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# **OXY GRAND JUNCTION EBUSINESS**

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**CC 697-08-04A  
GRAND VALLEY  
Garfield County , Colorado**

**Cement Surface Casing  
13-Mar-2012**

**Post Job Report**

### The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 2914622	Quote #:	Sales Order #: 9338998
Customer: OXY GRAND JUNCTION EBUSINESS	Customer Rep: Rosser, Terry		
Well Name: CC	Well #: 697-08-04A	API/UWI #: 05-045-20963	
Field: GRAND VALLEY	City (SAP): Debeque	County/Parish: Garfield	State: Colorado
Lat: N 39.544 deg. OR N 39 deg. 32 min. 37.104 secs.	Long: W 108.246 deg. OR W -109 deg. 45 min. 12.996 secs.		
Contractor: H&P 353	Rig/Platform Name/Num: H&P 353		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: HIMES, JEFFREY	Srvc Supervisor: TRIPLETT, MICHEAL	MBU ID Emp #:	447908

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANDERSON, ADAM S	0.0	456683	PARKER, BRANDON	0.0	503646	SIMINEO, JEROD M	0.0	479954
TRIPLETT, MICHEAL Anthony	0.0	447908	TRIPLETT, MICHEAL Anthony	0.0	447908			

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10867304	120 mile	10872429	120 mile	10938665	120 mile	10998054	120 mile
11360883	120 mile	11583932	120 mile	11808843	120 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							
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### Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	12 - Mar - 2012	07:30	MST
Form Type		BHST	Job Started	12 - Mar - 2012	12:30	MST
Job depth MD	2725. ft	Job Depth TVD	Job Completed	12 - Mar - 2012	19:13	MST
Water Depth		Wk Ht Above Floor	Departed Loc	13 - Mar - 2012	16:46	MST
Perforation Depth (MD)	From	To		12 - Mar - 2012	19:00	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/3<sup>rd</sup> Party (HES)

Description	Qty	Qty uom	Depth	Supplier
R/A DENSOMETER W/CHART RECORDER,/JOB,ZI	1	JOB		
PORT. DATA ACQUIS. W/OPTICEM RT W/HES	1	EA		
ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI	1	JOB		
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	Fresh Water Spacer		10.00	bbl	8.33	.0	.0	.0	
2	Gel Water Spacer		20.00	bbl	8.34	.0	.0	.0	
0.25 gal/bbl		LGC-36 UC, BULK (101582749)							
3	Fresh Water Spacer		10.00	bbl	8.33	.0	.0	.0	
4	Lead Cement	HALCEM (TM) SYSTEM (452986)	1060.0	sacks	12.3	2.15	11.83	.0	11.83
11.83 Gal		FRESH WATER							
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.07	10.67	.0	10.67
10.67 Gal		FRESH WATER							
6	Fresh Water Displacement		203.00	bbl	8.34	.0	.0	.0	
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
<b>Rates</b>									
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*

<b>Sold To #:</b> 344034	<b>Ship To #:</b> 2914622	<b>Quote #:</b>	<b>Sales Order #:</b> 9338998
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Customer Rep:</b> Rosser, Terry	
<b>Well Name:</b> CC	<b>Well #:</b> 697-08-04A	<b>API/UWI #:</b> 05-045-20963	
<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b> Debeque	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 39.544 deg. OR N 39 deg. 32 min. 37.104 secs.		<b>Long:</b> W 108.246 deg. OR W -109 deg. 45 min. 12.996 secs.	
<b>Contractor:</b> H&P 353		<b>Rig/Platform Name/Num:</b> H&P 353	
<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>Srv 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	03/12/2012 07:30							9 5/8 SURFACE, OXY, H&P 353, CC 697- 08-04A
Pre-Convoy Safety Meeting	03/12/2012 10:00							ENTIRE CREW, OBSERVE ALL SAFE DRIVING PROCEDURES
Arrive At Loc	03/12/2012 12:30							RIG RUNNING CASING.
Assessment Of Location Safety Meeting	03/12/2012 12:40							REVIEWED EMERGENCY PLAN, ASSESSED WORK AREA AND SPOTTED EQUIPMENT.
Pre-Rig Up Safety Meeting	03/12/2012 16:50							ENTIRE CREW, WALKED THROUGH RIG UP LOOKING FOR HAZARDS.
Rig-Up Equipment	03/12/2012 17:00							1 PICK UP, 1 HT400 PUMP TRUCK, 1 660 BULK CEMENT TRUCK, 2 BULK CEMENT SILOS, 1 QUICK LATCH HEAD WITH PLUG.
Pre-Job Safety Meeting	03/12/2012 19:00							ENTIRE CREW, CO REP AND RIG CREW.
Start Job	03/12/2012 19:13							TD 2725' TP 2678' SJ 46.67' FC 2631.33 MW 9.2 PPG, 9 5/8 36# CASING IN 14 3/4 HOLE, YP , PV , TEMP , OFFLINE CEMENT JOB.
Pump Water	03/12/2012 19:14		2	2			17.0	FILL LINES BEFORE TESTING

