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# **OXY GRAND JUNCTION EBUSINESS**

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**CC 697-16-09A  
GRAND VALLEY  
Garfield County , Colorado**

**Cement Surface Casing  
13-Jun-2010**

**Post Job Report**

### The Road to Excellence Starts with Safety

<b>Sold To #:</b> 344034		<b>Ship To #:</b> 2784937		<b>Quote #:</b>		<b>Sales Order #:</b> 7430842	
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS				<b>Customer Rep:</b> BENAVIDES, SIMON			
<b>Well Name:</b> CC		<b>Well #:</b> 697-16-09A		<b>API/UWI #:</b> 05-045-16964			
<b>Field:</b> GRAND VALLEY		<b>City (SAP):</b> PARACHUTE		<b>County/Parish:</b> Garfield		<b>State:</b> Colorado	
<b>Lat:</b> N 39.531 deg. OR N 39 deg. 31 min. 49.951 secs.				<b>Long:</b> W 108.233 deg. OR W -109 deg. 46 min. 0.469 secs.			
<b>Contractor:</b> OXY		<b>Rig/Platform Name/Num:</b> H&P 330					
<b>Job Purpose:</b> Cement Surface Casing							
<b>Well Type:</b> Development Well				<b>Job Type:</b> Cement Surface Casing			
<b>Sales Person:</b> DUNNING, DUSTIN				<b>Srvc Supervisor:</b> ERIC CARTER		<b>MBU ID Emp #:</b> 345598	
<b>Job Personnel</b>							
<b>HES Emp Name</b>	<b>Exp Hrs</b>	<b>Emp #</b>	<b>HES Emp Name</b>	<b>Exp Hrs</b>	<b>Emp #</b>	<b>HES Emp Name</b>	<b>Exp Hrs</b>
BANKS, BRENT A	10.5	371353	BLAKE, TIMOTHY Kenn	10.5	459313	CARTER, ERIC Earl	10.5
HOEFER, BRYAN D	10.5	415775	STEELE, BENJAMIN F	10.5	458599		
<b>Equipment</b>							
<b>HES Unit #</b>	<b>Distance-1 way</b>	<b>HES Unit #</b>	<b>Distance-1 way</b>	<b>HES Unit #</b>	<b>Distance-1 way</b>	<b>HES Unit #</b>	<b>Distance-1 way</b>
10822535	120 mile	10867322	120 mile	10872429	120 mile	10951251	120 mile
10989685	120 mile	10998512	120 mile	11360883	120 mile		
<b>Job Hours</b>							
<b>Date</b>	<b>On Location Hours</b>	<b>Operating Hours</b>	<b>Date</b>	<b>On Location Hours</b>	<b>Operating Hours</b>	<b>Date</b>	<b>On Location Hours</b>
6/13/10	10.5	7					
<b>TOTAL</b>		<i>Total is the sum of each column separately</i>					
<b>Job</b>				<b>Job Times</b>			
<b>Formation Name</b>				<b>Date</b>			
<b>Formation Depth (MD)</b> <b>Top</b> 0 <b>Bottom</b> 2705 FT.				<b>Time</b> 15:00 <b>Time Zone</b> CST			
<b>Form Type</b> BHST				<b>Called Out</b> 12 - Jun - 2010			
<b>Job depth MD</b> 2705. ft <b>Job Depth TVD</b> 2705. ft				<b>On Location</b> 13 - Jun - 2010			
<b>Water Depth</b> <b>Wk Ht Above Floor</b> 5. ft				<b>Job Started</b> 13 - Jun - 2010			
<b>Perforation Depth (MD)</b> <b>From</b> <b>To</b>				<b>Job Completed</b> 13 - Jun - 2010			
				<b>Departed Loc</b> 13 - Jun - 2010			
<b>Well Data</b>							
<b>Description</b>	<b>New / Used</b>	<b>Max pressure psig</b>	<b>Size in</b>	<b>ID in</b>	<b>Weight lbm/ft</b>	<b>Thread</b>	<b>Grade</b>
							<b>Top MD ft</b> <b>Bottom MD ft</b> <b>Top TVD ft</b> <b>Bottom TVD ft</b>
<b>Sales/Rental/3<sup>rd</sup> Party (HES)</b>							
<b>Description</b>				<b>Qty</b>	<b>Qty uom</b>	<b>Depth</b>	<b>Supplier</b>
PLUG,CMTG, TOP, 9 5/8, HWE, 8.16 MIN/9.06 MA				1	EA		
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		
<b>Tools and Accessories</b>							
<b>Type</b>	<b>Size</b>	<b>Qty</b>	<b>Make</b>	<b>Depth</b>	<b>Type</b>	<b>Size</b>	<b>Qty</b>
Guide Shoe					Packer		
Float Shoe					Bridge Plug		
Float Collar					Retainer		
Insert Float							
Stage Tool							
<b>Miscellaneous Materials</b>							
<b>Gelling Agt</b>	<b>Conc</b>	<b>Surfactant</b>	<b>Conc</b>	<b>Acid Type</b>	<b>Qty</b>	<b>Conc</b>	<b>%</b>
<b>Treatment Fld</b>	<b>Conc</b>	<b>Inhibitor</b>	<b>Conc</b>	<b>Sand Type</b>	<b>Size</b>	<b>Qty</b>	

