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**OXY GRAND JUNCTION EBUSINESS**

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**CC 697-08-52B  
GRAND VALLEY  
Garfield County , Colorado**

**Cement Surface Casing  
12-Sep-2011**

**Job Site Documents**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 344034	<b>Ship To #:</b> 8444753	<b>Quote #:</b>	<b>Sales Order #:</b> 8444753
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Customer Rep:</b> Benevides, Victor	
<b>Well Name:</b> CC	<b>Well #:</b> 697-08-52B	<b>API/UWI #:</b> 05-045-20062	
<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b>	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.534 deg. OR N 39 deg. 32 min. 1.882 secs.		<b>Long:</b> W 108.242 deg. OR W -109 deg. 45 min. 29.329 secs.	
<b>Contractor:</b> H&P Drilling		<b>Rig/Platform Name/Num:</b> H&P 330	
<b>Job Purpose:</b> Cement Surface Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> HIMES, JEFFREY		<b>Srvc Supervisor:</b> TRIPLETT, MICHEAL	<b>MBU ID Emp #:</b> 447908

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DEUSSEN, EDWARD Eric	15.5	485182	HARDRICK, RAYMOND Frank	15.5	391324	SPARKS, CLIFFORD Paul	15.5	502476
TRIPLETT, MICHEAL Anthony	15.5	447908						

**Equipment**

HES Unit #	Distance-1 way						
10001431	240 mile	10567589C	240 mile	10724643	240 mile	10951246	240 mile
10995027	240 mile						

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
09/12/2011	15.5	8						

**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	12 - Sep - 2011	07:15	MST
Form Type	BHST		Job Started	12 - Sep - 2011	11:05	MST
Job depth MD	2711. ft	Job Depth TVD	2711. ft	Job Completed	12 - Sep - 2011	21:32
Water Depth		Wk Ht Above Floor	4. ft	Departed Loc	12 - Sep - 2011	22:00
Perforation Depth (MD)	From	To				

**Well Data**

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbf/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
14 3/4" Open Hole				14.75				.	2700.		
9 5/8" Surface Casing	New		9.625	8.921	36.		J-55	.	2700.		

**Sales/Rental/3<sup>rd</sup> 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 lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Spacer		20.00	bbl	8.33	.0	.0	.0	
2	Gel Spacer		20.00	bbl	.	.0	.0	.0	
3	Water Spacer		20.00	bbl	.	.0	.0	.0	
4	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	1049.0	sacks	12.3	2.33	12.62		12.62
	12.62 Gal	FRESH WATER							
5	VersaCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	170.0	sacks	12.8	2.07	10.67		10.67
	10.67 Gal	FRESH WATER							
6	Displacement		204.00	bbl	.	.0	.0	.0	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)	84.0	sacks	12.5	1.97	10.96		10.96
	10.96 Gal	FRESH WATER							
Calculated Values		Pressures			Volumes				
Displacement	204.3	Shut In: Instant		Lost Returns	ALL	Cement Slurry		Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	9	Actual Displacement	204.3	Treatment	
Frac Gradient		15 Min		Spacers	0	Load and Breakdown		Total Job	762
Rates									
Circulating	6	Mixing		6	Displacement	6	Avg. Job		6
Cement Left In Pipe	Amount	43.92 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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<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b>	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
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<b>Contractor:</b> H&P Drilling		<b>Rig/Platform Name/Num:</b> H&P 330	
<b>Job Purpose:</b> Cement Surface Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> HIMES, JEFFREY		<b>Srvc Supervisor:</b> TRIPLETT, MICHEAL	<b>MBU ID Emp #:</b> 447908

