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# **OXY GRAND JUNCTION EBUSINESS**

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**CC 697-04-65B  
GRAND VALLEY  
Garfield County , Colorado**

**Cement Surface Casing**  
**29-Dec-2011**

**Post Job Summary**

## The Road to Excellence Starts with Safety

Sold To #: 344034		Ship To #: 9107142		Quote #:		Sales Order #: 9107142	
Customer: OXY GRAND JUNCTION EBUSINESS				Customer Rep: Benevides, Victor			
Well Name: CC			Well #: 697-04-65B			API/UWI #: 05-045-20726	
Field: GRAND VALLEY		City (SAP): Parachute		County/Parish: Garfield		State: Colorado	
Lat: N 39.549 deg. OR N 39 deg. 32 min. 55.536 secs.				Long: W 108.23 deg. OR W -109 deg. 46 min. 11.172 secs.			
Contractor: H&P Drilling			Rig/Platform Name/Num: H&P 330				
Job Purpose: Cement Surface Casing							
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: HIMES, JEFFREY			Srvc Supervisor: LEIST, JAMES			MBU ID Emp #: 362787	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANDERSON, ADAM S		456683	DANIEL, EVERETT Dean		337325	DEUSSEN, EDWARD Eric		485182
EICKHOFF, ROBERT Edward		495311	ENGBERG, KEVIN W		454218	GOWEN, WESLEY M		496205
HUGENTOBLE, LOGAN Mark		447333	LEIST, JAMES R		362787	SALAZAR, PAUL Omar		445614

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10592964	60 mile	10744549	60 mile	10867304	60 mile	10938665	60 mile
10951245	60 mile	10988978	60 mile	10998054	60 mile	11560046	60 mile
11562538	60 mile	6374L	60 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	27 - Dec - 2011	14:30	MST
Form Type	BHST		Job Started	27 - Dec - 2011	20:00	MST
Job depth MD	2700. ft	Job Depth TVD	Job Started	28 - Dec - 2011	02:15	MST
Water Depth		Wk Ht Above Floor	Job Completed	28 - Dec - 2011	12:08	MST
Perforation Depth (MD)	From	To	Departed Loc	29 - Dec - 2011	13:30	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
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	%
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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 ft3/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)			1070.0	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					bbl	.	.0	.0	.0			
7	Topout Cement	HALCEM (TM) SYSTEM (452986)			500.0	sacks	12.5	1.97	10.96		10.96		
10.96 Gal		FRESH WATER											
Calculated Values		Pressures				Volumes							
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			
Rates													
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> 9107142	<b>Quote #:</b>	<b>Sales Order #:</b> 9107142
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Customer Rep:</b> Benevides, Victor	
<b>Well Name:</b> CC	<b>Well #:</b> 697-04-65B	<b>API/UWI #:</b> 05-045-20726	
<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b> Parachute	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 39.549 deg. OR N 39 deg. 32 min. 55.536 secs.		<b>Long:</b> W 108.23 deg. OR W -109 deg. 46 min. 11.172 secs.	
<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> LEIST, JAMES	<b>MBU ID Emp #:</b> 362787

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/27/2011 14:30							
Pre-Convoy Safety Meeting	12/27/2011 16:00							WITH ALL HES PERSONNEL
Arrive At Loc	12/27/2011 19:00							
End Job	12/28/2011 00:19							
Pre-Rig Down Safety Meeting	12/28/2011 00:19							WITH ALL HES PERSONNEL
Rig-Down Completed	12/28/2011 00:20							
Pre-Convoy Safety Meeting	12/28/2011 00:20							WITH ALL HES PERSONNEL
Comment	12/28/2011 00:20							THANKYOU FOR USING HALLIBURTON CEMENT, JAMES LEIST AND CREW
Pre-Rig Up Safety Meeting	12/28/2011 00:30							WITH ALL ON HES PERSONNEL
Rig-Up Completed	12/28/2011 01:30							RIG FILLED CASING AND NO CIRULATION PRIOR TO JOB. JOB PUMPED OFF LINE THOUGH 9 5/8 QUICK LATCH CMT HEAD
Pre-Job Safety Meeting	12/28/2011 01:45							WITH ALL ON LOCATION PERSONNEL
Start Job	12/28/2011 02:15							TP-2380, TD-2432, HOLE- 14 3/4, MUD#-9, S.J.- 48.7
Pressure Test	12/28/2011 02:16							2589 PSI
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl		Pressure psig		Comments

Sold To # : 344034

Ship To # :9107142

Quote # :

Sales Order # : 9107142

SUMMIT Version: 7.2.27

Thursday, December 29, 2011 12:43:00

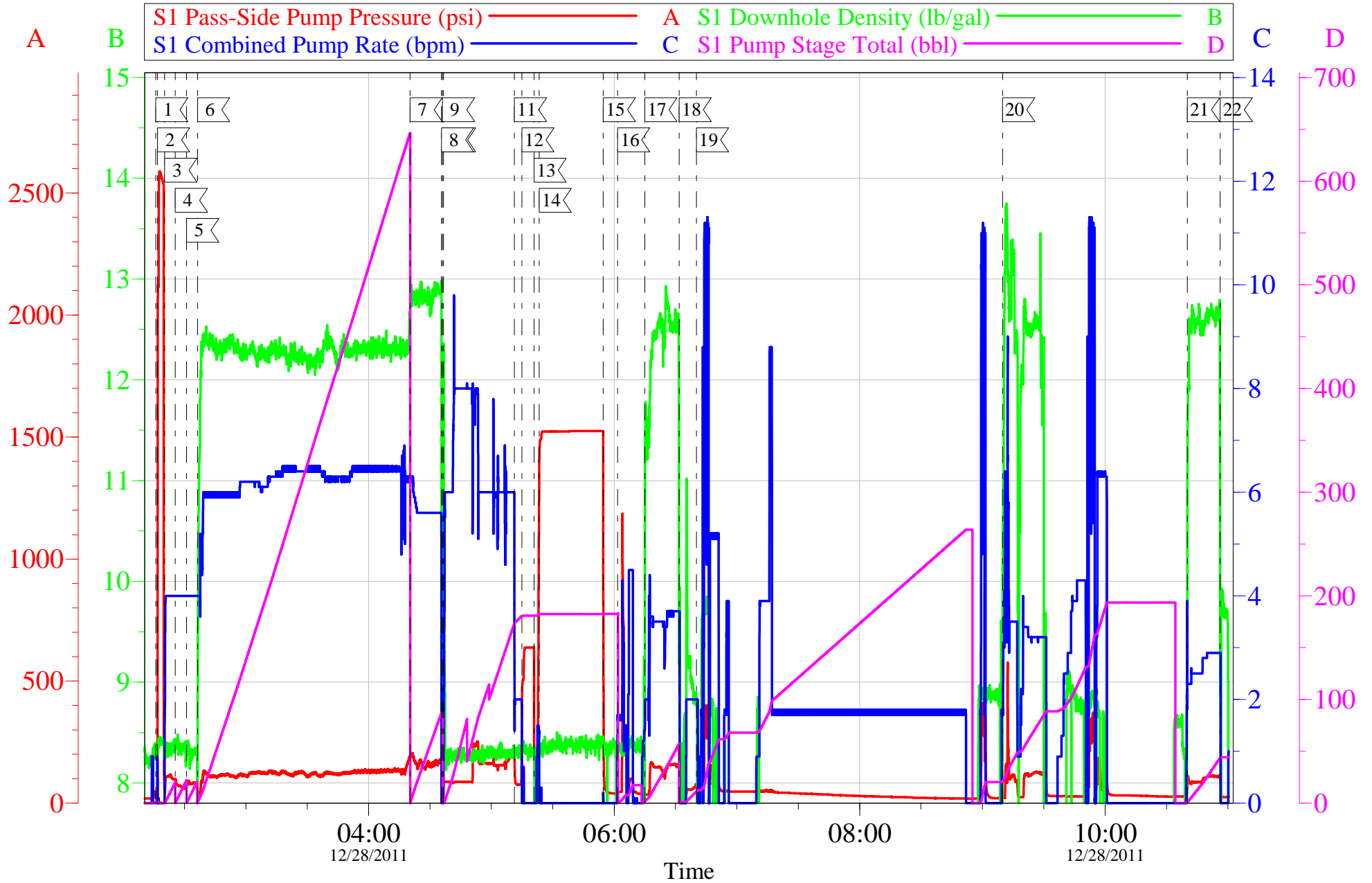
		#		Stage	Total	Tubing	Casing	
Pump Spacer	12/28/2011 02:20		4	20			108.0	FRESH WATER, NO CIRULATION THROUGHOUT JOB
Pump Spacer	12/28/2011 02:25		4	20			72.0	LGC SPACER 5 GAL.
Pump Spacer	12/28/2011 02:31		4	20			79.0	FRESH WATER
Pump Lead Cement	12/28/2011 02:36		6	444			125.0	1070 SKS, 12.3 PPG, 2.33 FT3/SK, 12.62 GAL/SK
Pump Tail Cement	12/28/2011 04:20		6	62			195.0	170 SKS, 12.8 PPG, 2.07 FT3/SK, 10.67 GAL/SK
Shutdown	12/28/2011 04:35							TO DROP TOP PLUG
Drop Top Plug	12/28/2011 04:36							AWAY
Pump Displacement	12/28/2011 04:36							FRESH WATER
Slow Rate	12/28/2011 05:11							TO BUMP PLUG
Bump Plug	12/28/2011 05:14							PLUG BUMPED
Check Floats	12/28/2011 05:20							HOLDING
Other	12/28/2011 05:23							PRESSURE TEST CASING TO 1500 FOR 30 MIN.
Other	12/28/2011 05:54							PUMP SUGAR WATER THROUGH PARISITE STRING
Pump Cement	12/28/2011 06:14		3	48			70.0	136 SKS, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK
Shutdown	12/28/2011 06:31							NO CEMENT RETURNS
Pump Cement	12/28/2011 09:09		3	50	98		85.0	142 SKS, 12.45 PPG, 1.97 FT3/SK, 10.96 GAL/SK-278 SKS TO TOTAL
Shutdown	12/28/2011 09:30							NO CEMENT RETURNS
Pump Cement	12/28/2011 11:02		3	50	148		100.0	142 SKS, 12.45 PPG, 1.97 FT3/SK, 10.96 GAL/SK-420 SKS TO TOTAL
Shutdown	12/28/2011 11:02							NO CEMENT RETURNS-DEAN DANIEL AND CREW TOOK OVER JOB AT THIS POINT

