
OXY GRAND JUNCTION EBUSINESS

**Cascade Creek 697-08-33B
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing **02-Sep-2011**

Post Job Summary

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 8372866	Quote #:	Sales Order #: 8372866
Customer: OXY GRAND JUNCTION EBUSINESS	Customer Rep: Benevides, Victor		
Well Name: Cascade Creek	Well #: 697-08-33B	API/UWI #: 05-045-20057	
Field: GRAND VALLEY	City (SAP):	County/Parish: Garfield	State: Colorado
Lat: N 39.534 deg. OR N 39 deg. 32 min. 2.404 secs.	Long: W 108.242 deg. OR W -109 deg. 45 min. 29.434 secs.		
Contractor: H&P 330	Rig/Platform Name/Num: H&P 330		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: ROYSTER, JACOB	Srvc Supervisor: YOUNG, JEREMY	MBU ID Emp #: 418013	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BECK, MICHAEL George	26	489151	DANIEL, EVERETT Dean	26	337325	ROMKEE, DALE Alan	26	488215
YOUNG, JEREMY R	26	418013						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10744648C	120 mile	10867094	120 mile	10897925	120 mile	10951245	120 mile
10998508	120 mile	11027039	120 mile	11021972	120 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
09/01/2011	1.5	0	09/02/2011	24	10	09/03/2011	0.5	0
TOTAL			Total is the sum of each column separately					

Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Water Depth	Perforation Depth (MD)	From	To
				BHST	2731. ft				
					Job Depth TVD	2731. ft			
					Wk Ht Above Floor	3. ft			

Job Times

Called Out	Date	Time	Time Zone
On Location	01 - Sep - 2011	18:00	MST
Job Started	01 - Sep - 2011	22:30	MST
Job Completed	02 - Sep - 2011	03:47	MST
Job Completed	02 - Sep - 2011	22:24	MST
Departed Loc	03 - Sep - 2011	00:30	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
OPEN HOLE				14.75				.	2747.		
SURFACE CASING	Unknown		9.625	8.921	36.		J-55	.	2731.		

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	FRESH WATER	20.00	bbl	8.33	.0	.0	4	
2	Gel Spacer	GEL WATER	20.00	bbl	8.4	.0	.0	3	
3	Water Spacer	FRESH WATER	20.00	bbl	8.33	.0	.0	4	
4	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	1048.0	sacks	12.3	2.33	12.62	8	12.62
12.62 Gal		FRESH WATER							
5	VariCemTail Cement	VERSACEM (TM) SYSTEM (452010)	169.0	sacks	12.8	2.07	10.67	8	10.67
10.67 Gal		FRESH WATER							
6	Displacement	FRESH WATER	207.40	bbl	.	.0	.0	8	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)	405.0	sacks	12.5	1.97	10.96	2	10.96
10.96 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	207.4	Shut In: Instant		Lost Returns	YES	Cement Slurry	639.3	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	5	Actual Displacement	207.4	Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	931.7
Rates									
Circulating		Mixing	8	Displacement	8	Avg. Job	8		
Cement Left In Pipe	Amount	42.9 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

Sold To #: 344034		Ship To #: 8372866		Quote #:		Sales Order #: 8372866	
Customer: OXY GRAND JUNCTION EBUSINESS				Customer Rep: Benevides, Victor			
Well Name: Cascade Creek			Well #: 697-08-33B			API/UWI #: 05-045-20057	
Field: GRAND VALLEY		City (SAP):		County/Parish: Garfield			State: Colorado
Legal Description:							
Lat: N 39.534 deg. OR N 39 deg. 32 min. 2.404 secs.				Long: W 108.242 deg. OR W -109 deg. 45 min. 29.434 secs.			
Contractor: H&P 330			Rig/Platform Name/Num: H&P 330				
Job Purpose: Cement Surface Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: ROYSTER, JACOB			Srvc Supervisor: YOUNG, JEREMY			MBU ID Emp #: 418013	

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/01/2011 18:00							TD 2747 FT, TP2731 FT, SHOE 42.88 FT, HOLE 14 3/4 IN, MUD WT 8.8 PPG, CSG 9 5/8 IN 36 LB/FT J-55
Pre-Convoy Safety Meeting	09/01/2011 19:50							WITH ALL HES PERSONNEL
Crew Leave Yard	09/01/2011 20:00							
Arrive At Loc	09/01/2011 22:30							RIG WAS RUNNING CASING UPON HES ARRIVAL
Assessment Of Location Safety Meeting	09/02/2011 02:00							WITH ALL HES PERSONNEL
Other	09/02/2011 02:10							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	09/02/2011 02:20							WITH ALL HES PERSONNEL
Rig-Up Equipment	09/02/2011 02:30							
Pre-Job Safety Meeting	09/02/2011 03:30							WITH ALL PERSONNEL ON LOCATION
Start Job	09/02/2011 03:47							
Other	09/02/2011 03:47		2	2			81.0	FILL LINES WITH FRESH WATER
Test Lines	09/02/2011 03:50							TEST LINES TO 2900 PSI. PRESSURE HOLDING
Pump Spacer 1	09/02/2011 03:58		4	20			140.0	FRESH WATER
Pump Spacer 2	09/02/2011 04:07		3	20			80.0	GEL WATER
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Sold To # : 344034 Ship To # : 8372866 Quote # : Sales Order # : 8372866

Shutdown	09/02/2011 04:21							RECIRCULATING PUMP ON ELITE PUMP TRUCK WENT OUT. HAD TO TURN OVER TO RIG AND WAIT FOR ANOTHER TRUCK. NO CEMENT HAD BEEN PUMPED BEFORE TURNING BACK OVER TO RIG.
Comment	09/02/2011 04:30							SECOND PUMP TRUCK ARRIVED ON LOCATION AT 07:30. CUSTOMER WAS NOT CHARGED FOR THE 3 HRS OF WAITING ON SECOND TRUCK.
Start Job	09/02/2011 07:44							
Other	09/02/2011 07:45		2	2			38.0	FILL LINES WITH FRESH WATER
Test Lines	09/02/2011 07:49							TEST LINES TO 3600 PSI. PRESSURE HOLDING
Pump Spacer 1	09/02/2011 07:55		4	20			116.0	FRESH WATER
Pump Lead Cement	09/02/2011 08:05		8	434.9			360.0	1048 SKS AT 12.3 PPG, 2.33 FT3/SK, 12.62 GAL/SK
Pump Tail Cement	09/02/2011 09:15		8	62.3			400.0	169 SKS AT 12.8 PPG, 2.07 FT3/SK, 10.67 GAL/SK
Shutdown	09/02/2011 09:24							
Drop Top Plug	09/02/2011 09:25							PLUG LAUNCHED
Pump Displacement	09/02/2011 09:26		8	197.4			630.0	FRESH WATER
Slow Rate	09/02/2011 09:49		2	10			430.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	09/02/2011 09:56		2		207.4		1030.0	PLUG BUMPED
Check Floats	09/02/2011 10:01							FLOATS HOLDING. RETURNED 1 BBL H2O TO PUMP
Pressure Test	09/02/2011 10:10						1500.0	PRESSURE TEST CASING TO 1500 PSI FOR 30 MINUTES AS PER COMPANY REP
Release Casing Pressure	09/02/2011 10:42							RETURNED 1.5 BBL H2O TO PUMP