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/12/2011 01:00							
Pre-Convoy Safety Meeting	09/12/2011 04:15							
Crew Leave Yard	09/12/2011 04:30							
Arrive At Loc	09/12/2011 07:15							RIG WAS STILL RUNNING CASING, STAYED CLEAR UNTIL RIG WAS DONE
Assessment Of Location Safety Meeting	09/12/2011 07:20							
Other	09/12/2011 08:30							SPOT EQUIPMENT, 1 RCM PUMP, 1 660
Pre-Rig Up Safety Meeting	09/12/2011 08:40							GO OVER JSA AND HAVE CREW SIGN.
Rig-Up Equipment	09/12/2011 08:45							
Pre-Job Safety Meeting	09/12/2011 10:45							GO OVER JOB PROCEDURES AND SAFETY INFORMATION.
Start Job	09/12/2011 11:04							TD:2711', TP:2691', SJ:47.92', MW:9.2 PPG, CASING: 9.625 36#, OH: 14.75", YP: PV: TEMP:
Test Lines	09/12/2011 11:07							PRESSURE TEST PUMPS AND LINES, STARTED AT 4242 PSI, ENDED AT 4212 PSI, LOST 30 PSI IN TWO MINUTES.
Pump Spacer 1	09/12/2011 11:15		6	20			160.0	FRESH WATER
Pump Spacer 2	09/12/2011 11:20		6	20			165.0	LGC 2.5 GALLONS PER 10 BBLS

Sold To # : 344034

Ship To # :8444753

Quote # :

Sales Order # : 8444753

SUMMIT Version: 7.2.27

Thursday, September 15, 2011 04:47:00

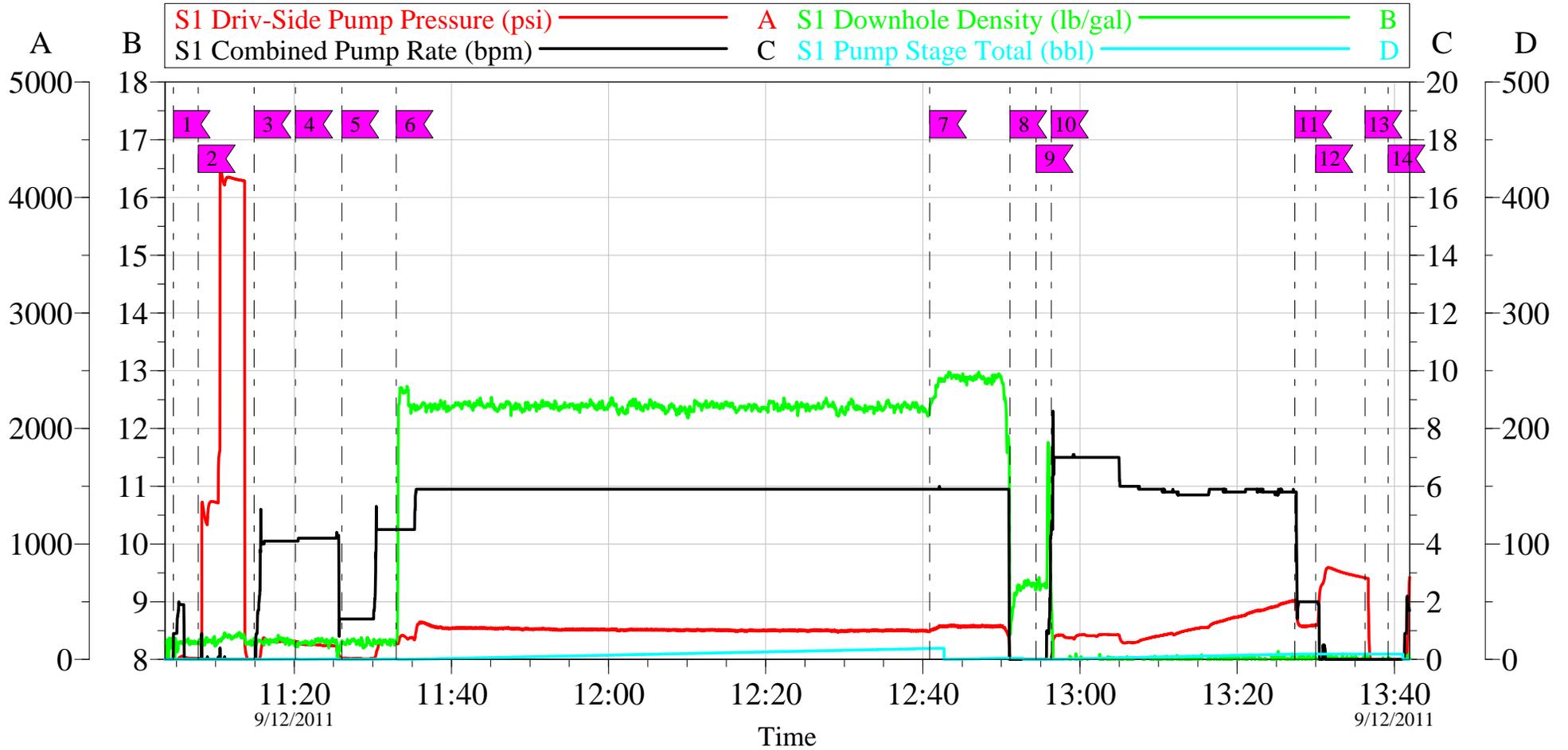
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 3	09/12/2011 11:26		6	20			167.0	FRESH WATER.
Pump Lead Cement	09/12/2011 11:32		6	435.3			281.0	1049 SACKS MIXED @ 12.3, 2.33 YIELD, 12.62 GAL/SACK
Pump Tail Cement	09/12/2011 12:42		6	62.7			230.0	170 SACKS MIXED @ 12.8, 2.07 YIELD, 10.67 GAL/SACK
Shutdown	09/12/2011 12:50							
Drop Top Plug	09/12/2011 12:54							VERIFY PLUG LEFT
Pump Displacement	09/12/2011 12:55		6	204.3			520.0	FRESHWATER, PUMPED 7 BBLS/MIN FOR 60 BBLS, THEN 6 BBLS/MIN REST OF JOB.
Slow Rate	09/12/2011 13:27		2	194.3			320.0	SLOWED RATE LAST 10BBLS OF DISPLACEMENT
Bump Plug	09/12/2011 13:30			204.3			330.0	BUMP PLUG AND WENT 500PSI OVER TO 860PSI
Check Floats	09/12/2011 13:36							FLOATS HELD
End Job	09/12/2011 13:38							HAD NO CIRCULATION THROUGHOUT THE JOB. TRIED TO PRESSURE TEST CASING WOULDN'T HOLD PRESSURE, RIG TRIED AND STILL DIDN'T HOLD PRESSURE. CASING HAS A LEAK SOMEWHERE.
Other	09/12/2011 13:40							WAIT ON SURFACE CEMENT TO SET FOR 2 HOURS.
Start Job	09/12/2011 16:04							START TOPOUT JOB 1
Pump Spacer 1	09/12/2011 16:05		1	2			30.0	FRESH WATER
Pump Cement	09/12/2011 16:13		3	48			115.0	137 SACKS MIXED @ 12.5, 1.97 YIELD, 10.96 GALS/SACK.
Pump Displacement	09/12/2011 16:30		3	1			115.0	PUMPED FRESH WATER TO CLEANLINES AND 1" TUBING

