
OXY GRAND JUNCTION EBUSINESS

**CC 697-04-67
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing
05-Apr-2012

Post Job Summary

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 344034	Quote #:	Sales Order #: 9410059
Customer: OXY GRAND JUNCTION EBUSINESS		Customer Rep: Benevides, Victor	
Well Name: CC		Well #: 697-04-67	API/UWI #: 05-045-20720
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.549 deg. OR N 39 deg. 32 min. 55.896 secs.		Long: W 108.23 deg. OR W -109 deg. 46 min. 11.676 secs.	
Contractor: OXY		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: KUKUS, CHRISTOPHER	MBU ID Emp #: 413952

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ENGBERG, KEVIN W	2.0	454218	HYDE, DUSTIN C	23.0	453940	KUKUS, CHRISTOPHER A	23.0	413952
MILLER II, MATTHEW Reginald	23.0	425164	SMITH, DUSTIN Michael	23.0	418015			

Equipment

HES Unit #	Distance-1 way						
10001431	120 mile	10867094	120 mile	10871245	120 mile	10897797	120 mile
10897925	120 mile	10938677	120 mile	10973565	120 mile	11259883	120 mile
11360881	120 mile	4904	120 mile	6374L	120 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
04/5/2012	12.5	6	04/6/2012	10.5	3			

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Date	Time	Time Zone
Formation Depth (MD) Top	Bottom	Called Out	05 - Apr - 2012 02:00 MST
Form Type	BHST	On Location	05 - Apr - 2012 11:30 MST
Job depth MD	2770. ft	Job Depth TVD	2770. ft
Water Depth		Job Started	05 - Apr - 2012 14:37 MST
Perforation Depth (MD) From	To	Job Completed	05 - Apr - 2012 08:49 MST
		Departed Loc	05 - Apr - 2012 10:30 MST

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
OPEN HOLE				14.75				.	2770.		
SURFACE CASING	New		9.625	8.921	36.		J-55	.	2719.		

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 5/8	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8	1	HES
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Conc	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	Fresh Water Spacer		10.00	bbl	8.33	.0	.0	4.0	
2	Gel Water Spacer		20.00	bbl	8.34	.0	.0	4.0	
0.25 gal/bbl		LGC-36 UC, BULK (101582749)							
3	Fresh Water Spacer		10.00	bbl	8.33	.0	.0	4.0	
4	Lead Cement	HALCEM (TM) SYSTEM (452986)	1190.0	sacks	12.3	2.15	11.83	6.0	11.83
11.83 Gal		FRESH WATER							
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	170.0	sacks	12.8	2.07	10.67	6.0	10.67
10.67 Gal		FRESH WATER							
6	Fresh Water Displacement		206.4	bbl	8.34	.0	.0	6.0	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)	500.0	sacks	12.5	1.97	10.96	2.0	10.96
10.96 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	206.4	Shut In: Instant		Lost Returns	0	Cement Slurry	508.4	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	.5	Actual Displacement	206.4	Treatment	
Frac Gradient		15 Min		Spacers	40	Load and Breakdown		Total Job	764.8
Rates									
Circulating		Mixing	6	Displacement	6	Avg. Job			6
Cement Left In Pipe	Amount	48.7 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

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Well Name: CC	Well #: 697-04-67	API/UWI #: 05-045-20720	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.549 deg. OR N 39 deg. 32 min. 55.896 secs.		Long: W 108.23 deg. OR W -109 deg. 46 min. 11.676 secs.	
Contractor: OXY		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: HIMES, JEFFREY		Srvc Supervisor: KUKUS, CHRISTOPHER	MBU ID Emp #: 413952

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	04/05/2012 02:00							ELITE # 8
Depart Yard Safety Meeting	04/05/2012 09:00							ALL HES EMPLOYEES
Arrive At Loc	04/05/2012 11:30							RIG RUNNING CASING
Assessment Of Location Safety Meeting	04/05/2012 13:00							ALL HES EMPLOYEES
Pre-Rig Up Safety Meeting	04/05/2012 13:15							ALL HES EMPLOYEES
Rig-Up Equipment	04/05/2012 13:30							1 F-550 PICKUP 1 HT-400 PUMP TRUCK 1 660 BULK TRUCK 1 SILO
Pre-Job Safety Meeting	04/05/2012 14:15							ALL HES EMPLOYEES AND RIG CREW
Start Job	04/05/2012 14:37							TD: 2770 TP: 2719 SJ: 48.73 MUD WT: 9.2 9 5/8 36# CSG 14 3/4 OH
Test Lines	04/05/2012 14:39					4615.0		PRESSURE TEST OK
Pump Spacer 1	04/05/2012 14:42		4	10	10		154.0	FRESH WATER
Pump Spacer 2	04/05/2012 14:44		4	20	20		115.0	LCG-36 GELLED H2O SPACER
Pump Spacer 1	04/05/2012 14:49		2	10	10		153.0	FRESH WATER
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

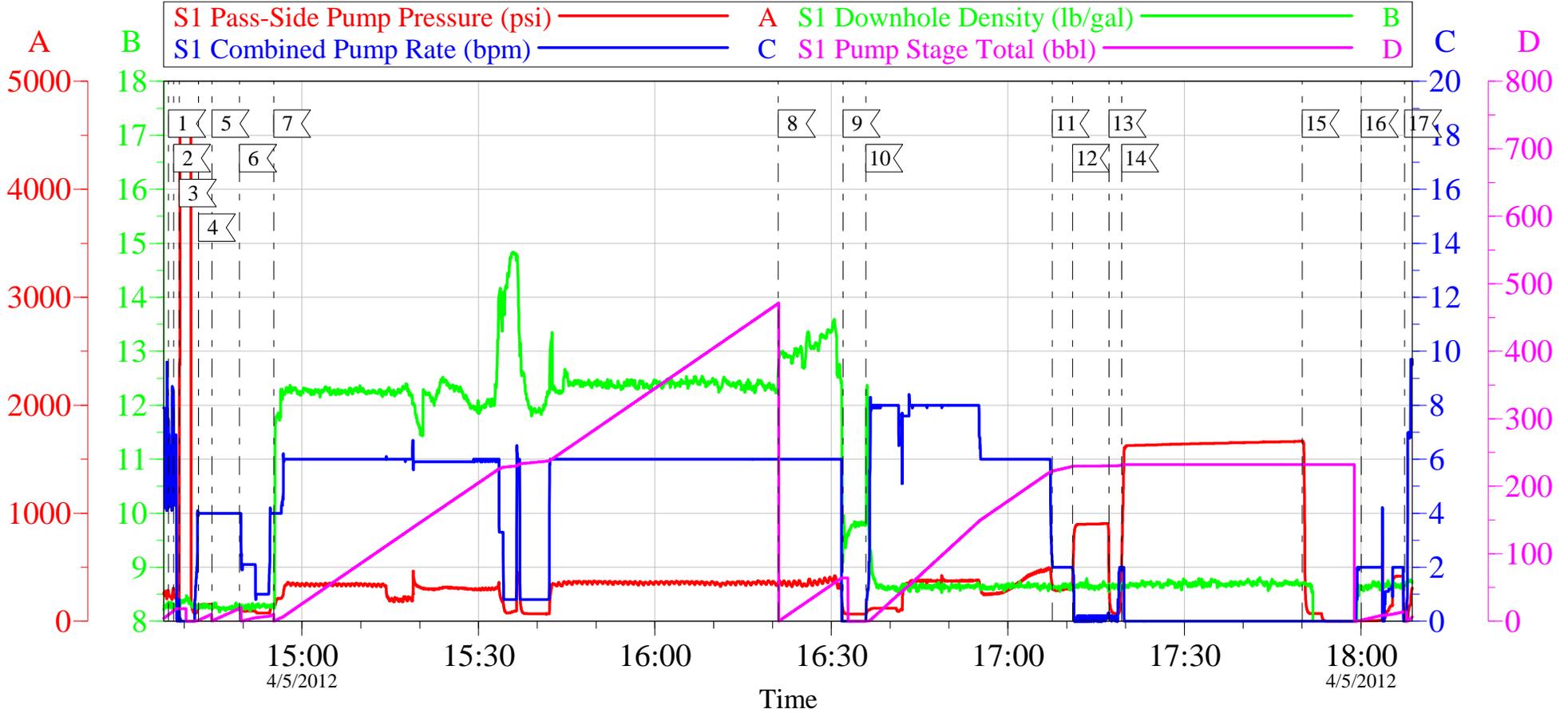
Pump Lead Cement	04/05/2012 14:55		6	455.7	455.7		358.0	1190 SKS 12.3 PPG 2.15 YIELD 11.83 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGHOUT LEAD CEMENT DURING LEAD CEMENT HAD A VALVE CLOSE WHICH CAUSE DENSITY TO DROP SLOWED RATE FOUND AND FIXED THE PROBLEM REWEIGHT TUB AND PICKED RATE BACK UP
Pump Tail Cement	04/05/2012 16:20		6	62.7	62.7		220.0	170 SKS 12.8 PPG 2.07 YIELD 10.67 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGHOUT TAIL CEMENT
Shutdown	04/05/2012 16:31							
Drop Plug	04/05/2012 16:32							PLUG AWAY NO PROBLEMS
Pump Displacement	04/05/2012 16:35		6	206.4	206.4		485.0	FRESH WATER
Slow Rate	04/05/2012 17:07		2	196.4	196.4		290.0	
Bump Plug	04/05/2012 17:11		2	206.4	206.4		310.0	BUMPED @ 310 TOOK UP TO 903 PSI
Check Floats	04/05/2012 17:17							FLOATS HELD 1 1/4 BBL BACK TO DISPLACEMENT TANKS
Other	04/05/2012 17:19		2	1	1		1665. 0	1500 PSI CASING TEST FOR 30 MINS
Other	04/05/2012 18:00		2	10	10		700.0	10 BBLs SUGAR WATER TO CLEAR PARASITE STRING
End Job	04/05/2012 18:07							NO CIRCULATION THROUGHOUT JOB NO PIPE MOVEMENT DURING JOB HES CREW WAITTING TO TOP OUT WELL
Start Job	04/05/2012 19:20							TOP OUT # 1
Other	04/05/2012 19:21		2	2	2	100.0		PRIME LINES WITH FRESH WATER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Cement	04/05/2012 19:22		2	35	35	93.0		100 SKS 12.5 PPG 1.97 YEILD 10.96 GAL/ SK TOP OUT CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGHOUT TOP OUT CEMENT
Other	04/05/2012 19:36		2	2	2	68.0		CLEAN LINES WITH FRESH WATER
End Job	04/05/2012 19:37							HES CREW WAIT FOR NEXT TOP OUT
Start Job	04/05/2012 21:41							TOP OUT #2
Other	04/05/2012 21:42		2	2	2	24.0		PRIME LINES WITH FRESH WATER
Pump Cement	04/05/2012 21:43		2.5	35	35	96.0		100 SKS 12.5 PPG 1.97 YEILD 10.96 GAL/ SK TOP OUT CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGHOUT TOP OUT CEMENT
Other	04/05/2012 21:56		2.5	2	2	65.0		CLEAN LINES WITH FRESH WATER
End Job	04/05/2012 21:58							HES CREW WAIT FOR NEXT TOP OUT
Start Job	04/06/2012 00:09							TOP OUT #3
Other	04/06/2012 00:10		2	2	2	41.0		PRIME LINES WITH FRESH WATER
Pump Cement	04/06/2012 00:12		2.5	63.7	63.7	94.0		181.5 SKS 12.5 PPG 1.97 YEILD 10.96 GAL/ SK TOP OUT CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGHOUT TOP OUT CEMENT
Other	04/06/2012 00:36		2.5	2	2	60.0		CLEAN LINES WITH FRESH WATER
End Job	04/06/2012 00:37							HES CREW WAIT FOR NEXT TOP OUT
Start Job	04/06/2012 02:33							TOP OUT # 4
Other	04/06/2012 02:33		2.5	2	2	75.0		PRIME LINES WITH FRESH WATER
Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl		Pressure psig		Comments

