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# **OXY GRAND JUNCTION EBUSINESS**

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**CC 697-17-15  
PICEANCE  
Garfield County , Colorado**

**Cement Surface Casing  
23-May-2010**

**Post Job Report**

## The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 2784992	Quote #:	Sales Order #: 7369193
Customer: OXY GRAND JUNCTION EBUSINESS	Customer Rep: BENAVIDES, SIMON		
Well Name: CC	Well #: 697-17-15	API/UWI #: 05-045-19277	
Field: PICEANCE	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.53 deg. OR N 39 deg. 31 min. 49.782 secs.	Long: W 108.233 deg. OR W -109 deg. 46 min. 0.469 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: DUNNING, DUSTIN	Srvc Supervisor: SCOTT, DALLAS	MBU ID Emp #: 334750	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HOEFER, FREEMAN Dennis	24	369666	HUGENTOBLE, LOGAN Mark	24	447333	NELSON, RYAN Cody	24	386514
ROSS, CHARLES Raymond	24	453128	SCOTT, DALLAS D	24	334750	SLAUGHTER, JESSE Dean	24	454315

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025041	60 mile	10296152C	60 mile	10741119	60 mile	10822535	60 mile
10867322	60 mile	10897797	60 mile	10951248	60 mile	10951249	60 mile
10998512	60 mile						

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
05/22/10	3	0	05/23/10	21	8			

**TOTAL** Total is the sum of each column separately

### Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	22 - May - 2010	15:30	MST
Form Type		BHST	Job Started	22 - May - 2010	21:00	MST
Job depth MD	2960. ft	Job Depth TVD	Job Completed	23 - May - 2010	00:00	MST
Water Depth		Wk Ht Above Floor	Departed Loc	23 - May - 2010	00:00	MST
Perforation Depth (MD)	From	To				

### 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				.	2960.		
9 5/8" Surface Casing	New		9.625	8.921	36.		J-55	.	2926.		

### 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	
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8"	1	
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 <sup>3</sup> /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	SUPERFLUSH 101		20.00	bbl	10.	.0	.0	.0	
3	WATER SPACER		20.00	bbl	.	.0	.0	.0	
4	Lead Cement	VERSACEM (TM) SYSTEM (452010)	1377.0	sacks	12.3	2.33	12.62		12.62
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)		sacks	12.8	2.07	10.67		10.67
6	DISPLACEMENT			bbl	.	.0	.0	.0	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)		sacks	15.8	1.15	5.0		5.0
5 Gal		FRESH WATER							
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
Displacement	222	Shut In: Instant		Lost Returns	Yes	Cement Slurry		Pad	
Top Of Cement	Surface	5 Min		Cement Returns	5	Actual Displacement	222	Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
<b>Rates</b>									
Circulating	Rig	Mixing	6	Displacement	6	Avg. Job	6		
Cement Left In Pipe	Amount	51.9 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*

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<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS				<b>Customer Rep:</b> BENAVIDES, SIMON			
<b>Well Name:</b> CC			<b>Well #:</b> 697-17-15			<b>API/UWI #:</b> 05-045-19277	
<b>Field:</b> PICEANCE		<b>City (SAP):</b> PARACHUTE		<b>County/Parish:</b> Garfield		<b>State:</b> Colorado	
<b>Legal Description:</b>							
<b>Lat:</b> N 39.53 deg. OR N 39 deg. 31 min. 49.782 secs.				<b>Long:</b> W 108.233 deg. OR W -109 deg. 46 min. 0.469 secs.			
<b>Contractor:</b> H&P 330			<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> SCOTT, DALLAS			<b>MBU ID Emp #:</b> 334750	