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Cement	12/28/2011 12:09		3.5	50	198		130.0	142 SKS, 12.45 PPG, 1.97 FT3/SK, 10.96 GAL/SK-562 SKS TO TOTAL
Shutdown	12/28/2011 12:22							NO CEMENT RETURNS
Pump Cement	12/28/2011 14:12		3.5	42	240		115.0	120 SKS, 12.45 PPG, 1.97 FT3/SK, 10.96 GAL/SK- 682 SKS TO TOTAL
Shutdown	12/28/2011 14:24							NO CEMENT RETURNS
Pump Cement	12/28/2011 15:55		3.5	42	282		109.0	120 SKS, 12.45 PPG, 1.97 FT3/SK, 10.96 GAL/SK-802 SKS TO TOTAL
Shutdown	12/28/2011 16:10							NO CEMENT RETURNS
Comment	12/28/2011 18:00							500 SKS OF TOPOUT ARRIVES ON LOCATION
Pump Cement	12/28/2011 18:47		4	50	332		149.0	142 SKS, 12.45 PPG, 1.97 FT3/SK, 10.96 GAL/SK-944 SKS TO TOTAL
Shutdown	12/28/2011 19:00							NO CEMENT RETURNS
Pump Cement	12/28/2011 20:42		4	75	407		150.0	214 SKS, 12.45 PPG, 1.97 FT3/SK, 10.96 GAL/SK-1158 SKS TO TOTAL
Shutdown	12/28/2011 21:01							NO CEMENT RETURNS
Pump Cement	12/28/2011 22:40		4	50	457		139.0	142 SKS, 12.45 PPG, 1.97 FT3/SK, 10.96 GAL/SK-1300 SKS TO TOTAL
Shutdown	12/28/2011 22:58							NO CEMENT RETURNS
Comment	12/29/2011 03:30							500 SKS OF TOPOUT ARRIVES ON LOCATION
Pump Cement	12/29/2011 05:20		3	50	507		120.0	142 SKS, 12.45 PPG, 1.97 FT3/SK, 10.96 GAL/SK WITH 25 POUNDS CALCIUM CHLORIDE ADDED- 1442 SKS TO TOTAL

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	12/29/2011 05:36							NO CEMENT RETURNS
Pump Cement	12/29/2011 06:21		3	50	557		120.0	142 SKS, 12.45 PPG, 1.97 FT3/SK, 10.96 GAL/SK WITH 75 POUNDS CALCIUM CHLORIDE ADDED-1584 SKS TO TOTAL
Shutdown	12/29/2011 06:36							NO CEMENT RETURNS
Pump Cement	12/29/2011 08:14		3	50	607		109.0	142 SKS, 12.45 PPG, 1.97 FT3/SK, 10.96 GAL/SK WITH 100 POUNDS CALCIUM CHLORIDE ADDED-1726 SKS TO TOTAL
Shutdown	12/29/2011 08:30							NO CEMENT RETURNS
Pump Cement	12/29/2011 10:01		3	50	657		115.0	142 SKS, 12.45 PPG, 1.97 FT3/SK, 10.96 GAL/SK WITH 50 POUNDS CALCIUM CHLORIDE ADDED-1868 SKS TO TOTAL
Shutdown	12/29/2011 10:39							CEMENT TO SURFACE
Pump Cement	12/29/2011 11:38		2	12	669		59.0	34 SKS, 12.45 PPG, 1.97 FT3/SK, 10.96 GAL/SK WITH 50 POUNDS CALCIUM CHLORIDE ADDED-1902 SKS TO TOTAL
Shutdown	12/29/2011 12:08							CEMENT TO SURFACE
End Job	12/29/2011 12:08							
Post-Job Safety Meeting (Pre Rig-Down)	12/29/2011 12:15							
Rig-Down Equipment	12/29/2011 12:30							
Rig-Down Completed	12/29/2011 13:15							
Safety Meeting - Departing Location	12/29/2011 13:30							
Depart Location for Service Center or Other Site	12/29/2011 14:00							

# OXY CC 697-04-65B

9 5/8 SURFACE CASING



Customer: OXY  
Well Description: CC 697-04-65B  
Company Rep: VICTOR BENEVIDES

Job Date: 28-Dec-2011  
Job Type: SURFACE  
Cement Supervisor: JAMES LEIST

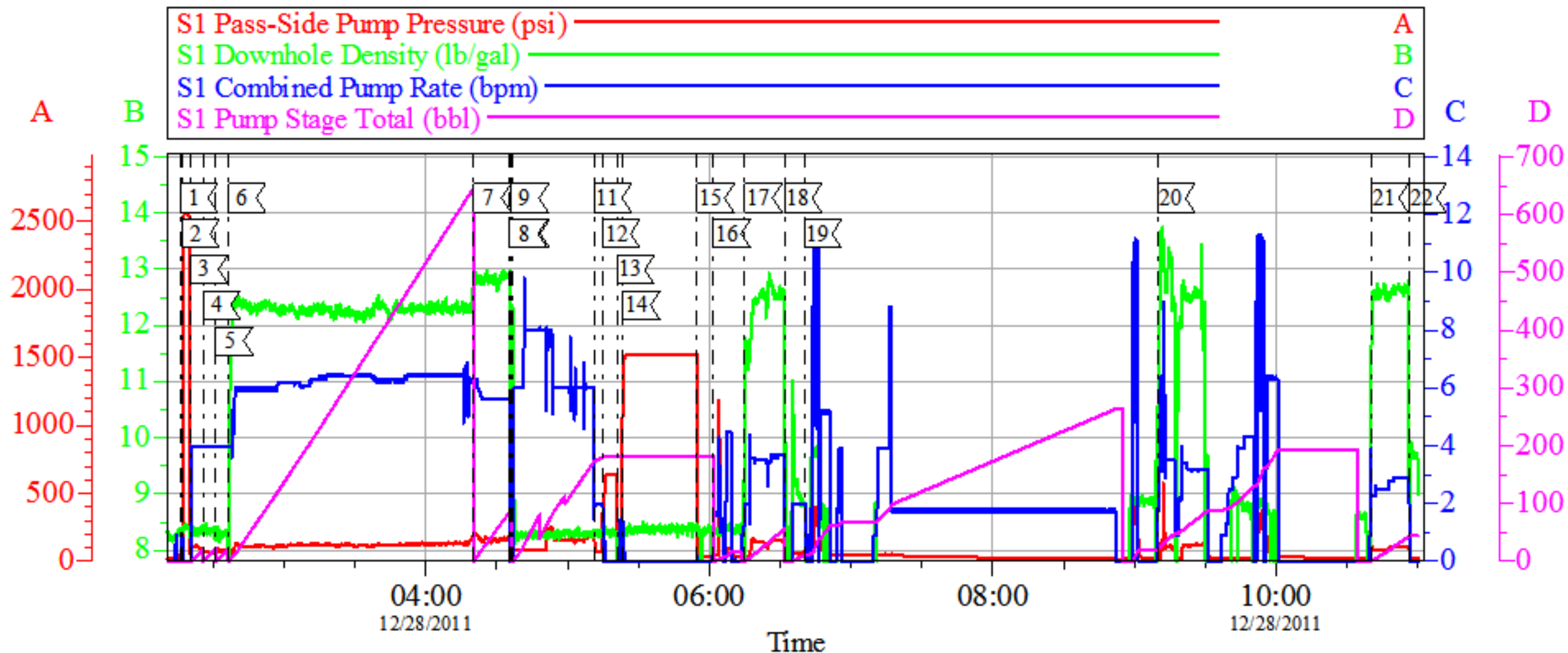
Sales Order #: 9107142  
ADC Used: YES  
Elite #:5 ED DEUSSEN

