
OXY GRAND JUNCTION EBUSINESS

**CC 697-04-68
GRAND VALLEY
Garfield County , Colorado**

**Cement Surface Casing
29-Mar-2012**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 344034	Quote #:	Sales Order #: 9335418
Customer: OXY GRAND JUNCTION EBUSINESS	Customer Rep: Adam, Derek		
Well Name: CC	Well #: 697-04-68	API/UWI #: 05-045-20713	
Field: GRAND VALLEY	City (SAP): ADDISON	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. 11.532 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	Srv Supervisor: NICKLE, RYON	MBU ID Emp #: 454759	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BORSZICH, STEPHEN A	21	412388	NICKLE, RYON	21	454759	SPARKS, CLIFFORD Paul	21	502476
WALPOLE, DARREN Livingston	21	485294						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025118	120 mile	10744648C	120 mile	10867094	120 mile	10897925	120 mile
10951249	120 mile	10998508	120 mile	11360881	120 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
3/29/12	19.5	8	3/30/12	1.5	0			

TOTAL	Total is the sum of each column separately							
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Job

Formation Name	Top	Bottom	Form Type	Job depth MD	Water Depth	Perforation Depth (MD)	From	To	Date	Time	Time Zone
Formation Depth (MD)	0	2659	BHST	2659. ft	Wk Ht Above Floor	2. ft			29 - Mar - 2012	01:00	MST
Job depth MD	2659. ft	Job Depth TVD	2659. ft	Job Started	29 - Mar - 2012	10:27	MST				
Water Depth		Wk Ht Above Floor	2. ft	Job Completed	29 - Mar - 2012	23:10	MST				
Perforation Depth (MD)	From	To		Departed Loc	30 - Mar - 2012	01:30	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
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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	9.625	14	

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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
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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	2	
2	Gel Water Spacer		20.00	bbl	8.34	.0	.0	4	
0.25 gal/bbl		LGC-36 UC, BULK (101582749)							
3	Fresh Water Spacer		10.00	bbl	8.33	.0	.0	4	
4	HalCem Lead Cement	HALCEM (TM) SYSTEM (452986)	1150.0	sacks	12.3	2.15	11.83	6	11.83
11.83 Gal		FRESH WATER							
5	VariCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	170.0	sacks	12.8	2.07	10.67	6	10.67
10.67 Gal		FRESH WATER							
6	Fresh Water Displacement		201.00	bbl	8.34	.0	.0	6	
Calculated Values		Pressures		Volumes					
Displacement	201.9	Shut In: Instant		Lost Returns		Cement Slurry	706.9	Pad	
Top Of Cement		5 Min		Cement Returns	0	Actual Displacement	201.9	Treatment	
Frac Gradient		15 Min		Spacers	40	Load and Breakdown		Total Job	948.2
Rates									
Circulating	RIG	Mixing	6	Displacement	6	Avg. Job	6		
Cement Left In Pipe	Amount	47 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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Field: GRAND VALLEY		City (SAP): ADDISON		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. 11.532 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: NICKLE, RYON			MBU ID Emp #: 454759	