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pressure Test	03/12/2012 19:14						3500.0	HELD PRESSURE FOR 2 MIN, PRESSURE HELD, NO LEAKS.
Pump Spacer 1	03/12/2012 19:18		4	10			57.0	FRESH WATER, PREMIXED CEMENT TUB AND WEIGHED WITH SCALES.
Pump Spacer 2	03/12/2012 19:22		4	20			57.0	GEL SPACER, 20 BBLS WATER WITH 5 GAL LGC.
Pump Spacer 1	03/12/2012 19:27		4	10			60.0	FRESH WATER
Pump Lead Cement	03/12/2012 19:29		6	405.9			225.0	1024 SKS VERSACEM, 12.3 PPG, 2.33 CUFT/SK, 12.62 GAL/SK, 7 BOXES TUFF FIBER MIXED IN DOWNHOLE SIDE OF TUB ON THE FLY IN FIRST 100 BBLS..
Pump Tail Cement	03/12/2012 20:30		6	59			180.0	180 SKS VERSACEM, 12.8 PPG, 2.07 CUFT/SK, 10.67 GAL/SK,
Shutdown	03/12/2012 20:40							HAD NO RETURNSS THROUGHOUT CEMENT.
Drop Top Plug	03/12/2012 20:41							VARIFIED PLUG LEFT CONTAINER.
Pump Displacement	03/12/2012 20:42		6	203.4			519.0	FRESH WATER
Slow Rate	03/12/2012 21:15		2	193.4			330.0	SLOWED RATE TO 2 BPM TO BUMP PLUG.
Bump Plug	03/12/2012 21:18						330.0	PLUG LANDED AT 203.4 BBLS GONE AT 330PSI, BUMPED UP TO 830 PSI AND HELD FOR 5 MIN PER CO REP.
Check Floats	03/12/2012 21:23							FLOATS HELD, WHEN RELEASED PRESSURE GOT .5 BBLS OF WATER BACK TO TRUCK.
Pressure Up	03/12/2012 21:26						1500.0	PRESSURE UP TO 1500 PSI TO TEST CASING.
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl		Pressure psig		Comments

		#		Stage	Total	Tubing	Casing	
Release Casing Pressure	03/12/2012 21:54							RELEASED PRESSURE AT 1570 PSI, GOOD TEST.
Pump Water	03/12/2012 22:07		2	2			170.0	10 BBLS WATER WITH 10 LBS SUAR PUMPED TO CLEAR PARASITE, CAUGHT PRESSURE AT 6 BBLS GONE.
Shutdown	03/12/2012 22:12							PARASITE CLEAR.
Safety Huddle	03/12/2012 22:15							RIG UP TO TOPOUT. USED TOPOUT THAT WAS IN SILO ON LOCAION.
Pump Water	03/13/2012 00:31		2	2			70.0	PUMP WATER TO ENSURE LINES ARE CLEAR BEFORE MIXING CEMENT.
Pump Cement	03/13/2012 00:33		3	48.9			100.0	TOPOUT CEMENT, 12.5 PPG, 1.97 CUFT/SK, 10.96 GAL/SK. PUMPED 48.9 BBLS OF CEMENT.
Pump Water	03/13/2012 00:55		2	2			100.0	PUMP WATER TO CLEAR IRON OF CEMENT.
Shutdown	03/13/2012 00:56							NO CEMENT TO SURFACE, WAIT 2 HOUR FOR NEXT TOPOUT.
Pump Cement	03/13/2012 03:00		4	99.4			160.0	TOPOUT CEMENT, 12.5 PPG, 1.97 CUFT/SK, 10.96 GAL/SK, NO CEMENT TO SURFACE.
Pump Water	03/13/2012 03:27		2	1			100.0	PUMP WATER TO CLEAR IRON OF CEMENT.
Shutdown	03/13/2012 03:28							WAIT 3 HOURS TO PUMP NEXT TOPOUT.
Start Job	03/13/2012 08:09							START TOPOUT #3
Pump Cement	03/13/2012 08:10		2	37.5			41.0	TOPOUT CEMENT, 12.5 PPG, 1.97 CUFT/SK, 10.96 GAL/SK, NO CEMENT TO SURFACE.
Pump Water	03/13/2012 08:29		2	1			40.0	PUMP WATER TO CLEAR IRON OF CEMENT.