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
End Job	09/12/2011 16:31							NO CEMENT TO SURFACE
Other	09/12/2011 16:35							WAITING FOR TOPOUT TO SETUP FOR TWO HOURS.
Start Job	09/12/2011 18:54							START TOPOUT JOB #2
Pump Spacer	09/12/2011 18:55		1	1			35.0	FRESHWATER TO MAKE SURE LINE IS CLEAR.
Pump Cement	09/12/2011 18:56		3	37			85.0	106 SACKS MIXED @12.5, 1.97 YIELD, 10.96 GAL/SACK
Pump Displacement	09/12/2011 19:09		1	3			85.0	FRESHWATER BEHIND TO CLEAN 1" LINE.
End Job	09/12/2011 19:10							NO CEMENT TO SURFACE
Other	09/12/2011 19:15							WAIT ON TOPOUT CEMENT TO SET UP FOR TWO HOURS.
Start Job	09/12/2011 21:04							TOPOUT # 3
Pump Spacer	09/12/2011 21:07		1	1			35.0	FRESHWATER TO MAKE SURE LINE IS CLEAR.
Pump Cement	09/12/2011 21:09		3	29.4			40.0	84 SACKS MIXED @ 12.5 PPG, 1.97 YIELD, 10.96 GALS/SACK
Shutdown	09/12/2011 21:30							
End Job	09/12/2011 21:32							GOT CEMENT TO SURFACE WITH 20.3 BBLS AWAY, SHUTDOWN LET CEMENT SET FOR 8 MINUTES THEN PUMPED 9 MORE BBLS AND GOT 8 BBLS BACK TO SURFACE. CHARGED 4 ADDITIONAL HOURS. 50#'S OF SUGAR USED. 380 SACKS OF TOPOUT ADDED TO THE TICKET.
Post-Job Safety Meeting (Pre Rig-Down)	09/12/2011 21:33							
Rig-Down Equipment	09/12/2011 21:45							