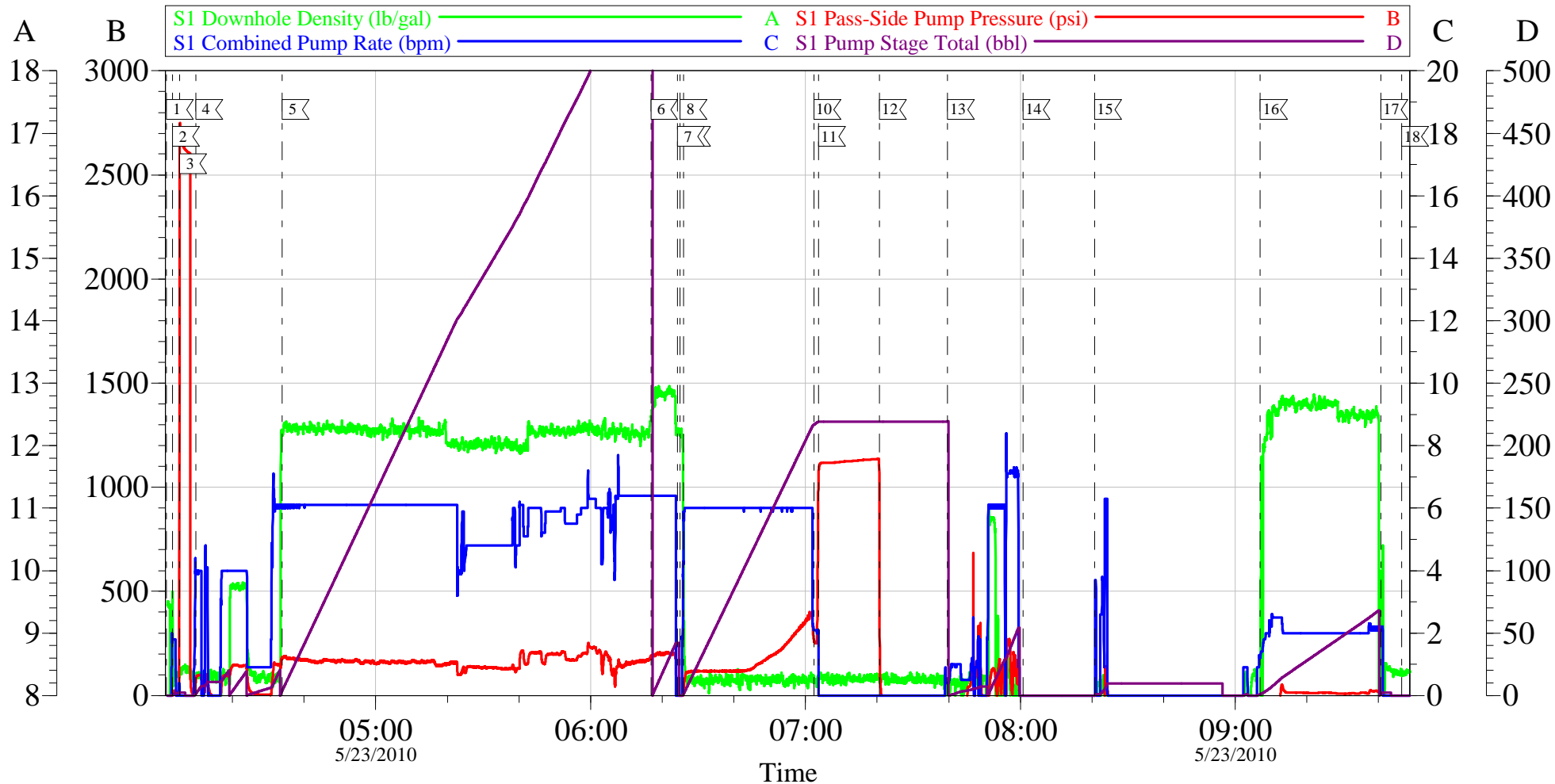
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	05/22/2010 15:30							
Pre-Convoy Safety Meeting	05/22/2010 18:00							Safety meeting including entire HES crew
Crew Leave Yard	05/22/2010 18:15							Crew signed out
Arrive At Loc	05/22/2010 21:00							Rig still running casing aprox. 50 jts remaining
Other	05/22/2010 21:00							TP 2926'; TD 2960'; SJ 51.92'; MW 9.3#; Casing 9 5/8" 36# J-55; Hole 14 3/4"
Safety Meeting - Assessment of Location	05/22/2010 21:05							Location assessment including entire HES crew; Hazards mitigated ; Area taped off; High PSI sign in place
Pre-Rig Up Safety Meeting	05/22/2010 21:15							Safety meeting including entire HES crew
Rig-Up Equipment	05/22/2010 21:25							1 Pump (Elite9); 1 Bulk (660); 2 Bin (1410); 1 Hardline from pump to plug container; 1 Hardline from manifold to pit; 2 H2O line to Upright;
Rig-Up Completed	05/22/2010 23:00							Superflush Truck arrived on location @ 2100 Co-rep requested on location @ 0200 Truck left location @ 0900
Circulate Well	05/23/2010 02:30							Rig circulated 1 hrs prior to job; No circulation prior to job; Rig circulated 60 strokes @ 0 PSI