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	03/13/2012 08:30							NO CEMENT TO SURFACE. ORDERED 300 SACKS OF TOPOUT ADDED TO TICKET.
Wait on HES Materials to Arrive - Start Time	03/13/2012 08:35							WAIT FOR 500 SACKS OF TOPOUT TO ARRIVE TO LOCATION.
Start Job	03/13/2012 16:35							START TOPOUT #4
Pump Cement	03/13/2012 16:36		2	32			50.0	TOPOUT CEMENT, 12.5 PPG, 1.97 CUFT/SK, 10.96 GAL/SK, NO CEMENT TO SURFACE.
Shutdown	03/13/2012 16:46							GOT CEMENT TO SURFACE WITH 21.5 BBLS AWAY, GOT 10 BBLS TO SURFACE. ONLY USED 100 SACKS OF THE 500 BROUGHT OUT, RETURNED 400 SACKS TO YARD, CUBIC FEET AND TONS ADDED TO TICKET FOR RETURNED CEMENT.
End Job	03/13/2012 16:47							HAD NO RETURNS PRIOR TO CEMENT AND THROUGHOUT CEMENT JOB. NO DERRICK CHARGE, 10#'S OF SUGAR USED, 500 SACKS OF TOPOUT CEMENT ADDED TO TICKET, 1 DOT CHARGE ADDED FOR TOPOUT, TONS AND CUBIC FOOT CHANGED AS WELL. 18 ADDITIONAL HOURS ADDED TO TICKET.
Post-Job Safety Meeting (Pre Rig-Down)	03/13/2012 16:50							ENTIRE CREW
Rig-Down Equipment	03/13/2012 17:00							