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Water	09/02/2011 10:57		1	10			118.0	PUMP SUGAR WATER DOWN PARASITE STRING
Shutdown	09/02/2011 11:06							
End Job	09/02/2011 11:08							PIPE WAS STATIC DURING JOB. NO CIRCULATION THROUGHOUT JOB.
Start Job	09/02/2011 12:38							TOPOUT JOB #1. TRIED TO USE ORIGINAL PUMP TRUCK ON TOP OUT STAGES AFTER FIXING RICIRCULATING PUMP BUT THE ORIGINAL PUMP WENT DOWN AGAIN.
Pump Water	09/02/2011 12:38		1	1			40.0	PUMP WATER AHEAD TO CLEAR LINES
Shutdown	09/02/2011 12:39							SHUTDOWN TO MIX UP CEMENT TUB.
Pump Cement	09/02/2011 12:46		2	9.8			50.0	28 SKS AT 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK
Shutdown	09/02/2011 12:50							
Pump Water	09/02/2011 12:53		2	3			33.0	PUMP WATER BEHIND TO CLEAR LINES
Shutdown	09/02/2011 12:55							
End Job	09/02/2011 12:56							HES DID NOT RETURN CEMENT TO SURFACE
Start Job	09/02/2011 14:16							TOPOUT JOB #2
Pump Water	09/02/2011 14:16		1	1			13.0	PUMP WATER AHEAD TO CLEAR LINES
Shutdown	09/02/2011 14:16							SHUTDOWN TO MIX UP CEMENT
Pump Cement	09/02/2011 14:16		2	51.9			60.0	148 SKS AT 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK
Pump Water	09/02/2011 14:16		2	3			40.0	PUMP WATER BEHIND TO CLEAR LINES
Shutdown	09/02/2011 14:16							

Cementing Job Log

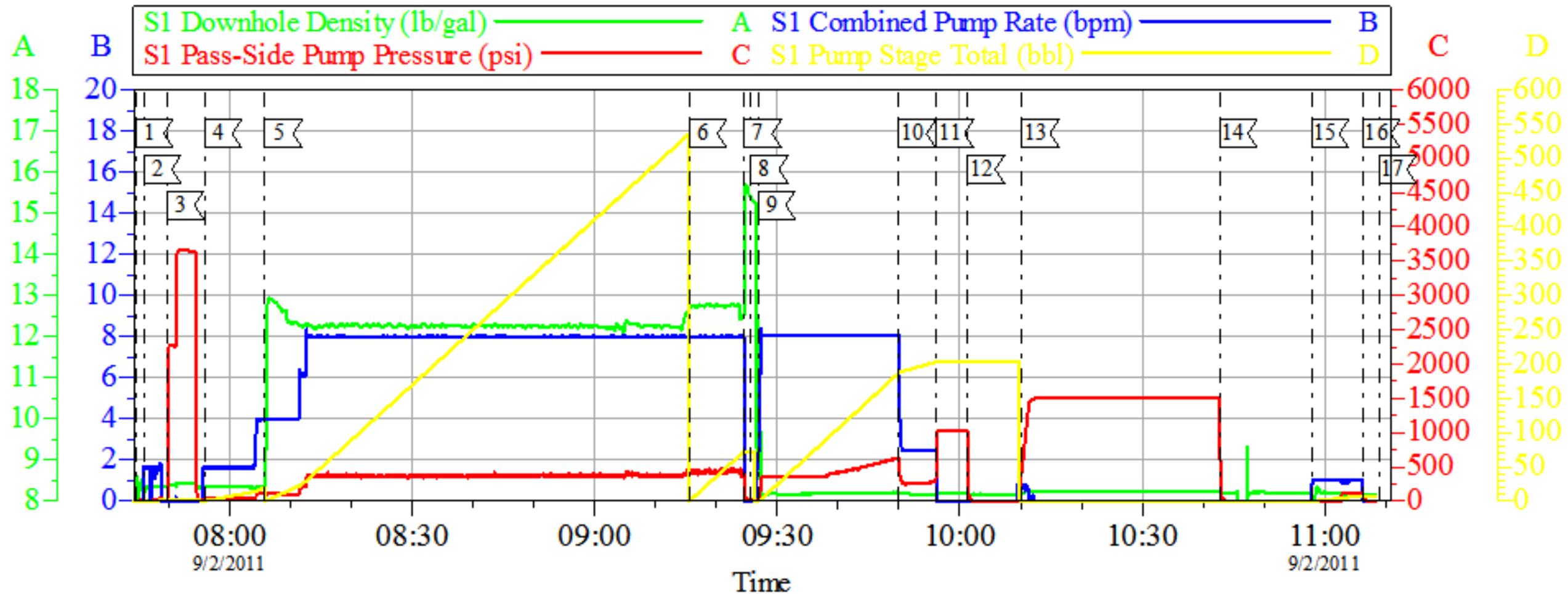
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
End Job	09/02/2011 14:16							HES DID NOT RETURN CEMENT TO SURFACE
Start Job	09/02/2011 15:38							TOPOUT JOB #3
Pump Water	09/02/2011 15:38		1	1			48.0	PUMP WATER AHEAD TO CLEAR LINES
Shutdown	09/02/2011 15:39							SHUTDOWN TO MIX UP CEMENT TUB
Pump Cement	09/02/2011 15:43		2	52.3			97.0	149 SKS AT 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK
Pump Water	09/02/2011 16:11		2	3			88.0	PUMP WATER BEHIND TO CLEAR LINES
Shutdown	09/02/2011 16:13							
End Job	09/02/2011 16:13							HES DID NOT RETURN CEMENT TO SURFACE
Start Job	09/02/2011 21:48							TOPOUT JOB #4
Pump Water	09/02/2011 21:49		1	1.5			18.0	PUMP WATER AHEAD TO CLEAR LINES
Shutdown	09/02/2011 21:50							SHUTDOWN TO MIX UP CEMENT TUP
Pump Cement	09/02/2011 21:54		2	22.1			50.0	80 SKS AT 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK
Shutdown	09/02/2011 22:05							SHUTDOWN TO SEE IF CEMENT FALLS BACK
Resume	09/02/2011 22:10		2	2			48.0	RESUME PUMPING AFTER CEMENT FELL
Shutdown	09/02/2011 22:11				24.1			SHUTDOWN TO SEE IF CEMENT FALLS BACK
Resume	09/02/2011 22:19		2	4			59.0	RESUME PUMPING AFTER CEMENT FELL
Shutdown	09/02/2011 22:21				28.1			
Pump Water	09/02/2011 22:23		2	2			42.0	PUMP WATER BEHIND TO CLEAR LINES
Shutdown	09/02/2011 22:24							
End Job	09/02/2011 22:24							HES RETURNED 5 BBLs OF CEMENT TO SURFACE
Pre-Rig Down Safety Meeting	09/02/2011 22:40							WITH ALL HES PERSONNEL
Rig-Down Equipment	09/02/2011 22:50							

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pre-Convoy Safety Meeting	09/03/2011 00:20							WITH ALL HES PERSONNEL
Crew Leave Location	09/03/2011 00:30							TOPOUT TRUCK WITH APPROX 300 SKS OF CEMENT WAS LEFT ON OLD LOCATION.
Comment	09/03/2011 00:31							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. JEREMY YOUNG AND CREW.