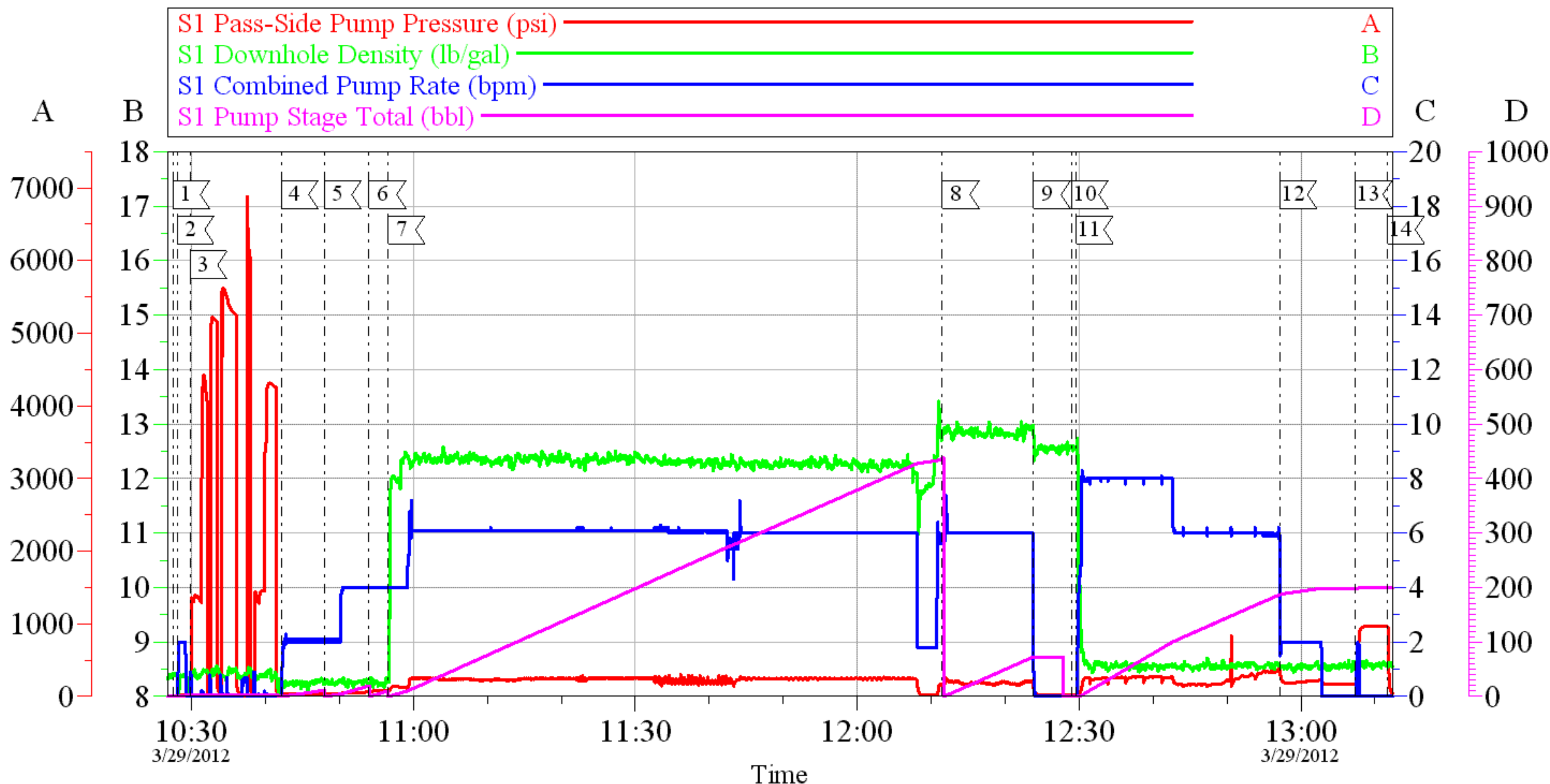
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	03/29/2012 00:01							HES CEMENT CREW
Pre-Convoy Safety Meeting	03/29/2012 02:10							ALL HES CEMENT CREW
Crew Leave Yard	03/29/2012 02:30							
Arrive At Loc	03/29/2012 04:30							RIG RUNNING SURFACE CASING
Assessment Of Location Safety Meeting	03/29/2012 04:35							ALL HES CEMENT CREW
Other	03/29/2012 04:40							SPOT EQUIPMENT; 1 CEMENTERS F 450, 1 ELITE PUMPING UNIT, 1 660 BULK TRANSPORT
Pre-Rig Up Safety Meeting	03/29/2012 05:00							ALL HES CEMENT CREW
Pre-Job Safety Meeting	03/29/2012 09:30							ALL HES CEMENT CREW, RIG CREW, COMPANY REP, AVAILABLE 3RD PARTY EE'S
Start Job	03/29/2012 10:27							TD- 2709' TP- 2659' SHOE- 47' OH- 14.75" SURFACE CASING- 9.625" 36#/FT H-40 CENTRALIZERS- 13 MUD- 9 PPG
Other	03/29/2012 10:28		2	2			18.0	FILL LINES, FRESH WATER
Pressure Test	03/29/2012 10:29							PRESSURE UP TO 4356 PSI, PRESSURE HELD
Pump Spacer 1	03/29/2012 10:42		2	10			58.0	FRESH WATER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 2	03/29/2012 10:47		4	20			58.0	GEL SPACER
Pump Spacer 1	03/29/2012 10:54		4	10			84.0	FRESH WATER
Pump Lead Cement	03/29/2012 10:56		6	440.3			255.0	1150 SKS; 12.3 PPG, 2.15 FT3/SK, 11.83 GAL/SK
Pump Tail Cement	03/29/2012 12:11		6	62.6			187.0	170 SKS; 12.8 PPG, 2.07 FT3/SK, 10.67 GAL/SK
Shutdown	03/29/2012 12:23							
Drop Top Plug	03/29/2012 12:28							CO REP VERIFIED PLUG LAUNCHED
Pump Displacement	03/29/2012 12:29		6	191.9			356.0	FRESH WATER
Slow Rate	03/29/2012 12:57		2	10			315.0	PER COMPANY REP, SHUTDOWN WITH 203.5 BBLS AWAY ON MEASURED TANKS, CO REP TO MAKE PHONE CALL, UPON RETURN RESUMED PUMPING AND IMMEDIATELY BUMPED THE PLUG
Bump Plug	03/29/2012 13:07						963.0	
Check Floats	03/29/2012 13:11							FLOATS HELD, RETURNED 3/4 BBLS H2O, PIPE WAS NOT MOVED, NO CEMENT RETURNS OR MUD RETURNS THROUGHOUT JOB, 0 BBLS CEMENT TO SURFACE
Pressure Up	03/29/2012 13:13						1524.0	PER COMPANY REP; CONDUCT CASING TEST
Release Casing Pressure	03/29/2012 13:47							
Rig-Up Equipment	03/29/2012 13:50							RIG UP TO PUMP THROUGH PARASITE LINE
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pump Water	03/29/2012 14:00		2	10			720.0	PUMP THROUGH PARASITE LINE WITH 10 BBLS FRESH WATER MIXED WITH 10# SUGAR
Shutdown	03/29/2012 14:06							
Pump Cement	03/29/2012 14:56		3	80			168.0	PUMP TOPOUT CEMENT; 230 SKS; 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK
Shutdown	03/29/2012 15:22							
Pump Cement	03/29/2012 17:34		3	51			153.0	PUMP TOPOUT CEMENT; 145 SKS; 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK
Shutdown	03/29/2012 17:52							
Pump Cement	03/29/2012 19:57		3	55			159.0	PUMP TOPOUT CEMENT; 156 SKS; 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK
Shutdown	03/29/2012 20:18							
Pump Cement	03/29/2012 22:48		3	18			155.0	PUMP TOPOUT CEMENT; 52 SKS; 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK, TOPOUT CC 697-04-68 WITH APPX. 16 BBLS CEMENT, TOPOUT PREVIOUS WELL WITH APPX. 1 BBL CEMENT
Shutdown	03/29/2012 23:09							
End Job	03/29/2012 23:10							
Post-Job Safety Meeting (Pre Rig-Down)	03/29/2012 23:15							ALL HES CEMENT CREW
Pre-Convoy Safety Meeting	03/30/2012 01:15							ALL HES CEMENT CREW
Crew Leave Location	03/30/2012 01:30							THANK YOU FOR USING HALLIBURTON CEMENTING, RYON NICKLE AND CREW

