HALLIBURTON

OXY GRAND JUNCTION EBUSINESS

Cascade Creek 697-04-82
GRAND VALLEY
Garfield Co3unty , Colorado

Cement Surface Casing

27-Dec-2011

Post Job Report

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 344034	**Ship To #:** 9107138	**Quote #:**	**Sales Order #:** 9107138
Customer: OXY GRAND JUNCTION EBUSINESS		**Customer Rep:** Benevides, Victor	
Well Name: Cascade Creek	**Well #:** 697-04-82		**API/UWI #:** 05-045-20728
Field: GRAND VALLEY	**City (SAP):**	**County/Parish:** Garfield	**State:** Colorado
Lat: N 39.549 deg. OR N 39 deg. 32 min. 55.428 secs.		**Long:** W 108.23 deg. OR W -109 deg. 46 min. 11.064 secs.	
Contractor: H&P Drilling	**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:** ANGLESTEIN, TROY	**MBU ID Emp #:** 436099	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANGLESTEIN, TROY Edward WM	34	436099	JENSEN, JESSE Robert	34	478774	KEANE, JOHN Donovon	34	486519
ROMKEE, DALE Alan	34	488215						

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*

Job Hours

Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours
12/25/2011	3	0	12/26/2011	24	6	12/27/2011	7	2
TOTAL			*Total is the sum of each column separately*					

Job

Formation Name					
Formation Depth (MD)	**Top**		**Bottom**		
Form Type		**BHST**			
Job depth MD	2432. ft	**Job Depth TVD**	2432. ft		
Water Depth		**Wk Ht Above Floor**	2. ft		
Perforation Depth (MD)	*From*		**To**		

Job Times

	Date	Time	Time Zone
Called Out	25 - Dec - 2011	14:00	MST
On Location	25 - Dec - 2011	21:00	MST
Job Started	26 - Dec - 2011	08:56	MST
Job Completed	27 - Dec - 2011	05:25	MST
Departed Loc	26 - Dec - 2011	07:00	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 SECTION				14.75				.	2432.		
SURFACE CASING	Unknown		9.625	8.921	36.		H-40	.	2322.6		

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

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Cementing Job Summary

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
1	Water Spacer		20.00	bbl	8.33	.0	.0	4	
2	Gel Spacer		20.00	bbl	.	.0	.0	4	
3	Water Spacer		20.00	bbl	.	.0	.0	4	
4	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	1070.0	sacks	12.3	2.33	12.62	6	12.62
	12.62 Gal	FRESH WATER							
5	VersaCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	170.0	sacks	12.8	2.07	10.67	6	10.67
	10.67 Gal	FRESH WATER							
6	Displacement		176.00	bbl	.	.0	.0	6	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)	783.0	sacks	12.5	1.97	10.96	2	10.96
	10.96 Gal	FRESH WATER							

Calculated Values		Pressures		Volumes					
Displacement	175.8	Shut In: Instant		Lost Returns	727	*Cement Slurry*	780.7	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	12	Actual Displacement	175.8	Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	1021

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***

HALLIBURTON

Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 344034	**Ship To #:** 9107138	**Quote #:**	**Sales Order #:** 9107138
Customer: OXY GRAND JUNCTION EBUSINESS		**Customer Rep:** Benevides, Victor	
Well Name: Cascade Creek	**Well #:** 697-04-82		**API/UWI #:** 05-045-20728
Field: GRAND VALLEY	**City (SAP):**	**County/Parish:** Garfield	**State:** Colorado
Legal Description:			
Lat: N 39.549 deg. OR N 39 deg. 32 min. 55.428 secs.		**Long:** W 108.23 deg. OR W -109 deg. 46 min. 11.064 secs.	
Contractor: H&P Drilling	**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:** ANGLESTEIN, TROY		**MBU ID Emp #:** 436099