OXY

CC 607-08-33B, 9 5/8 SURFACE



Local Event Log

1 START JOB	07:44:31	2 FILL LINES	07:45:49
3 TEST LINES	07:49:35	4 PUMP H2O SPACER	07:55:48
5 PUMP LEAD CEMENT	08:05:46	6 PUMP TAIL CEMENT	09:15:32
7 SHUTDOWN	09:24:33	8 DROP TOP PLUG	09:25:41
9 PUMP DISPLACEMENT	09:26:49	10 SLOW RATE	09:49:56
11 BUMP PLUG	09:56:10	12 CHECK FLOATS	10:01:14
13 PRESSURE TEST CASING	10:10:15	14 RELEASE PRESSURE	10:42:47
15 PUMP DOWN PARASITE STRING	10:57:51	16 SHUTDOWN	11:06:18
17 END JOB	11:08:56		

Customer: OXY
Well Description: CC 697-08-33B
Customer Rep: VICTOR BENEVIDES

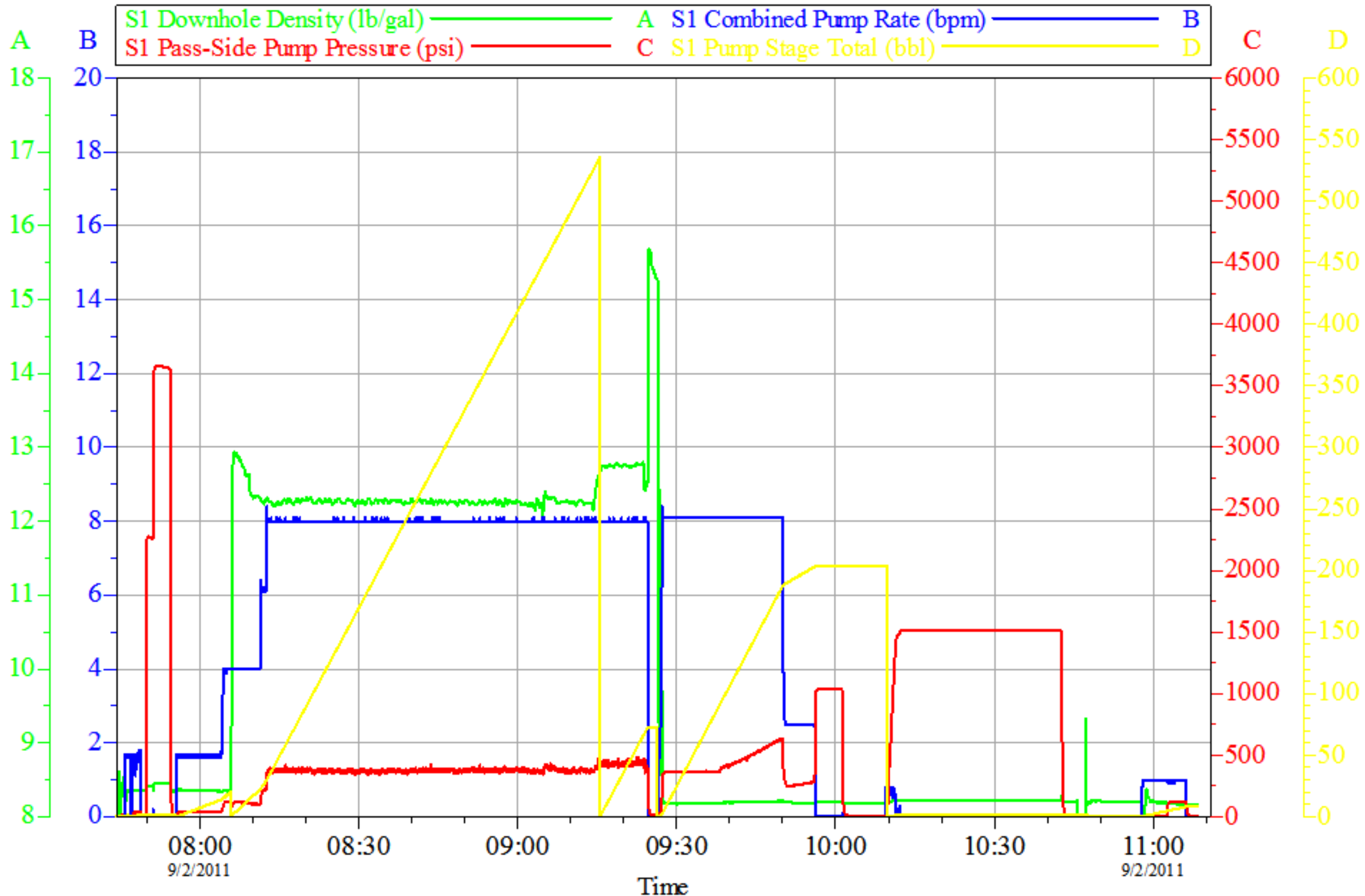
Job Date: 02-Sep-2011
Job Type: SURFACE
Service Supervisor: JEREMY YOUNG

Sales Order #: 8372866
ADC Used: YES
Pump #/Operator: 7/RYON NICKLE

Opti Cem v6.4.10
02-Sep-11 11:24

OXY

CC 607-08-33B, 9 5/8 SURFACE



Customer: OXY
Well Description: CC 697-08-33B
Customer Rep: VICTOR BENEVIDES

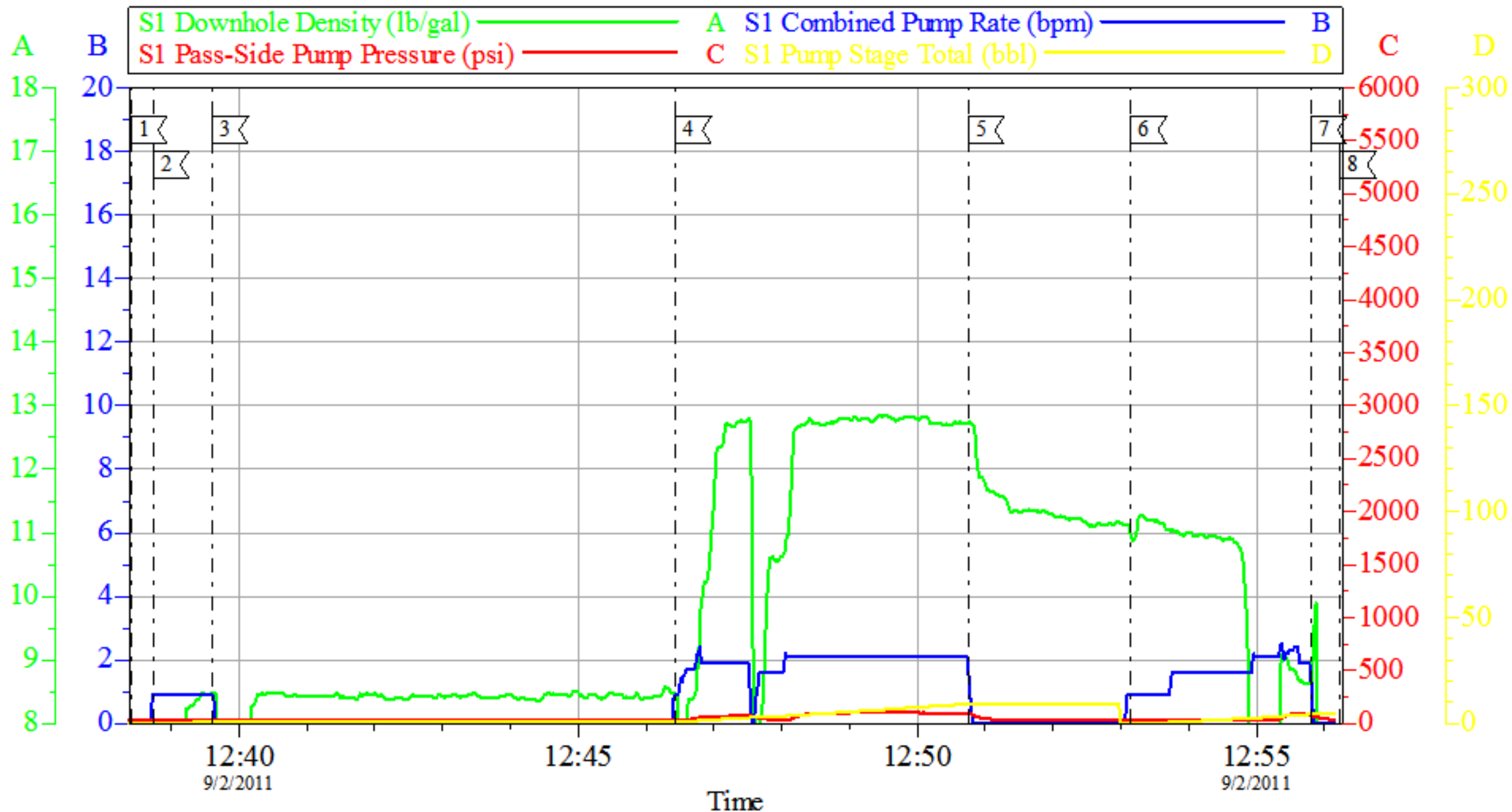
Job Date: 02-Sep-2011
Job Type: SURFACE
Service Supervisor: JEREMY YOUNG