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pre-Job Safety Meeting	05/23/2010 03:45							Safety meeting including everyone on location
Start Job	05/23/2010 04:02							No pipe movement during job
Other	05/23/2010 04:03		2	2			24.0	Fill lines
Pressure Test	05/23/2010 04:05						2500.0	PSI test good; No leaks
Pump Spacer 1	05/23/2010 04:09		4	20			78.0	Freshwater spacer; 4x4 @ 110 PSI
Pump Spacer 2	05/23/2010 04:19		4	20			100.0	Superflush spacer
Pump Spacer 1	05/23/2010 04:24		1	20			37.0	Freshwater spacer
Pump Lead Cement	05/23/2010 04:33		6	571.42			220.0	(Versacem) 1377 sks; 12.3 ppg, 2.33 ft3/sk; 12.62 gal/sk; BP @ 12 PSI
Pump Tail Cement	05/23/2010 06:17		6	44.24			180.0	(Versacem) 120 sks; 12.8 ppg; 2.07 ft3/sk; 10/.67 gal/sk; BP @ 12 PSI
Shutdown	05/23/2010 06:23							
Drop Plug	05/23/2010 06:24							Plug left container
Pump Displacement	05/23/2010 06:26		6	212			115.0	Freshwater displacement
Slow Rate	05/23/2010 07:02		2	10			280.0	Last 10 bbls of displacement
Bump Plug	05/23/2010 07:05		2		212		1500.0	Landed @ 285 PSI took to 1500 PSI for 15 min as per Co-Rep
Check Floats	05/23/2010 07:20							Floats held; 1/2 bbls back; No returns throughout job
Other	05/23/2010 07:39							Pump 10 bbls sugar water through parasite
Shutdown	05/23/2010 08:00							Topout #1
Pump Cement	05/23/2010 09:07		2	61			110.0	(Halcem) 175 sks; 12.5 ppg; 1.97 ft3/sk; 10.96 gal/sk
Shutdown	05/23/2010 09:40							
End Job	05/23/2010 09:42							No circulation throughout job; 0 bbls of cement to surface

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Start Job	05/23/2010 12:21							Topout #2
Pump Cement	05/23/2010 12:22		2	61			60.0	(Halcem) 175 sks; 12.5 ppg; 1.97 ft3/sk; 10.96 gal/sk
Shutdown	05/23/2010 12:48							No Signs of cement to surface; No returns
End Job	05/23/2010 12:48							
Start Job	05/23/2010 17:56							Topout #3
Pump Cement	05/23/2010 17:57		2.5	35.8			100.0	(Halcem) 175 sks, 15.8 ppg, 1.15 ft3/sk, 5.0 gal/sk
Shutdown	05/23/2010 18:12							No Signs of cement to surface; No returns
End Job	05/23/2010 18:12							
Start Job	05/23/2010 20:31							
Pump Cement	05/23/2010 20:31		1.5	14			100.0	(Halcem) 69 sks, 15.8 ppg, 1.15 ft3/sk, 5.0 gal/sk
Shutdown	05/23/2010 20:35							5 bbls of cement to surface
End Job	05/23/2010 20:35							
Pre-Rig Down Safety Meeting	05/23/2010 20:45							Safety meeting including entire HES crew
Rig-Down Equipment	05/23/2010 20:55							
Rig-Down Completed	05/23/2010 21:30							
Safety Meeting - Departing Location	05/23/2010 21:35							Safety meeting including entire HES crew
Crew Leave Location	05/23/2010 21:45							Thank-you for choosing Halliburton

