
WILLIAMS PRODUCTION RMT INC - EBUS

**GM 334-23
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing
23-Oct-2011

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2884187	Quote #:	Sales Order #: 8542172
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Customer Rep: Hartl, Al	
Well Name: GM		Well #: 334-23	API/UWI #: 05-045-20483
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.506 deg. OR N 39 deg. 30 min. 22.5 secs.		Long: W 108.083 deg. OR W -109 deg. 55 min. 1.099 secs.	
Contractor: NABORS		Rig/Platform Name/Num: NABORS 576	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: KOHL, KYLE		Srvc Supervisor: NICKLE, RYON	MBU ID Emp #: 454759

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANKS, BRENT A	5.5	371353	NICKLE, RYON	5.5	454759	TRIPLETT, MICHEAL Anthony	5.5	447908
WINKER, STEVEN	5.5	478776						

Equipment

HES Unit #	Distance-1 way						
10713212	60 mile	10871245	60 mile	10897849	60 mile	10951246	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
10/23/2011	3.5	0	10/23/2011	2	1			

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
					22 - Oct - 2011	17:00	MST
Form Type				On Location	22 - Oct - 2011	20:30	MST
Job depth MD	990. ft		Job Depth TVD	Job Started	23 - Oct - 2011	00:10	MST
Water Depth			Wk Ht Above Floor	Job Completed	23 - Oct - 2011	00:59	MST
Perforation Depth (MD)	<i>From</i>		<i>To</i>	Departed Loc	23 - Oct - 2011	02:00	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, HW, 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 lbm/gal	Yield ft ³ /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	Water Spacer		20.00	bbl	8.34			8	
2	Tail Cement	VERSACEM (TM) SYSTEM (452010)	265.0	sacks	12.8	2.11	11.75	8	11.75
3	Displacement Fluid		73.70	bbl	8.34			10	
Calculated Values		Pressures			Volumes				
Displacement	73.7	Shut In: Instant		Lost Returns	0	Cement Slurry	99.6	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	10	Actual Displacement	73.7	Treatment	
Frac Gradient		15 Min		Spacers	1	Load and Breakdown		Total Job	194
Rates									
Circulating	8	Mixing		8	Displacement	10	Avg. Job		9
Cement Left In Pipe	Amount	43.51 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					

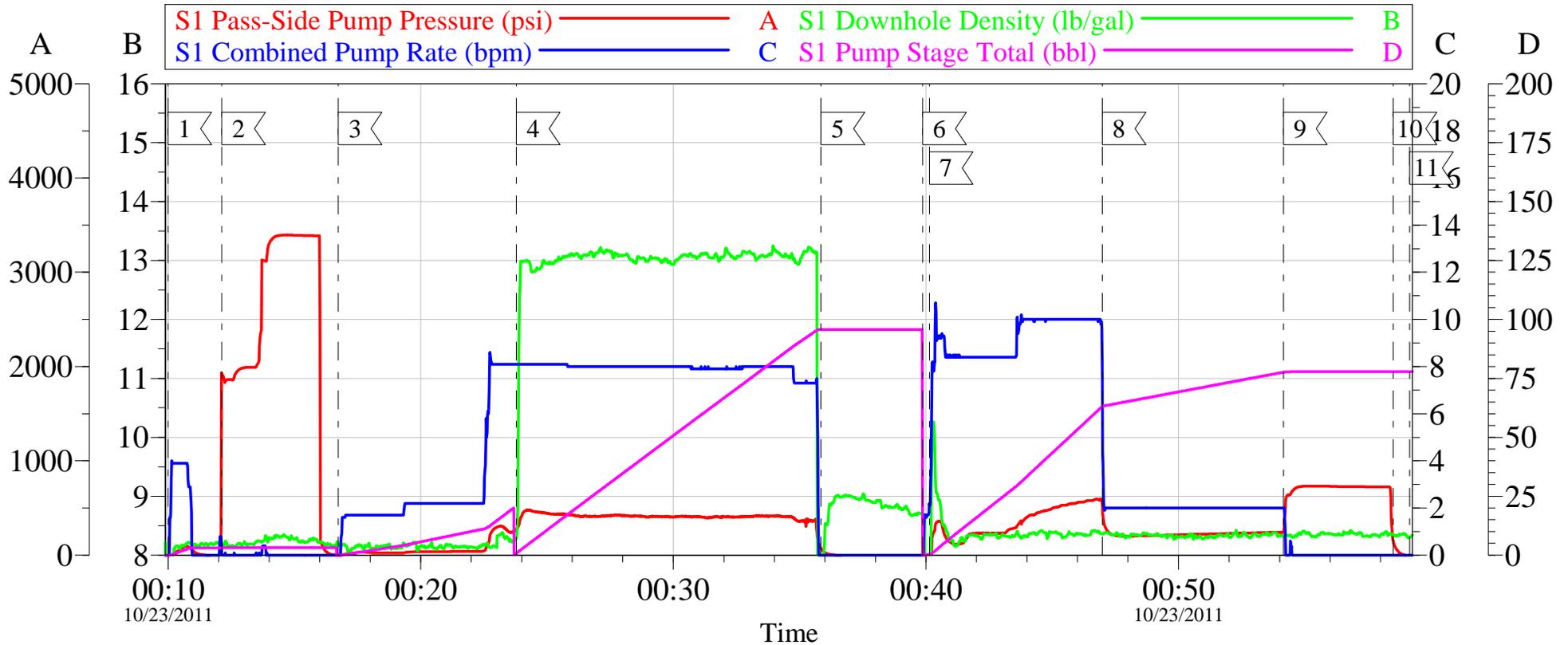
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Well Name: GM		Well #: 334-23	API/UWI #: 05-045-20483
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.506 deg. OR N 39 deg. 30 min. 22.5 secs.		Long: W 108.083 deg. OR W -109 deg. 55 min. 1.099 secs.	
Contractor: NABORS		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		Srvc Supervisor: NICKLE, RYON	MBU ID Emp #: 454759