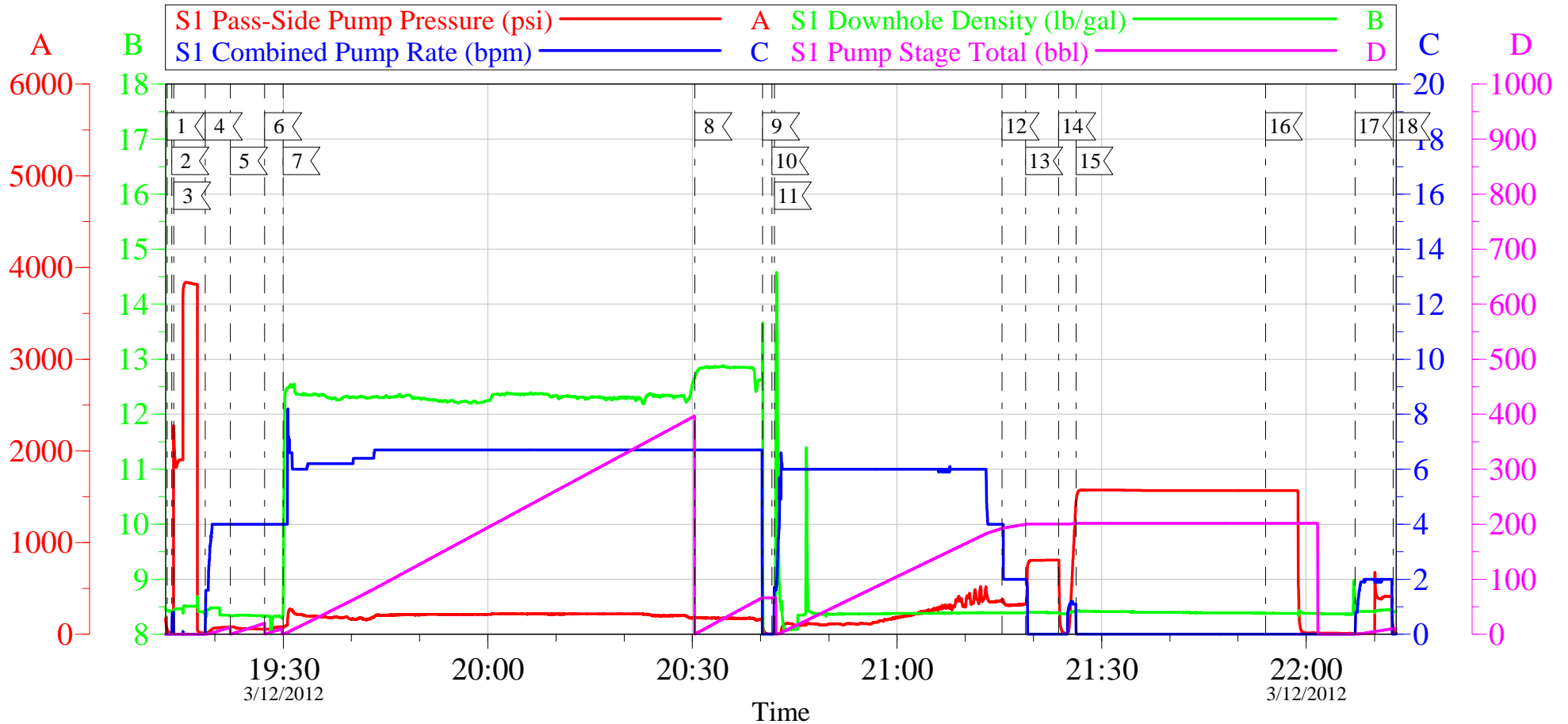
***Cementing Job Log***

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pre-Convoy Safety Meeting	03/13/2012 18:55							ENTIRE CREW, OBSERVE ALL SAFE DRIVING PROCEDURES
Crew Leave Location	03/13/2012 19:00							THANK YOU FOR USING HALLIBURTON, ERIC STILLSON AND CREW.



# OXY - CC - 697-08-04A

9 5/8" SURFACE



## Local Event Log

1 START JOB	19:13:00	2 FILL LINES	19:13:40	3 PRESSURE TEST	19:13:56
4 START H2O SPACER	19:18:35	5 START GEL SPACER	19:22:15	6 START H2O SPACER	19:27:17
7 START LEAD CEMENT	19:29:59	8 START TAIL CEMENT	20:30:21	9 SHUTDOWN	20:40:17
10 DROP PLUG	20:41:40	11 START DISPLACEMENT	20:42:01	12 SLOWRATE	21:15:25
13 BUMP PLUG	21:18:51	14 CHECK FLOATS	21:23:41	15 PRESURE TEST CASING	21:26:15
16 RELEASE PRESSURE	21:54:02	17 CLEAR PARASITE	22:07:10	18 END JOB	22:12:45