# Oxy

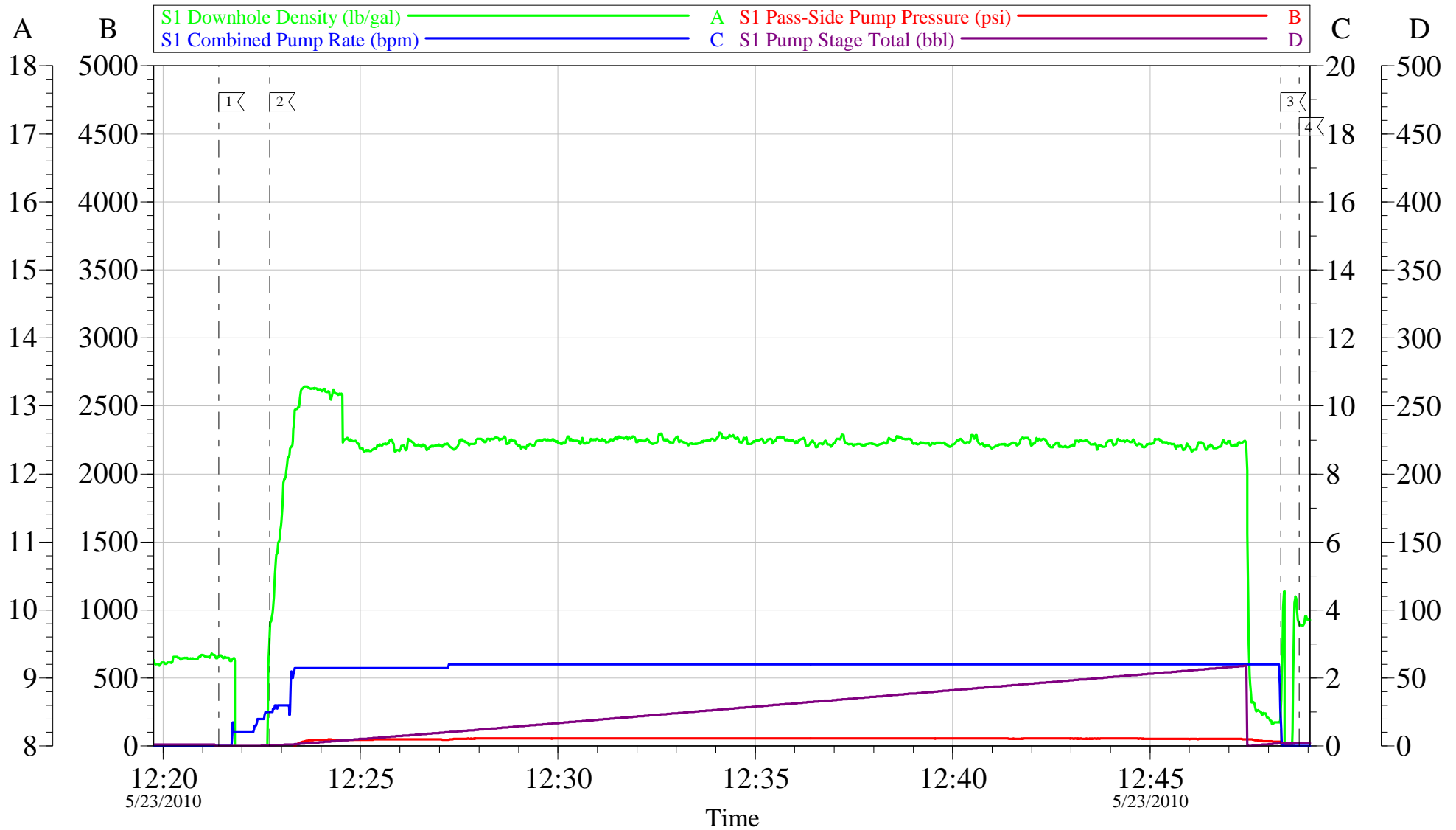
## 9 5/8" Surface/Topout #1



Local Event Log			
1 Start Job	04:01:31	2 Fill Lines	04:03:15
4 H2O Spacer	04:09:43	5 Lead Cement	04:33:49
7 Shutdown	06:24:15	8 Drop Plug	06:24:57
10 Slow Rate	07:02:19	11 Bump Plug	07:03:40
13 Pump Through Parasite	07:39:42	14 Shutdown	08:00:46
16 Pump Topout	09:07:01	17 Shutdown	09:40:40
		3 PSI Test	04:05:17
		6 Tail Cement	06:16:48
		9 H2O Displacement	06:25:57
		12 Check Floats	07:20:40
		15 Wash pumps and lines	08:20:48
		18 End Job	09:46:26

Customer: Oxy	Job Date: 23-May-2010	Sales Order #: 7369193
Well Description: CC 697-17-15	Job Type: 9 5/8" Surface	ADC Used: Yes
Company Rep: O.B. Sanchez	Cement Supervisor: Dallas Scott	Elite #/Operator: Jesse Slaughter