		#		Stage	Total	Tubing	Casing	
Pump Cement	04/06/2012 02:34		2.5	63.7	63.7	88.0		181.5 SKS 12.5 PPG 1.97 YEILD 10.96 GAL/ SK TOP OUT CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGHOUT TOP OUT CEMENT
Other	04/06/2012 02:59		2.5	2	2	64.0		CLEAN LINES WITH FRESH WATER
End Job	04/06/2012 03:00							HES CREW WAIT FOR NEXT TOP OUT
Start Job	04/06/2012 05:12							TOP OUT # 5
Other	04/06/2012 05:13		2	2.5	2.5	68.0		PRIME LINES WITH FRESH WATER
Pump Cement	04/06/2012 05:14		2.5	58	58	86.0		166 SKS 12.5 PPG 1.97 YEILD 10.96 GAL/ SK TOP OUT CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGHOUT TOP OUT CEMENT
Other	04/06/2012 05:36		2.5	2	2	65.0		CLEAR LINES WITH FRESH WATER
End Job	04/06/2012 05:37							HES CREW WAIT FOR NEXT TOP OUT
Start Job	04/06/2012 08:04							TOP OUT # 6
Other	04/06/2012 08:05		2.5	2	2	74.0		PRIME LINES FRESH WATER
Pump Cement	04/06/2012 08:05		2.5	58	58	85.0		166 SKS 12.5 PPG 1.97 YEILD 10.96 GAL/ SK TOP OUT CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGHOUT TOP OUT CEMENT
End Job	04/06/2012 08:49							RETURNED 1/2 BBL OF CEMENT TO SURFACE THEN FELL BACK
Pre-Rig Down Safety Meeting	04/06/2012 09:00							ALL HES EMPLOYEES
Rig-Down Equipment	04/06/2012 09:15							
Pre-Convoy Safety Meeting	04/06/2012 10:00							ALL HES EMPLOYEES
Crew Leave Location	04/06/2012 10:30							THANK YOU FOR USING HALLIBURTON CEMENT CHRIS KUKUS AND CREW

OXY - CC 697-04-67

9.625 SURFACE

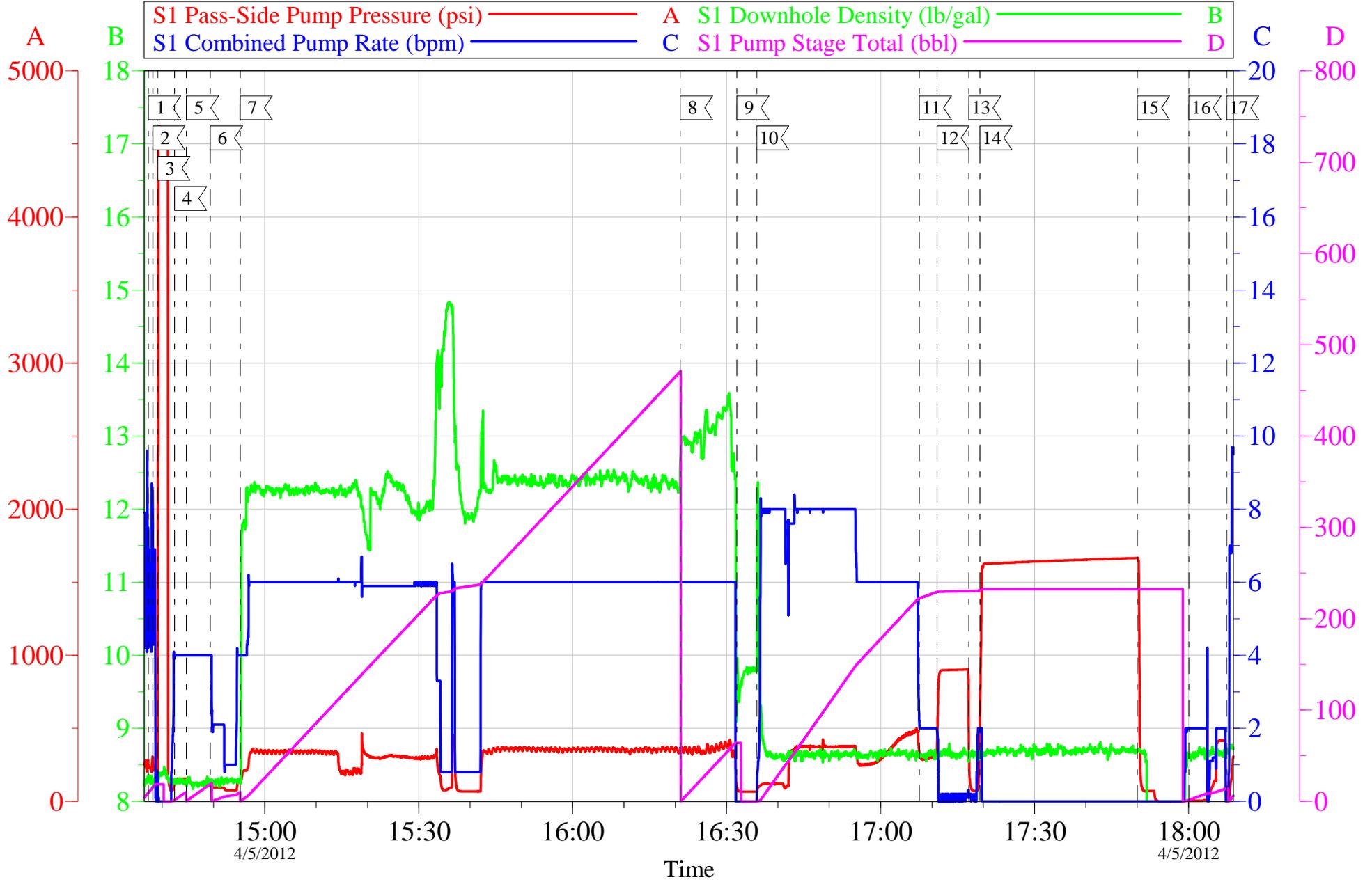


1	START JOB	14:37:21	2	FILL LINES	14:38:11	3	PRESSURE TEST	14:39:07
4	PUMP H2O SPACER	14:42:25	5	PUMP GEL SPACER	14:44:44	6	PUMP H2O SPACER	14:49:22
7	PUMP LEAD CEMENT	14:55:11	8	PUMP TAIL CEMENT	16:20:59	9	SHUT DOWN / DROP PLUG	16:31:59
10	PUMP H2O DISPLACEMENT	16:35:51	11	SLOW RATE	17:07:32	12	BUMP PLUG	17:11:01
13	RELEASE PRESSURE	17:17:12	14	CASING TEST	17:19:20	15	RELEASE PRESSURE	17:50:03
16	PUMP SUGAR WATER	18:00:06	17	SHUT DOWN / END JOB	18:07:26			

