
WILLIAMS PRODUCTION RMT INC - EBUS

PA 332-7
Parachute
Garfield County , Colorado

Cement Surface Casing
11-Aug-2011

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2867465	Quote #:	Sales Order #: 8324444
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Customer Rep: Towers, Ron	
Well Name: PA		Well #: 332-7	API/UWI #: 05-045-20158
Field: Parachute	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.456 deg. OR N 39 deg. 27 min. 23.281 secs.		Long: W 108.044 deg. OR W -109 deg. 57 min. 22.342 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: KOHL, KYLE		Srvc Supervisor: HUGENTOBLE, LOGAN	MBU ID Emp #: 447333

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
COSTELDIA, BROCK James	13	476115	HUGENTOBLE, LOGAN Mark	13	447333	MCKAY, PATRICK Joseph	13	496671
SIMINEO, JEROD M	13	479954	ZUMWALT, ORVILLE Raymond	13	398157			

Equipment

HES Unit #	Distance-1 way						
10011429	60 mile	10564022	60 mile	10867094	60 mile	10897925	60 mile
10951247	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
8/11/11	13	2						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	10 - Aug - 2011	18:00	MST
Form Type		BHST	Job Started	10 - Aug - 2011	22:00	MST
Job depth MD	2060. ft	Job Depth TVD	2060. ft	Job Started	11 - Aug - 2011	07:11
Water Depth		Wk Ht Above Floor	4. ft	Job Completed	11 - Aug - 2011	08:38
Perforation Depth (MD)	<i>From</i>	<i>To</i>	Departed Loc	11 - Aug - 2011	11:00	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
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					Retainer					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	Water Spacer		20.00	bbl	8.34	.0	.0	6	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	325.0	sacks	12.3	2.38	13.75	8	13.75
	13.75 Gal	FRESH WATER							
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	6	11.75
	11.75 Gal	FRESH WATER							
4	Displacement Fluid		159.00	bbl	8.34	.0	.0	9.5	
Calculated Values		Pressures			Volumes				
Displacement	159	Shut In: Instant		Lost Returns	0	Cement Slurry	197	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	27	Actual Displacement	159	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing	8	Displacement	9	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					

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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. 23.281 secs.		Long: W 108.044 deg. OR W -109 deg. 57 min. 22.342 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: KOHL, KYLE		Srvc Supervisor: HUGENTOBLE, LOGAN	MBU ID Emp #: 447333

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	08/10/2011 18:00							
Pre-Convoy Safety Meeting	08/10/2011 20:00							ALL HES EMPLOYEES
Arrive At Loc	08/10/2011 22:00							RIG STILL RUNNING CASING
Assessment Of Location Safety Meeting	08/11/2011 04:45							ALL HES EMPLOYEES
Rig-Up Equipment	08/11/2011 05:00							1 HT-400 PUMP TRUCK, 1 660 BULK TRUCK, 1 F-450 P/U, 1 QUICK LATCH PLUG CONTAINER, 1 BODY LOAD, 1 BAIL BASKET & SWAGE, 1 BOOSTER PUMP & HOSES
Pre-Job Safety Meeting	08/11/2011 06:45							ALL HES EMPLOYEES, RIG CREW, CO REP AND ANY 3RD PARTY VENDORS
Start Job	08/11/2011 07:11							TP 2071 FT, TD 2060 FT, FC 2003 FT, HOLE 13.5", MUD WT 10.8 PPG, RATE WILL BE 8-10-2, WILL BUMP 500 PSI OVER LAND PSI, RIG CIRCULATED HOLE FOR 1 HRS
Pump Water	08/11/2011 07:12		2	2			95.0	FILL LINES PRIOR TO PRESSURE TESTING LINES
Pressure Test	08/11/2011 07:14							NO LEAKS, KICK OUTS SET TO 4000 PSI FOR TEST.