# Oxy Topout #2

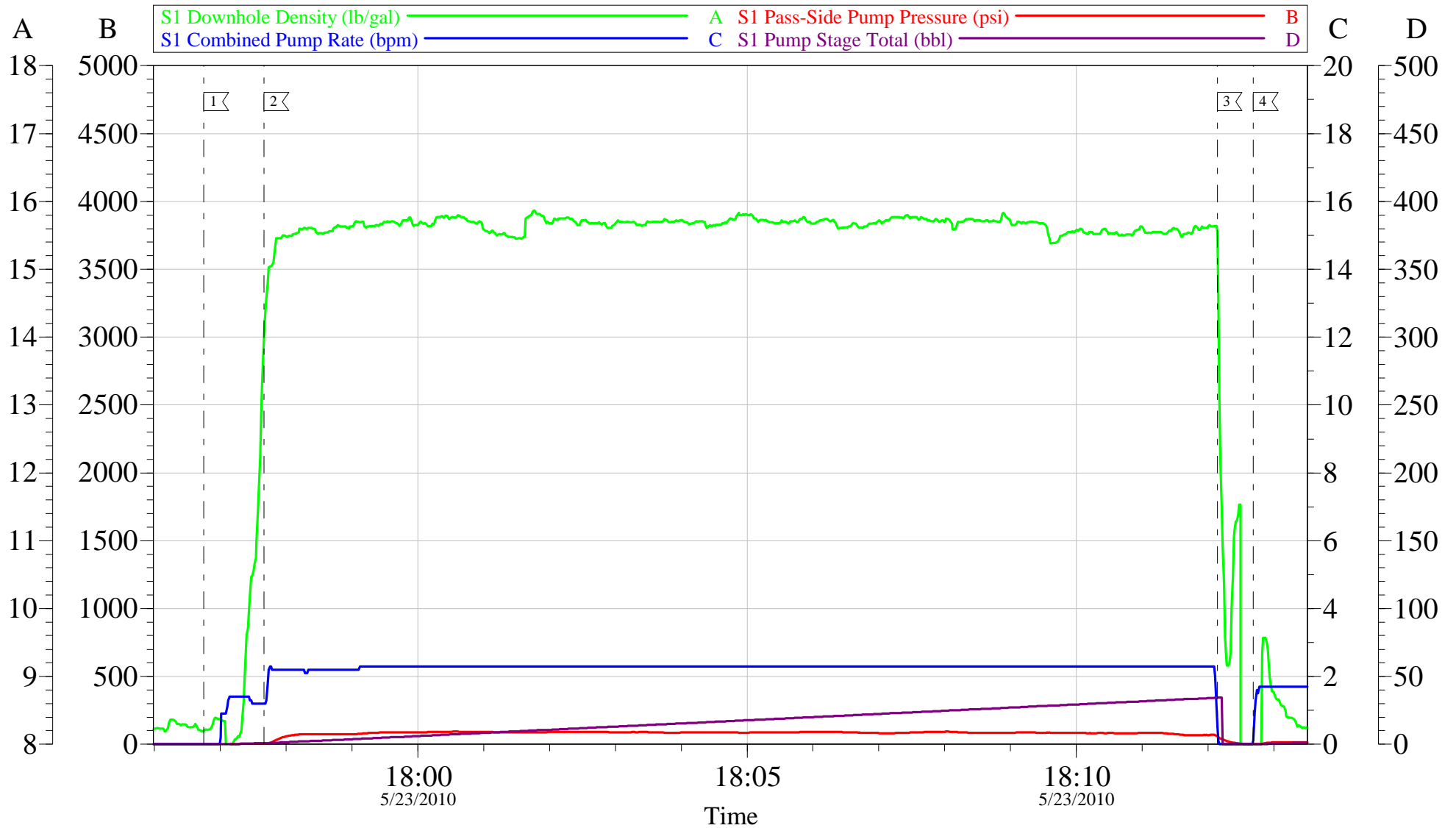


Customer: Oxy	Job Date: 23-May-2010	Sales Order #: 7369193
Well Description: CC 697-17-15	Job Type: Topout	ADC Used: Yes
Company Rep: O.B. Sanchez	Cement Supervisor: Dallas Scott	Elite #/Operator: 9/Jesse Slaughter