Customer: OXY	Job Date: 05-Apr-2012	Sales Order #: 9410059
Well Description: CC 697-04-67	Job Type: SURFACE	ADC Used: YES
Company Rep: VICTOR BENEVIDES	Cement Supervisor: CHRIS KUKUS	Elite # 8: REGGIE MILLER

OXY - CC 697-04-67

9.625 SURFACE

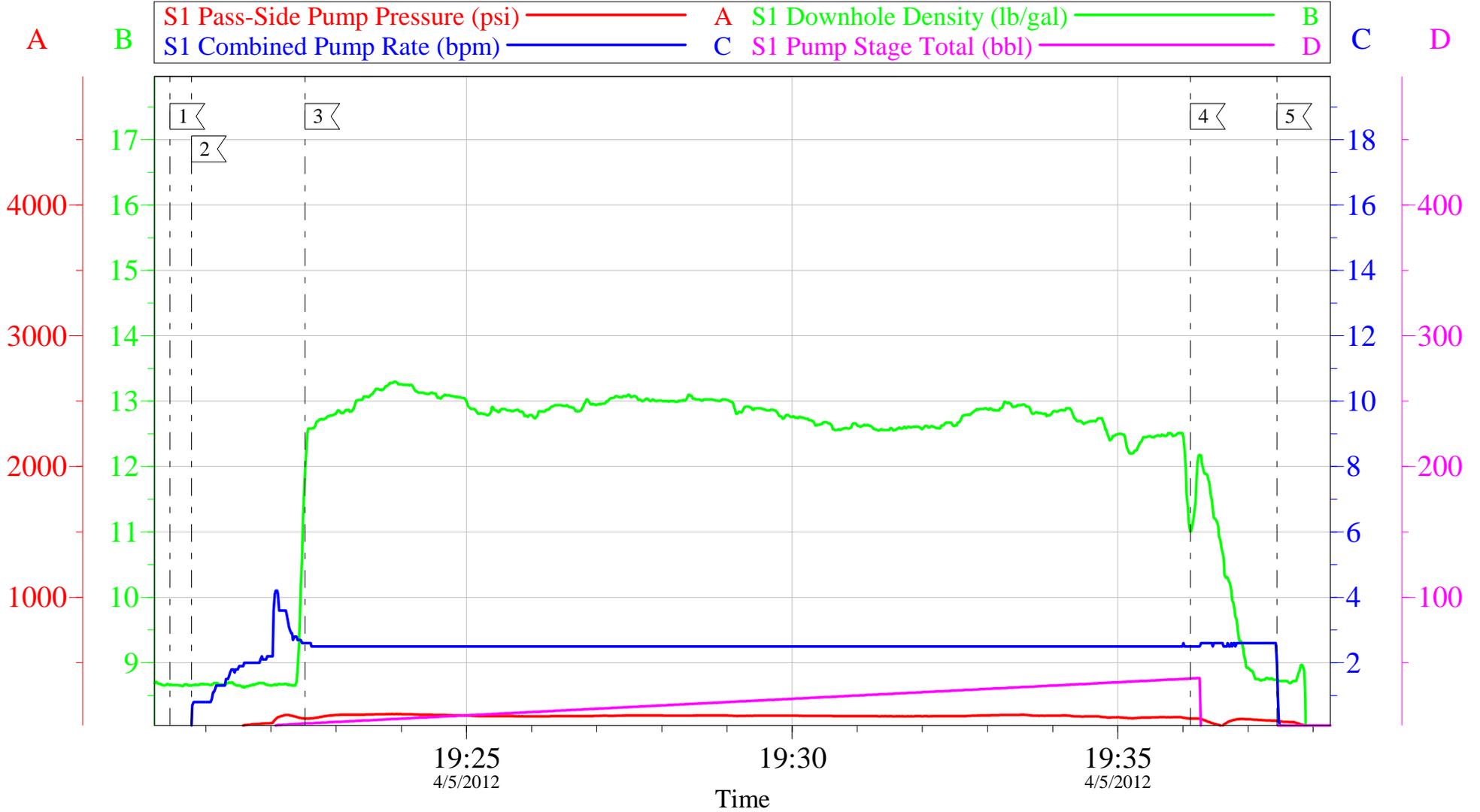


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Well Description: CC 697-04-67	Job Type: SURFACE	ADC Used: YES
Company Rep: VICTOR BENEVIDES	Cement Supervisor: CHRIS KUKUS	Elite # 8: REGGIE MILLER

OptiCem v6.4.10
05-Apr-12 18:20

OXY - 697-04-67

TOP OUT # 1



Local Event Log

1	STAR JOB	19:20:27	2	PRIME LINES	19:20:47	3	PUMP CEMENT	19:22:31
4	CLEAN LINES	19:36:07	5	SHUT DOWN / END JOB	19:37:27			

Customer: OXY
 Well Description: CC 697-04-67
 Company Rep: GRAHAM FLAGG

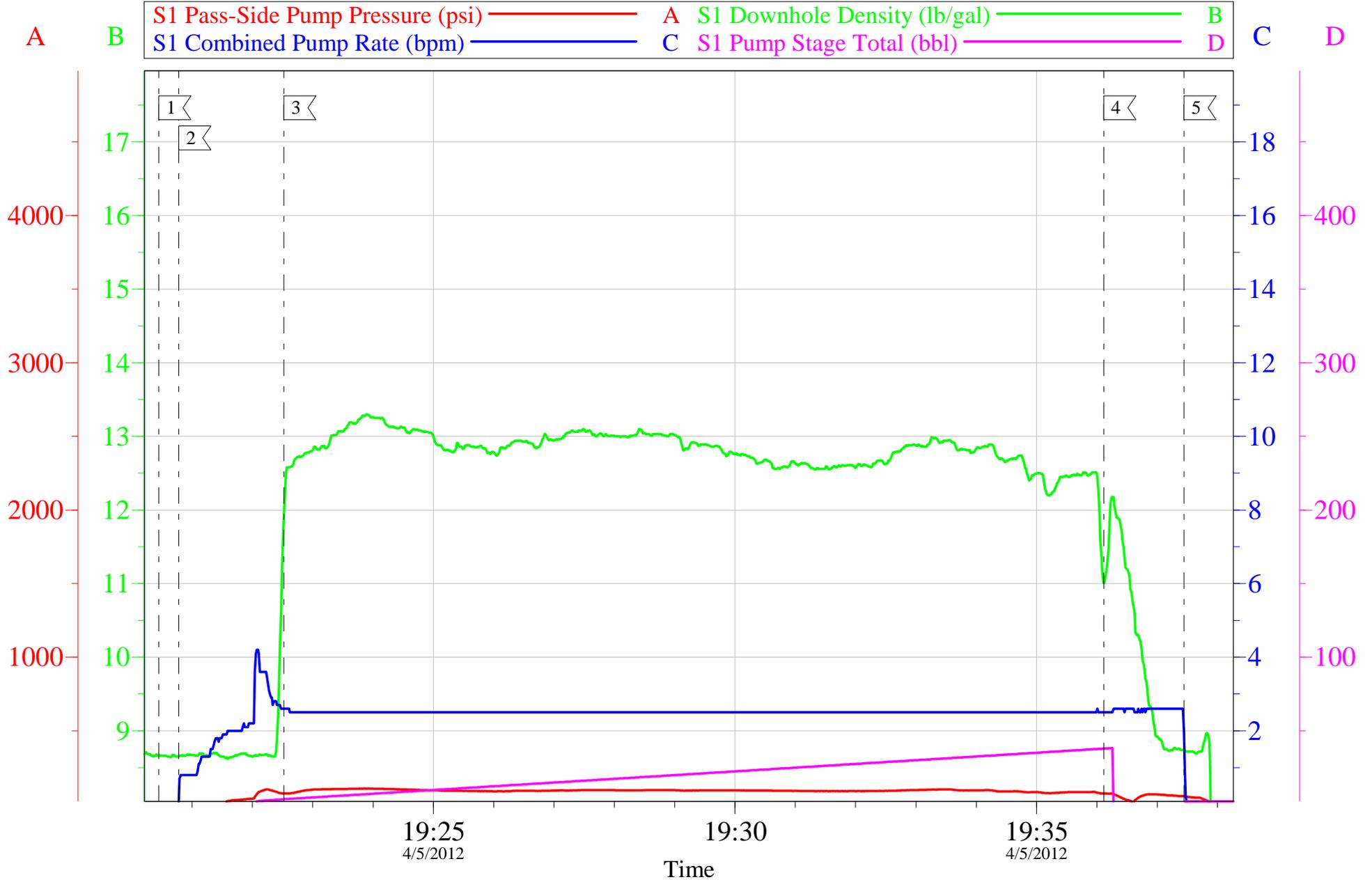
Job Date: 05-Apr-2012
 Job Type: TOP OUT
 Cement Supervisor: CHRIS KUKUS