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	08/11/2011 07:23		6	20			179.0	FRESH WATER
Pump Lead Cement	08/11/2011 07:32		8	137			312.0	325 SKS VERSACEM CMT TO BE MIXED AT 12.3 PPG, 2.38 YIELD, 13.75 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES WET AND DRY SAMPLES SUBMITTED.
Pump Tail Cement	08/11/2011 07:53		6	60			188.0	160 SKS VERSACEM CMT TO BE MUIXED AT 12.8 PPG, 2.38 YIELD, 11.75 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES, WET AND DRY SAMPLES SUBMITTED,
Shutdown	08/11/2011 08:03							
Drop Plug	08/11/2011 08:08							PLUG LAUNCHED
Pump Displacement	08/11/2011 08:09		9.5	159			730.0	MUD FROM RIG WITH BOOSTER PUMP AND HOSES
Slow Rate	08/11/2011 08:29		2				336.0	10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	08/11/2011 08:31						902.0	PLUG LANDED, 27 BBLS CEMENT TO SURFACE
Check Floats	08/11/2011 08:34							FLOATS HOLDING
End Job	08/11/2011 08:38							THANK YOU FOR USING HES LOGAN HUGENTOBLER AND CREW
Post-Job Safety Meeting (Pre Rig-Down)	08/11/2011 08:45							ALL HES EMPLOYEES
Rig-Down Equipment	08/11/2011 09:00							
Pre-Convoy Safety Meeting	08/11/2011 10:55							ALL HES EMPLOYEES
Crew Leave Location	08/11/2011 11:00							LOCATION CLEAN