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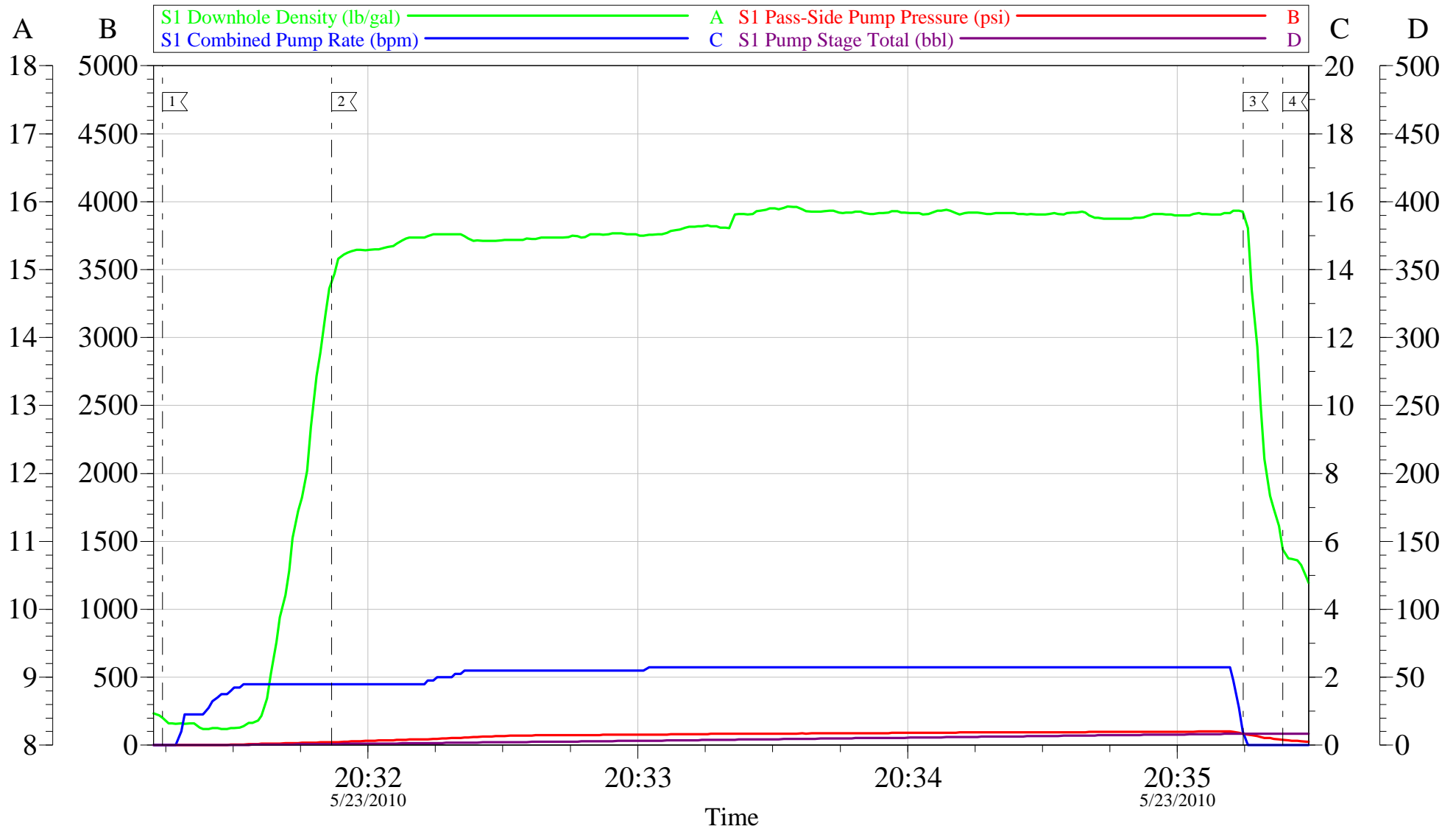


# Oxy Topout #3



Customer: Oxy	Job Date: 23-May-2010	Sales Order #: 7369193
Well Description: CC 697-17-15	Job Type: Topout #3	ADC Used: Yes
Company Rep: O.B. Sanchez	Cement Supervisor: Dallas Scott	Elite #/Operator: 9/Jesse Slaughter

# Oxy Topout #4



Local Event Log					
1	Start Job	20:31:14	2	Pump Cement	20:31:52
3	Shutdown	20:35:15	4	End Job	20:35:23

Customer: Oxy	Job Date: 23-May-2010	Sales Order #: 7369193
Well Description: CC 697-17-15	Job Type: Topout #4	ADC Used: Yes
Company Rep: O.B. Sanchez	Cement Supervisor: Dallas Scott	Elite #/Operator: 9/Logan Hugentobler

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