OXY - CC 697-04-68

OFFLINE SURFACE



Local Event Log

1 START JOB	10:27:27	2 FILL LINES	10:28:03	3 PRESSURE TEST	10:29:48
4 PUMP H2O SPACER	10:42:07	5 PUMP GEL SPACER	10:47:56	6 PUMP H2O SPACER	10:54:01
7 PUMP LEAD CEMENT	10:56:34	8 PUMP TAIL CEMENT	12:11:30	9 SHUTDOWN	12:23:49
10 DROP TOP PLUG	12:28:56	11 PUMP DISPLACEMENT	12:29:38	12 SLOW RATE	12:57:08
13 BUMP PLUG	13:07:20	14 CHECK FLOATS	13:11:43		

Customer: OXY GRAND JUNCTION EBUSINESS
Well Description: CC 697-04-68
Company Rep: DEREK ADAM

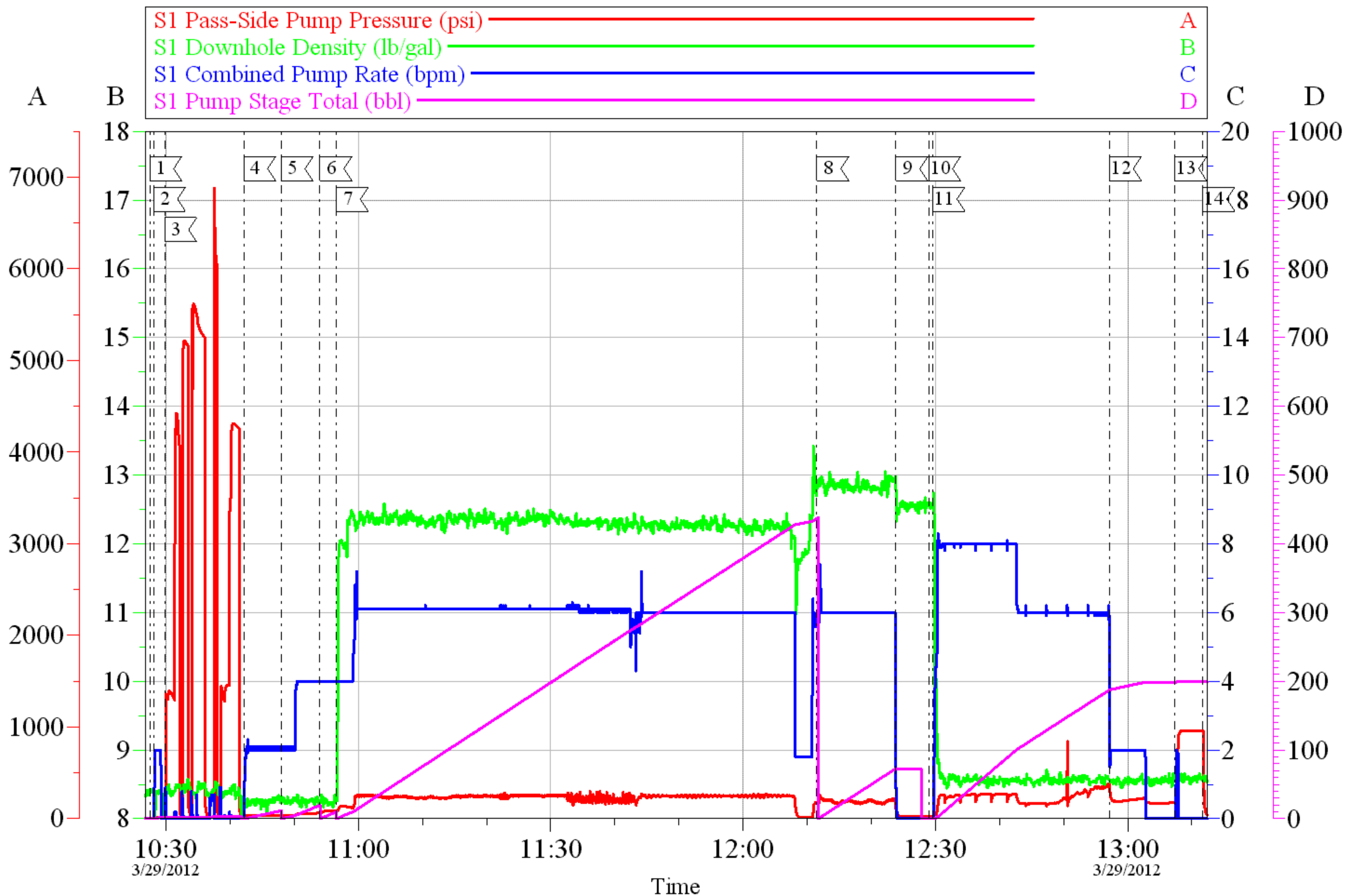
Job Date: 29-Mar-2012
Job Type: OFFLINE SURFACE
Cement Supervisor: RYON NICKLE