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/25/2011 14:00							
Pre-Convoy Safety Meeting	12/25/2011 17:00							ALL HES EMPLOYEES
Arrive At Loc	12/25/2011 21:00							RIG GOT STUCK AND HAD TO LEAVE OUT 2 JOINTS OF CASING CIRCULATED FOR 1 HOUR
Assessment Of Location Safety Meeting	12/25/2011 21:15							ALL HES EMPLOYEES
Rig-Up Equipment	12/26/2011 07:00							1 HT 400 PUMP TRUCK, 2 660 BULK TRUCKS, 1 9.625" QUICK LATCH PLUG CONTAINER, 1 F 450 P/U, 2 FIELD SILOS
Pre-Job Safety Meeting	12/26/2011 08:20							ALL HES EMPLOYEES, RIG CREW, CO REP.
Start Job	12/26/2011 08:56							TP 2322.6', TD 2432', FC 2273.9', HOLE 14.75", MUD WT 8.9 PPG, 800 BBLS OF H2O ON LOCATION, WATER SAMPLE SUBMITTED. 650 SKS OF TOPOUT CEMENT IN SILO, 500 SKS HAS NOT PREVIOUSLY BEEN CHARGED AND WILL BE CHARGED ON CURRENT TICKET
Pump Water	12/26/2011 08:57		2	2			13.0	FILL LINES
Pressure Test	12/26/2011 08:59		0.5	0.5		3162.0		NO LEAKS

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Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	12/26/2011 09:04		4	20			83.0	FRESH WATER
Pump Spacer 2	12/26/2011 09:09		4	20			86.0	GEL WATER 2.5 GALS OF LGC PER 10 BBLS
Pump Spacer 1	12/26/2011 09:15		4	20			93.0	FRESHWATER
Pump Lead Cement	12/26/2011 09:21		6	444			204.0	1070 SKS VERSACEM CMT TO BE MIXED AT 12.3 PPG, 2.33 YIELD, 12.62 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES. WET AND DRY SAMPLES SUBMITTED. GOT RETURNS 340 BBLS INTO LEAD CEMENT LOST THEM AT 420 BBLS
Pump Tail Cement	12/26/2011 10:36		6	62.7			220.0	170 SKS VERSACEM CMT TO BE MIXED AT 12.8 PPG, 2.07 YIELD, 10.67 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES. WET AND DRY SAMPLES SUBMITTED.
Shutdown	12/26/2011 10:46							NO MORE THAN FIVE MINUTES
Drop Plug	12/26/2011 10:47							PLUG LAUNCHED
Pump Displacement	12/26/2011 10:48		6	175.8			260.0	FRESHWATER
Slow Rate	12/26/2011 11:17		2	165.8			260.0	10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	12/26/2011 11:17		2	175.8			300.0	PLUG LANDED AT 1028 HELD FOR FIVE MINUTES
Check Floats	12/26/2011 11:21							FLOATS HOLDING, NO ANNULAR FLOW NOTED
Pressure Up	12/26/2011 11:23		0.9	1			1534.0	1500 PSI 30 MINUTE CASING TEST
Activity Description	**Date/Time**	**Cht**	**Rate bbl/ min**	**Volume bbl**		**Pressure psig**		**Comments**

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Cementing Job Log

		#		Stage	Total	Tubing	Casing	
Release Casing Pressure	12/26/2011 11:56							RELEASE CASING PRESSURE BACK TO TRUCK
Pump Water	12/26/2011 12:10		1.5	10			190.0	PUMP 10 BBLS SUGAR WATER DOWN PARASITE CAUGHT PRESSURE AT 6 BBLS PUMPED
Shutdown	12/26/2011 12:17							
End Job	12/26/2011 12:18							HES TO WAIT 2 HOURS TO TOPOUT PER. CO. REP
Start Job	12/26/2011 13:12							START TOPOUT #1
Pump Water	12/26/2011 13:13		0.5	0.5			3.0	FRESHWATER
Pump Cement	12/26/2011 13:17		2	50			45.0	142.5 SKS TOPOUT CEMENT MIXED AT 12.5 PPG, 1.97 YIELD, 10.96 GAL/SK. CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES, WET AND DRY SAMPLES SUBMITTED.
Shutdown	12/26/2011 13:48							NO CEMENT RETURNS TO SURFACE
End Job	12/26/2011 13:48							HES TO WAIT 2 HOURS UNTIL NEXT TOPOUT PER CO. REP.
Start Job	12/26/2011 15:59							START TOPOUT #2
Pump Water	12/26/2011 15:59		0.5	0.5			2.0	FRESHWATER
Pump Cement	12/26/2011 16:03		2	75.6			62.0	215.5 SKS TOPOUT CEMENT MIXED AT 12.5 PPG, 1.97 YIELD, 10.96 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES, WET AND DRY SAMPLES SUBMITTED
Shutdown	12/26/2011 16:41							NO CEMENT RETURNS TO SURFACE