Sales Order #: 9410059
 ADC Used: YES
 Elite # 8: REGGIE MILLER

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 05-Apr-12 19:43

OXY - 697-04-67

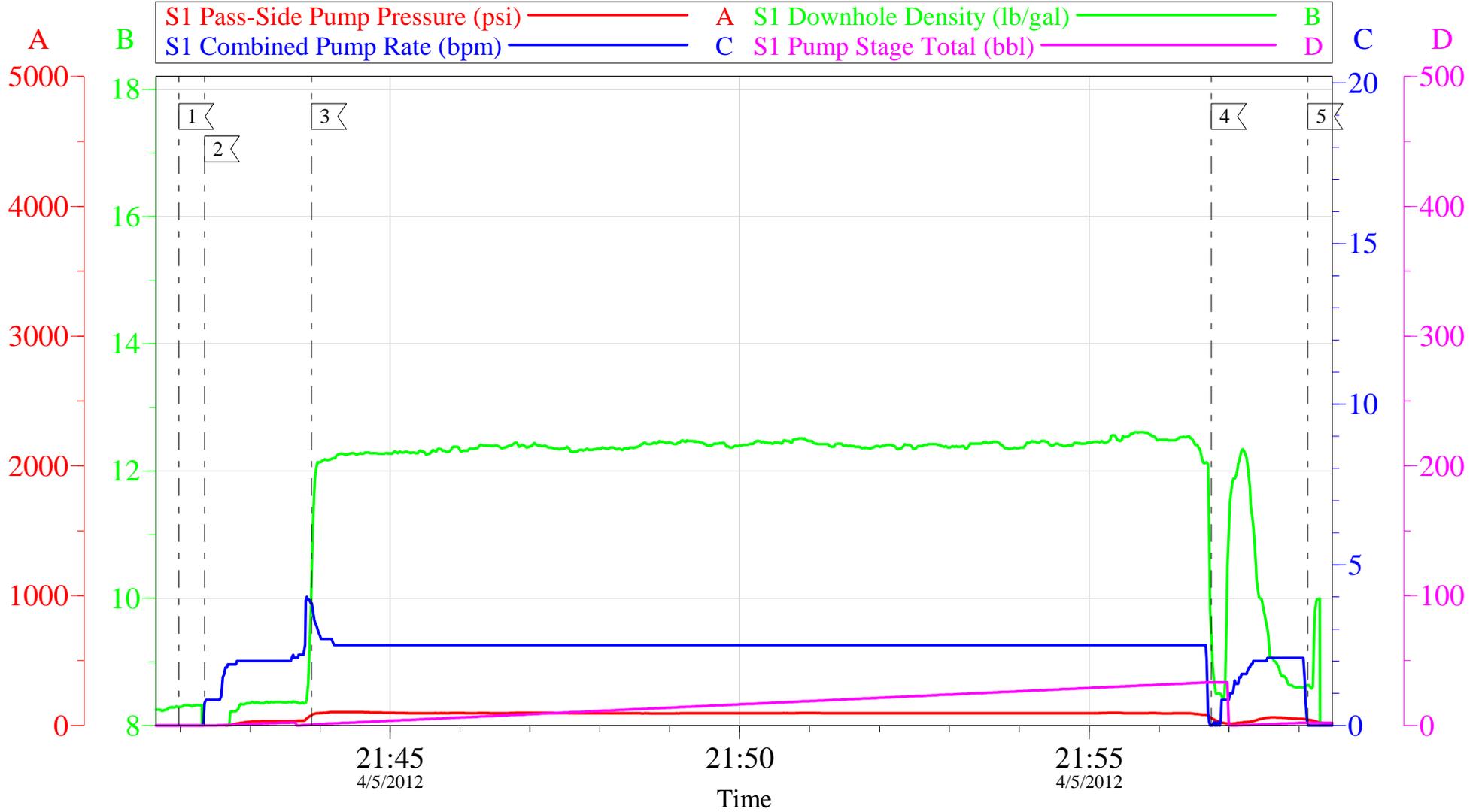
TOP OUT # 1



Customer: OXY	Job Date: 05-Apr-2012	Sales Order #: 9410059
Well Description: CC 697-04-67	Job Type: TOP OUT	ADC Used: YES
Company Rep: GRAHAM FLAGG	Cement Supervisor: CHRIS KUKUS	Elite # 8: REGGIE MILLER

OXY - CC 697-04-67

TOP OUT # 2

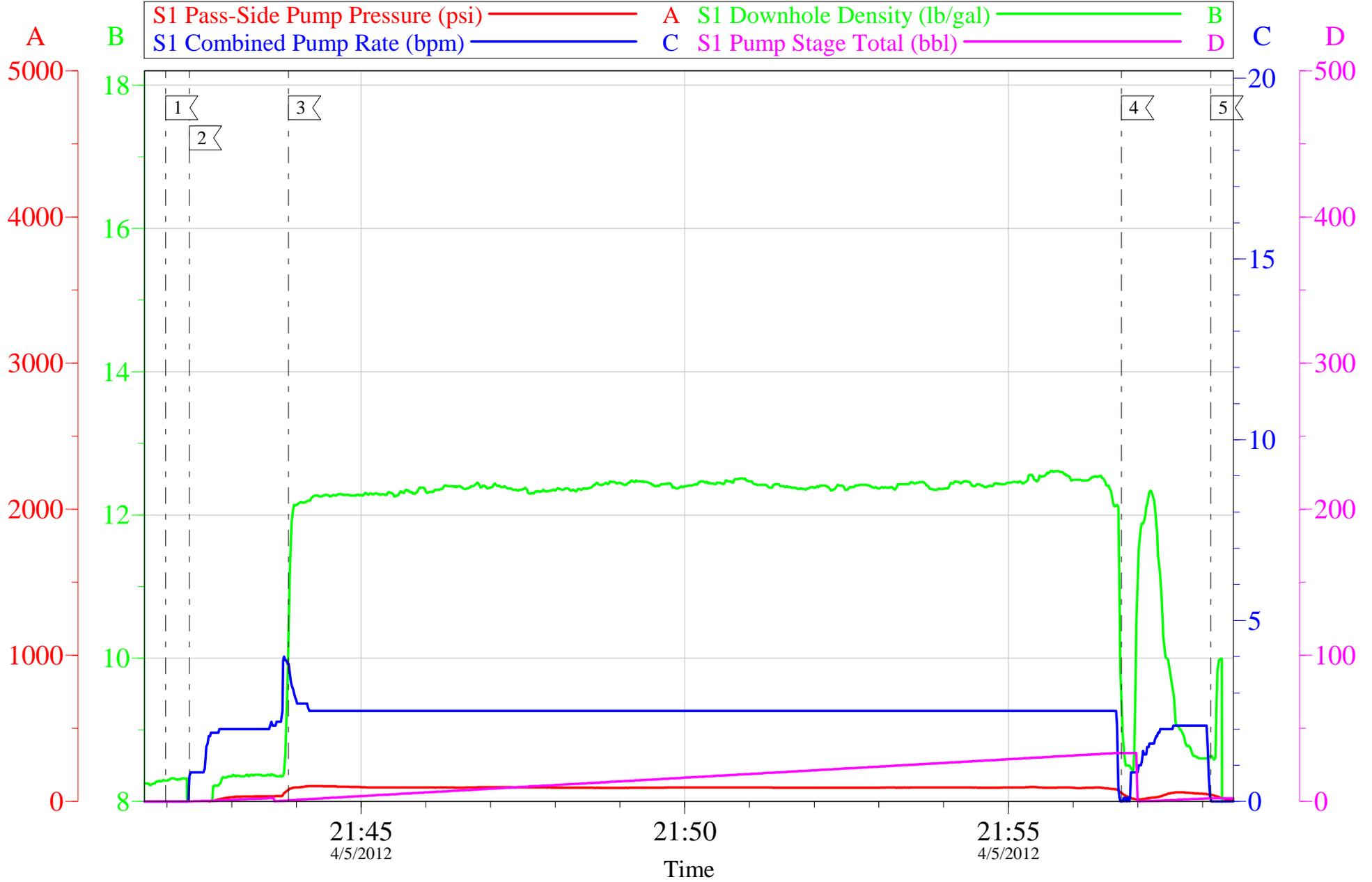


1	START JOB	21:41:59	2	PRIME LINES	21:42:21	3	PUMP CEMENT	21:43:53
4	CLEAN LINES	21:56:45	5	SHUT DOWN / END JOB	21:58:08			

Customer: OXY	Job Date: 05-Apr-2012	Sales Order #: 9410059
Well Description: CC 697-04-67	Job Type: TOP OUT	ADC Used: YES
Company Rep: GRAHAM FLAGG	Cement Supervisor: CHRIS KUKUS	Elite # 8: REGGIE MILLER