Sales Order #: 9335418
ADC Used: YES
Elite # / Operator: E6 / STEVEN BORSZICH

OptiCem v6.4.10
29-Mar-12 13:44

OXY - CC 697-04-68

OFFLINE SURFACE



Customer: OXY GRAND JUNCTION EBUSINESS
 Well Description: CC 697-04-68
 Company Rep: DEREK ADAM

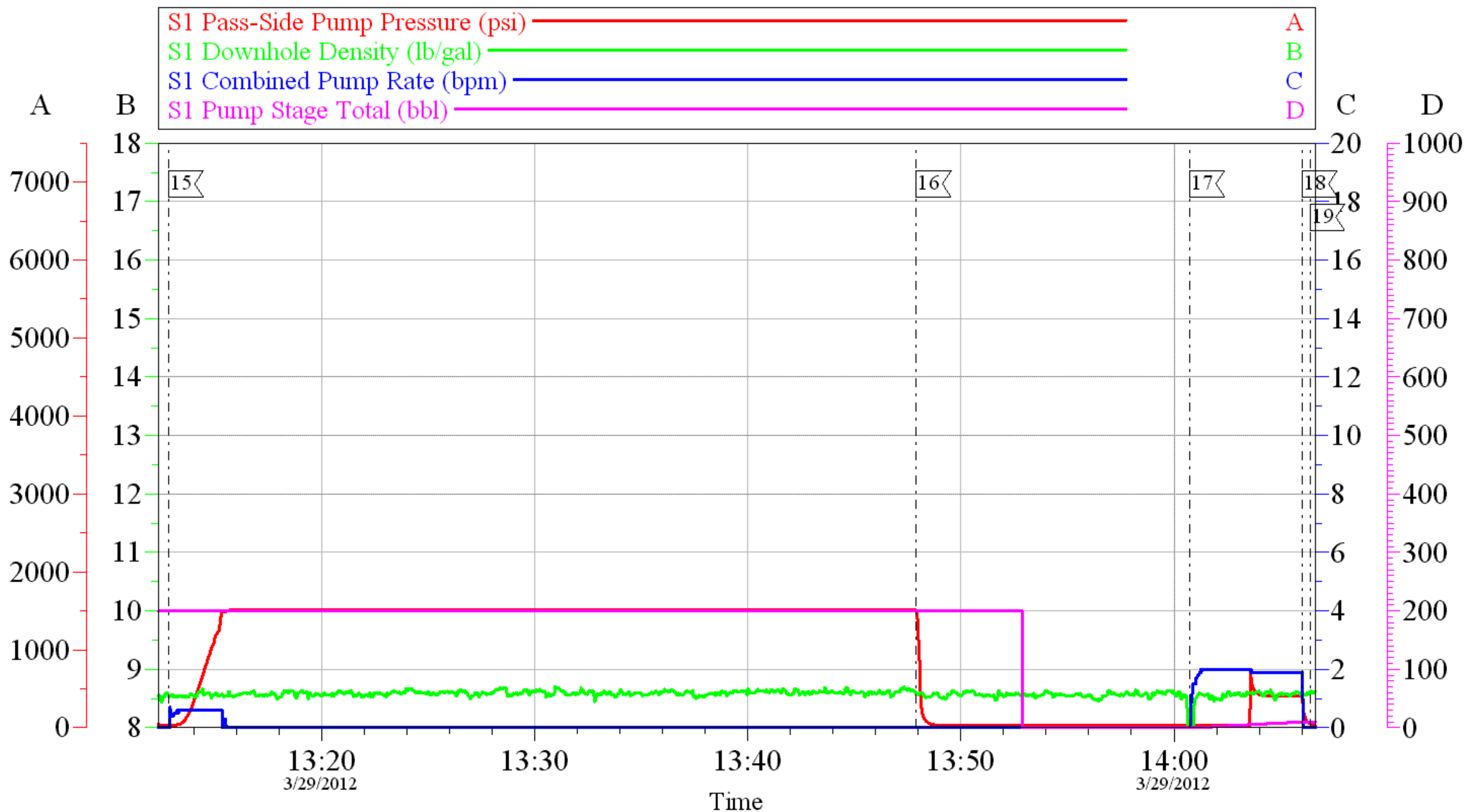
Job Date: 29-Mar-2012
 Job Type: OFFLINE SURFACE
 Cement Supervisor: RYON NICKLE