Sales Order #: 8372866
ADC Used: YES
Pump #/Operator: 7/RYON NICKLE

Opti Cem v6.4.10
02-Sep-11 11:26

OXY

CC 697-08-33B, TOPOUT #1



Local Event Log

1 START JOB	12:38:24	2 PUMP WATER AHEAD	12:38:44	3 SHUTDOWN	12:39:36
4 PUMP CEMENT	12:46:26	5 SHUTDOWN	12:50:45	6 PUMP WATER BEHIND	12:53:09
7 SHUTDOWN	12:55:48	8 END JOB	12:56:14		

Customer: OXY
Well Description: CC 697-08-33B
Customer Rep: VICTOR BENEVIDES

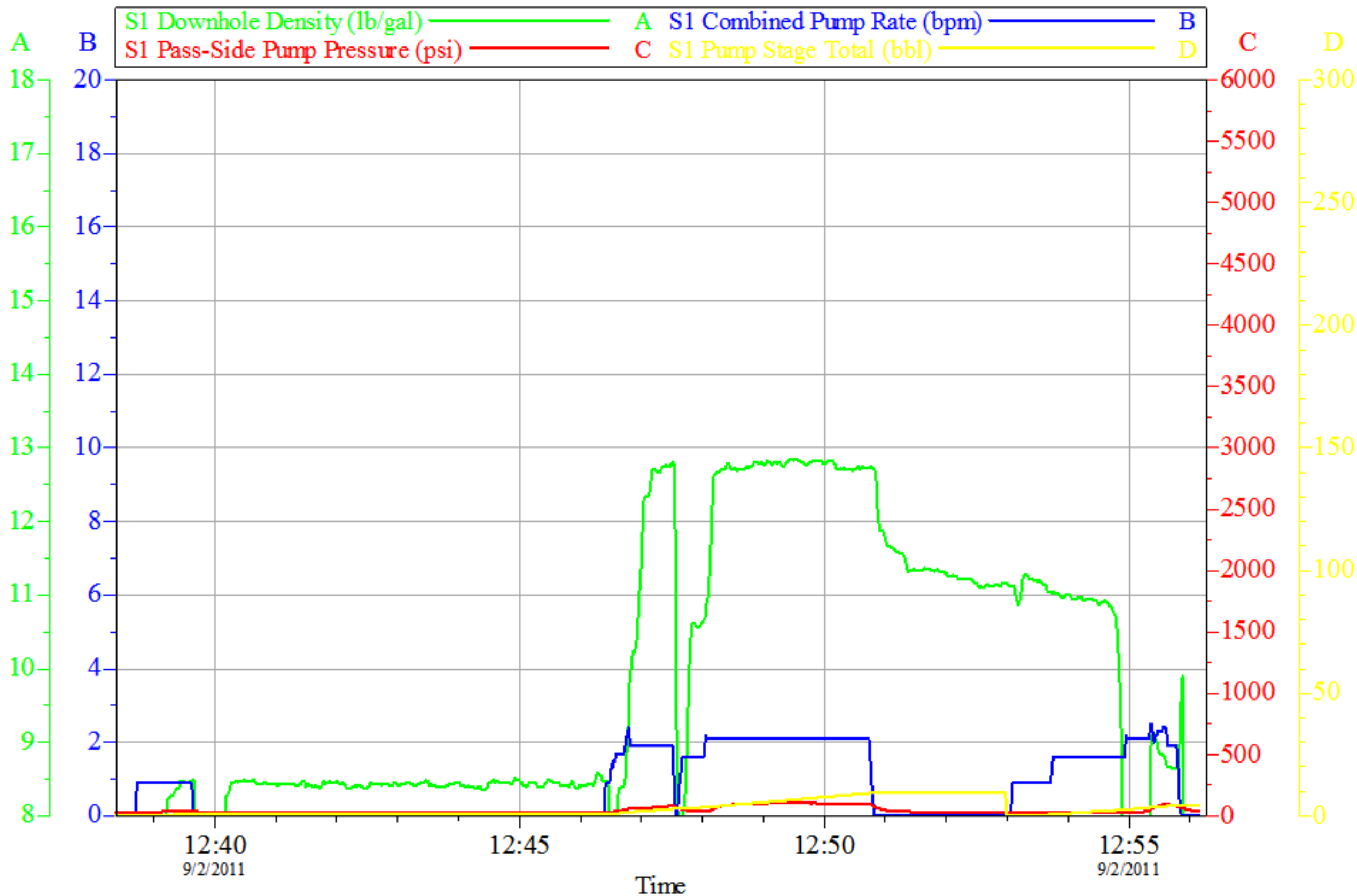
Job Date: 02-Sep-2011
Job Type: TOPOUT
Service Supervisor: JEREMY YOUNG