OXY - CC 697-04-67

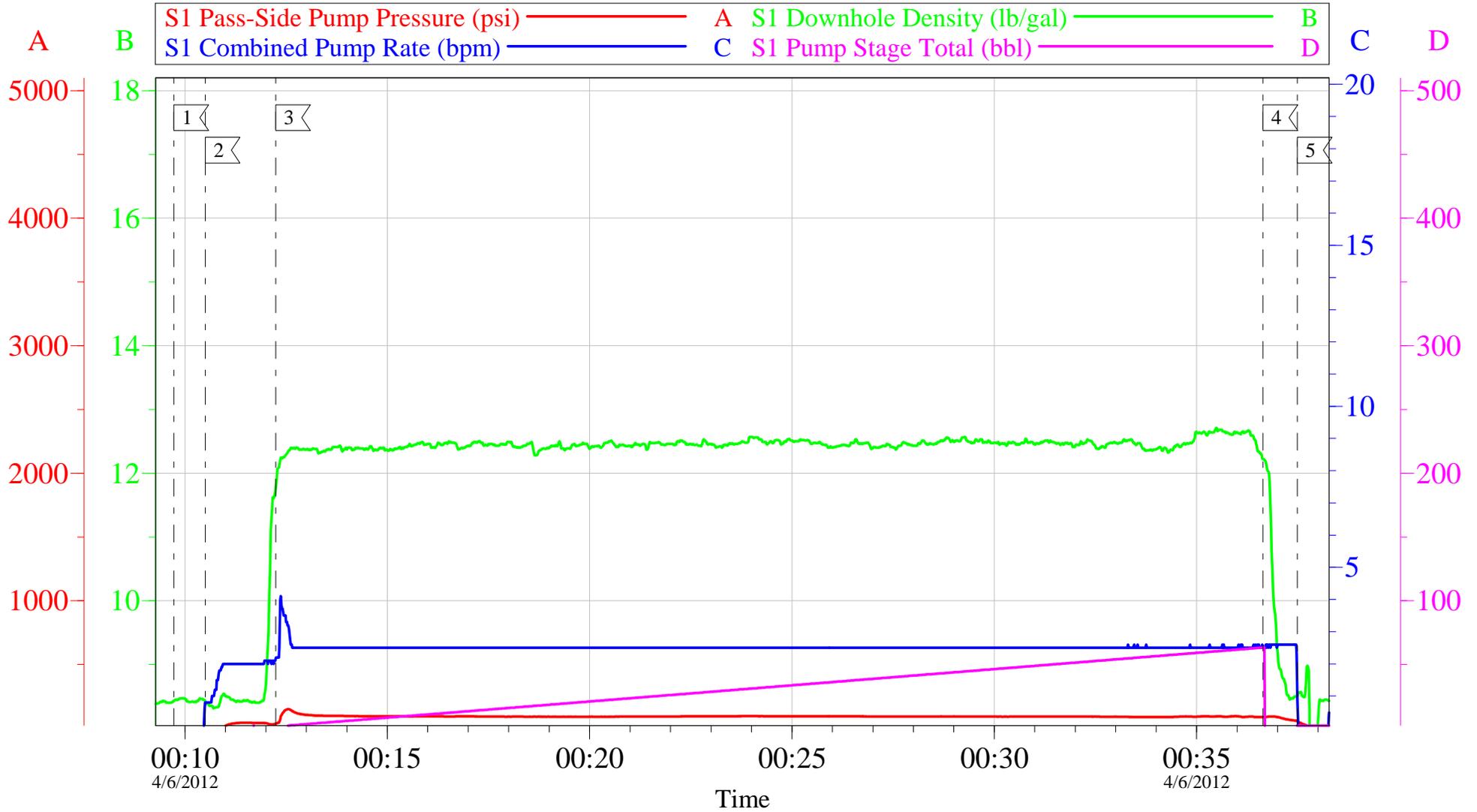
TOP OUT # 2



Customer: OXY	Job Date: 05-Apr-2012	Sales Order #: 9410059
Well Description: CC 697-04-67	Job Type: TOP OUT	ADC Used: YES
Company Rep: GRAHAM FLAGG	Cement Supervisor: CHRIS KUKUS	Elite # 8: REGGIE MILLER

OXY - CC 697-04-67

TOP OUT # 3



Local Event Log

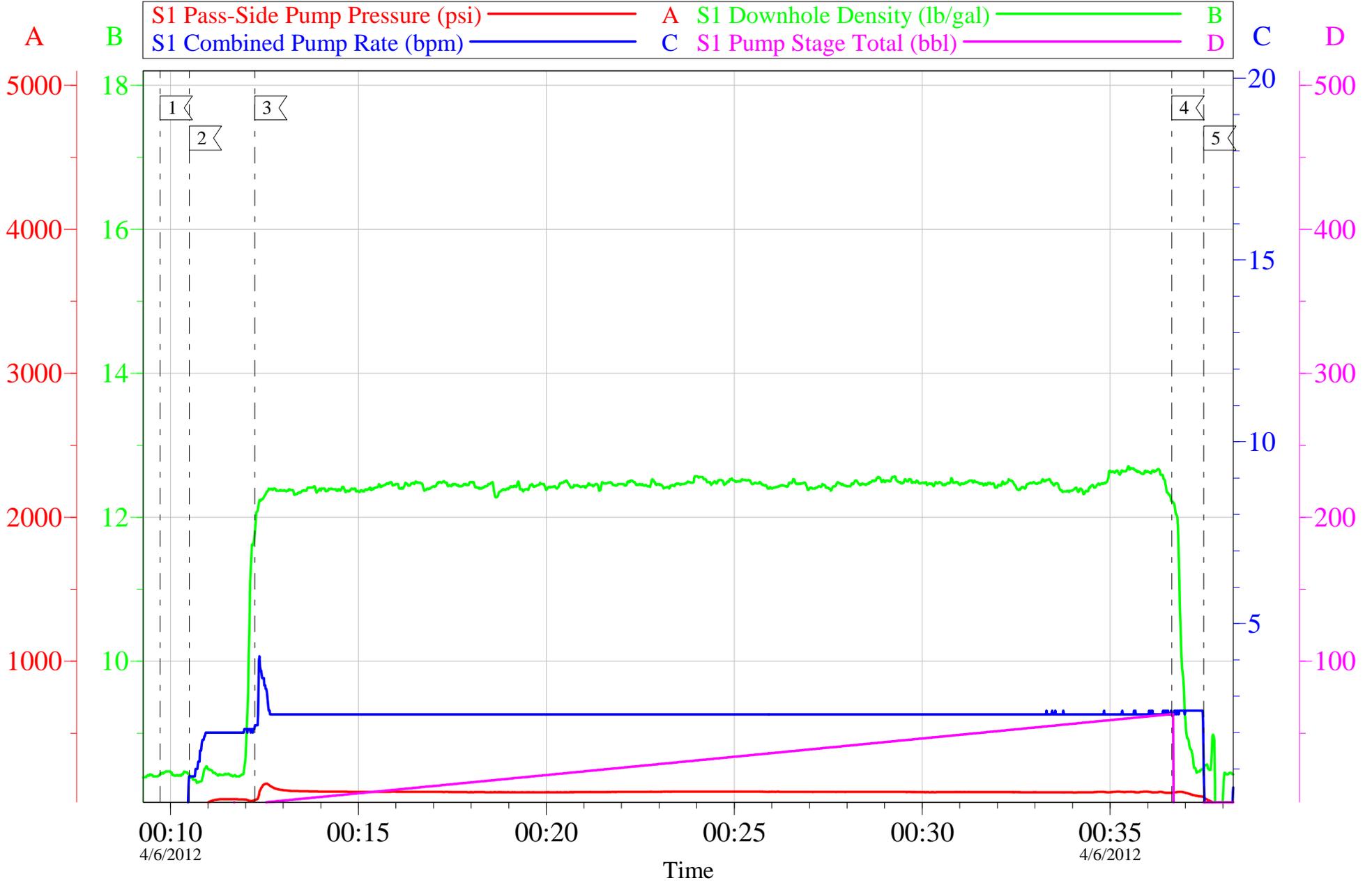
1	START JOB	00:09:44	2	PRIME LINES	00:10:30	3	PUMP CEMENT	00:12:15
4	CLEAN LINES	00:36:38	5	SHUT DOWN / END JOB	00:37:29			

Customer: OXY	Job Date: 05-Apr-2012	Sales Order #: 9410059
Well Description: CC 697-04-67	Job Type: TOP OUT	ADC Used: YES
Company Rep: GRAHAM FLAGG	Cement Supervisor: CHRIS KUKUS	Elite # 8: REGGIE MILLER