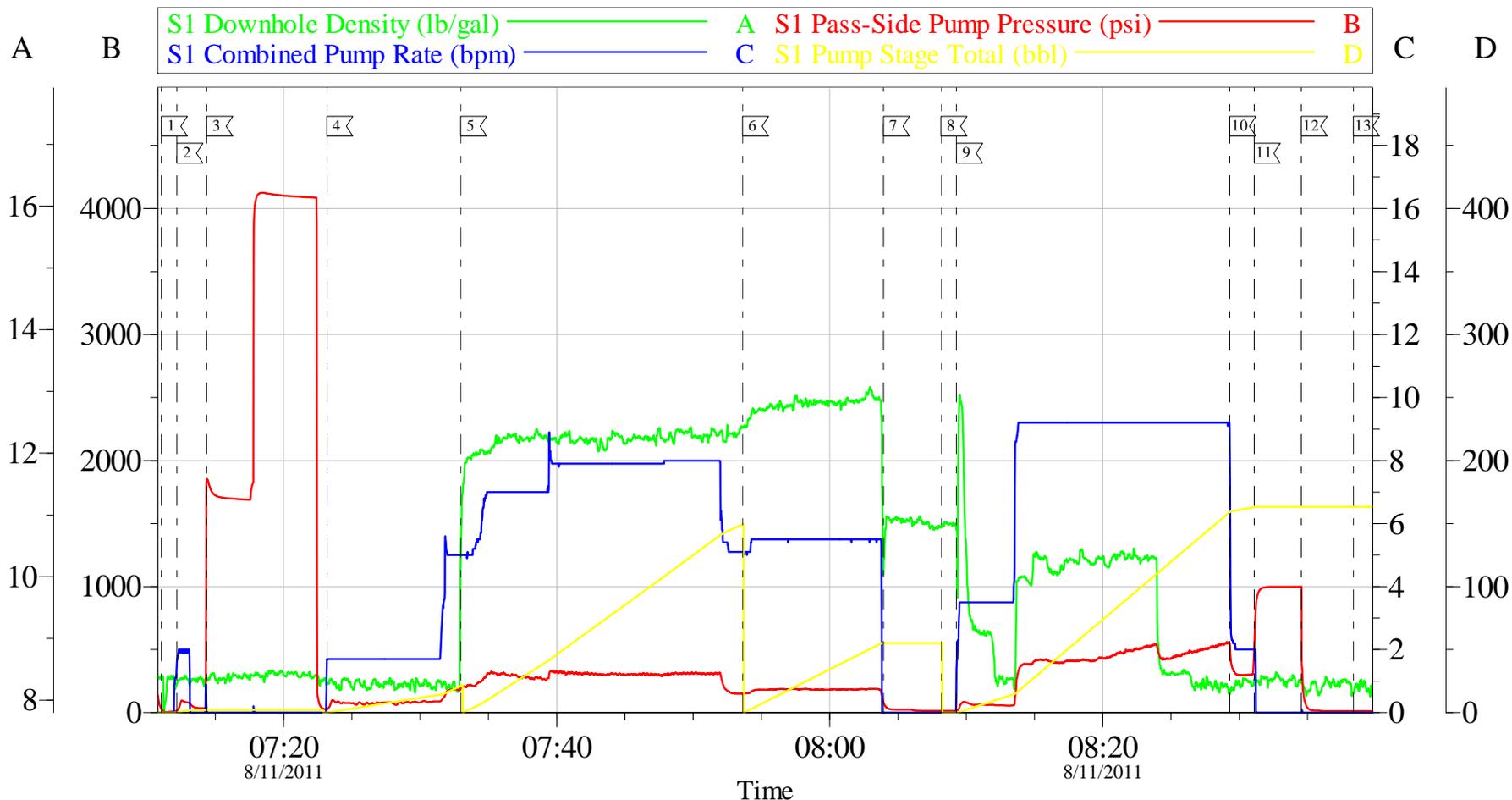
JOB PROCEDURE NABORS 574

Pre-Planned Job Procedure Surface Pipe

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job		DENSITY OVER RATE			
6	Test Lines	4000				
10	H2O Spacer	20.0		8.33		
	Lead Cement	137.8	325	12.3	2.38	13.75
15	Tail Cement	60.1	160	12.8	2.11	11.75
	Shut Down		500 psi over			
22	Drop Plug					
	Slow Rate	149.7				
23	Displace W/H2O	159.7				
26	Land Plug	172.0				
2	End Job					
			Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE+ LANDING	SHOE JOINT LENGTH	FLOAT COLLAR	BBL/FT	H2O REQ.	
159.68	2071	42.00	2029.00	0.0787	324	
PSI to Lift Pipe	758	*****Use Mud Scales on Each Tier*****				
Total Displacement	159.68					
CALCULATED DIFFERENTIAL PSI		172	TOTAL FLUID PUMPED		378	
Collapse	1400	Burst	2270	SO#	8324444	

WILLIAMS

9.625" SURFACE



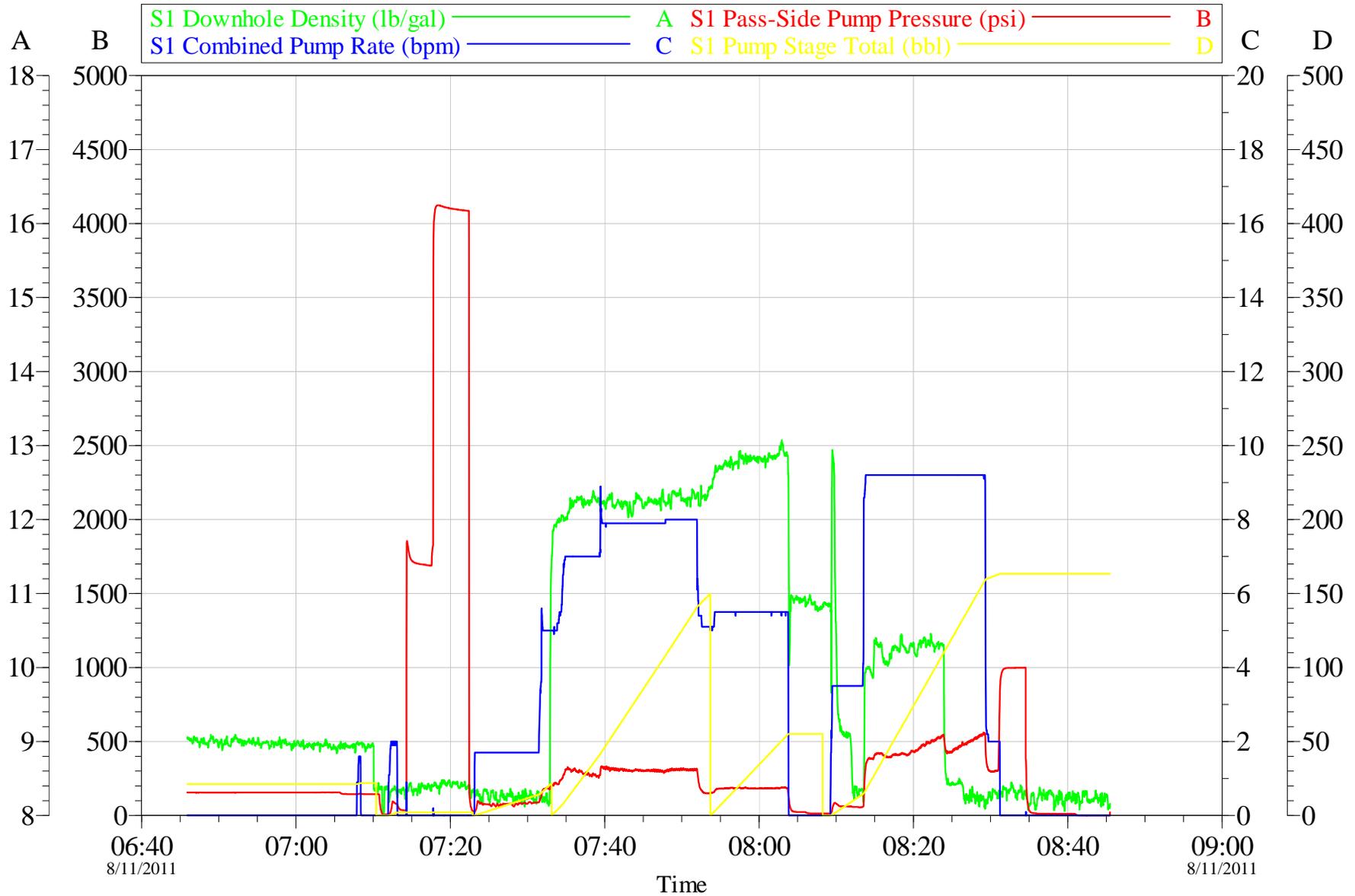
Local Event Log			
1 START JOB	07:11:03	2 PRIME LINES	07:12:11
			3 PRESSURE TEST 07:14:21
4 PUMP H2O SPACER	07:23:10	5 PUMP LEAD CEMENT	07:32:58
			6 PUMP TAIL CEMENT 07:53:37
7 SHUTDOWN	08:03:56	8 DROP PLUG	08:08:09
			9 PUMP MUD DISPLACEMENT 08:09:17
10 SLOW RATE	08:29:18	11 BUMP PLUG	08:31:06
			12 CHECK FLOATS 08:34:32
13 END JOB	08:38:21		