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	WATER SPACER	FRESH WATER	20.00	bbl	8.33	.0	.0	6	
2	SUPER FLUSH 101	SUPER FLUSH 101 - SBM (12199)	20.00	bbl	10.	.0	.0	6	
3	WATER SPACER	FRESH WATER	20.00	bbl	.	.0	.0	6	
4	Lead Cement	VERSACEM (TM) SYSTEM (452010)	929.0	sacks	12.3	2.33	12.62	6	12.62
		12.62 Gal	FRESH WATER						
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.07	10.67	6	10.67
		10.67 Gal	FRESH WATER						
6	DISPLACEMENT	FRESH WATER	203.2	bbl	.	.0	.0	4.5	
7	Topout Cement	VARICEM (TM) CEMENT (452009)	15	sacks	14.	1.78	7.67	2	7.67
		7.67 Gal	FRESH WATER						
Calculated Values		Pressures		Volumes					
Displacement	203.2	Shut In: Instant		Lost Returns	YES	Cement Slurry	459.5	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	163	Actual Displacement	203.2	Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	722.7
Rates									
Circulating	RIG	Mixing	6	Displacement	4.5	Avg. Job	5.25		
Cement Left In Pipe	Amount	48 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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<b>Well Name:</b> CC	<b>Well #:</b> 697-16-09A	<b>API/UWI #:</b> 05-045-16964	
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<b>Legal Description:</b>			
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<b>Contractor:</b> OXY		<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> DUNNING, DUSTIN		<b>Srvc Supervisor:</b> ERIC CARTER	<b>MBU ID Emp #:</b> 345598