OptiCem v6.4.10
06-Apr-12 00:45

OXY - CC 697-04-67

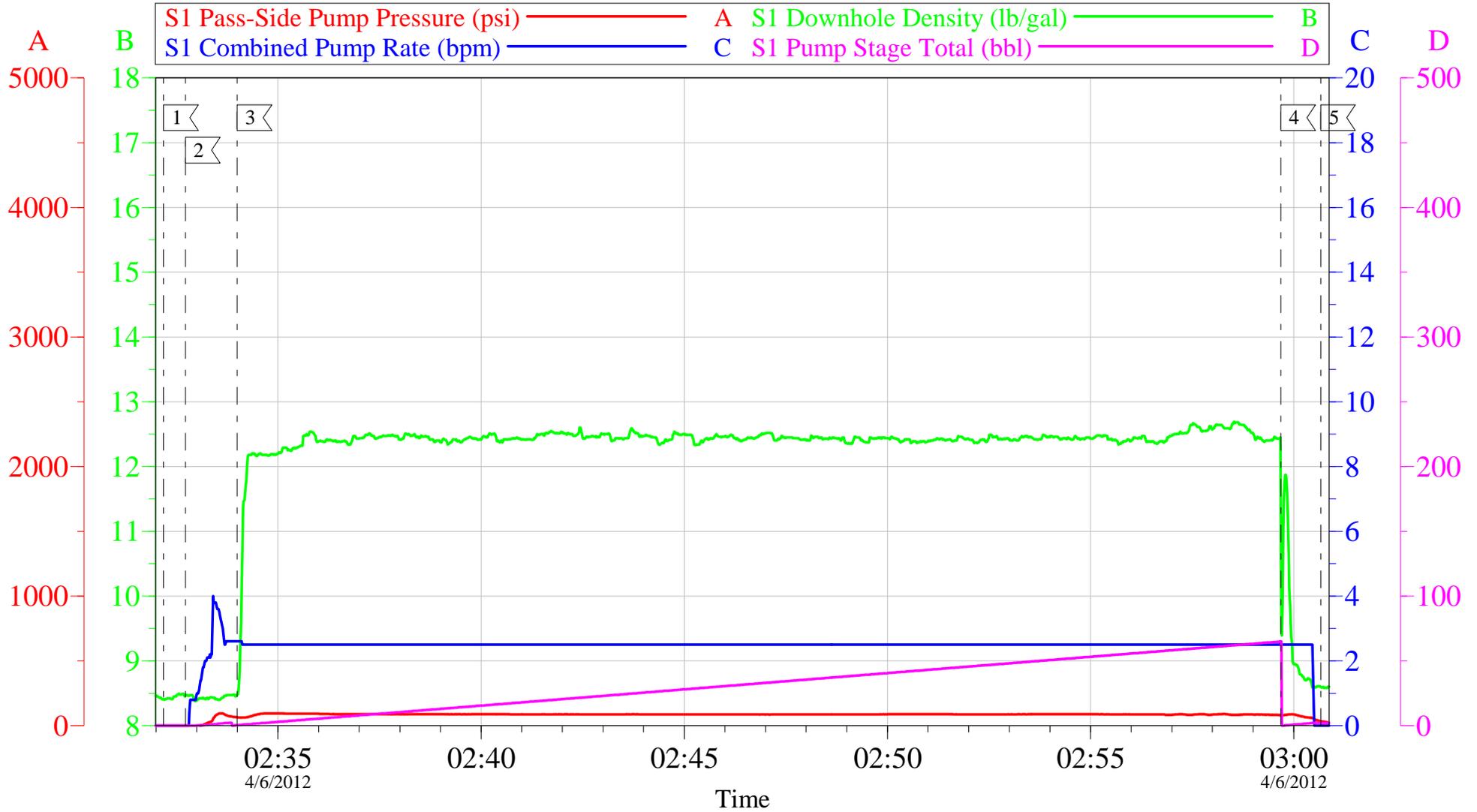
TOP OUT # 3



Customer: OXY	Job Date: 05-Apr-2012	Sales Order #: 9410059
Well Description: CC 697-04-67	Job Type: TOP OUT	ADC Used: YES
Company Rep: GRAHAM FLAGG	Cement Supervisor: CHRIS KUKUS	Elite # 8: REGGIE MILLER

OXY - CC 697-04-67

TOP OUT # 4



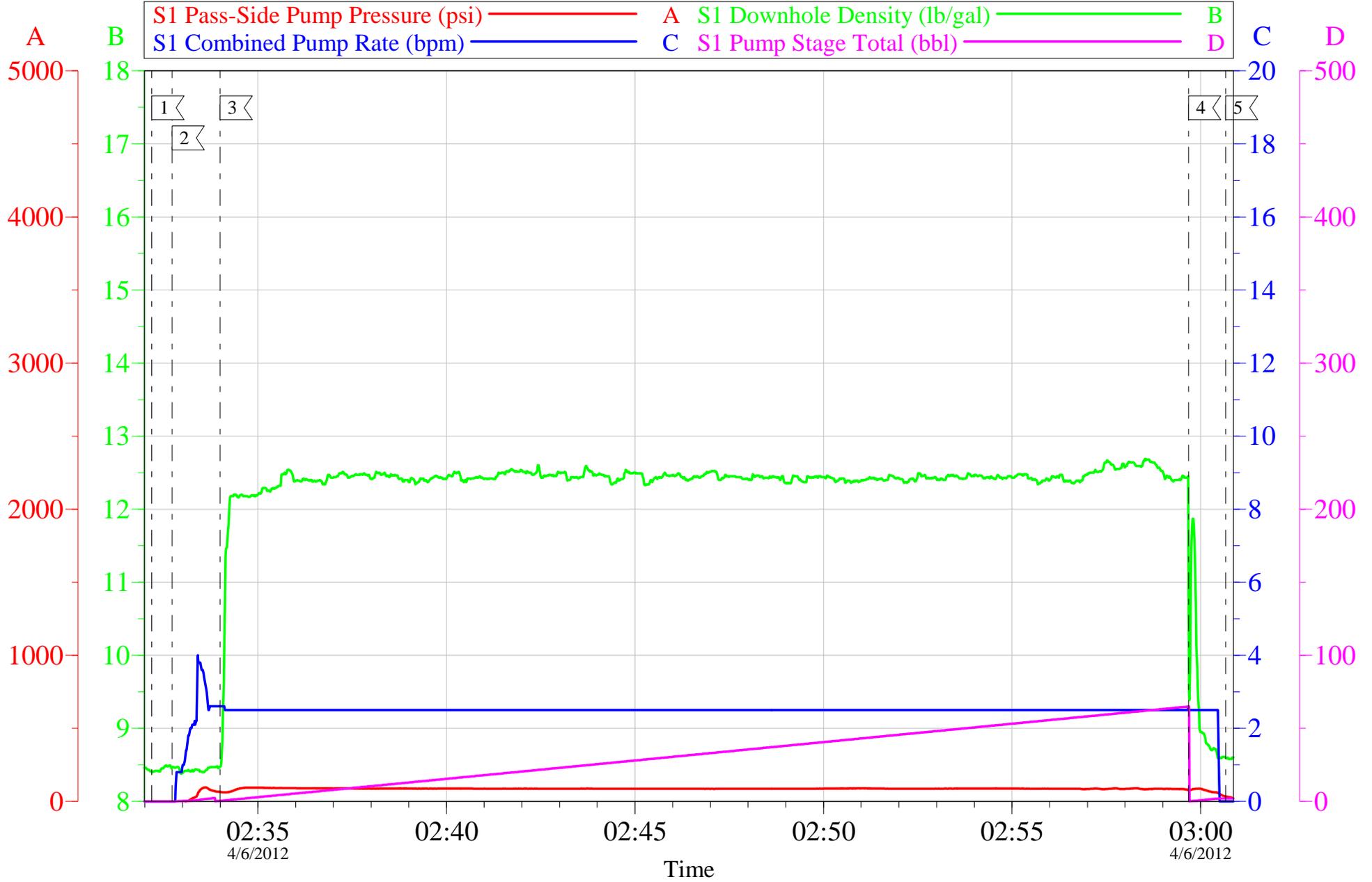
Local Event Log					
1	START JOB	02:32:11	2	PRIME LINES	02:32:43
3	PUMP CEMENT	02:34:00	4	CLEAR LINES	02:59:41
5	END JOB	03:00:40			

Customer: OXY	Job Date: 06-Apr-2012	Sales Order #: 9410059
Well Description: CC 697-04-67	Job Type: TOP OUT	ADC Used: YES
Company Rep: GRAHAM FLAGG	Cement Supervisor: CHRIS KUKUS	Elite # 8: REGGIE MILLER