Sales Order #: 8372866
ADC Used: YES
Pump #/Operator: 6/DEAN DANIEL

Opti Cem v6.4.10
02-Sep-11 13:03

OXY

CC 697-08-33B, TOPOUT #1



Customer: OXY
 Well Description: CC 697-08-33B
 Customer Rep: VICTOR BENEVIDES

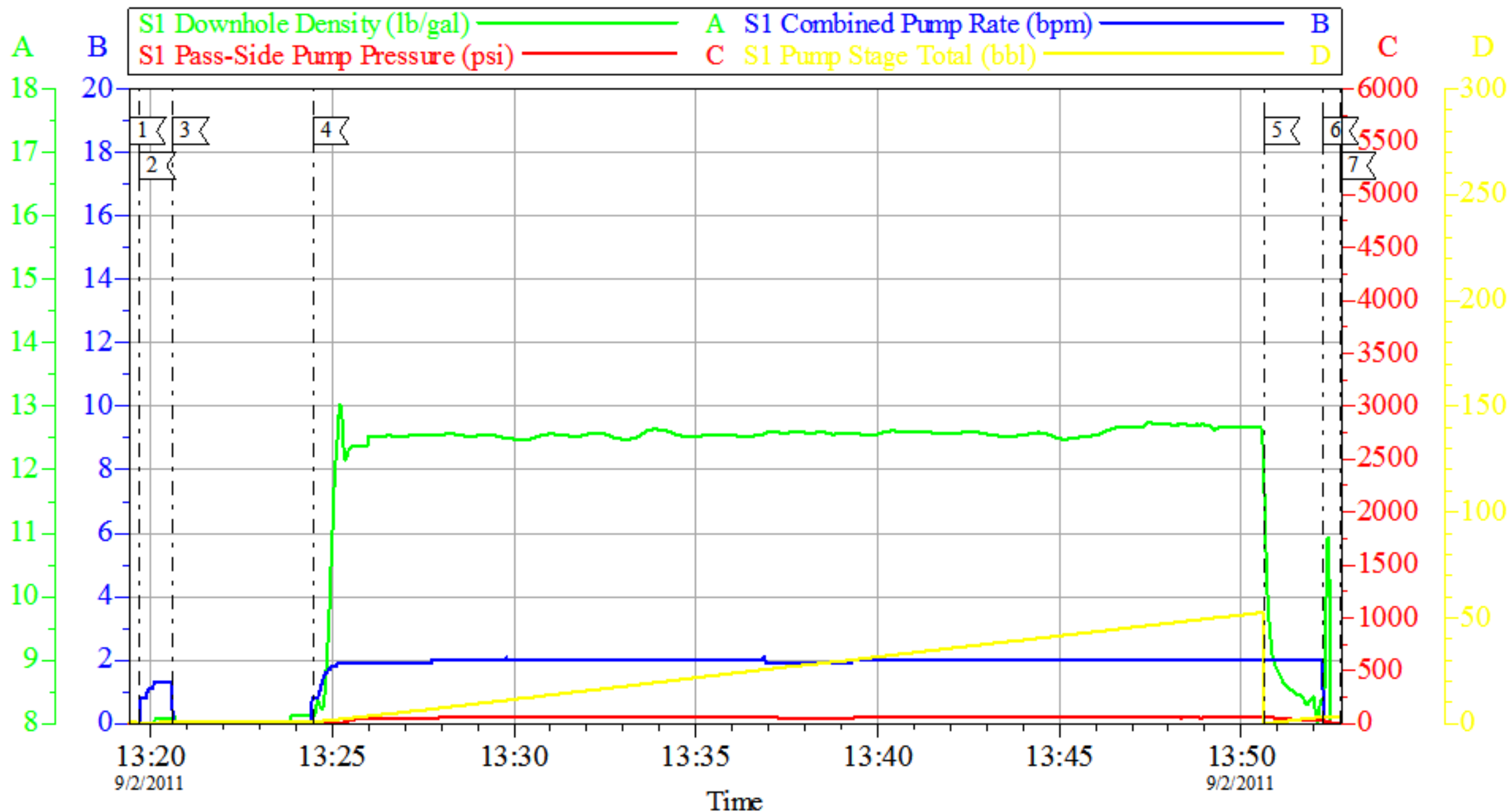
Job Date: 02-Sep-2011
 Job Type: TOPOUT
 Service Supervisor: JEREMY YOUNG

Sales Order #: 8372866
 ADC Used: YES
 Pump #/Operator: 6/DEAN DANIEL

Opti Cem v6.4.10
 02-Sep-11 13:04

OXY

CC 697-08-33B, TOPOUT #2



Local Event Log

1 START JOB	13:19:26	2 PUMP WATER AHEAD	13:19:42	3 SHUTDOWN	13:20:37
4 PUMP CEMENT	13:24:28	5 PUMP WATER BEHIND	13:50:38	6 SHUTDOWN	13:52:15
7 END JOB	13:52:44				

Customer: OXY
Well Description: CC 697-08-33B
Customer Rep: VICTOR BENEVIDES

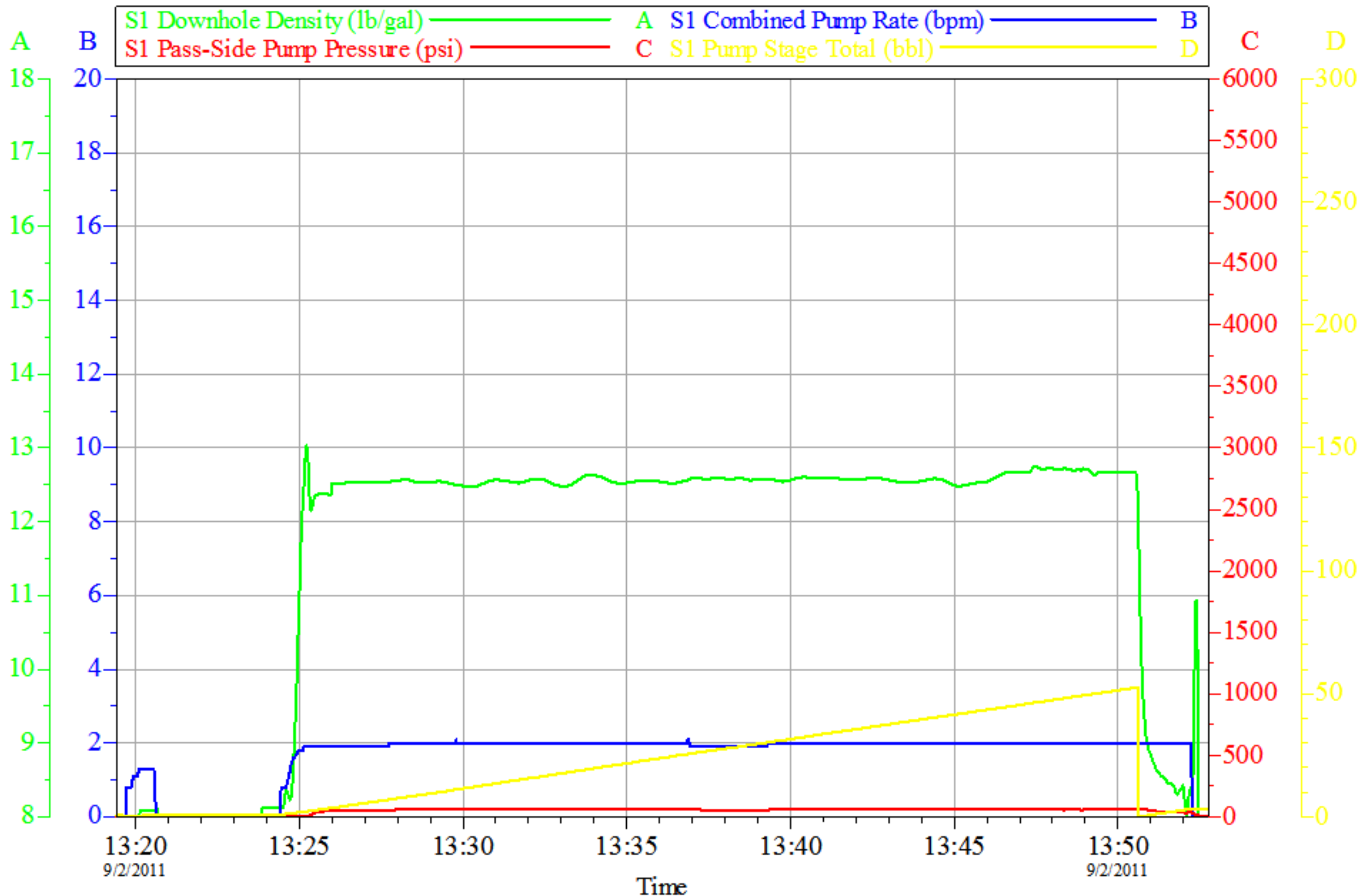
Job Date: 02-Sep-2011
Job Type: TOPOUT
Service Supervisor: JEREMY YOUNG