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	06/12/2010 17:00							
Depart Yard Safety Meeting	06/12/2010 19:20							ATTENDED BY ALL HES CREW
Crew Leave Yard	06/12/2010 19:30							
Arrive At Loc	06/13/2010 00:00							RIG LANDING CASING, AT COMPANY REP'S REQUEST HES RIGGED UP AND STARTED JOB
Assessment Of Location Safety Meeting	06/13/2010 00:10							ATTENDED BY ALL HES CREW
Other	06/13/2010 00:40							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	06/13/2010 00:50							ATTENDED BY ALL HES CREW
Rig-Up Equipment	06/13/2010 01:00							
Pre-Job Safety Meeting	06/13/2010 01:30							ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP, RIG HAD RETURNS UP TO SAFETY MEETING.
Start Job	06/13/2010 02:02							TP 2677', TD 2705', SJ 48', FC 2629', MW 9 PPG, CASING 9.625", 36#, J-55, HOLE 14.75"
Prime Pumps	06/13/2010 02:03							
Test Lines	06/13/2010 02:05							PRESSURED UP TO 3500 PSI, PRESSURE HELD
Pump Spacer 1	06/13/2010 02:14		5	20	20		150.0	FRESH WATER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 2	06/13/2010 02:19		5	20	40		200.0	SUPER FLUSH
Pump Spacer 1	06/13/2010 02:23		6	20	60		210.0	FRESH WATER
Pump Lead Cement	06/13/2010 02:30		6	514.6	574.6		170.0	929 SKS MIXED AT 12.3 PPG, 2.33 YIELD, 12.62 GL/SK
Pump Tail Cement	06/13/2010 04:23		6	59	633.6		150.0	160 SKS MIXED AT 12.8 PPG, 2.07 YIELD, 10.67 G/L/SK
Shutdown	06/13/2010 04:46							
Drop Top Plug	06/13/2010 04:46							PLUG LAUNCHED
Pump Displacement	06/13/2010 04:47		4.5	193.2	826.8		1230.0	FRESH WATER
Slow Rate	06/13/2010 05:17		2	10	836.8		900.0	
Bump Plug	06/13/2010 05:49						1551.0	PLUG LANDED
Check Floats	06/13/2010 05:52							FLOATS HELD
Pressure Up	06/13/2010 05:54						1550.0	PRESSURED UP ON CASING
Release Casing Pressure	06/13/2010 06:10							
Other	06/13/2010 06:23		4	10	846.8		420.0	PUMP THROUGH PARASITE
End Job	06/13/2010 06:31							GOT RETURNS AT 400 BBLS GONE OF LEAD CEMENT, 163 BBLS CEMENT TO SURFACE, PIPE WAS NOT MOVED DURING JOB.
Post-Job Safety Meeting (Pre Rig-Down)	06/13/2010 06:40							ATTENDED BY ALL HES CREW
Rig-Up Equipment	06/13/2010 06:50							RIG UP IRON FOR TOP OUT
Pre-Job Safety Meeting	06/13/2010 09:00							ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP
Start Job	06/13/2010 09:10							USED RIGS 2" IRON
Other	06/13/2010 09:11							CLEAR LINES EITH FRESH WATER

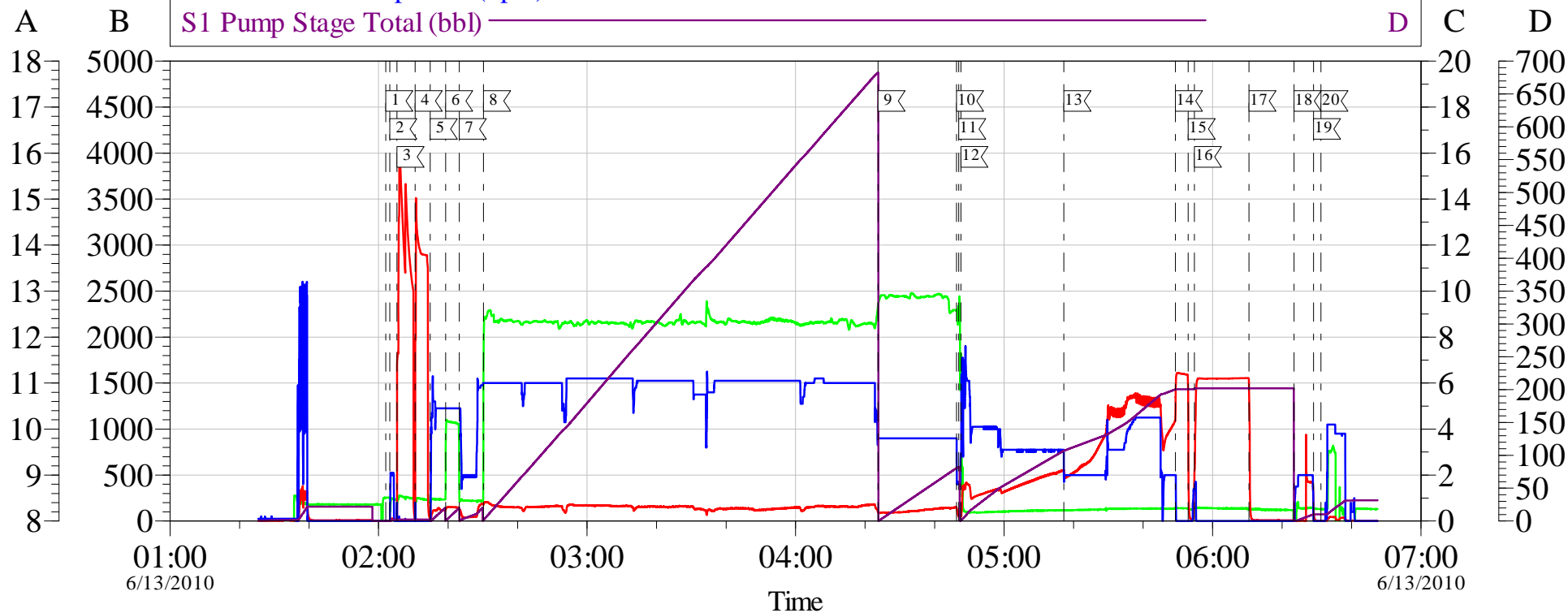
## Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Cement	06/13/2010 09:17		2	15	861.8	55.0		47 SKS MIXED AT 14 PPG, 1.78 YIELD, 7.67 GL/SK
Shutdown	06/13/2010 09:25							BROUGHT CEMENT TO SURFACE
End Job	06/13/2010 09:25							
Post-Job Safety Meeting (Pre Rig-Down)	06/13/2010 09:30							ATTENDED BY ALL HES CREW
Other	06/13/2010 10:10							COMPANY REP RELEASED HES CREW.
Rig-Down Equipment	06/13/2010 10:20							
Depart Location Safety Meeting	06/13/2010 10:50							ATTENDED BY ALL HES CREW
Crew Leave Location	06/13/2010 11:00							THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW.