Customer: OXY  
Well Description: CC-697-08-04A  
Company Rep: TERRY ROSSER

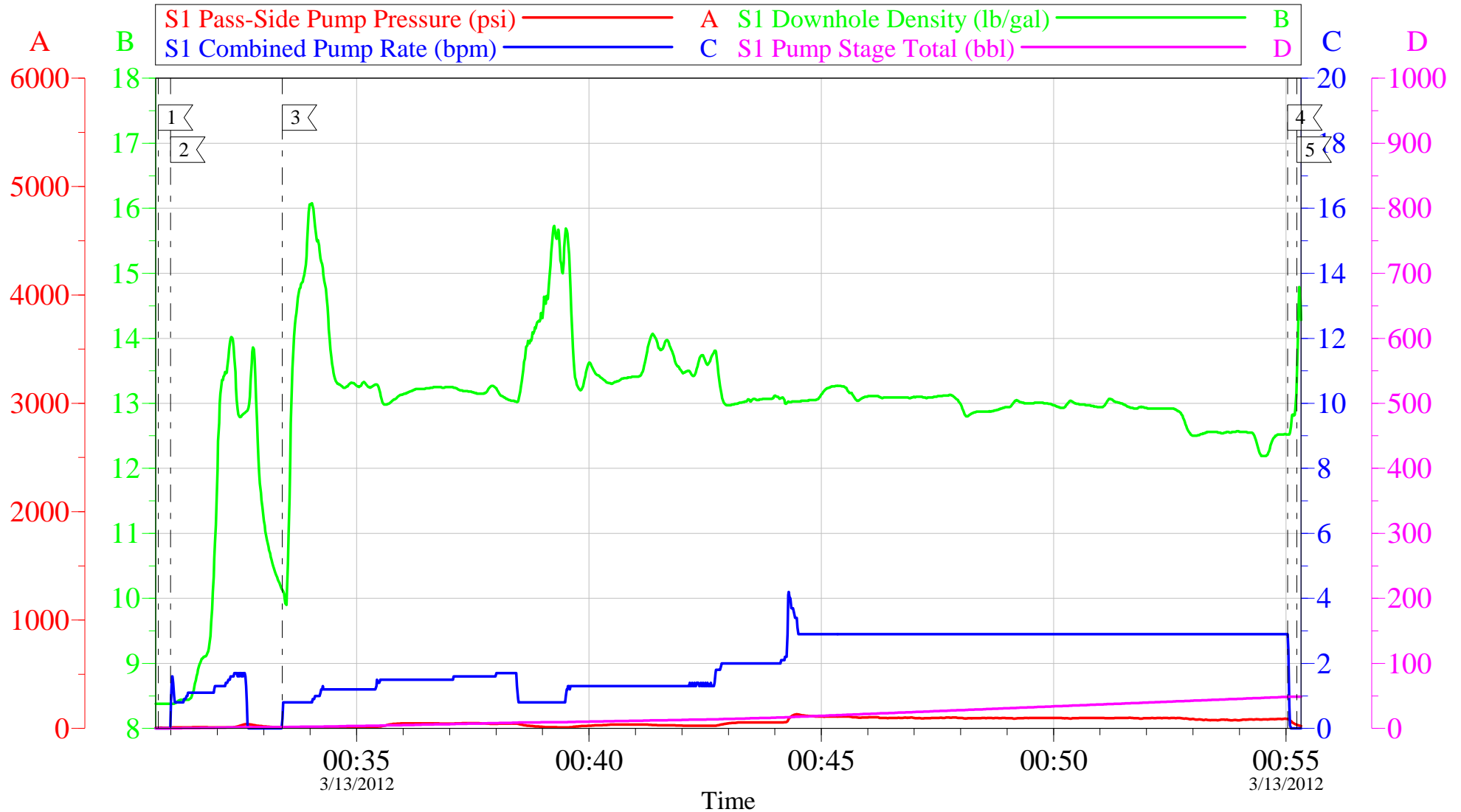
Job Date: 12-Mar-2012  
Job Type: SURFACE OFFLINE  
Cement Supervisor: MIKE TRIPLETT