Sales Order #: 8372866
ADC Used: YES
Pump #/Operator: 7/RYON NICKLE

Opti Cem v6.4.10
02-Sep-11 14:06

OXY

CC 697-08-33B, TOPOUT #2



Customer: OXY
 Well Description: CC 697-08-33B
 Customer Rep: VICTOR BENEVIDES

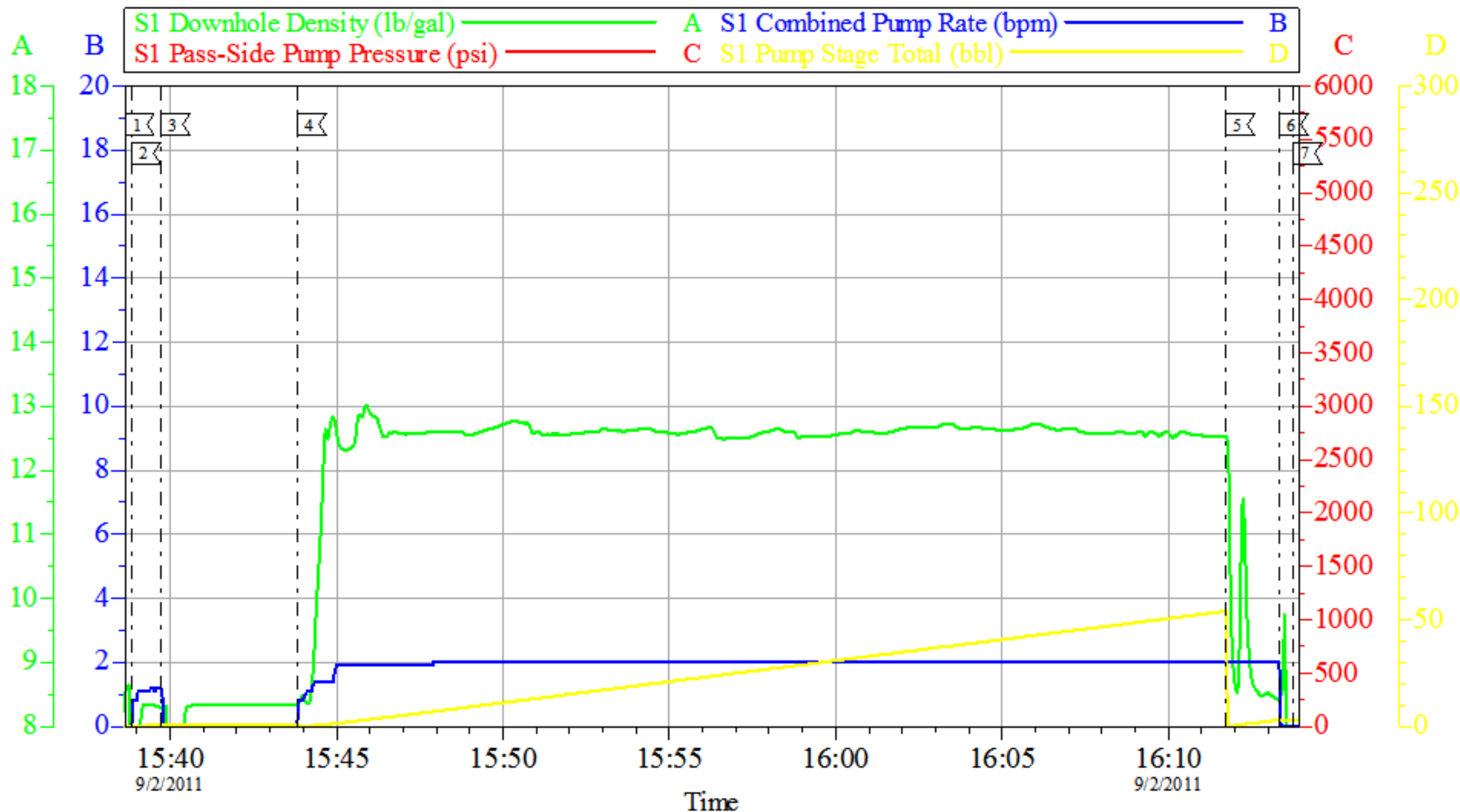
Job Date: 02-Sep-2011
 Job Type: TOPOUT
 Service Supervisor: JEREMY YOUNG

Sales Order #: 8372866
 ADC Used: YES
 Pump #/Operator: 7/RYON NICKLE

Opti Cem v6.4.10
 02-Sep-11 14:07

OXY

CC 697-08-33B, TOPOUT #3



Local Event Log

1 START JOB	15:38:40	2 PUMP WATER AHEAD	15:38:51	3 SHUTDOWN	15:39:44
4 PUMP CEMENT	15:43:50	5 PUMP WATER BEHIND	16:11:44	6 SHUTDOWN	16:13:20
7 END JOB	16:13:46				