Sales Order #: 9335418
 ADC Used: YES
 Elite # / Operator: E6 / STEVEN BORSZICH

OptiCem v6.4.10
 29-Mar-12 13:44

OXY - CC 697-04-68

OFFLINE SURFACE



Local Event Log			
15	PRESSURE UP CASING	13:12:50	16 RELEASE CASING PRESSURE 13:47:54
17	PUMP TO CLEAR PARASITE	14:00:45	18 SHUTDOWN 14:06:02
19	END JOB	14:06:23	

Customer: OXY GRAND JUNCTION EBUSINESS
 Well Description: CC 697-04-68
 Company Rep: DEREK ADAM

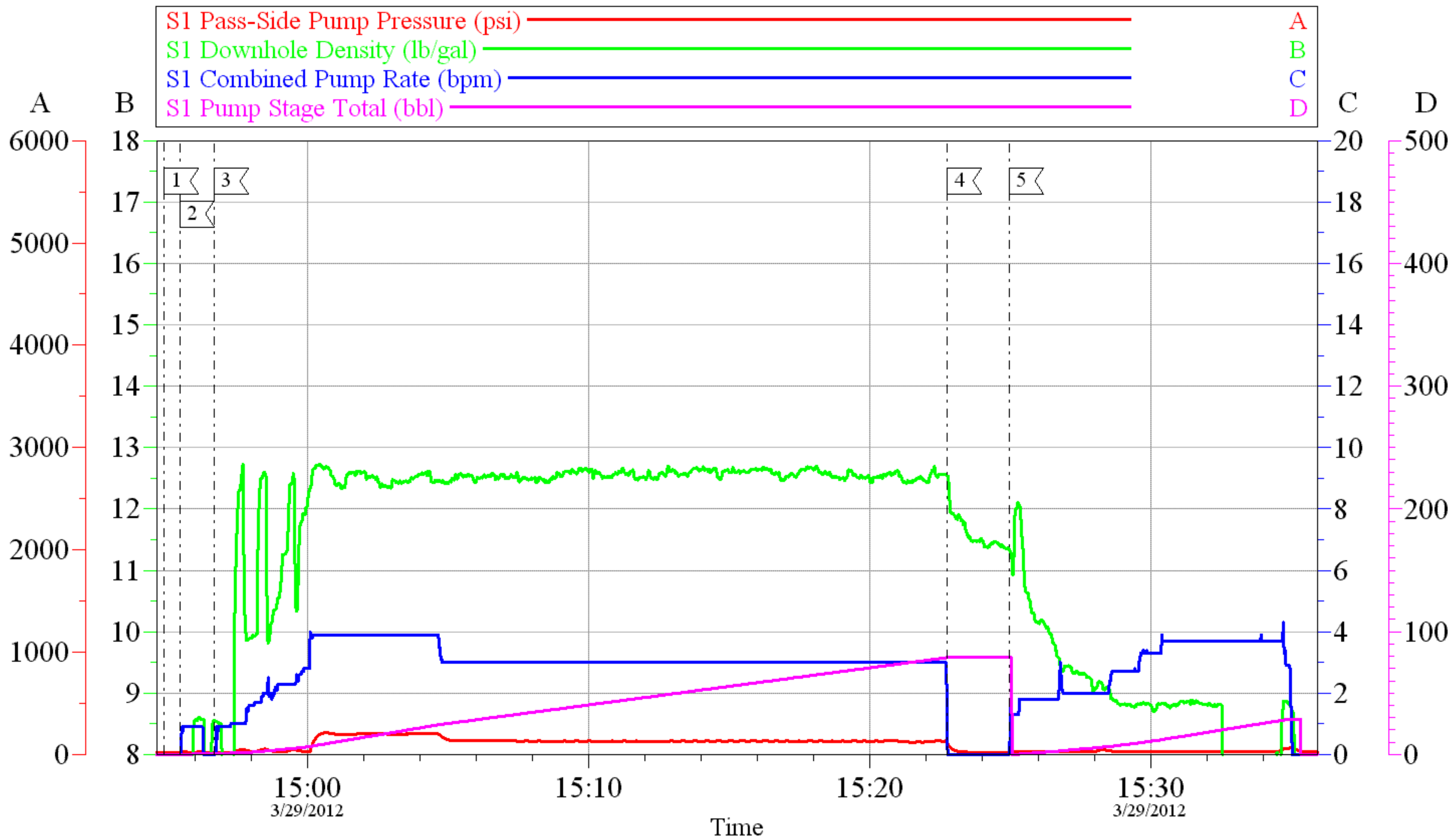
Job Date: 29-Mar-2012
 Job Type: OFFLINE SURFACE
 Cement Supervisor: RYON NICKLE

