245	60 mile	11259883	60 mile	11360881	60 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
1/7/12	2	1	1/8/12	4	2			

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	07 - Jan - 2012	17:15	MST
Form Type		BHST	Job Started	07 - Jan - 2012	22:00	MST
Job depth MD	1305. ft	Job Depth TVD	Job Completed	08 - Jan - 2012	01:40	MST
Water Depth		Wk Ht Above Floor	Departed Loc	08 - Jan - 2012	02:36	MST
Perforation Depth (MD)	From	To		08 - Jan - 2012	04:00	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
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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	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

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

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	
2	VersaCem Lead	VERSACEM (TM) SYSTEM (452010)	190.0	sacks	12.3	2.38	13.75	7	13.75
	13.75 Gal	FRESH WATER							
3	VersaCem Tail	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	7	11.75
	11.75 Gal	FRESH WATER							
4	Displacement Fluid		98.00	bbl	8.34	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	98	Shut In: Instant		Lost Returns	0	Cement Slurry	140	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	30	Actual Displacement	98	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	259
Rates									
Circulating	RIG	Mixing	7	Displacement	10	Avg. Job	8.5		
Cement Left In Pipe	Amount	44.95 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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Field: KOKOPELLI	City (SAP): SILT	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.536 deg. OR N 39 deg. 32 min. 7.858 secs.		Long: W 107.58 deg. OR W -108 deg. 25 min. 13.184 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: SCOTT, KYLE		Srvc Supervisor: KUKUS, CRAIG	MBU ID Emp #: 369124

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	01/07/2012 17:15							
Depart Yard Safety Meeting	01/07/2012 19:00							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Arrive At Loc	01/07/2012 22:00							RIG JUST STARTED RUNNING CSG
Assessment Of Location Safety Meeting	01/07/2012 22:10							ASSESSMENT OF LOCATION INVOLVING THE ENTIRE CMT CREW
Pre-Rig Up Safety Meeting	01/07/2012 22:25							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Rig-Up Equipment	01/07/2012 22:30							RIG UP TO STAND PIPE / RIG UP WATER TO UP RIGHT AND DAY TANK
Circulate Well	01/08/2012 00:45							RIG CIRCULATE WELL THRU HES IRON
Pre-Job Safety Meeting	01/08/2012 01:30							SAFETY MEETING INVOLVING EVERYONE ON LOCATION
Start Job	01/08/2012 01:40							TD 1305 FT TP 1291 FT SJ 44.95 FT PIPE 9 5/8 IN 32.3 # OH 13.5 IN MUD WT 9.8#
Other	01/08/2012 01:40		2	2			67.0	FILL LINES WITH FRESH WATER
Pressure Test	01/08/2012 01:42		0.5			3500.0		PRESSURE TEST GOOD
Pump Spacer 1	01/08/2012 01:47		4	20			115.0	FRESH WATER SPACER
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl		Pressure psig		Comments

		#		Stage	Total	Tubing	Casing	
Pump Lead Cement	01/08/2012 01:55		7	80.5			380.0	PUMP 190 SKS LEAD CEMENT AT 12.3 PPG 2.38 Y 13.75 GAL/SKS
Pump Tail Cement	01/08/2012 02:08		7	60.1			370.0	PUMP 160 SKS TAIL CEMENT AT 12.8 PPG 2.11 Y 11.75 GAL/SKS
Shutdown	01/08/2012 02:17							READY TUB FOR WASH UP ON TOP OF PLUG
Drop Top Plug	01/08/2012 02:21							PLUG LEFT THE PLUG CONTAINER
Pump Displacement	01/08/2012 02:21		10	98.1			661.0	PUMP FRESH WATER DISPLACEMENT
Slow Rate	01/08/2012 02:32		2	88			270.0	SLOW RATE LAST 10 BBLS TO 2 BBL MIN
Bump Plug	01/08/2012 02:36		2	98.1			951.0	PLUG LANDED AT 280 PSI
Check Floats	01/08/2012 02:38							FLOATS HELD/ GOT 1/5 BBL BACK TO TANKS
End Job	01/08/2012 02:39							HAD GOOD CIRCULATION THRU THE JOB / GOT CEMENT TO SURFACE TOTAL 30 BBLS
Pre-Rig Down Safety Meeting	01/08/2012 02:42							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Rig-Down Equipment	01/08/2012 02:50							
Safety Meeting - Departing Location	01/08/2012 03:45							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Comment	01/08/2012 04:00							THANK YOU FOR USING HALLIBURTON, CRAIG KUKUS AND CREW