OptiCem v6.4.9  
28-Dec-11 11:00



# OXY CC 697-04-65B

9 5/8 SURFACE CASING



## Local Event Log

1 START JOB	02:15:55	2 PRESSURE TEST	02:16:47	3 PUMP H2O SPACER	02:20:18
4 PUMP LGC SPACER	02:25:30	5 PUMP H2O SPACER	02:31:02	6 PUMP LEAD CMT	02:36:19
7 PUMP TAIL CMT	04:20:14	8 SHUTDOWN	04:35:34	9 DROP PLUG	04:36:04
10 PUMP DISPLACEMENT	04:36:35	11 SLOW RATE	05:11:14	12 BUMP PLUG	05:14:53
13 CHECK FLOATS	05:20:49	14 CASING PRESSURE TEST	05:23:19	15 RELEASE PSI	05:54:41
16 PUMP PARISITE STRING	06:01:42	17 PUMP TOP OUT	06:14:57	18 SHUTDOWN	06:31:46
19 PUMP TOP OUT	06:40:13	20 SHUTDOWN	09:09:52	21 PUMP TOP OUT	10:40:11
22 SHUTDOWN	10:56:14				

Customer: OXY  
Well Description: CC 697-04-65B  
Company Rep: VICTOR BENEVIDES

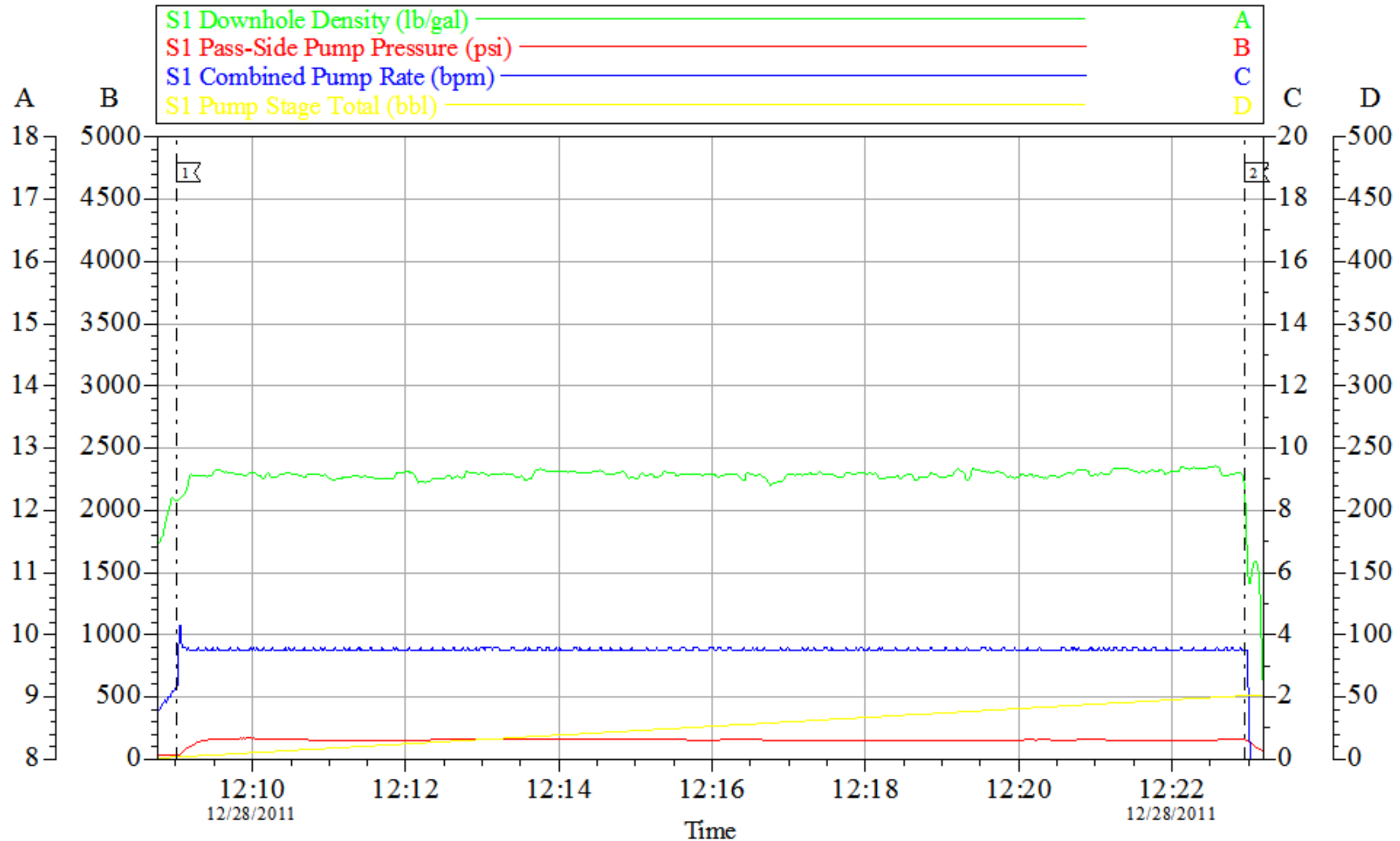
Job Date: 28-Dec-2011  
Job Type: SURFACE  
Cement Supervisor: JAMES LEIST

Sales Order #: 9107142  
ADC Used: YES  
Elite #5 ED DEUSSEN

OptiCem v6.4.9  
28-Dec-11 11:00

# OXY CC 697-04-65B

## 9 5/8 SURFACE CASING TOPOUT 4



Local Event Log

[1] PUMP TOPOUT CEMENT 12:09:00	[2] SHUTDOWN 12:22:57
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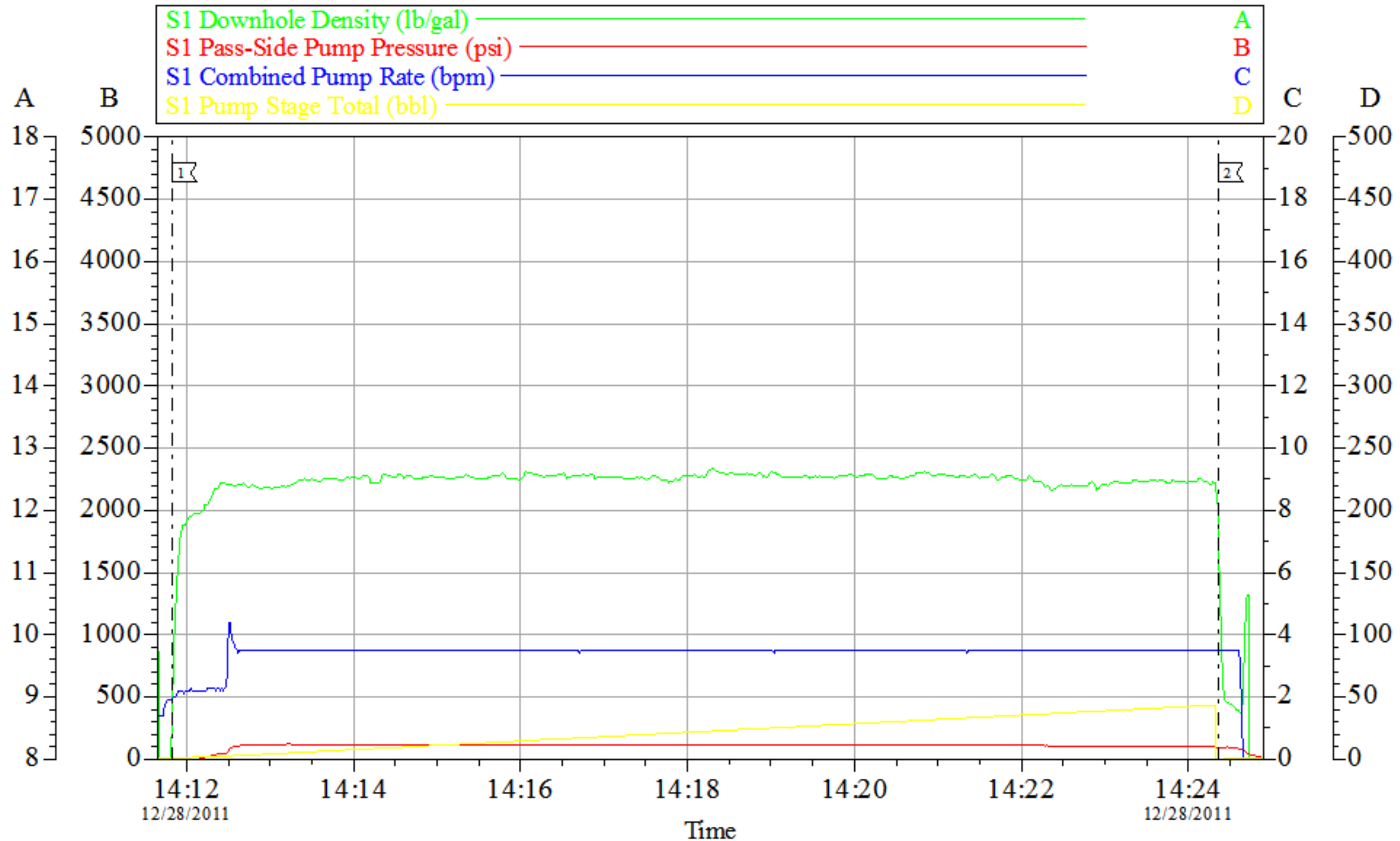
Customer: OXY  
 Well Description: CC 697-04-65B  
 Company Rep: VICTOR BENIVIDES