Sales Order #: 9338998  
ADC Used: YES  
Elite #7: JEROD SIMINEO

OptiCem v6.4.9  
12-Mar-12 22:22

# OXY - CC-697-08-04A

TOPOUT #1

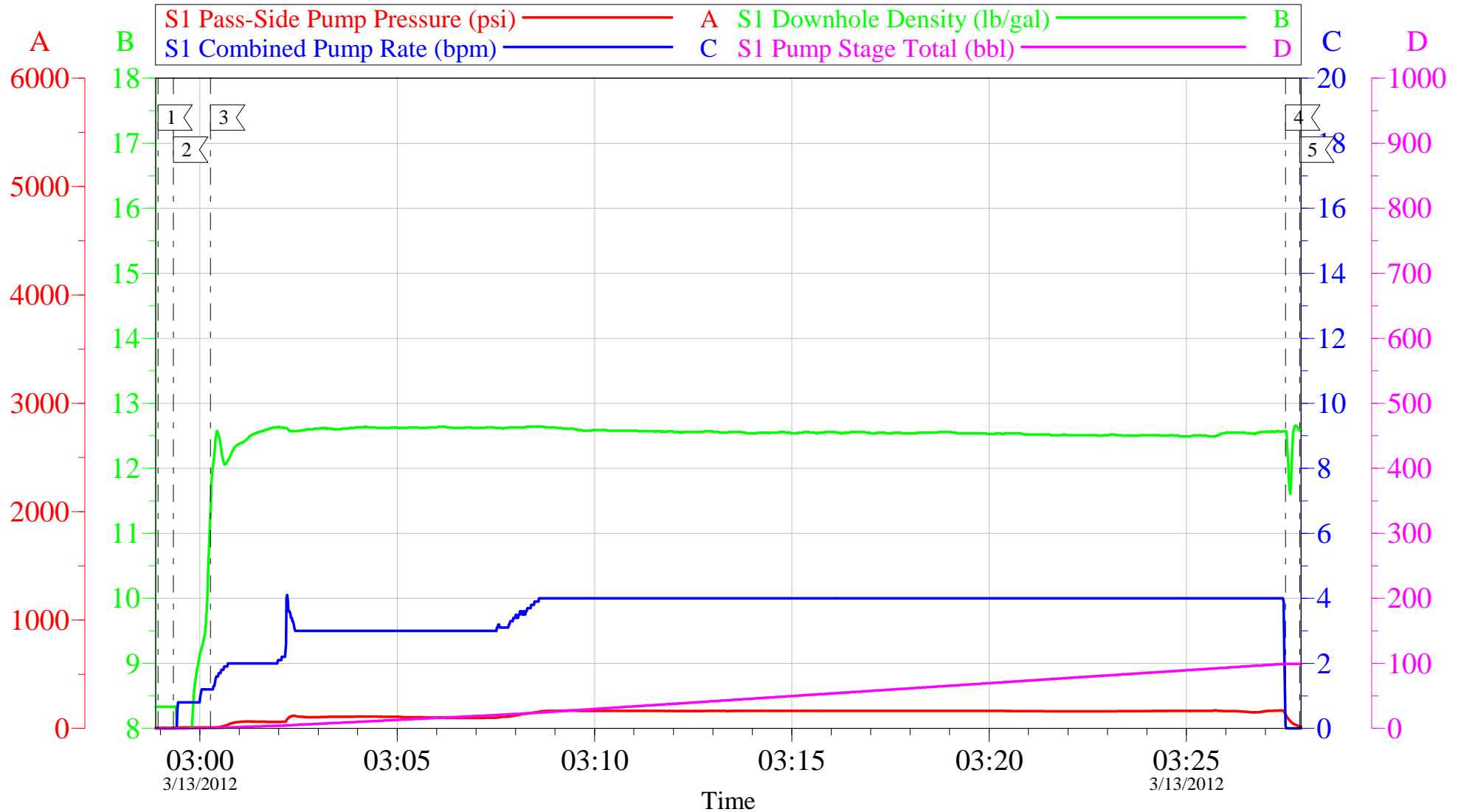


Customer: OXY	Job Date: 12-Mar-2012	Sales Order #: 9338998
Well Description: CC-697-08-04A	Job Type: TOPOUT	ADC Used: YES
Company Rep: TERRY ROSSER	Cement Supervisor: MIKE TRIPLET	Elite #7: JEROD SIMINEO