# OXY

## 9.625" SURFACE/CC 697-16-09A

S1 Downhole Density (lb/gal) ————— A  
 S1 Pass-Side Pump Pressure (psi) ————— B  
 S1 Combined Pump Rate (bpm) ————— C  
 S1 Pump Stage Total (bbl) ————— D



### Local Event Log

1 STARTJOB	02:02:05	2 PRIME LINES	02:03:15	3 TEST LINES	02:05:17
4 TEST LINES	02:10:32	5 PUMP H2O SPACER	02:14:53	6 PUMP SUPER FLUSH	02:19:18
7 PUMP H2O SPACER	02:23:14	8 PUMP LEAD CEMENT	02:30:12	9 PUMP TAIL CEMENT	04:23:43
10 DROP TOP PLUG	04:46:18	11 SHUTDOWN	04:46:56	12 PUMP DISPLACEMENT	04:47:34
13 SLOW RATE	05:17:12	14 BUMP PLUG	05:49:17	15 CHECK FLOATS	05:52:57
16 PRESSURE UP ON CASING	05:54:45	17 RELEASE PRESSURE	06:10:28	18 PUMP THROUGH PARASITE	06:23:26
19 SHUTDOWN	06:29:03	20 END JOB	06:31:10		

Customer: OXY GRAND JUNCTION EBUSINESS  
 Well Description: CC 697-16-09A  
 Company Rep: SIMON B