OptiCem v6.4.10
06-Apr-12 03:14

OXY - CC 697-04-67

TOP OUT # 4

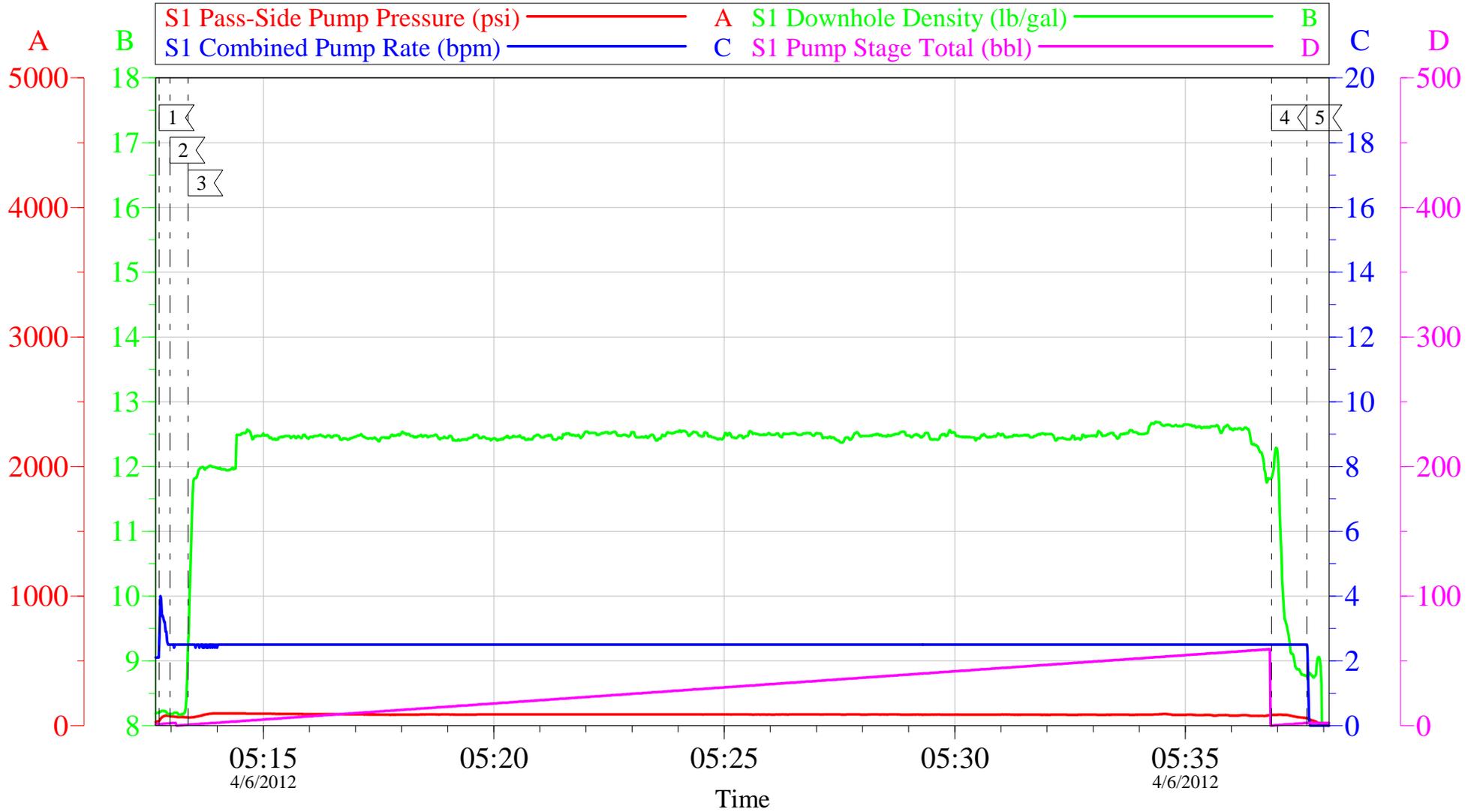


Customer: OXY	Job Date: 06-Apr-2012	Sales Order #: 9410059
Well Description: CC 697-04-67	Job Type: TOP OUT	ADC Used: YES
Company Rep: GRAHAM FLAGG	Cement Supervisor: CHRIS KUKUS	Elite # 8: REGGIE MILLER

OptiCem v6.4.10
06-Apr-12 03:15

OXY - CC 697-04-67

TOP OUT # 5



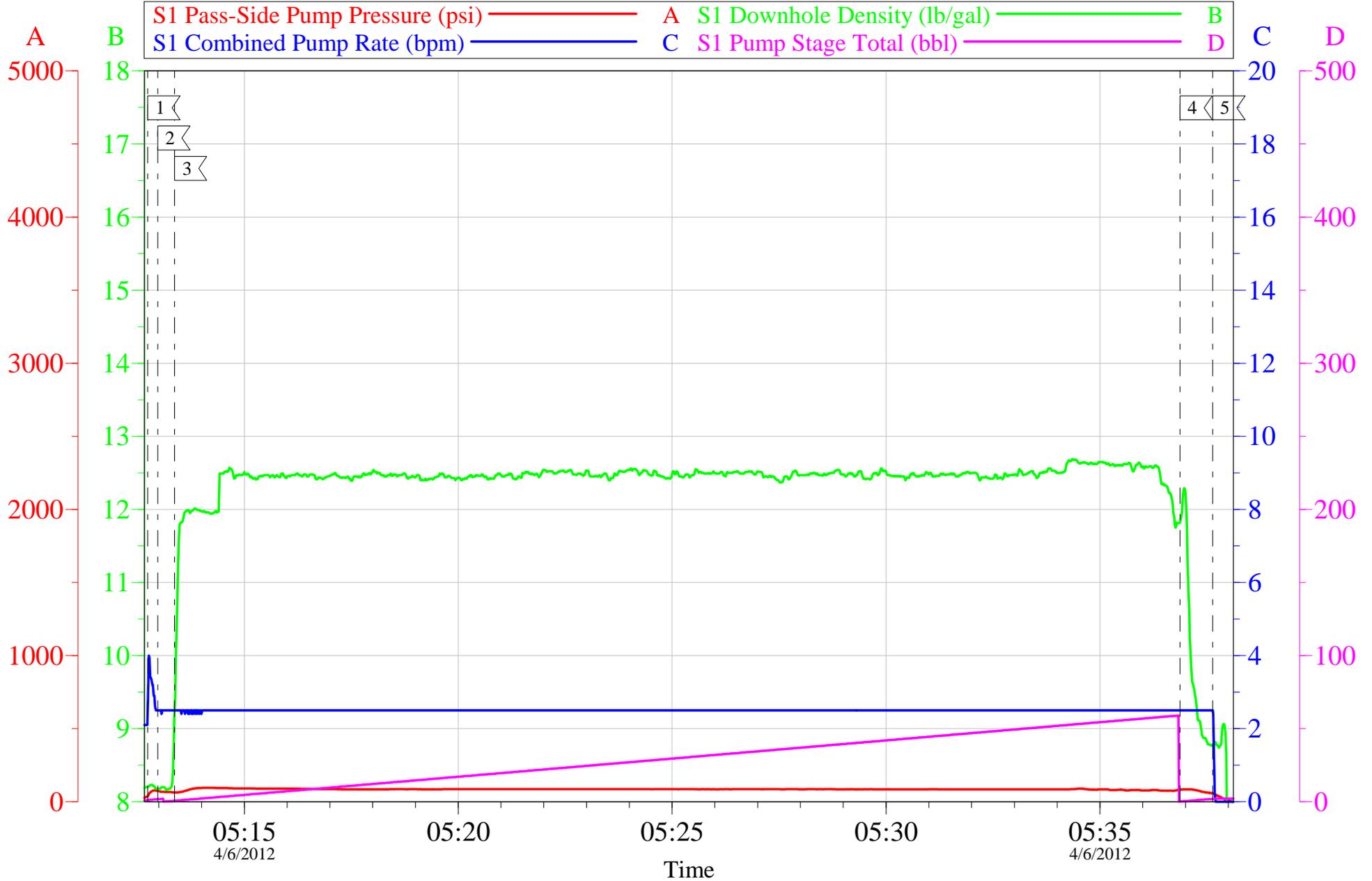
Local Event Log								
1	START JOB	05:12:45	2	PRIME LINES	05:12:59	3	PUMP CEMENT	05:13:22
4	CLEAN LINES	05:36:52	5	SHUT DOWN / END JOB	05:37:38			

Customer: OXY	Job Date: 06-Apr-2012	Sales Order #: 9410059
Well Description: CC 697-04-67	Job Type: TOP OUT	ADC Used: YES
Company Rep: GRAHAM FLAGG	Cement Supervisor: CHRIS KUKUS	Elite # 8: REGGIE MILLER