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/22/2011 17:00							
Pre-Convoy Safety Meeting	10/22/2011 18:55							
Crew Leave Yard	10/22/2011 19:00							
Arrive At Loc	10/22/2011 20:30							
Assessment Of Location Safety Meeting	10/22/2011 20:40							
Other	10/22/2011 22:30							SPOT EQUIPMENT, 1 RCM PUMP, 1 660
Pre-Rig Up Safety Meeting	10/22/2011 22:40							REVIEW JSA AND HAVE CREW SIGN
Rig-Up Equipment	10/22/2011 22:45							
Pre-Job Safety Meeting	10/23/2011 00:00							REVIEW JOB PROCEDURES AND SAFETY INFORMATION
Start Job	10/23/2011 00:10							TD:995, TP:980, SJ:43.51, MW:9.7, CASING: 9.625 32.3#, OH: 13.5,
Test Lines	10/23/2011 00:12						3410	TEST LINES, PRESSURE TEST PUMP AND LINE. STARTED AT 3410 PSI, ENDED AT 3401 PSI, LOST 9 PSI OVER 2 MIN
Pump Spacer	10/23/2011 00:16		8	20			262.0	WATER
Pump Tail Cement	10/23/2011 00:23		8	99.58			460.0	265 SACKS MIXED @ 12.8, 2.11 YIELD, 11.75 GAL/SACK

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	10/23/2011 00:35							
Drop Top Plug	10/23/2011 00:39							VERIFIED PLUG LEFT
Pump Displacement	10/23/2011 00:40		10	73.7			556.0	FRESH WATER, WASHED UP ON TOP PER COMPANY REP
Slow Rate	10/23/2011 00:46		2	63.7			220.0	SLOWED RATE LAST 10BBLs OF DISPLACEMENT
Bump Plug	10/23/2011 00:54			73.7			242.0	BUMP PLUG AND WENT 500PSI OVER
Check Floats	10/23/2011 00:58							FLOATS HELD
End Job	10/23/2011 00:59							HAD GOOD CIRCULATION THROUGHOUT JOB, RECEIVED CEMENT BACK WITH 65 BBLs OF DISPLACEMENT AWAY. RECEIVED 10 BBLs CEMENT TO SURFACE. NO ADDITIONAL HOURS ADDED. USED 80 LBS OF SUGAR.
Post-Job Safety Meeting (Pre Rig-Down)	10/23/2011 01:00							
Rig-Down Equipment	10/23/2011 01:15							
Pre-Convoy Safety Meeting	10/23/2011 01:55							
Crew Leave Location	10/23/2011 02:00							THANKS FOR USING HALLIBURTON RYON NICKLE AND CREW