HALLIBURTON

Water Analysis Report

Company: WILLIAMS
Submitted by: CRAIGKUKUS
Attention: _____
Lease: KP
Well #: 331-17

Date: 1/7/2012
Date Rec.: 1/7/2012
S.O.#: 9133484
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	
pH	<i>8</i>	<i>7.5</i>
Potassium (K)	<i>5000</i>	<i>400</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>0</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>400</i> Mg / L
Sulfates (SO ₄)	<i>1500</i>	<i>below200</i> Mg / L
HARDNESS		<i>250</i> Mg / L
Temp	<i>40-80</i>	<i>42</i> Deg
Total Dissolved Solids		<i>810</i> Mg / L

Respectfully: CRAIGKUKUS

Title: CEMENTING SUPERVISOR

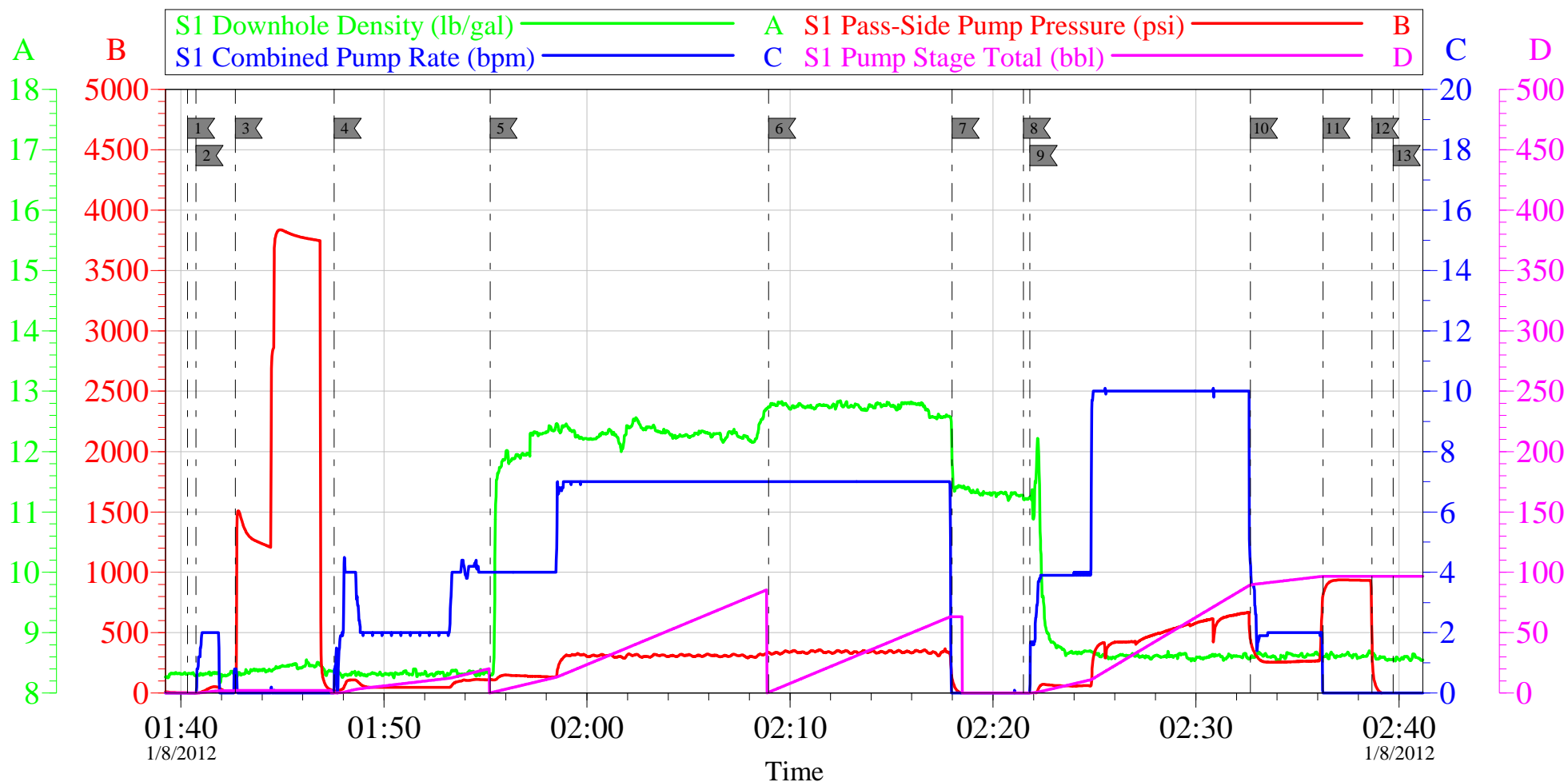
Location: GRANDJUNCTION CO

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

WILLIAMS PRODUCTION KP 331-17

9 5/8 SURFACE



Local Event Log

1 START JOB	01:40:20	2 PRIME LINES/PUMPS	01:40:44	3 PRESSURE TEST LINES	01:42:40
4 PUMP H2O SPACER AHEAD	01:47:33	5 PUMP LEAD CEMENT	01:55:14	6 PUMP TAIL CEMENT	02:08:57
7 SHUT DOWN/END TAIL CEMENT	02:17:59	8 DROP PLUG	02:21:30	9 PUMP H2O DISPLACEMENT	02:21:49
10 SLOW RATE	02:32:41	11 BUMP PLUG	02:36:15	12 CHECK FLOATS	02:38:40
13 END JOB	02:39:43				

Customer: **WILLIAMS PRODUCTION**
 Well Description: **KP 331-17**
 Company Rep: **SETH MULHERIN**