Job Date: 28-Dec-2011  
 Job Type: SURFACE  
 Cement Supervisor: DEAN DANIEL

Sales Order #: 9107142  
 ADC Used: YES  
 Elite # / Operator: 5/ADAM ANDERSON

Opti Cem v6.4.10  
 28-Dec-11 12:32

***OXY CC 697-04-65B***  
**9 5/8 SURFACE CASING TOPOUT 5**



Local Event Log

1	PUMP TOPOUT CEMENT	14:11:50	2	SHUTDOWN	14:24:22
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Customer:  
Well Description:  
Company Rep:

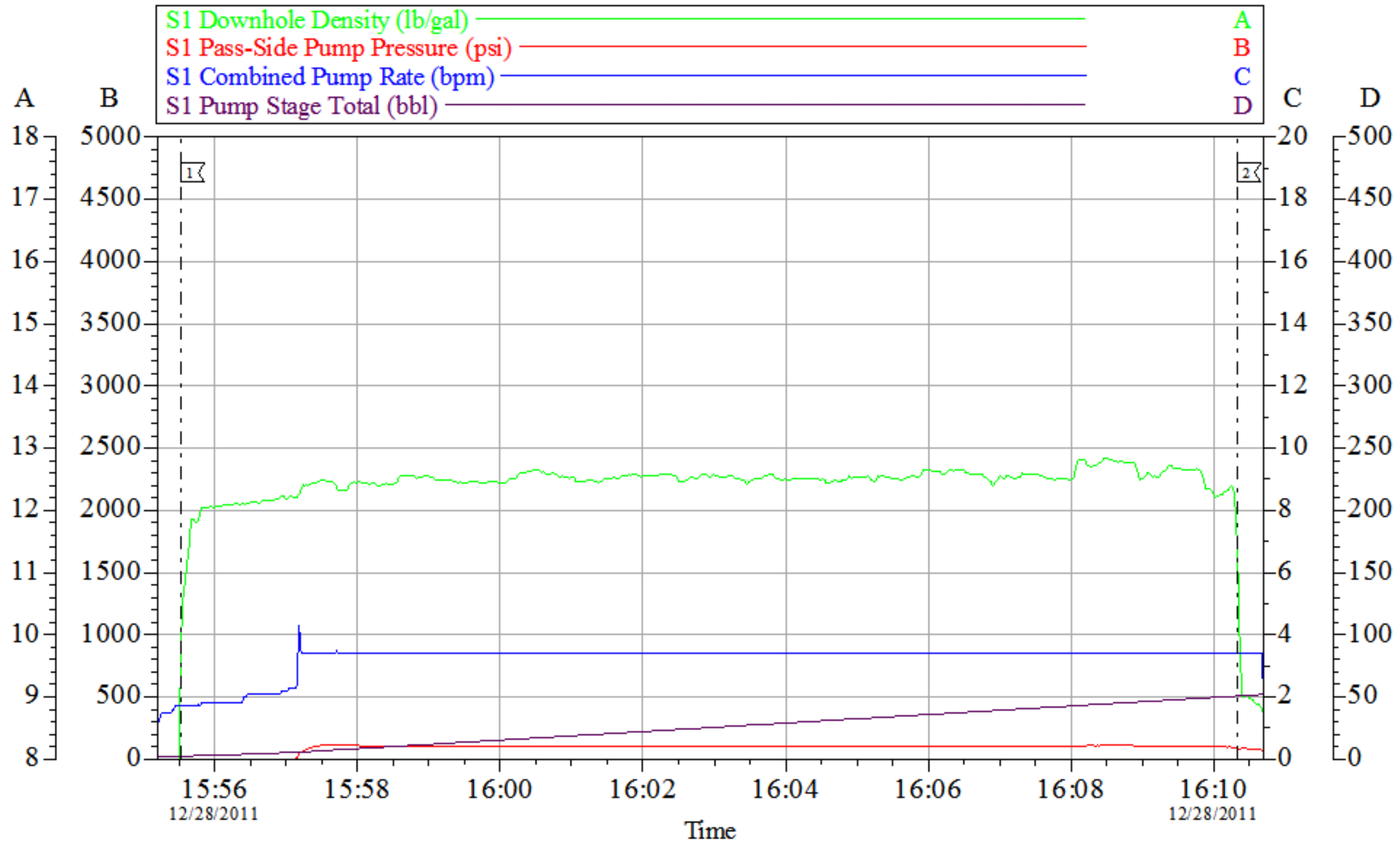
Job Date: 28-Dec-2011  
Job Type:  
Cement Supervisor:

Sales Order #: 9107142  
ADC Used:  
Elite # / Operator:

Opti Cem v6.4.10  
28-Dec-11 14:31

# OXY CC 697-04-65B

## 9 5/8 SURFACE CASING TOPOUT 6



Local Event Log

1 PUMP TOPOUT CEMENT 15:55:31	2 SHUTDOWN 16:10:19
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Customer: OXY  
 Well Description: CC-697-04-65B  
 Company Rep: VICTOR BENIVIDES