Customer: OXY
Well Description: CC 697-08-33B
Customer Rep: VICTOR BENEVIDES

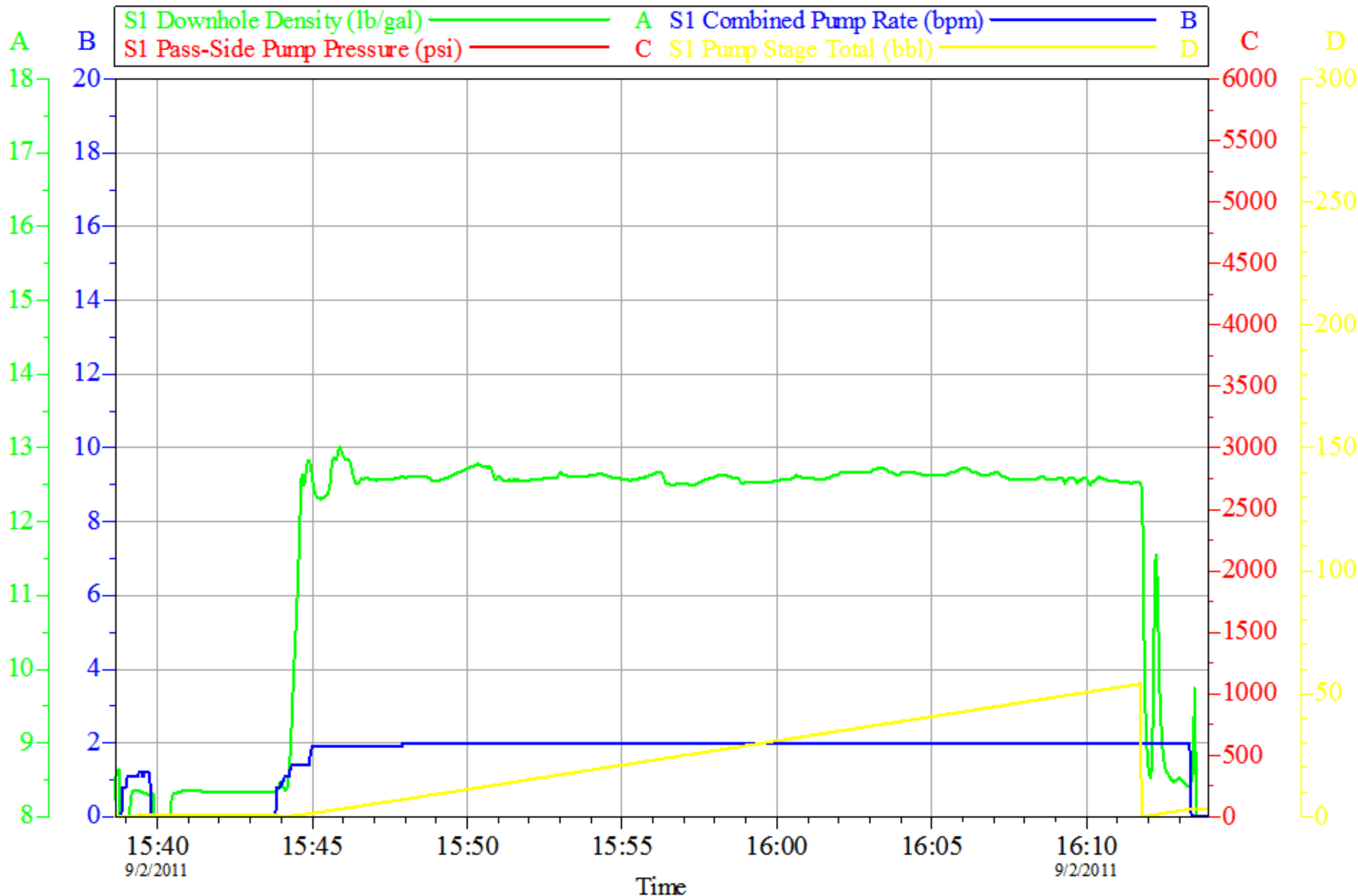
Job Date: 02-Sep-2011
Job Type: TOPOUT
Service Supervisor: JEREMY YOUNG

Sales Order #: 8372866
ADC Used: YES
Pump #/Operator: 7/DEAN DANIEL

Opti Cem v6.4.10
02-Sep-11 16:20

OXY

CC 697-08-33B, TOPOUT #3



Customer: OXY
Well Description: CC 697-08-33B
Customer Rep: VICTOR BENEVIDES

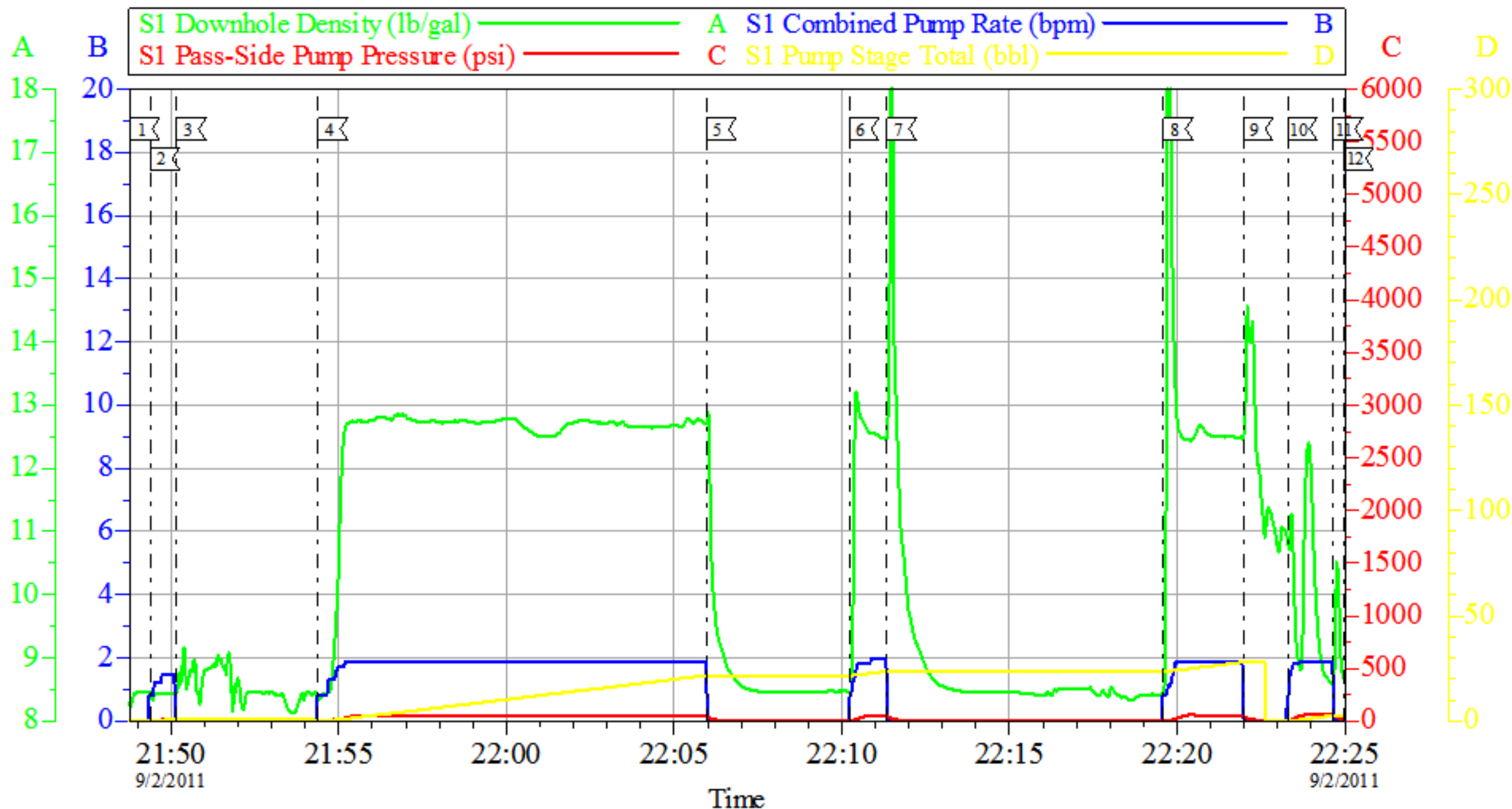
Job Date: 02-Sep-2011
Job Type: TOPOUT
Service Supervisor: JEREMY YOUNG

Sales Order #: 8372866
ADC Used: YES
Pump #/Operator: 7/DEAN DANIEL

Opti Cem v6.4.10
02-Sep-11 16:22

OXY

CC 697-08-33B, TOPOUT #4



Local Event Log

1 START JOB	21:48:47	2 PUMP WATER AHEAD	21:49:22	3 SHUTDOWN	21:50:10
4 PUMP CEMENT	21:54:23	5 SHUTDOWN	22:05:58	6 RESUME PUMPING	22:10:13
7 SHUTDOWN	22:11:21	8 RESUME PUMPING	22:19:36	9 SHUTDOWN	22:21:58
10 PUMP WATER BEHIND	22:23:18	11 SHUTDOWN	22:24:39	12 END JOB	22:24:58