Pre-Convoy Safety Meeting	09/12/2011 22:55							
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Crew Leave Location	09/12/2011 23:00							THANKS FOR USING HALLIBURTON MIKE TRIPLETT AND CREW

# OXY

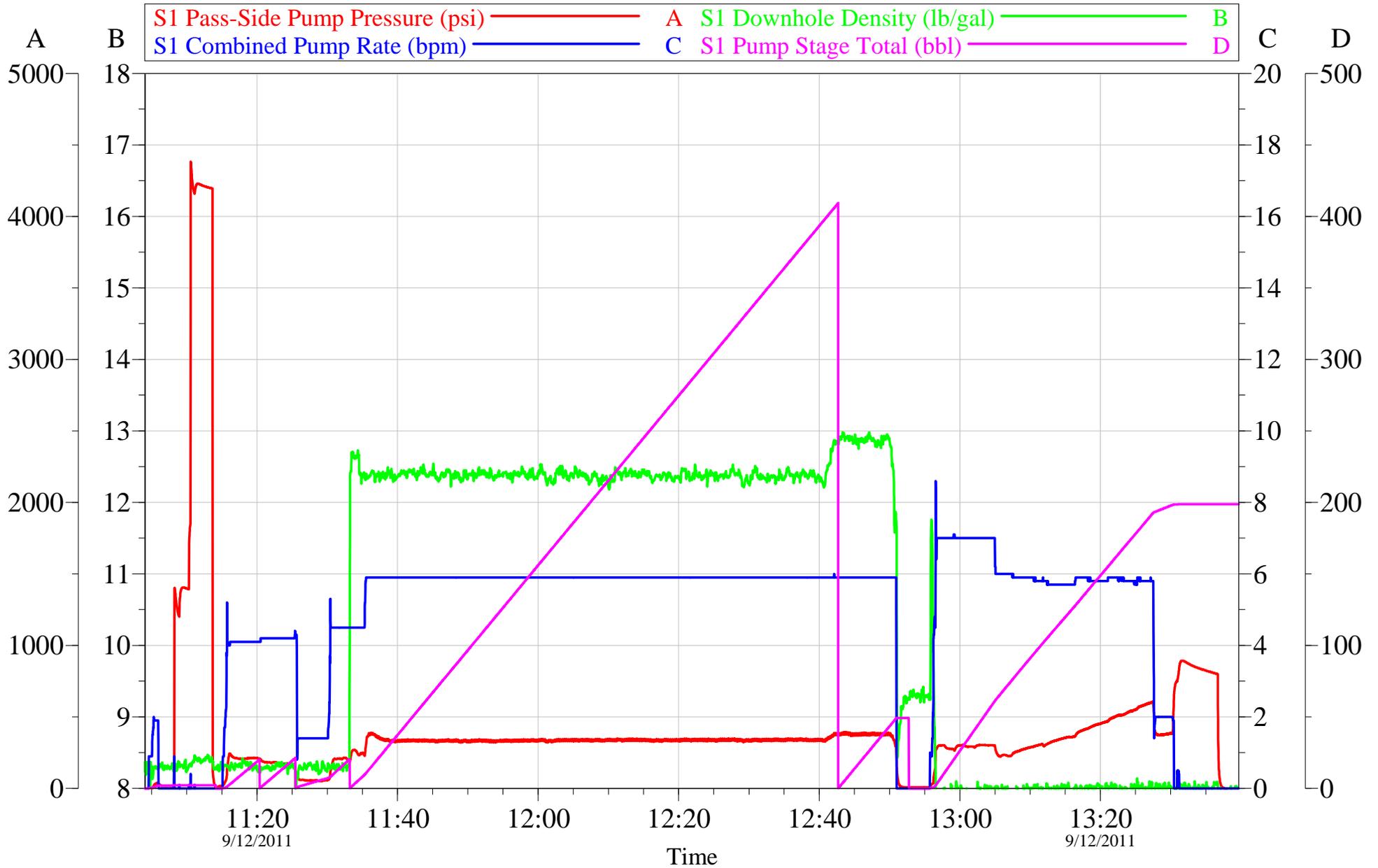
## SURFACE CC 697-08-52B



Local Event Log			
1	START JOB	11:04:37	
2	TEST LINES	11:07:47	
3	PUMP SPACER 1	11:14:54	
4	PUMP SPACER 2	11:20:10	
5	PUMP SPACER 3	11:26:03	
6	PUMP LEAD CEMENT	11:32:58	