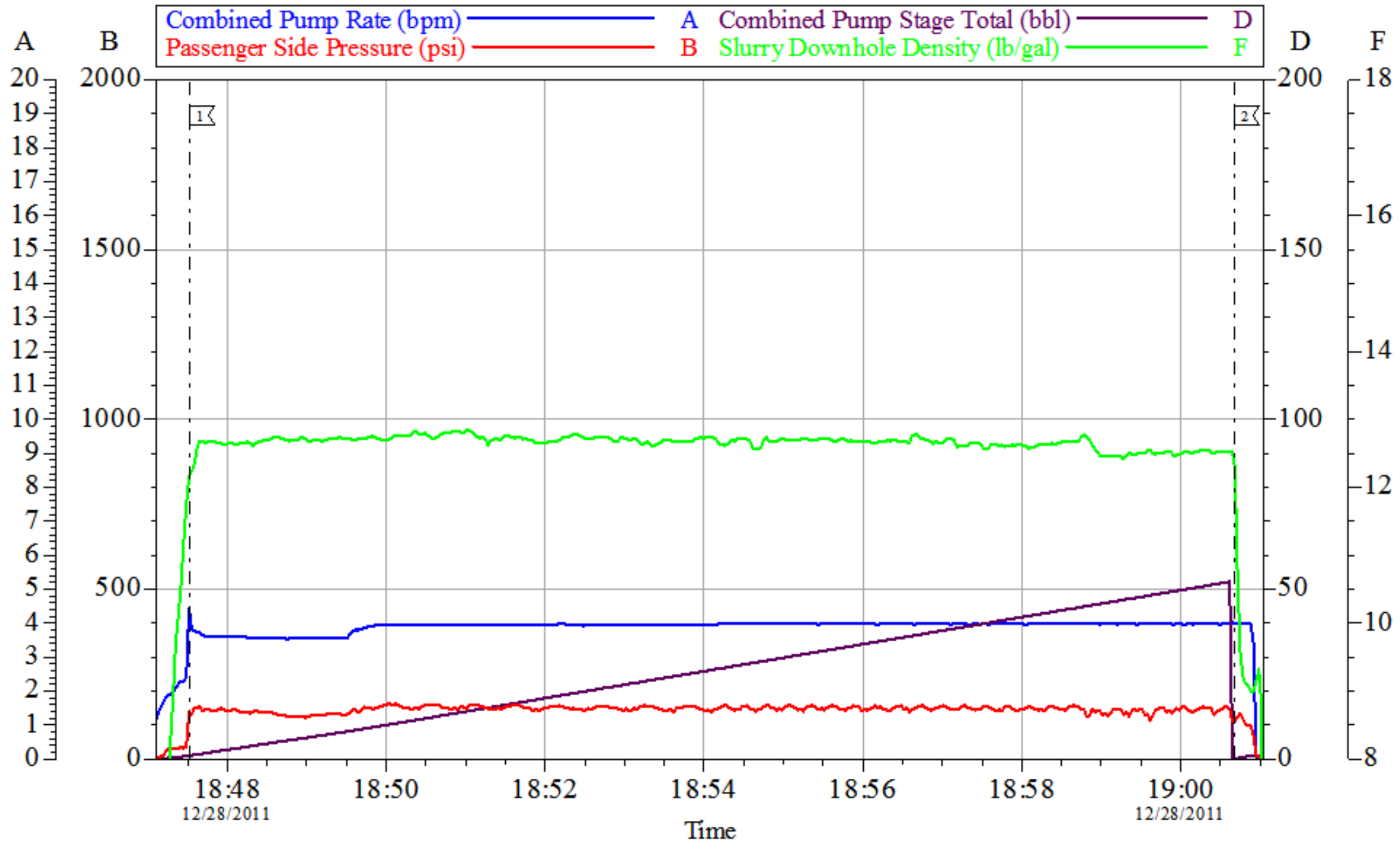
Job Date: 28-Dec-2011  
 Job Type: SURFACE  
 Cement Supervisor: DEAN DANIEL

Sales Order #: 9107142  
 ADC Used: YES  
 Elite # / Operator: 5/ADAM ANDERSON

Opti Cem v6.4.10  
 28-Dec-11 16:28

# OXY CC 697-04-65B

## 9 5/8 SURFACE CASING TOPOUT 7

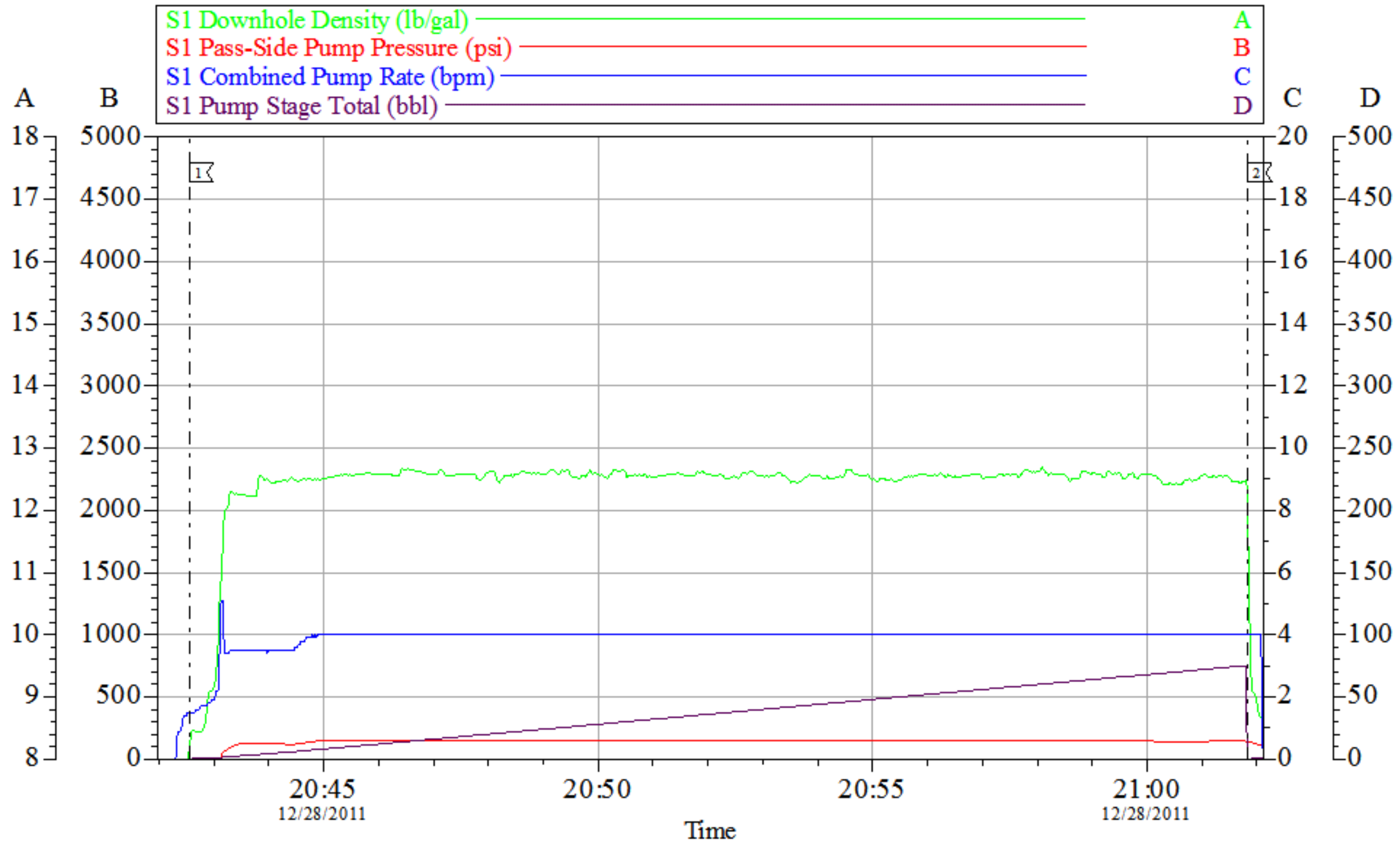


Customer: OXY	Job Date: 28-Dec-2011	Sales Order #: 9107142
Well Description: CC-697-04-65B	Job Type: SURFACE	ADC Used: YES
Company Rep: VICTOR BENIVIDES	Cement Supervisor: DEAN DANIEL	Elite # / Operator: 5/ADAM ANDERSON