Sales Order #: 9335418
 ADC Used: YES
 Elite # / Operator: E6 / STEVEN BORSZICH

OptiCem v6.4.10
 29-Mar-12 14:28

OXY - CC 697-04-68

TOP OUT FOR SURFACE WELL



Local Event Log			
1	START JOB	14:54:54	2
2	CLEAR LINE	14:55:26	3
3	PUMP TOPOUT CEMENT	14:56:40	
4	SHUTDOWN	15:22:46	5
5	CLEAN TUB / LINES	15:24:58	

Customer: OXY
 Well Description: CC 697-04-68
 Company Rep:

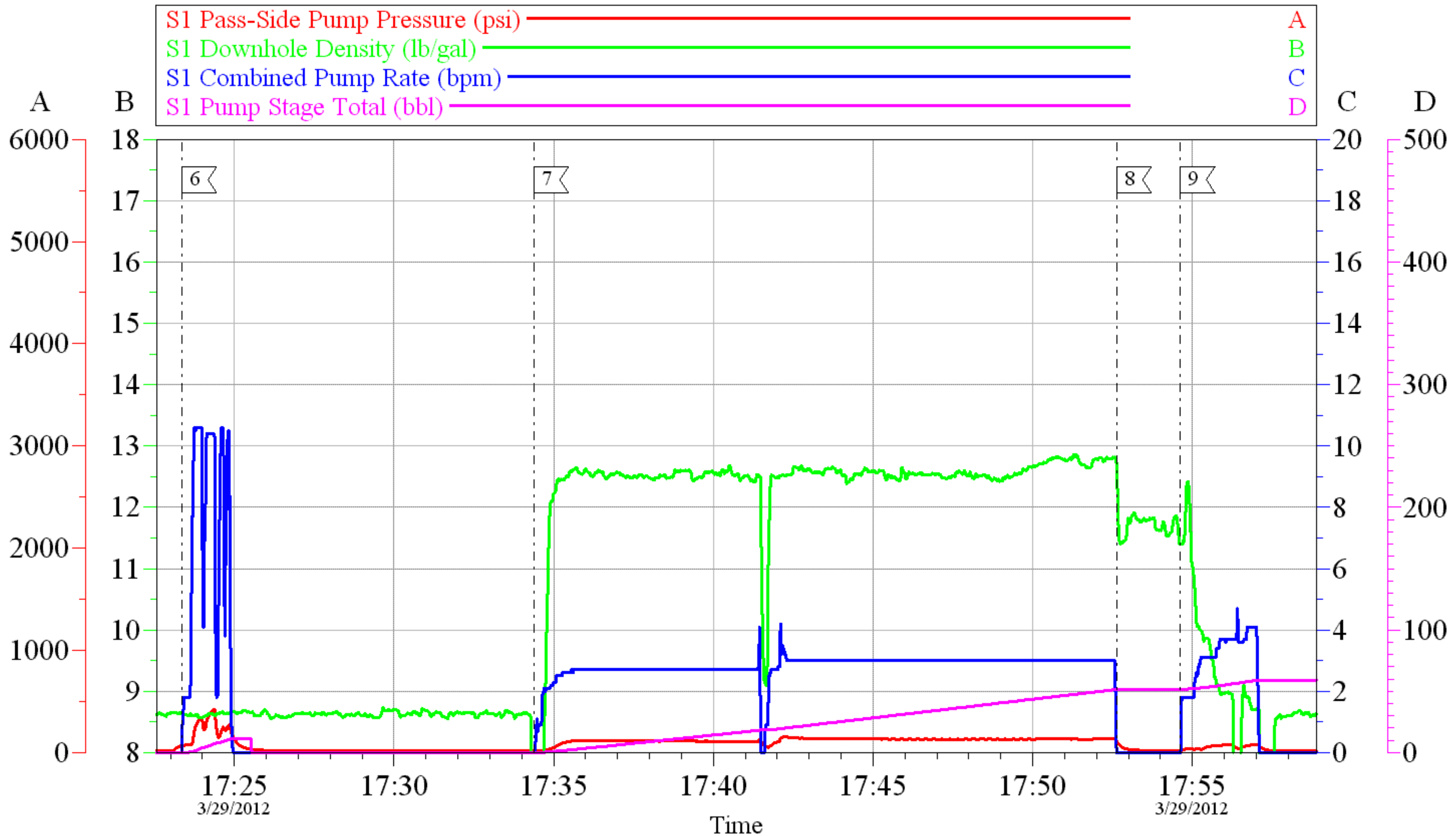
Job Date: 29-Mar-2012
 Job Type: TOP OUT
 Cement Supervisor: RYON NICKLE