WILLIAMS SURFACE GM 334-23

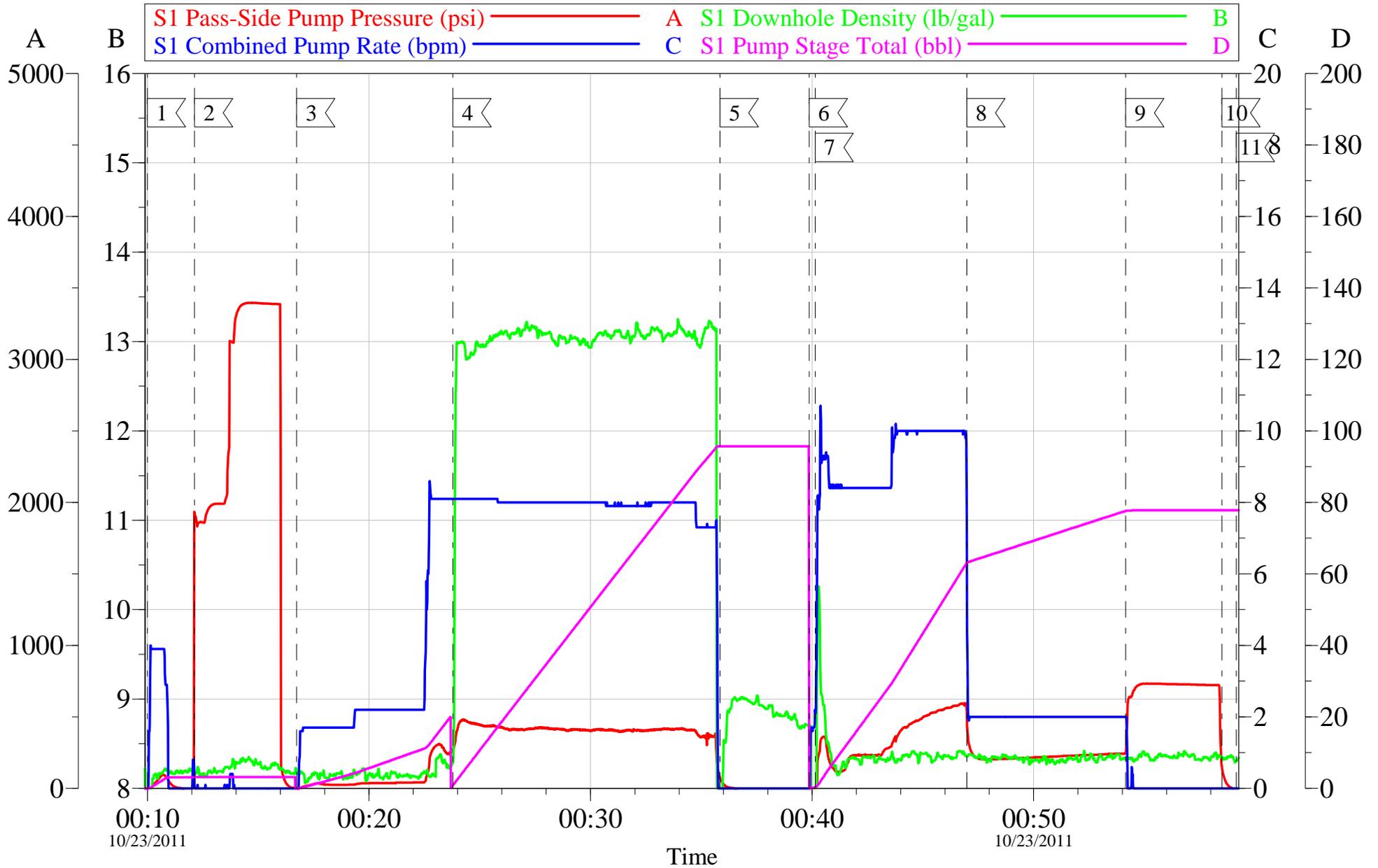


Local Event Log

1	START JOB	00:10:00	2	PRESSURE TEST	00:12:08
3	START FRESH WATER SPACER	00:16:44	4	START TAIL CEMENT	00:23:47
5	SHUTDOWN	00:35:51	6	DROP PLUG	00:39:52
7	START DISPLACEMENT	00:40:08	8	SLOWRATE	00:46:59
9	BUMP PLUG	00:54:09	10	CHECK FLOATS	00:58:30
11	END JOB	00:59:09			

Customer:	WILLIAMS	Job Date:	22-Oct-2011	Sales Order #:	8542172
Well Description:	GM 334-23	JOB TYPE:	SURFACE	COMPANY REP:	B. KLATT
ADC USED:	YES	SERVICE SUPERVISOR:	RYON NICKLE	ELITE/OPERATER	BRENT BANKS

WILLIAMS SURFACE GM 334-23



Customer: WILLIAMS	Job Date: 22-Oct-2011	Sales Order #: 8542172
Well Description: GM 334-23	JOB TYPE: SURFACE	COMPANY REP: B. KLATT
ADC USED: YES	SERVICE SUPERVISOR: RYON NICKLE	ELITE/OPERATER BRENT BANKS

HALLIBURTON

Water Analysis Report

Company: WILLIAMS Date: 10/22/2011
Submitted by: RYON NICKLE Date Rec.: 10/22/2011
Attention: LAB S.O.# 8542171
Lease GM Job Type: SURFACE
Well # 334-23

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	450 Mg / L
Calcium (Ca)	<i>500</i>	250 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	-200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	55 Deg
Total Dissolved Solids		120 Mg / L

Respectfully: RYON NICKLE

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

Sales Order #: 8542172	Line Item: 10	Survey Conducted Date: 10/23/2011
Customer: WILLIAMS PRODUCTION RMT INC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: BRIAN KLATT		API / UWI: (leave blank if unknown) 05-045-20483
Well Name: GM		Well Number: 334-23
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	10/23/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	RYON NICKLE (HB22175)
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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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	10/23/2011
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)	3
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)	1
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	7
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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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	95
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