7	PUMP TAIL CEMENT	12:40:52	
8	SHUTDOWN	12:51:05	
9	DROP PLUG	12:54:24	
10	PUMP DISPLACEMENT	12:56:22	
11	SLOW RATE	13:27:21	
12	BUMP PLUG	13:30:01	
13	CHECK FLOATS	13:36:16	
14	END JOB	13:39:13	

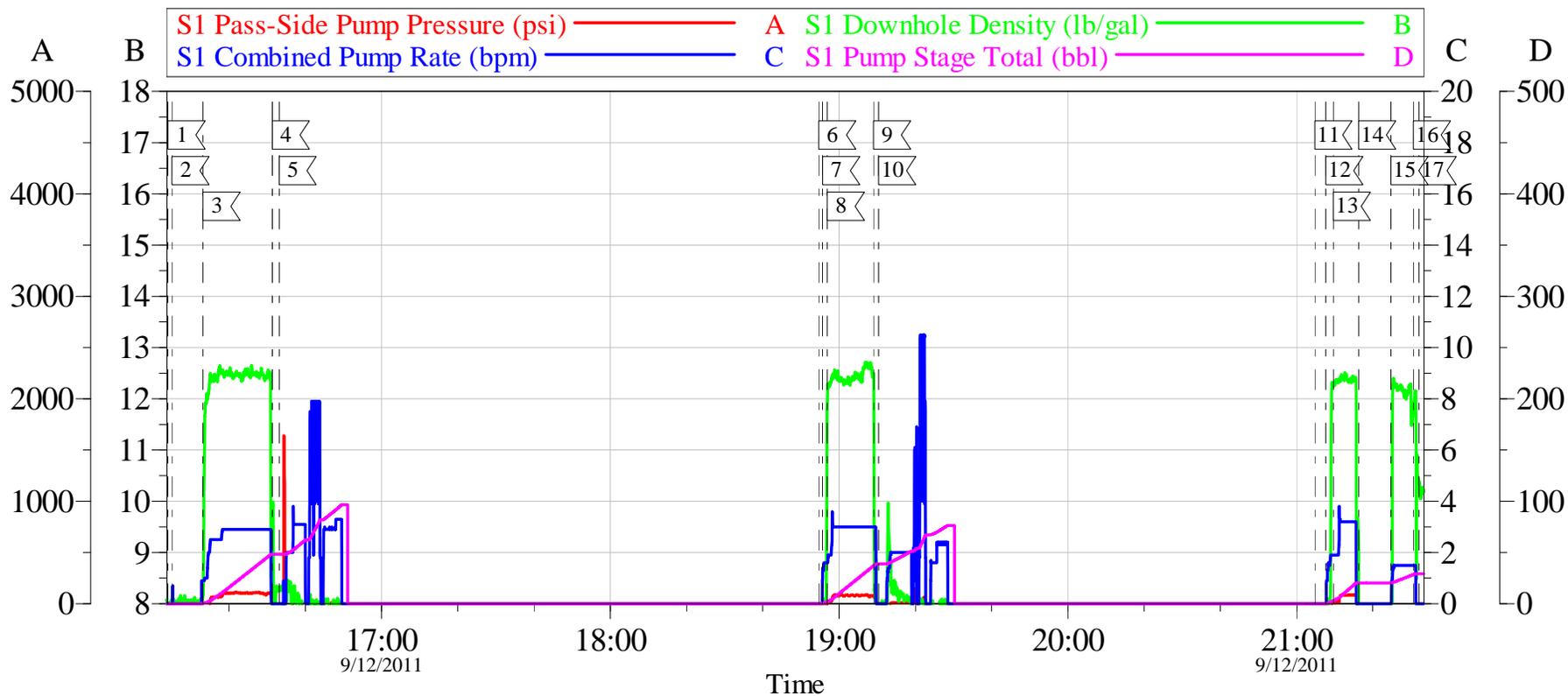
Customer: OXY	Job Date: 12-Sep-2011	Sales Order #: 8444753
Well Description: CC 697-08-52B	JOB TYPE: SURFACE	COMPANY REP: JEFF GILL
ADC USED: YES	SERVICE SUPERVISOR: MIKE TRIPLETT	ELITE/OPERATER 3/ED DEUSSEN