# OXY CC 697-04-65B

## 9 5/8 SURFACE CASING TOP OUT 8



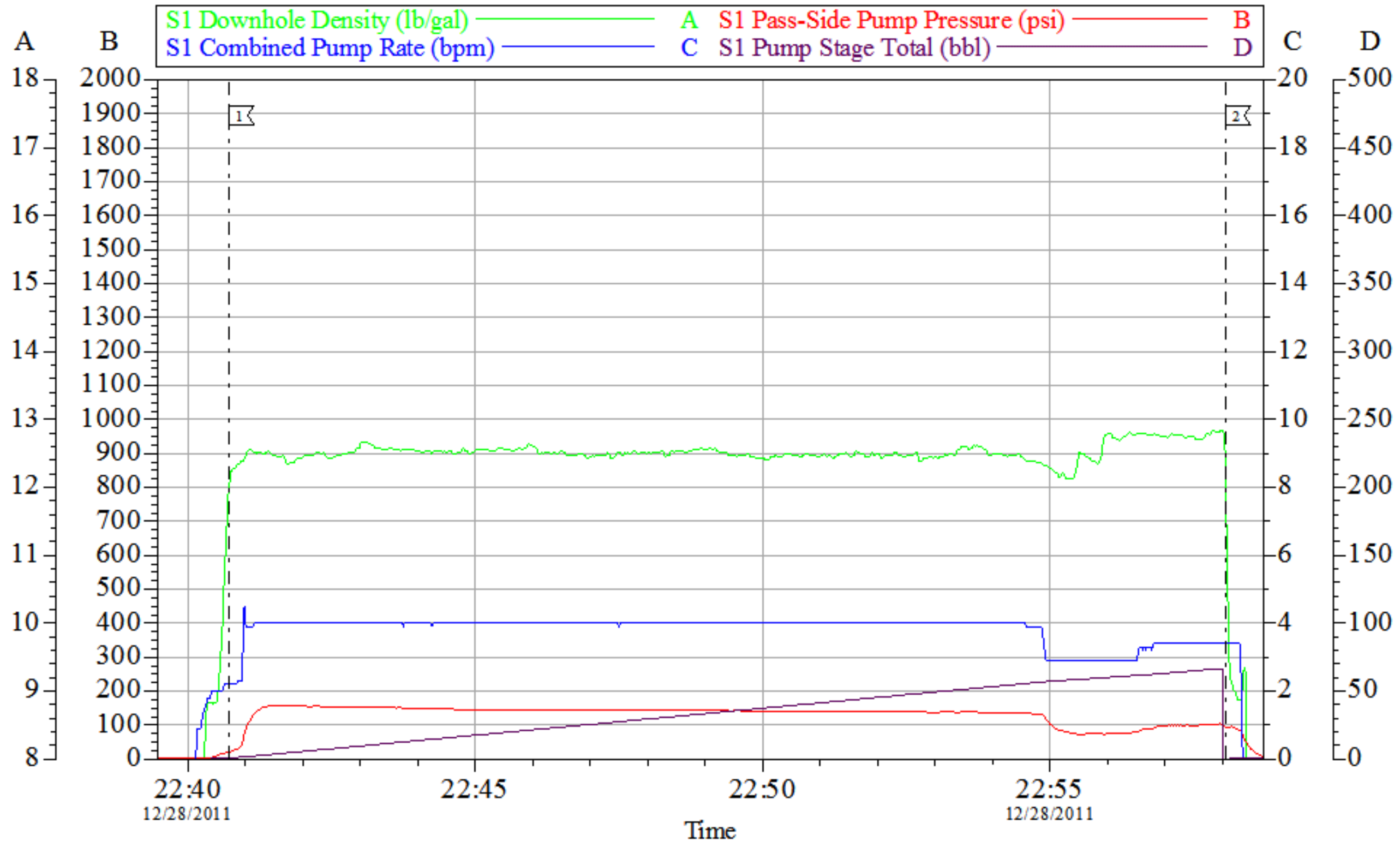
Local Event Log

[1] PUMP TOP OUT CEMENT 20:42:33	[2] SHUTDOWN 21:01:50
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Customer: OXY	Job Date: 28-Dec-2011	Sales Order #: 9107142
Well Description: CC 697-04-65B	Job Type: SURFACE	ADC Used: YES
Company Rep: VICTOR BENIVIDES	Cement Supervisor: DEAN DANIEL	Elite # / Operator: 5/ADAM ANDERSON

# OXY CC 697-04-65B

## 9 5/8 SURFACE CASING TOP OUT 9



Local Event Log		
1	PUMP TOP OUT CEMENT 22:40:43	2
		SHUTDOWN 22:58:04

Customer: OXY  
 Well Description: CC-697-04-65B  
 Company Rep: VICTOR BENEVIDES

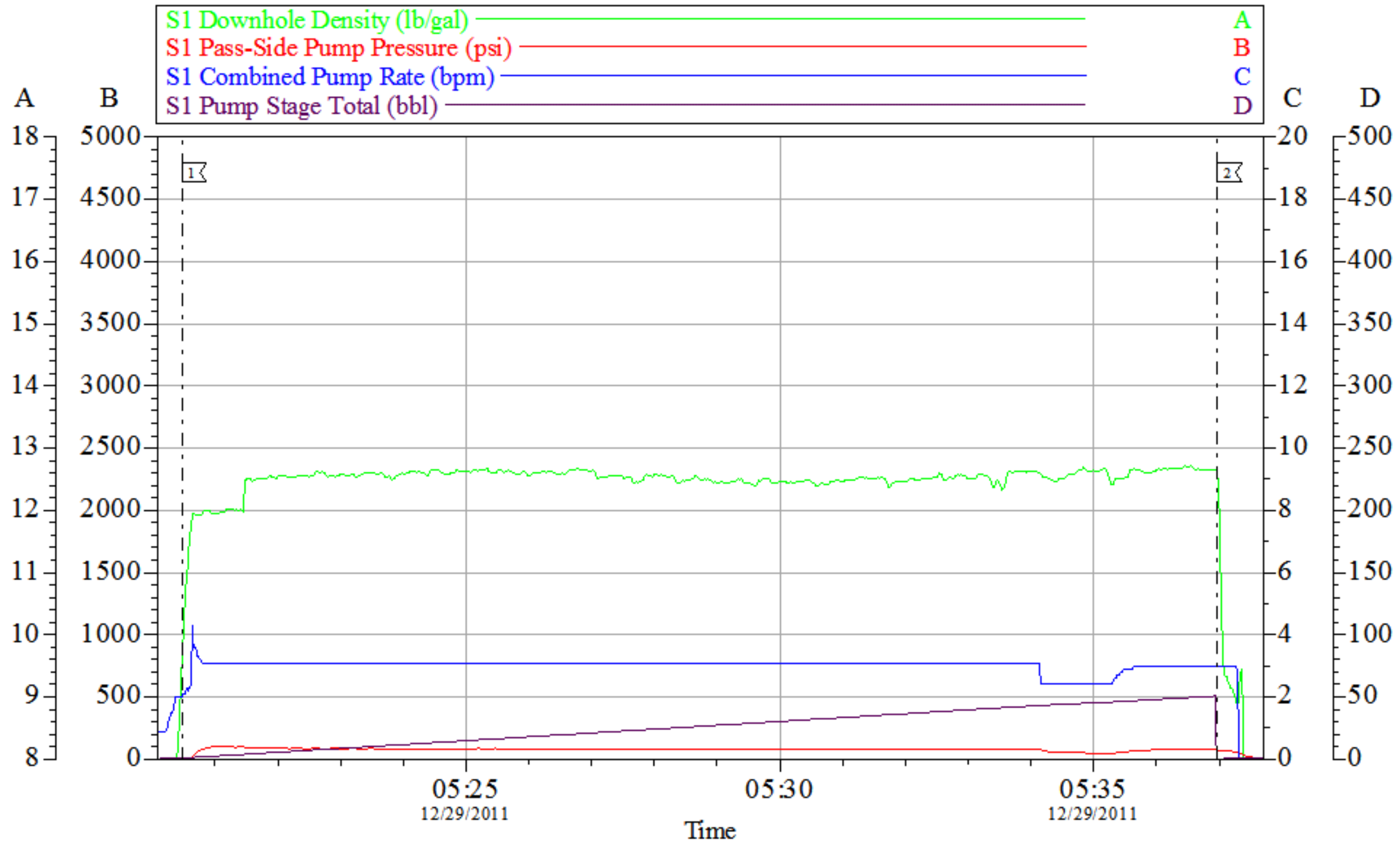
Job Date: 28-Dec-2011  
 Job Type: SURFACE  
 Cement Supervisor: DEAN DANIEL