OptiCem v6.4.9  
13-Mar-12 01:05

# OXY - CC-697-08-04A

TOPOUT #2

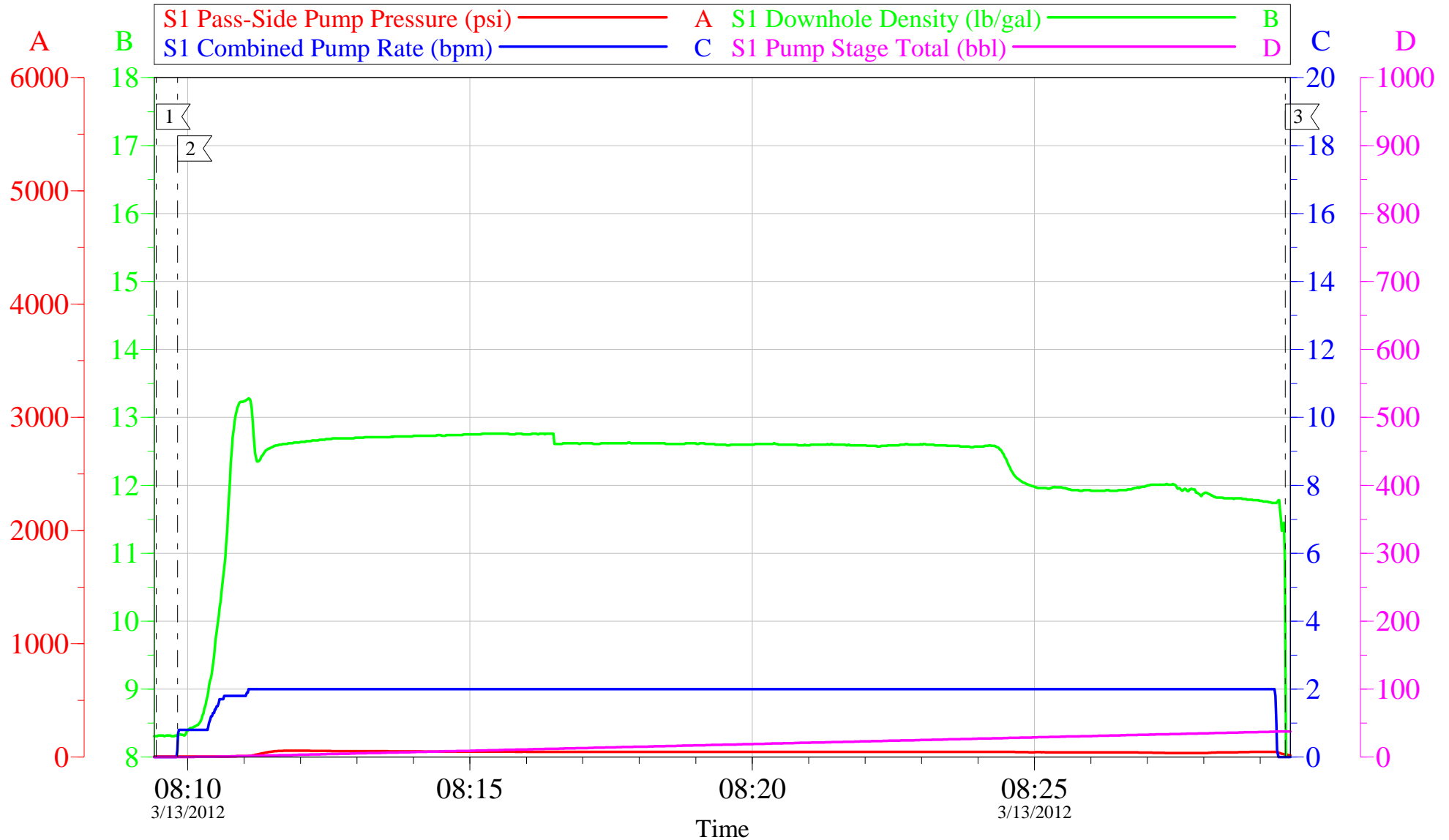


Customer: OXY	Job Date: 12-Mar-2012	Sales Order #: 9338998
Well Description: CC-697-08-04A	Job Type: TOPOUT	ADC Used: YES
Company Rep: TERRY ROSSER	Cement Supervisor: MIKE TRIPLETT	Elite #7: JEROD SIMINEO

OptiCem v6.4.9  
13-Mar-12 03:34

# OXY - CC-697-08-04A

TOPOUT #3



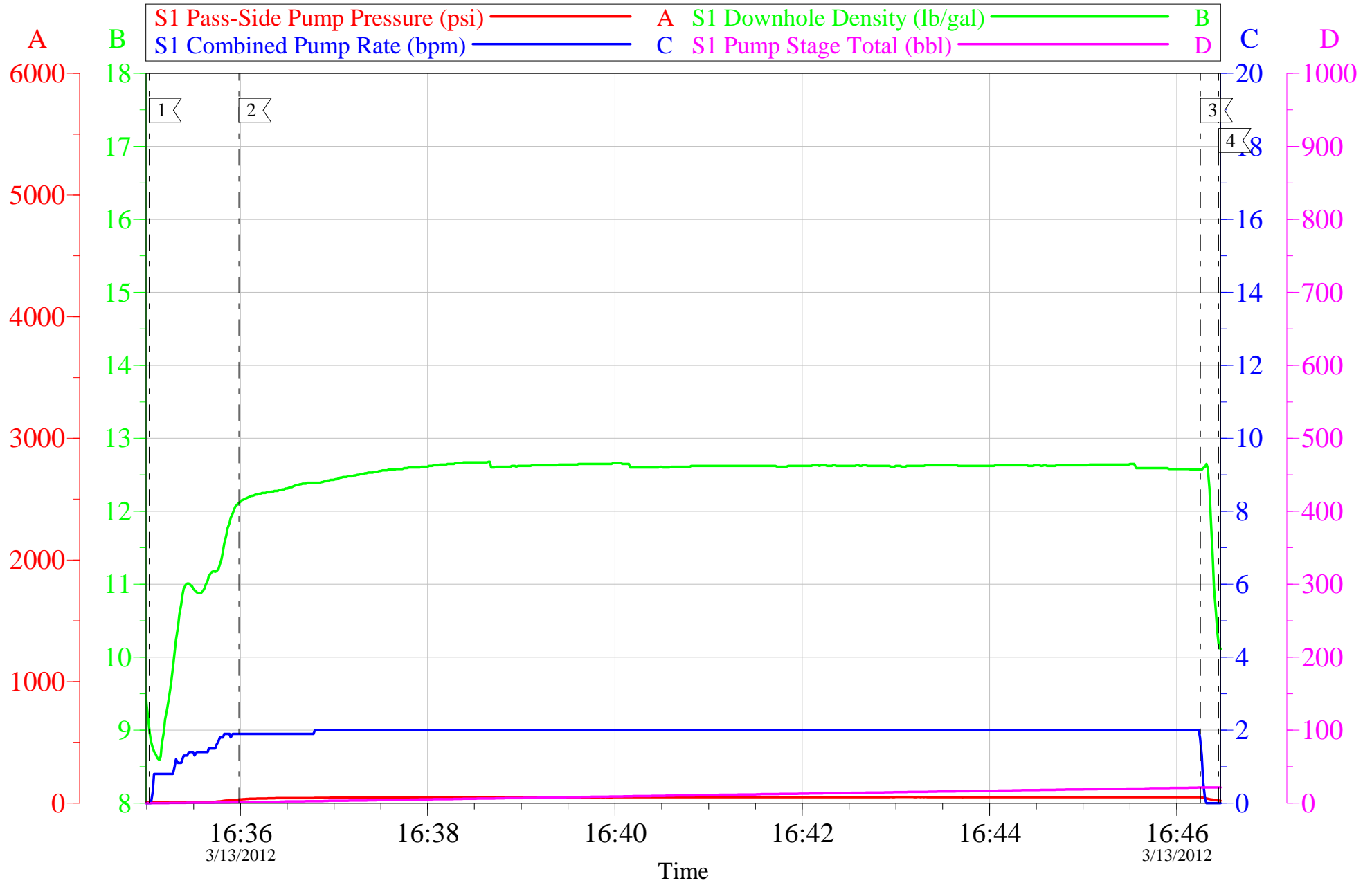
Local Event Log			
1	START JOB	08:09:27	2
			START CEMENT 08:09:49
3	END JOB	08:29:26	