Sales Order #: 9335418
 ADC Used: YES
 Elite # / Operator: E6 / STEVEN BORSZICH

OptiCem v6.4.10
 29-Mar-12 16:02

OXY - CC 697-04-68

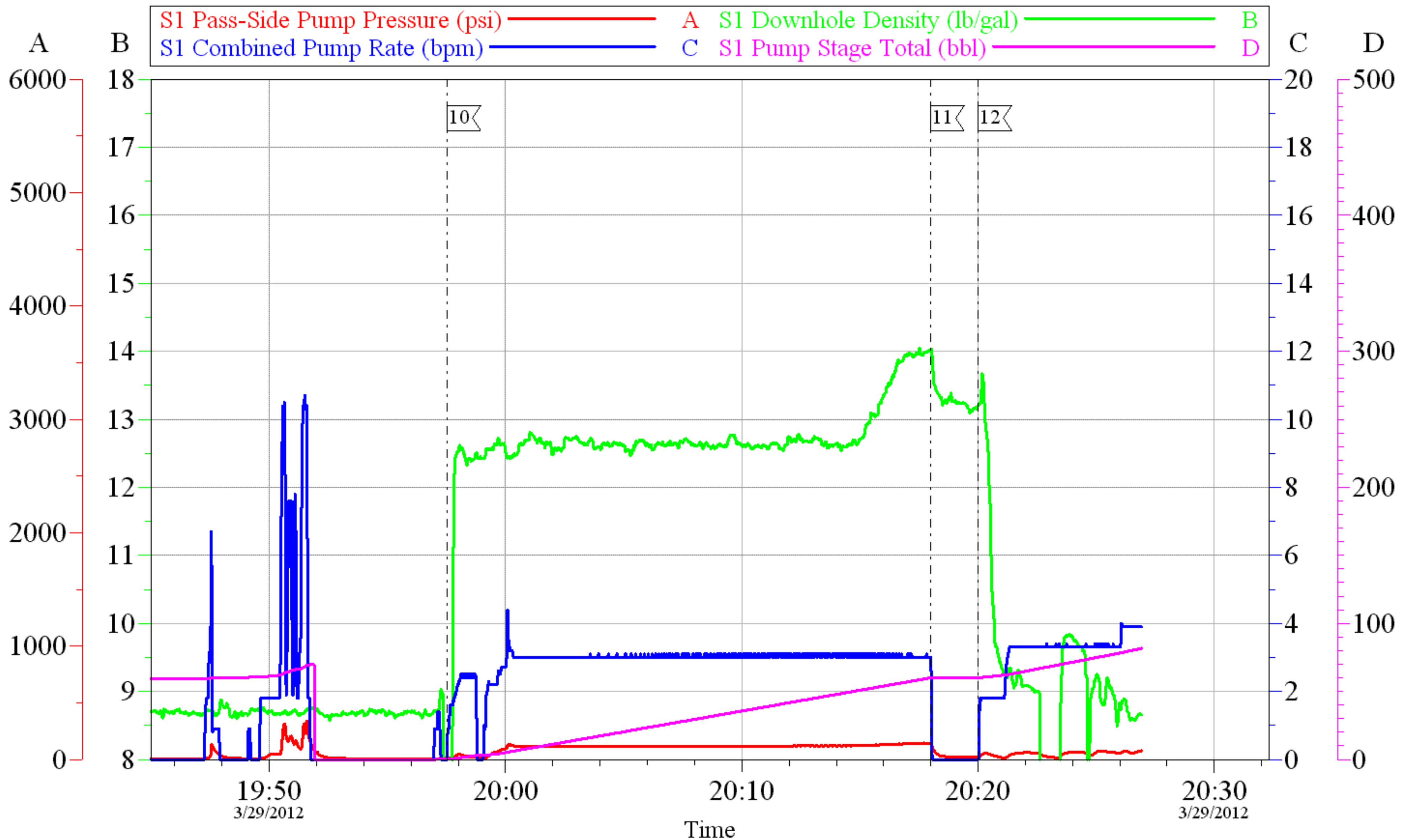
TOP OUT FOR SURFACE WELL



Customer: OXY	Job Date: 29-Mar-2012	Sales Order #: 9335418
Well Description: CC 697-04-68	Job Type: TOP OUT	ADC Used: YES
Company Rep:	Cement Supervisor: RYON NICKLE	Elite # / Operator: E6 / STEVEN BORSZICH