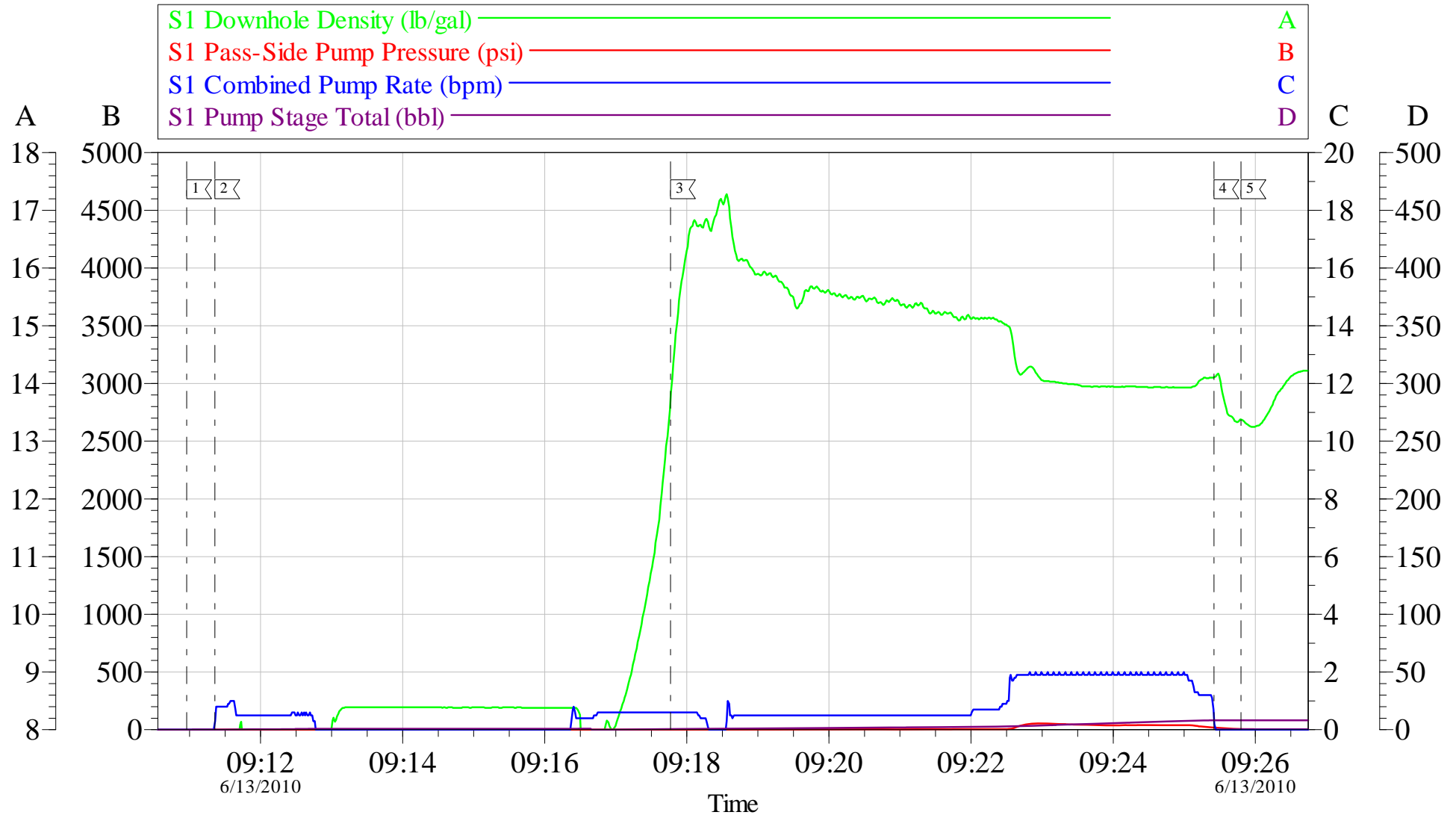
Job Date: 13-Jun-2010  
 Job Type: 9.625 " SURFACE  
 Cement Supervisor: ERIC CARTER

Sales Order #: 7430842  
 ADC Used: YES  
 Elite #/Operator: 11/BEN STEELE

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 13-Jun-10 11:32

# OXY

## TOP OUT/ CC 697-16-09A



Local Event Log					
1	START JOB	09:10:58	2	CLEAR LINES	09:11:21
			3	PUMP CEMENT	09:17:46
4	SHUTDOWN	09:25:25	5	END JOB	09:25:48

Customer: OXY  
Well Description: CC 697-16-09A  
Company Rep: SIMON B

Job Date: 13-Jun-2010  
Job Type: TOP OUT  
Cement Supervisor: ERIC CARTER

Sales Order #: 7430842  
ADC Used: YES  
Elite #/Operator: 11/BEN STEELE

OptiCem v6.4.0  
13-Jun-10 11:20