# OXY SURFACE CC 697-08-52B



Customer: OXY	Job Date: 12-Sep-2011	Sales Order #: 8444753
Well Description: CC 697-08-52B	JOB TYPE: SURFACE	COMPANY REP: JEFF GILL
ADC USED: YES	SERVICE SUPERVISOR: MIKE TRIPLETT	ELITE/OPERATER 3/ ED DEUSSEN

# OXY TOPOUT CC 697-08-52B

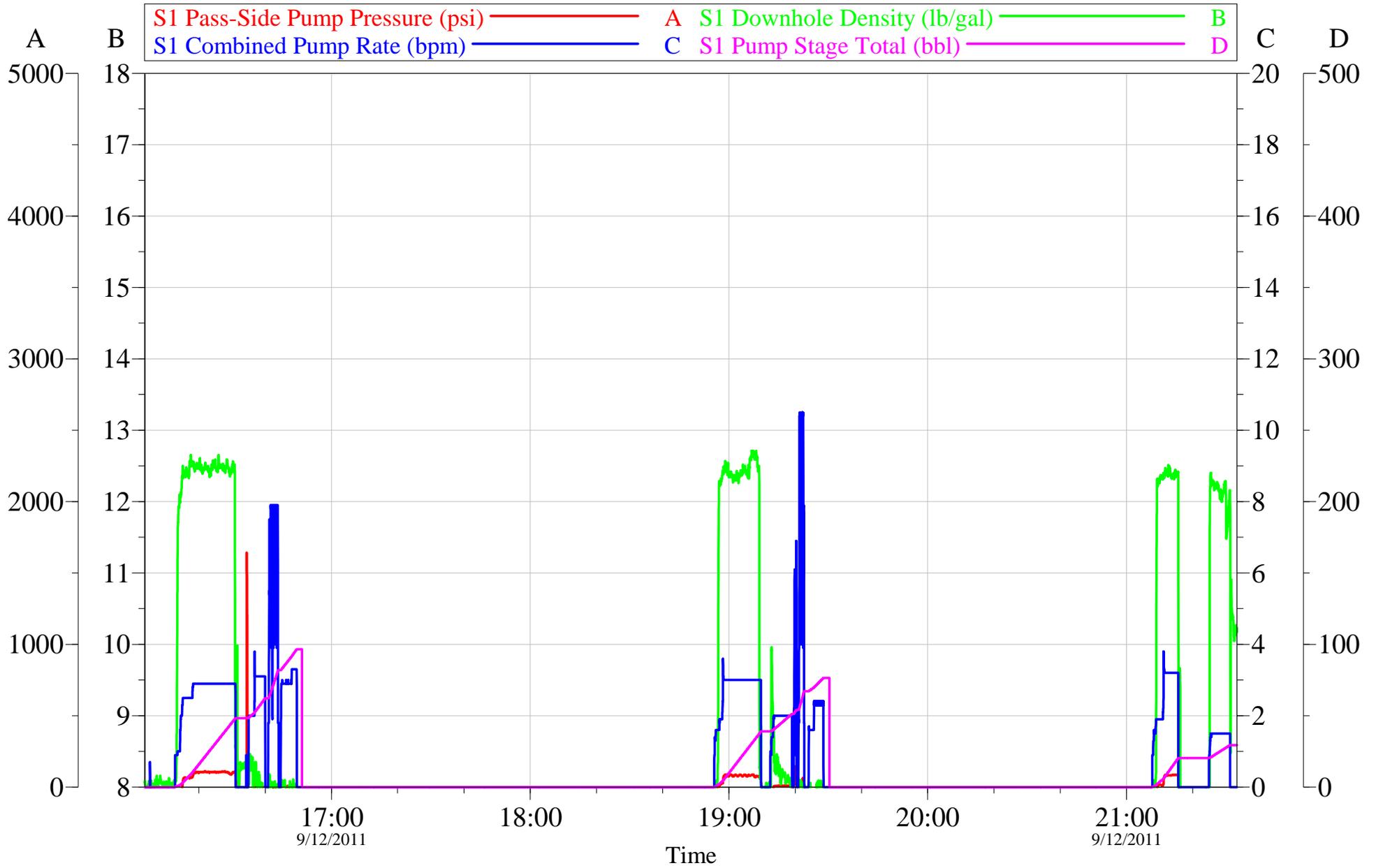


Local Event Log								
1	START TOPOUT #1	16:03:59	2	FRESHWATER SPACER	16:05:02	3	CEMENT	16:13:10
4	END JOB	16:31:20	5	DISPLACEMENT	16:33:07	6	START TOPOUT #2	18:54:39
7	FRESHWATER SPACER	18:55:41	8	CEMENT	18:56:53	9	DISPLACEMENT	19:09:01
10	END JOB	19:10:24	11	START TOPOUT # 3	21:04:47	12	FRESHWATER SPACER	21:07:41
13	PUMP CEMENT	21:09:39	14	SHUTDOWN	21:16:15	15	PUMP CEMENT	21:24:44
16	SHUTDOWN	21:30:37	17	END JOB	21:32:08			

Customer: OXY	Job Date: 12-Sep-2011	Sales Order #: 8444753
Well Description: CC 697-08-52B	JOB TYPE: SURFACE	COMPANY REP: JEFF GILL
ADC USED: YES	SERVICE SUPERVISOR: MIKE TRIPLETT	ELITE/OPERATER 3/ ED DEUSSEN

OptiCem v6.4.9  
12-Sep-11 21:41

# OXY TOPOUT CC 697-08-52B



Customer: OXY	Job Date: 12-Sep-2011	Sales Order #: 8444753
Well Description: CC 697-08-52B	JOB TYPE: SURFACE	COMPANY REP: JEFF GILL
ADC USED: YES	SERVICE SUPERVISOR: MIKE TRIPLETT	ELITE/OPERATER 3/ ED DEUSSEN

# HALLIBURTON

## Water Analysis Report

Company: WILLIAMS

Date: 12/21/2010

Submitted by: MIKE TRIPLETT

Date Rec.: 9/12/2011

Attention: LAB

S.O.# 8444753

Lease CASCADE CREEK

Job Type: SURFACE

Well # 697-08-52B

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>450</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>0</b> Mg / L
Iron (FE2)	<i>300</i>	<b>0</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>0</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>-200</b> Mg / L
Chlorine (Cl <sub>2</sub> )		<b>0</b> Mg / L
Temp	<i>40-80</i>	<b>55</b> Deg
Total Dissolved Solids		<b>240</b> Mg / L

Respectfully: MIKE TRIPLETT

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

<b>Sales Order #:</b> 8444753	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/12/2011
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> DEREK ADEM		<b>API / UWI: (leave blank if unknown)</b> 05-045-20062
<b>Well Name:</b> CC		<b>Well Number:</b> 697-08-52B
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> 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	9/12/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	MICHEAL TRIPLETT (HB15721)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	DEREK ADEM
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.	

<b>CUSTOMER SIGNATURE</b>
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<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	9/12/2011
The date the survey was conducted	

Cementing KPI Survey	
<b>Type of Job</b>	0
Select the type of job. (Cementing or Non-Cementing)	
<b>Select the Maximum Deviation range for this Job</b>	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
<b>Total Operating Time (hours)</b>	12
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
<b>HSE Incident, Accident, Injury</b>	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
<b>Was the job purpose achieved?</b>	Yes
Was the job delivered correctly as per customer agreed design?	
<b>Operating Hours (Pumping Hours)</b>	9
Total number of hours pumping fluid on this job. Enter in decimal format.	
<b>Customer Non-Productive Rig Time (hrs)</b>	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.	
<b>Type of Rig Classification Job Was Performed</b>	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
<b>Number Of JSAs Performed</b>	7
Number Of Jsas Performed	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

<b>Sales Order #:</b> 8444753	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/12/2011
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<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	95
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> 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
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0