Customer: OXY
Well Description: CC 697-08-33B
Customer Rep: VICTOR BENEVIDES

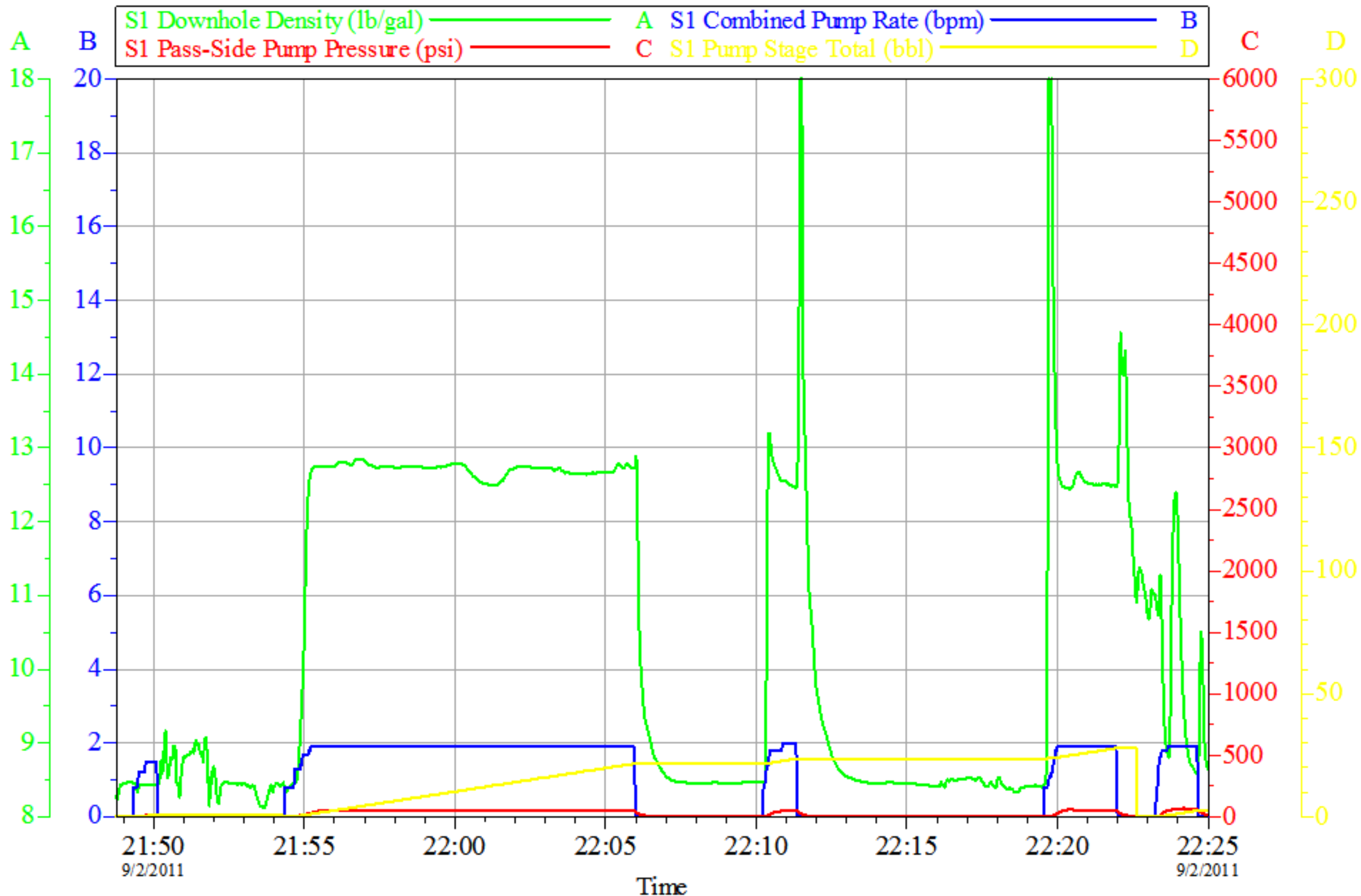
Job Date: 02-Sep-2011
Job Type: TOPOUT
Service Supervisor: JEREMY YOUNG

Sales Order #: 8372866
ADC Used: YES
Pump #/Operator: 7/DEAN DANIEL

Opti Cem v6.4.10
02-Sep-11 22:41

OXY

CC 697-08-33B, TOPOUT #4



Customer: OXY
 Well Description: CC 697-08-33B
 Customer Rep: VICTOR BENEVIDES

Job Date: 02-Sep-2011
 Job Type: TOPOUT
 Service Supervisor: JEREMY YOUNG

Sales Order #: 8372866
 ADC Used: YES
 Pump #/Operator: 7/DEAN DANIEL

Opti Cem v6.4.10
 02-Sep-11 22:41

Sales Order #: 8372866	Line Item: 10	Survey Conducted Date: 9/2/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: DEREK ADAM		API / UWI: (leave blank if unknown) 05-045-20057
Well Name: Cascade Creek		Well Number: 697-08-33B
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	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	9/2/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	JEREMY YOUNG (HX37077)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	DEREK ADAM
HSE	Was our HSE performance satisfactory? Circle Y or N	Yes
Equipment	Were you satisfied with our Equipment? Circle Y or N	No
Personnel	Were you satisfied with our people? Circle Y or N	Yes
Customer Comment	Customer's Comment	GOOD JOB EXCEPT FOR RECIRC GOING DOWN AND NEEDING DIFFERENT TRUCK
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.	

Sales Order #: 8372866	Line Item: 10	Survey Conducted Date: 9/2/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: DEREK ADAM		API / UWI: (leave blank if unknown) 05-045-20057
Well Name: Cascade Creek		Well Number: 697-08-33B
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: Garfield

CUSTOMER SIGNATURE

Sales Order #: 8372866	Line Item: 10	Survey Conducted Date: 9/2/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: DEREK ADAM		API / UWI: (leave blank if unknown) 05-045-20057
Well Name: Cascade Creek		Well Number: 697-08-33B
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	9/2/2011

Cementing KPI Survey	
Type of Job Select the type of job. (Cementing or Non-Cementing)	0
Select the Maximum Deviation range for this Job What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Deviated
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	10
HSE Incident, Accident, Injury HSE Incident, Accident, Injury. This should be recordable incidents only.	No
Was the job purpose achieved? Was the job delivered correctly as per customer agreed design?	Yes
Operating Hours (Pumping Hours) Total number of hours pumping fluid on this job. Enter in decimal format.	6
Customer Non-Productive Rig Time (hrs) 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.	3
Reason For Non-Productive Rig Time Reason For Non-productive Rig Time (Cementing PSL Responsibility)	PUMP TRUCK WENT DOWN AND CREW HAD TO WAIT 3 HRS FOR ANOTHER TRUCK
Type of Rig Classification Job Was Performed Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
Number Of JSAs Performed Number Of Jsas Performed	10

Sales Order #: 8372866	Line Item: 10	Survey Conducted Date: 9/2/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: DEREK ADAM		API / UWI: (leave blank if unknown) 05-045-20057
Well Name: Cascade Creek		Well Number: 697-08-33B
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: Garfield

Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	1
Reason For Unplanned Shutdown Reason For Unplanned Shutdowns (after Starting To Pump)	RECIRC PUMP WENT DOWN AND CREW WAITED FOR ANOTHER TRUCK
Was this a Primary Cement Job (Yes / No) Primary Cement Job= Casing job, Liner job, or Tie-back job.	Yes
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	90
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