OptiCem v6.4.10
06-Apr-12 05:45

OXY - CC 697-04-67

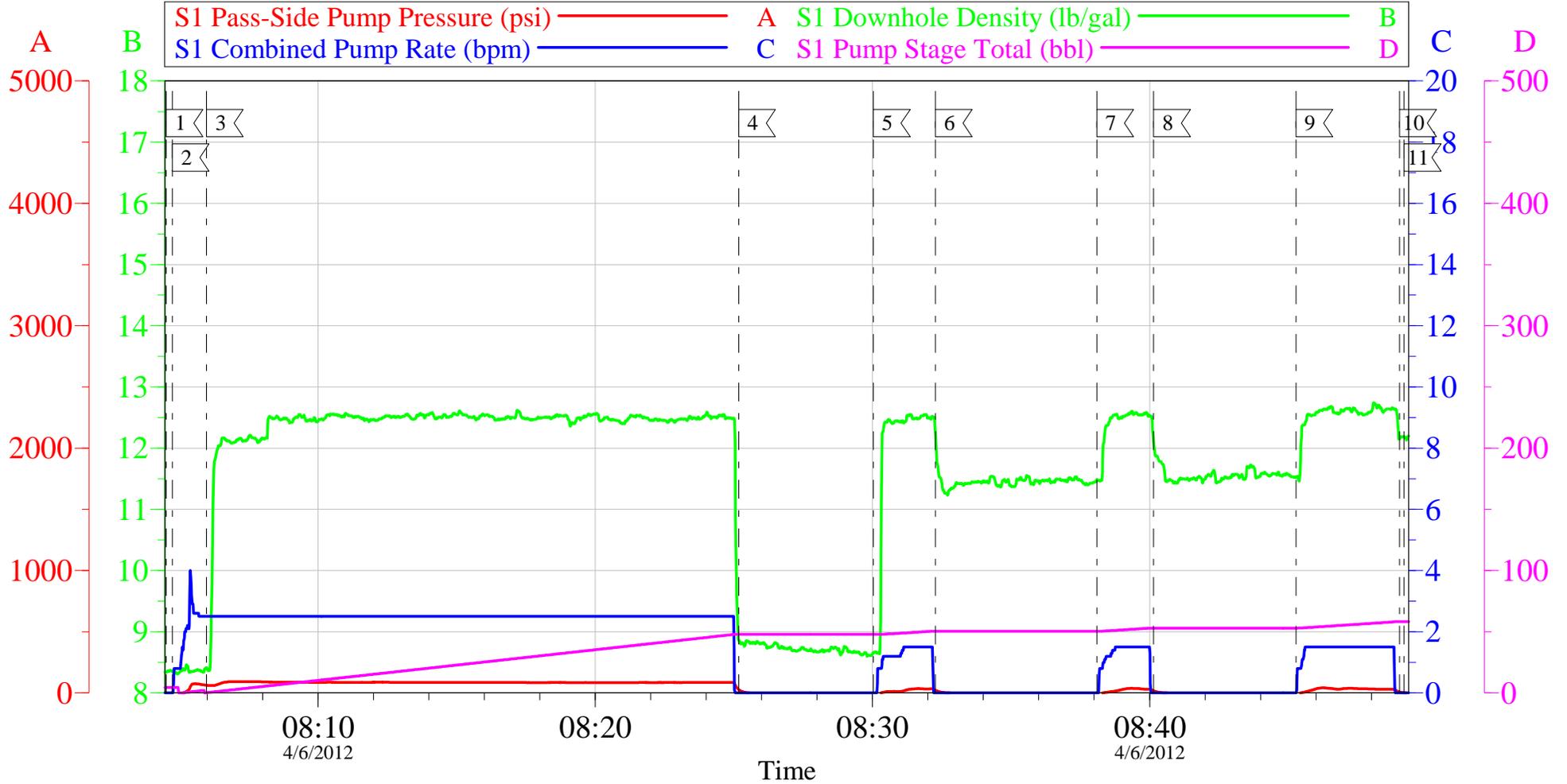
TOP OUT # 5



Customer: OXY	Job Date: 06-Apr-2012	Sales Order #: 9410059
Well Description: CC 697-04-67	Job Type: TOP OUT	ADC Used: YES
Company Rep: GRAHAM FLAGG	Cement Supervisor: CHRIS KUKUS	Elite # 8: REGGIE MILLER

OXY - CC 697-04-67

TOP OUT # 6

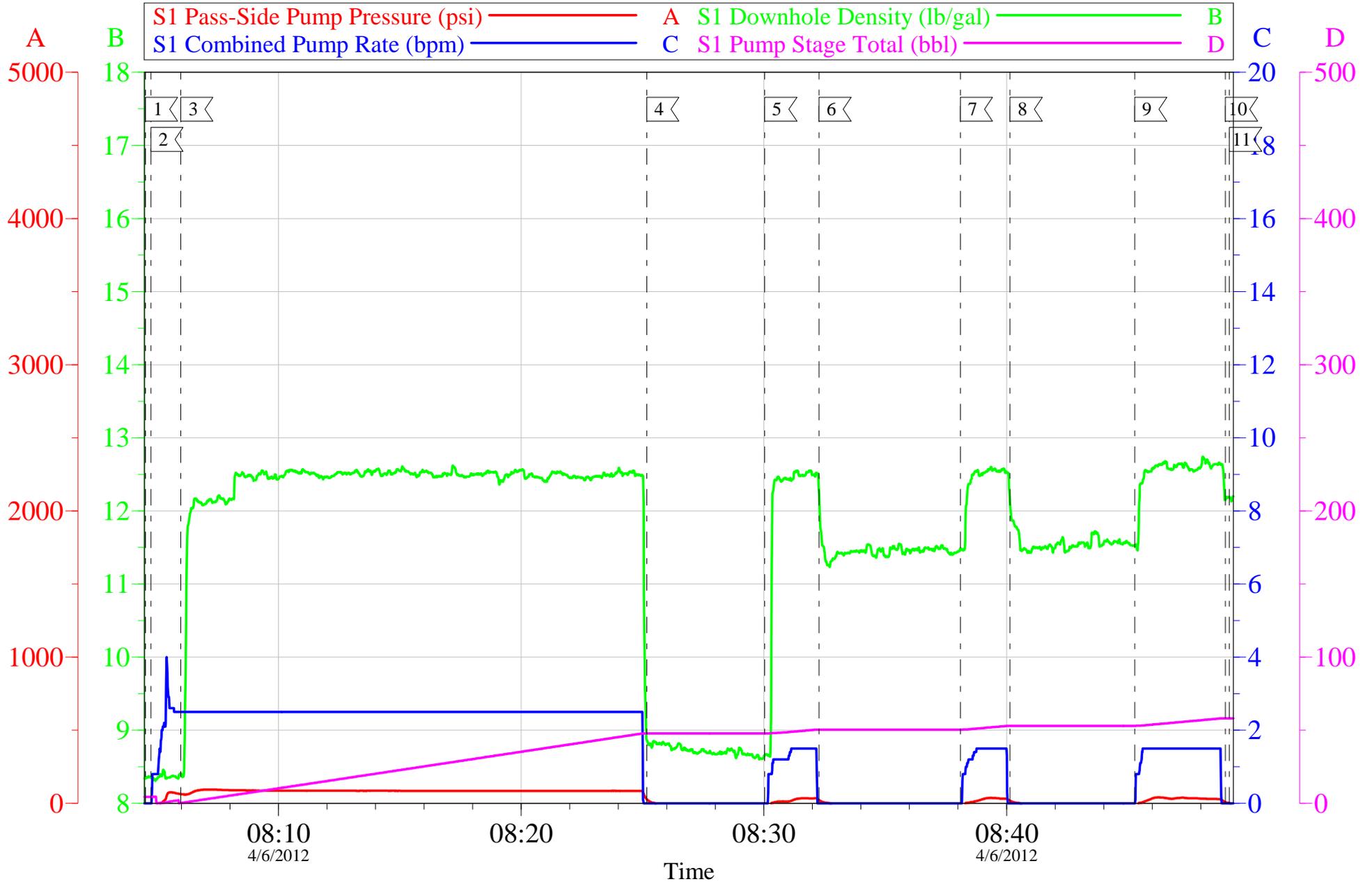


Local Event Log					
1	START JOB	08:04:32	2	PRIME LINES	08:04:45
3	PUMP CEMENT	08:05:59	4	SHUTDOWN	08:25:11
5	PUMP CEMENT	08:30:02	6	SHUTDOWN	08:32:16
7	PUMP CEMENT	08:38:06	8	SHUTDOWN	08:40:09
9	PUMP CEMENT	08:45:17	10	SHUTDOWN	08:49:01
11	END JOB	08:49:11			

Customer: OXY	Job Date: 06-Apr-2012	Sales Order #: 9410059
Well Description: CC 697-04-67	Job Type: TOP OUT	ADC Used: YES
Company Rep: DARRYLE CLARK	Cement Supervisor: CHRIS KUKUS	Elite # 8: REGGIE MILLER

OXY - CC 697-04-67

TOP OUT # 6



Customer: OXY	Job Date: 06-Apr-2012	Sales Order #: 9410059
Well Description: CC 697-04-67	Job Type: TOP OUT	ADC Used: YES
Company Rep: DARRYLE CLARK	Cement Supervisor: CHRIS KUKUS	Elite # 8: REGGIE MILLER

HALLIBURTON

Water Analysis Report

Company: OXY

Date: 3/19/2012

Submitted by: CHRIS KUKUS

Date Rec.: 4/5/2012

Attention: J. TROUT/C.MARTINEZ

S.O.# 9410059

Lease CC

Job Type: SURFACE

Well # 697-04-67

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	6.8
Potassium (K)	<i>5000</i>	0 Mg / L
Calcium (Ca)	<i>500</i>	120 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	UNDER 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	50 Deg
Total Dissolved Solids		700 Mg / L

Respectfully: CHRIS KUKUS

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 its

Sales Order #: 9410059	Line Item: 10	Survey Conducted Date: 4/6/2012
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: DARRYLE CLARK		API / UWI: (leave blank if unknown) 05-045-20720
Well Name: CC		Well Number: 697-04-67
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	4/6/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHRISTOPHER KUKUS (HX35027)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	DARRYLE CLARK
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

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KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	4/6/2012
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)	8
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)	4
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	6
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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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	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	90
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