Customer: WILLIAMS	Job Date: 11-Aug-2011	Sales Order #: 8324444
Well Description: PA 332-7	Job Type: SURFACE	ADC Used: YES
Company Rep: RON TOWERS	Cement Supervisor: LOGAN HUGENTOBLER	Elite #5 / Operator: BROCK CASTELDIA

OptiCem v6.4.10
11-Aug-11 08:54

WILLIAMS

9.625" SURFACE



Customer: WILLIAMS	Job Date: 11-Aug-2011	Sales Order #: 8324444
Well Description: PA 332-7	Job Type: SURFACE	ADC Used: YES
Company Rep: RON TOWERS	Cement Supervisor: LOGAN HUGENTOBLER	Elite #5 / Operator: BROCK CASTELDIA

OptiCem v6.4.10
11-Aug-11 08:50

HALLIBURTON

Water Analysis Report

Company: WILLIAMS

Date: 8/11/2011

Submitted by: LOGAN HUGENTOBLER

Date Rec.: 8/11/2011

Attention: _____

S.O.# 8324444

Lease PA

Job Type: 9.625 SURFACE

Well # 332-7

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	0 Mg / L
Calcium (Ca)	<i>500</i>	320 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	below 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	65 Deg
Total Dissolved Solids		340 Mg / L

Respectfully: LOGAN HUGENTOBLER

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 #: 8324444	Line Item: 10	Survey Conducted Date: 8/11/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: RON TOWERS		API / UWI: (leave blank if unknown) 05-045-20158
Well Name: PA		Well Number: 332-7
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	8/11/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	LOGAN HUGENTOBLER (HB15210)
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 #: 8324444	Line Item: 10	Survey Conducted Date: 8/11/2011
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Customer Representative: RON TOWERS		API / UWI: (leave blank if unknown) 05-045-20158
Well Name: PA		Well Number: 332-7
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	8/11/2011
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

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Customer Representative: RON TOWERS		API / UWI: (leave blank if unknown) 05-045-20158
Well Name: PA		Well Number: 332-7
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	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	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