OXY - CC 697-04-68

TOP OUT FOR SURFACE WELL

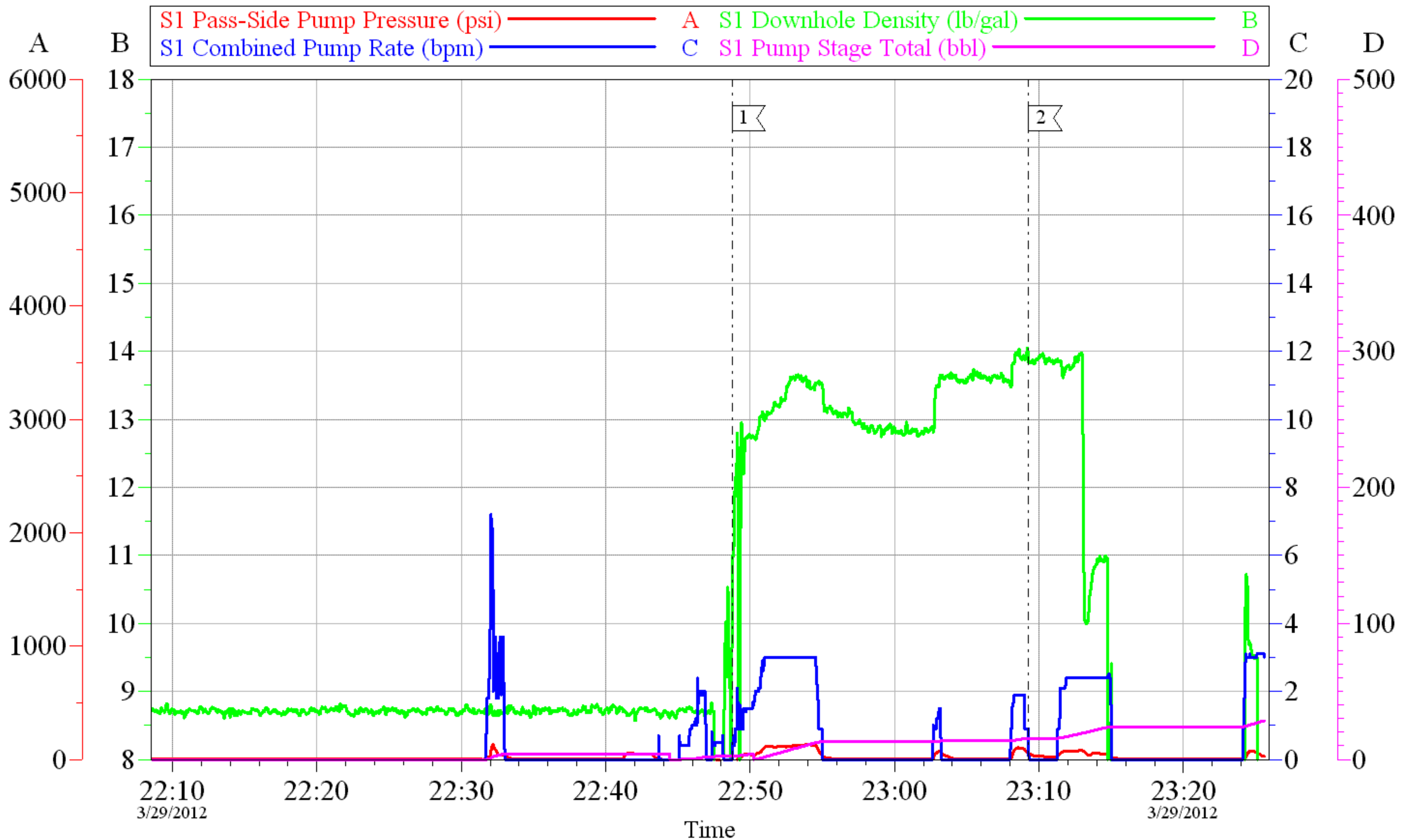


Local Event Log			
10	PUMP TOPOUT CEMENT	19:57:33	11 SHUTDOWN 20:18:00
12	CLEAN TUB AND LINES	20:20:01	

Customer: OXY	Job Date: 29-Mar-2012	Sales Order #: 9335418
Well Description: CC 697-04-68	Job Type: TOP OUT	ADC Used: YES
Company Rep:	Cement Supervisor: RYON NICKLE	Elite # / Operator: E6 / STEVEN BORSZICH

OXY - CC 697-04-68

TOPOUT FOR SURFACE WELL



Local Event Log			
1	PUMP TOPOUT CEMENT	22:48:45	2
			SHUTDOWN
			23:09:18

Customer: OXY	Job Date: 29-Mar-2012	Sales Order #: 9335418
Well Description: CC 697-04-68	Job Type: TOPOUT	ADC Used: YES
Company Rep:	Cement Supervisor: RYON NICKLE	Elite # / Operator: E6 / STEVEN BORSZICH

HALLIBURTON

Water Analysis Report

Company: OXY

Submitted by: RYON NICKLE

Attention: LAB

Lease H&P 330

Well # CC 697-04-68

Date: 3/25/2012

Date Rec.: 3/25/2012

S.O.# 9335418

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	0 Mg / L
Hrdness	<i>500</i>	380 Mg / L
Iron (FE2)	<i>300</i>	5 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Temp	<i>40-80</i>	42 Deg
Total Dissolved Solids		480 Mg / L

Respectfully: RYON NICKLE

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 it

Sales Order #: 9335418	Line Item: 10	Survey Conducted Date: 3/29/2012
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20713
Well Name: CC		Well Number: 697-04-68
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	3/29/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	RYON NICKLE (HB22175)
Customer Participation	Did the customer participate in this survey? (Y/N)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

CUSTOMER SIGNATURE

Sales Order #: 9335418	Line Item: 10	Survey Conducted Date: 3/29/2012
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20713
Well Name: CC		Well Number: 697-04-68
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	3/29/2012

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.	Vertical
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	9
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.	0
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	5
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Was this a Primary Cement Job (Yes / No)	Yes

Sales Order #: 9335418	Line Item: 10	Survey Conducted Date: 3/29/2012
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Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20713
Well Name: CC		Well Number: 697-04-68
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

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	95
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