Sales Order #: 9107142  
 ADC Used: YES  
 Elite # / Operator: 5/ADAM ANDERSON

Opti Cem v6.4.10  
 28-Dec-11 23:04

# OXY CC 697-04-65B

## 9 5/8 SURFACE CASING TOP OUT 10



Local Event Log

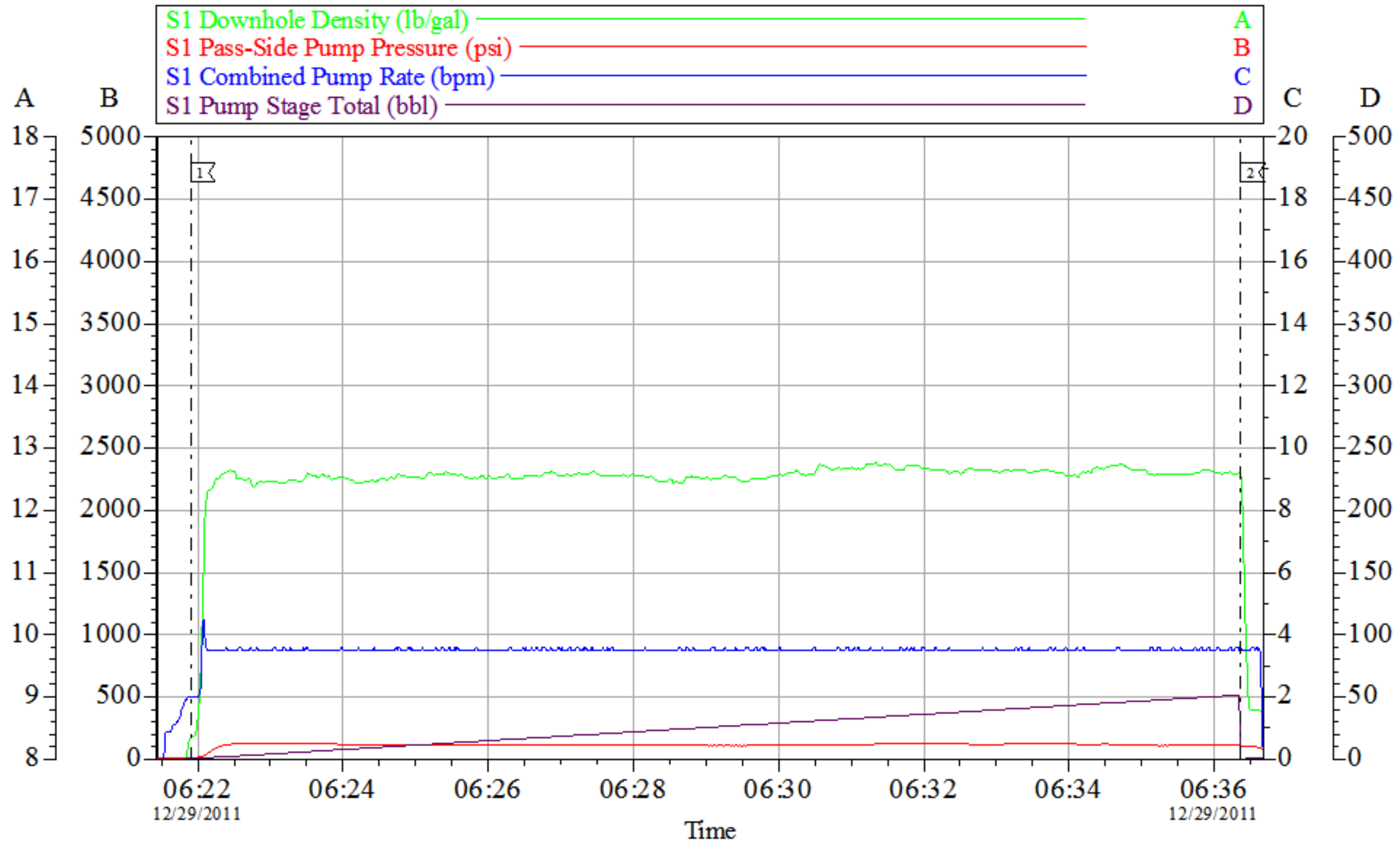
1 PUMP TOP OUT CEMENT 05:20:28	2 SHUTDOWN 05:36:59
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Customer: OXY	Job Date: 28-Dec-2011	Sales Order #: 9107142
Well Description: CC-697-04-65B	Job Type: SURFACE	ADC Used: YES
Company Rep: VICTOR BENIVIDES	Cement Supervisor: DEAN DANIEL	Elite # / Operator: 5/ADAM ANDERSON



# OXY CC-697-04-65B

## 9 5/8 SURFACE CASING TOP OUT 11



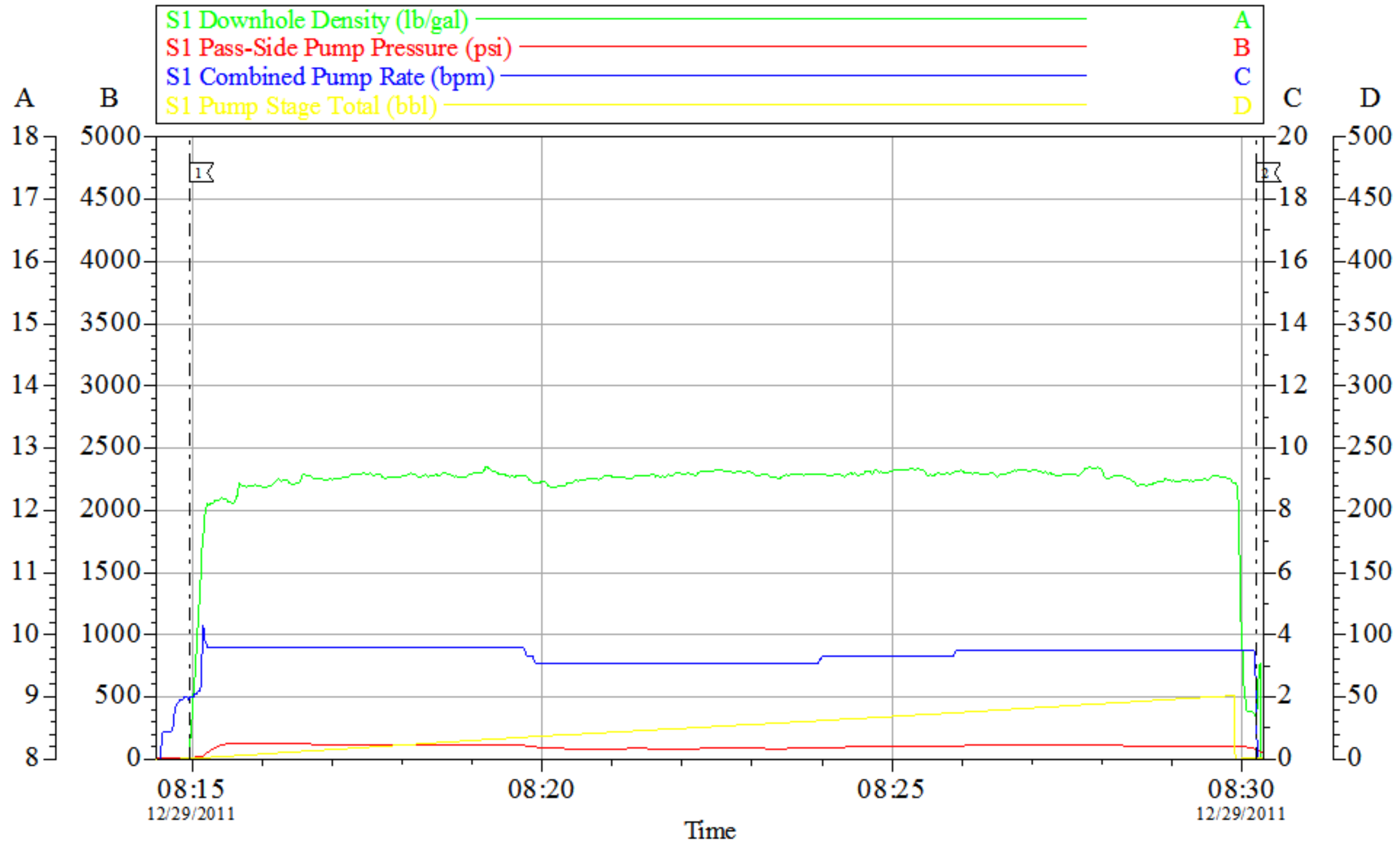
Local Event Log

1 PUMP TOP OUT CEMENT 06:21:54	2 SHUTDOWN 06:36:22	
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Customer: OXY	Job Date: 29-Dec-2011	Sales Order #: 9107142
Well Description: CC-697-04-65B	Job Type: SURFACE	ADC Used: YES
Company Rep: VICTOR BENIVIDES	Cement Supervisor: DEAN DANIEL	Elite # / Operator: 5/ADAM ANDERSON

# OXY CC-697-04-65B

## 9 5/8 SURFACE CASING TOP OUT 12



Customer: OXY  
 Well Description: CC-697-04-65B  
 Company Rep: VICTOR BENIVIDES