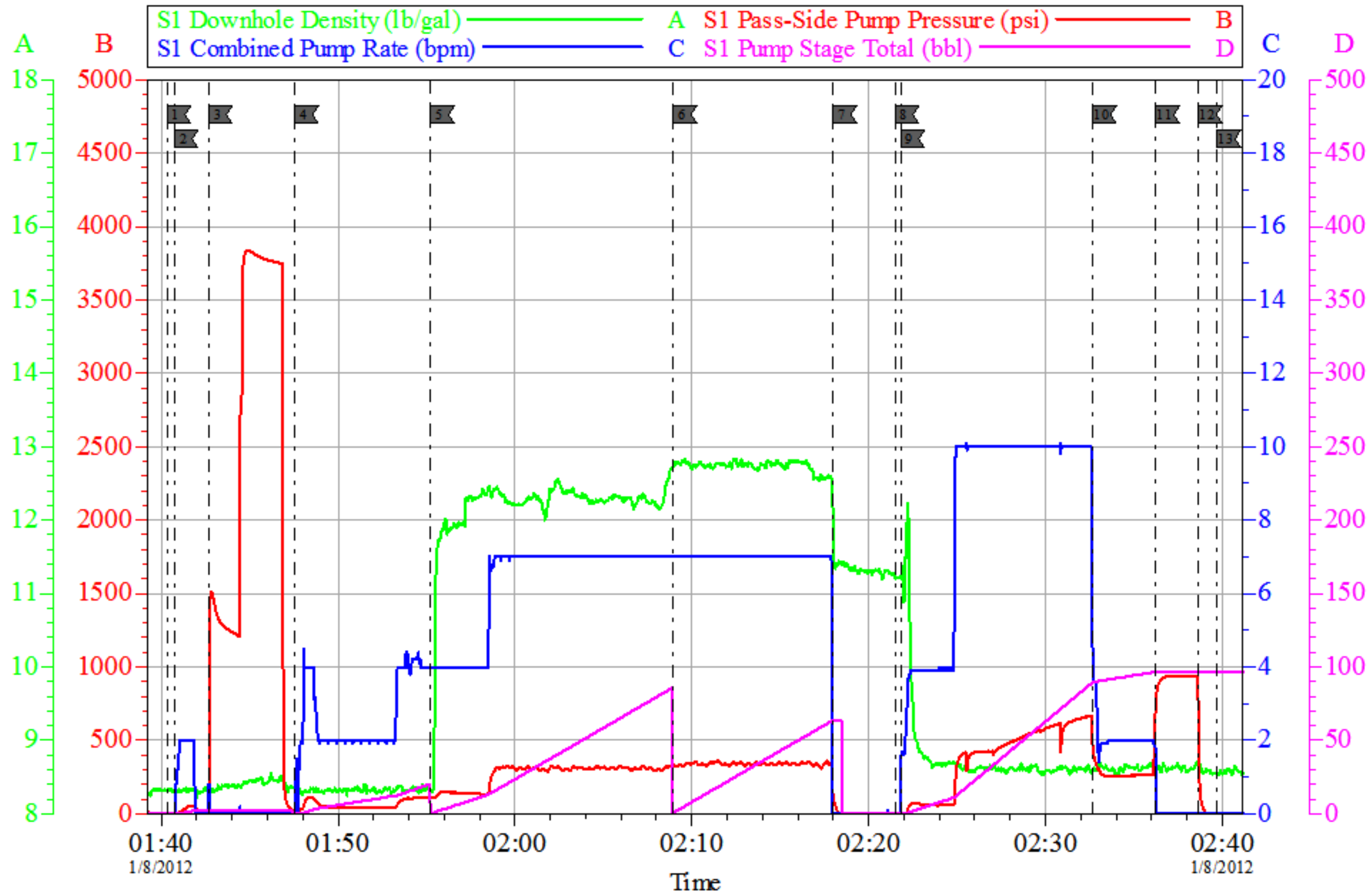
Job Date: **08-Jan-2012**
 Job Type: **SURFACE**
 Cement Supervisor: **CRAIG KUKUS**

Sales Order #: **9133484**
 ADC Used: **YES**
 Elite #/Operator: **E 8 BRENDAN BURKE**

OptiCem v6.4.8
 08-Jan-12 02:49

WILLIAMS PRODUCTION KP 331-17

9 5/8 SURFACE



Customer: **WILLIAMS PRODUCTION**
 Well Description: **KP 331-17**
 Company Rep: **SETH MULHERIN**

Job Date: **08-Jan-2012**
 Job Type: **SURFACE**
 Cement Supervisor: **CRAIG KUKUS**

Sales Order #: **9133484**
 ADC Used: **YES**
 Elite #/Operator: **E 8 BRENDAN BURKE**

OptiCem v6.4.8
 08-Jan-12 02:47

Sales Order #: 9133484	Line Item: 10	Survey Conducted Date: 1/8/2012
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: SETH MULHERIN		API / UWI: (leave blank if unknown) 05-045-20993
Well Name: KP		Well Number: 331-17
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	1/8/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CRAIG KUKUS (HX19742)
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

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Customer Representative: SETH MULHERIN		API / UWI: (leave blank if unknown) 05-045-20993
Well Name: KP		Well Number: 331-17
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	1/8/2012

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.	3
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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Well Name: KP		Well Number: 331-17
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	97
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	98
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