Customer: OXY	Job Date: 12-Mar-2012	Sales Order #: 9338998
Well Description: CC-697-08-04A	Job Type: TOPOUT	ADC Used: YES
Company Rep: TERRY ROSSER	Cement Supervisor: MIKE TRIPLET	Elite #7: JEROD SIMINEO

OptiCem v6.4.9  
13-Mar-12 08:45

# OXY - CC-697-08-04A

TOPOUT #4



Customer: OXY	Job Date: 12-Mar-2012	Sales Order #: 9338998
Well Description: CC-697-08-04A	Job Type: TOPOUT	ADC Used: YES
Company Rep: TERRY ROSSER	Cement Supervisor: MIKE TRIPLETT	Elite #7: JEROD SIMINEO

<b>Sales Order #:</b> 9338998	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 3/13/2012
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> TERRY ROSSER		<b>API / UWI: (leave blank if unknown)</b> 05-045-20963
<b>Well Name:</b> CC		<b>Well Number:</b> 697-08-04A
<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	3/13/2012
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	TERRY ROSSER
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	MICRO MOTION WORKED WELL. HANDS DID A GREAT JOB.

CUSTOMER SIGNATURE

<b>Sales Order #:</b> 9338998	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 3/13/2012
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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> The date the survey was conducted	3/13/2012

Cementing KPI Survey	
<b>Type of Job</b> Select the type of job. (Cementing or Non-Cementing)	0
<b>Select the Maximum Deviation range for this Job</b> What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
<b>Total Operating Time (hours)</b> Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	12
<b>HSE Incident, Accident, Injury</b> HSE Incident, Accident, Injury. This should be recordable incidents only.	No
<b>Was the job purpose achieved?</b> Was the job delivered correctly as per customer agreed design?	Yes
<b>Operating Hours (Pumping Hours)</b> Total number of hours pumping fluid on this job. Enter in decimal format.	8
<b>Customer Non-Productive Rig Time (hrs)</b> 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
<b>Type of Rig Classification Job Was Performed</b> Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
<b>Number Of JSAs Performed</b> Number Of Jsas Performed	7
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

<b>Sales Order #:</b> 9338998	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 3/13/2012
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<b>Customer Representative:</b> TERRY ROSSER		<b>API / UWI: (leave blank if unknown)</b> 05-045-20963
<b>Well Name:</b> CC		<b>Well Number:</b> 697-08-04A
<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

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