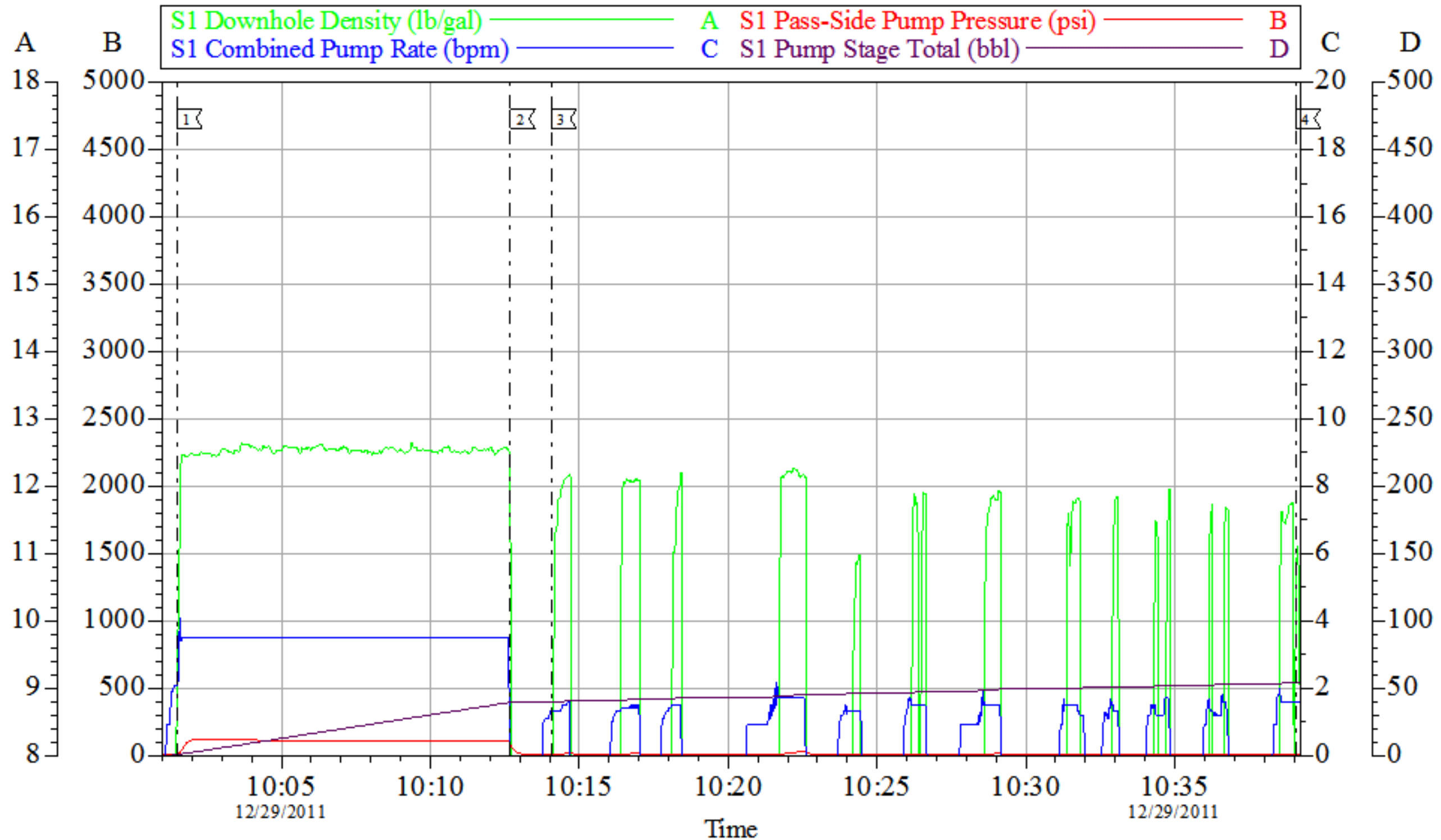
Job Date: 29-Dec-2011  
 Job Type: SURFACE  
 Cement Supervisor: DEAN DANIEL

Sales Order #: 9107142  
 ADC Used: YES  
 Elite # / Operator: 5/ADAM ANDERSON

Opti Cem v6.4.10  
 29-Dec-11 08:49

# OXY CC-697-04-65B

## 9 5/8 SURFACE CASING TOP OUT 13

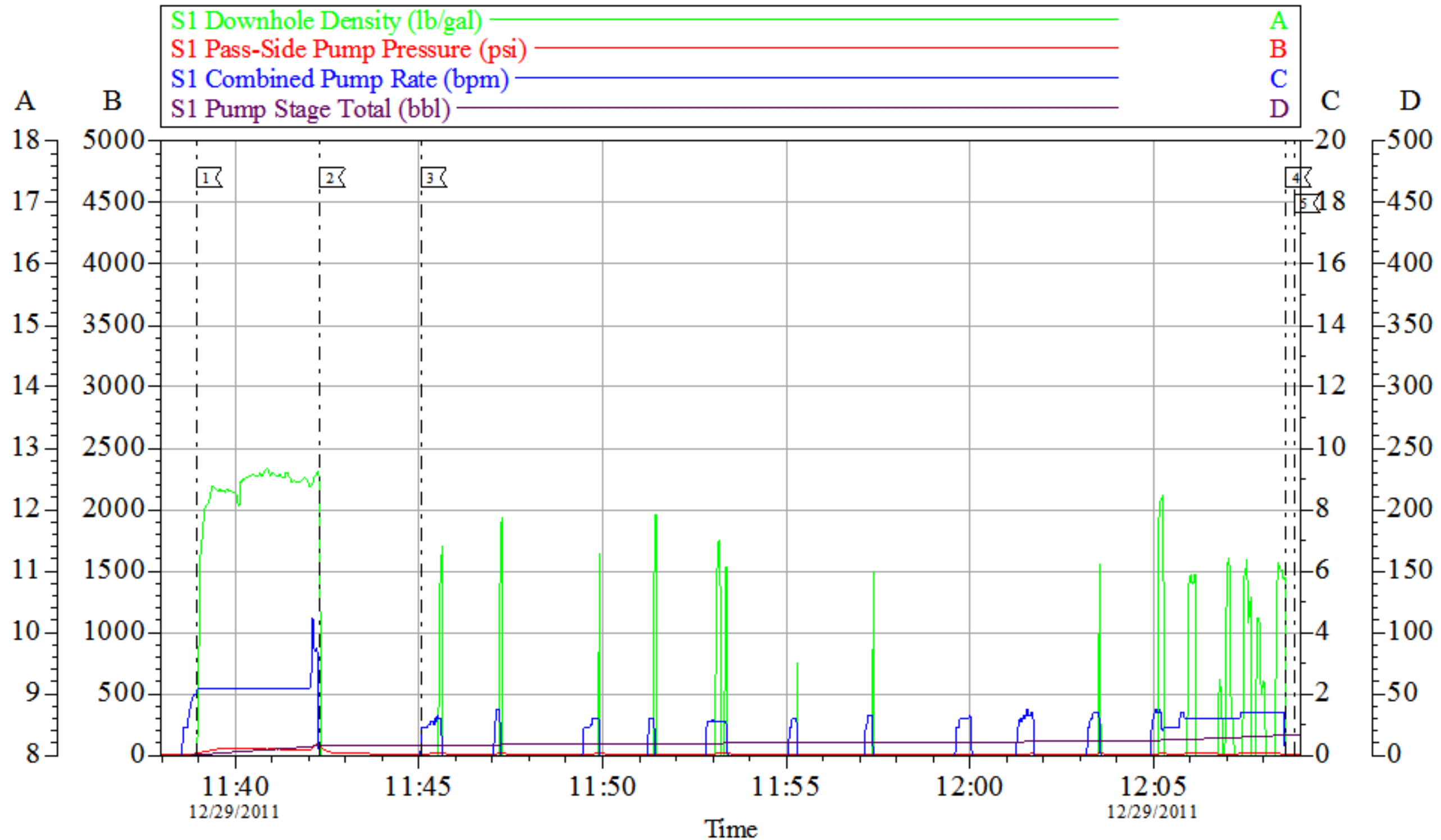


Local Event Log		
1	PUMP TOP OUT CEMENT	10:01:30
2	SHUTDOWN	10:12:41
3	START HESITATION	10:14:04
4	SHUTDOWN	10:39:04

Customer: OXY	Job Date: 29-Dec-2011	Sales Order #: 9107142
Well Description: CC-697-04-65B	Job Type: SURFACE	ADC Used: YES
Company Rep: VICTOR BENIVIDES	Cement Supervisor: DEAN DANIEL	Elite # / Operator: 5/ADAM ANDERSON

# OXY-CC-697-04-65B

## 9 5/8 SURFACE CASING TOP OUT 14



Customer: OXY	Job Date: 29-Dec-2011	Sales Order #: 9107142
Well Description: CC-697-04-65B	Job Type: SURFACE	ADC Used: YES
Company Rep: VICTOR BENIVES	Cement Supervisor: DEAN DANIEL	Elite # / Operator: 5/ADAM ANDERSON

<b>Sales Order #:</b> 9107142	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 12/29/2011
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> JEFF GILL		<b>API / UWI: (leave blank if unknown)</b> 05-045-20726
<b>Well Name:</b> CC		<b>Well Number:</b> 697-04-65B
<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	12/29/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	EVERETT DANIEL (HX13055)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	JEFF GILL
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

<b>Sales Order #:</b> 9107142	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 12/29/2011
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> JEFF GILL		<b>API / UWI: (leave blank if unknown)</b> 05-045-20726
<b>Well Name:</b> CC		<b>Well Number:</b> 697-04-65B
<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

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b> The date the survey was conducted	12/29/2011

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.	23.5
<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.	16
<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	35
<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

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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	90
<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	90
<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