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Cementing Job Log

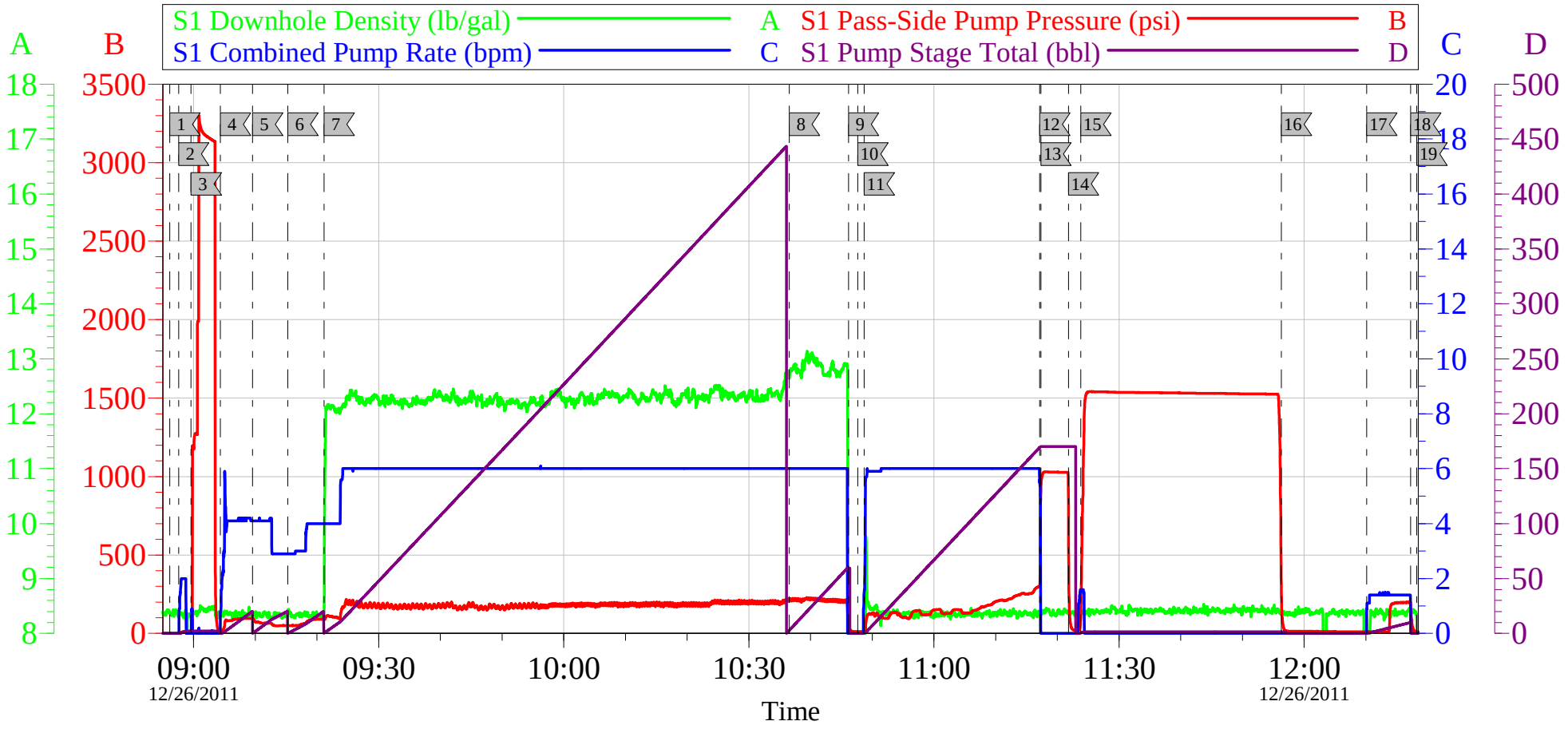
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
End Job	12/26/2011 16:42							HES TO WAIT 2 HOURS UNTIL NEXT TOPOUT PER CO. REP.
Start Job	12/26/2011 19:01							START TOPOUT #3
Pump Water	12/26/2011 19:01		0.5	0.5			3.0	FRESHWATER
Pump Cement	12/26/2011 19:07		2	90			57.0	256.5 SKS TOPOUT CEMENT MIXED AT 12.5 PPG , 1.97 YIELD, 10.96 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCEDMUD SCALES, WET AND DRY SAMPLES SUBMITTED
Shutdown	12/26/2011 19:51							NO CEMENT RETURNS TO SURFACE
End Job	12/26/2011 19:51							HES WAITING ON TOPOUT.
Start Job	12/27/2011 03:31							520 SKS OF TOPOUT ARRIVED AT 02:30 AM START TOPOUT #4
Pump Water	12/27/2011 03:31		0.5	0.5			3.0	FRESHWATER
Pump Cement	12/27/2011 03:35		2	40			53.0	138.5 SKS TOPOUT CEMENT MIXED AT 12.5 PPG, 1.97 YIELD, 10.96 GAL/SK. MIXED 100 LBS OF CALCIUM CHLORIDE IN THE CEMENT ON THE FLY.
Shutdown	12/27/2011 03:55							CEMENT RETURNS TO SURFACE SHUTDOWN TO CHECK FALL BACK
Pump Cement	12/27/2011 03:55		1.5	8.6			47.0	RESUME PUMPING
Shutdown	12/27/2011 04:02							CIRCULATED 8.6 BBLS OF CEMENT TO SURFACE
End Job	12/27/2011 04:03							WAITED 1 HOUR TAGGED CEMENT 30FT DOWN
Start Job	12/27/2011 05:13							START TOPOUT #5

HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Cement	12/27/2011 05:14		1.5	7.6			35.0	30.2 SKS TOPOUT CEMENT MIXED AT 12.5 PPG, 1.97 YIELD, 10.96 GAL/SK. MIXED 50 LBS OF CALCIUM CHLORIDE ON THE FLY
Shutdown	12/27/2011 05:20							CEMENT RETURNS TO SURFACE SHUTDOWN TO CHECK FALL BACK
Pump Cement	12/27/2011 05:20		1.5	3			34.0	RESUME PUMPING
Shutdown	12/27/2011 05:24							CIRCULATED 3 BBLS OF CEMENT TO SURFACE. A TOTAL OF 783 SKS/ 275 BBLS OF TOPOUT PUMPED
End Job	12/27/2011 05:25							THANK YOU FOR USING HES FROM TROY ANGLESTEIN AND CREW
Post-Job Safety Meeting (Pre Rig-Down)	12/27/2011 05:30							ALL HES EMPLOYEES
Rig-Down Equipment	12/27/2011 06:00							SAFELY
Pre-Convoy Safety Meeting	12/27/2011 06:50							ALL HES EMPLOYEES
Crew Leave Location	12/27/2011 07:00							SITE WAS AS CLEAN AS WHEN WE ARRIVED

OXY
CC 697-04-82 SURFACE



Local Event Log

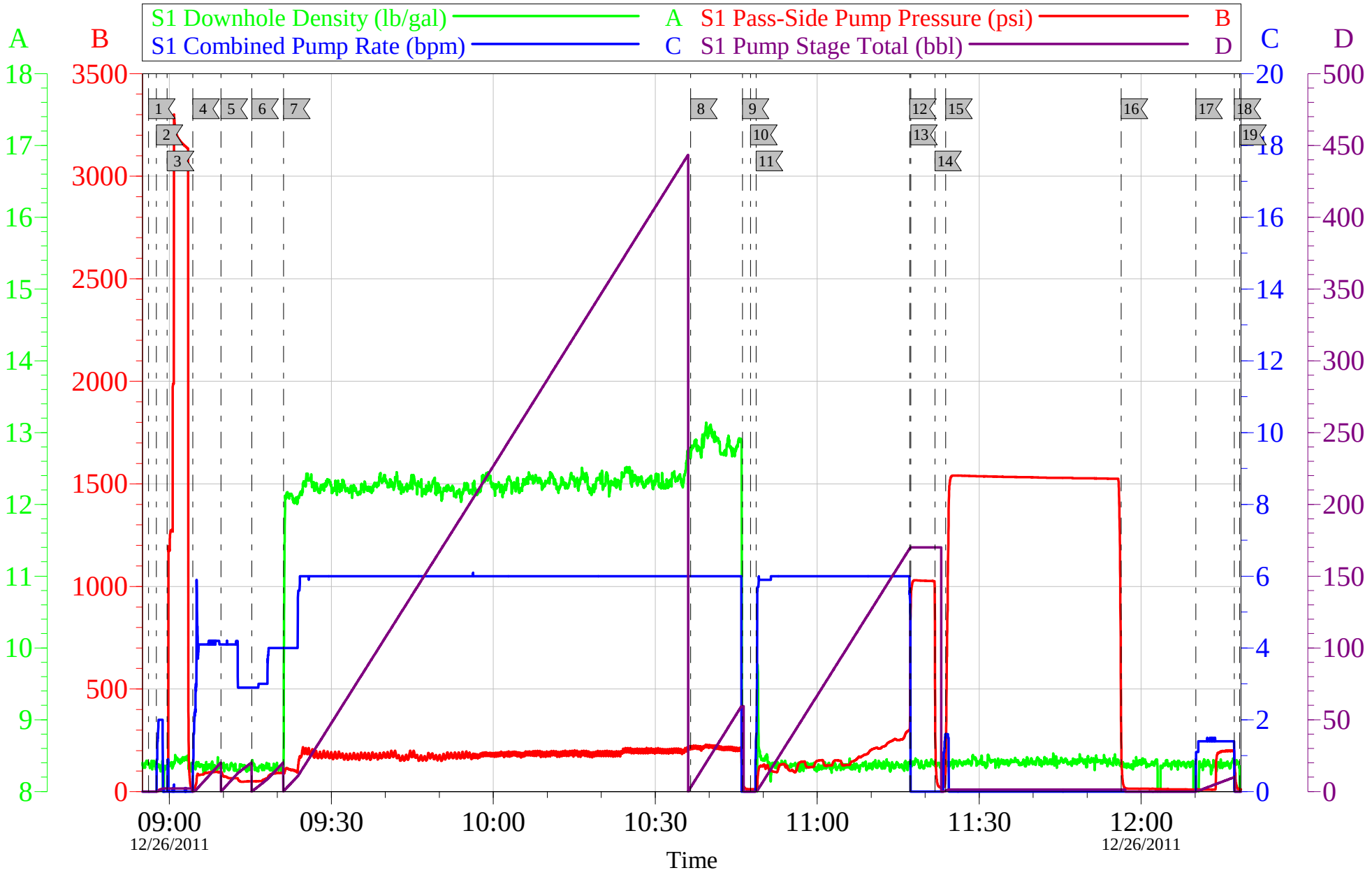
1	START JOB	08:56:08	2	FILL LINES	08:57:34	3	TEST LINES	08:59:35
4	PUMP H2O SPACER	09:04:21	5	PUMP GEL SPACER	09:09:34	6	PUMP H2O SPACER	09:15:16
7	PUMP LEAD CEMENT	09:21:09	8	PUMP TAIL CEMENT	10:36:33	9	SHUTDOWN	10:46:08
10	DROP PLUG	10:47:39	11	PUMP DISPLACEMENT	10:48:41	12	SLOW RATE	11:17:06
13	BUMP PLUG	11:17:18	14	CHECK FLOATS	11:21:48	15	PRESSURE UP	11:23:47
16	RELEASE PRESSURE	11:56:18	17	PUMP DOWN PARASITE	12:10:07	18	SHUTDOWN	12:17:14
19	END JOB	12:18:15						

Customer:	OXY	Job Date:	26-Dec-2011	Sales Order #:	9107138
Well Description:	CC 697-04-82	Job Type:	SURFACE	ADC Used:	YES
Company Rep:	VICTOR BENEVIDES	Cement Supervisor:	TROY ANGLESTEIN	Elite #: 4	JESSE JENSEN

OptiCem v6.4.10
26-Dec-11 12:29

OXY

CC 697-04-82 SURFACE

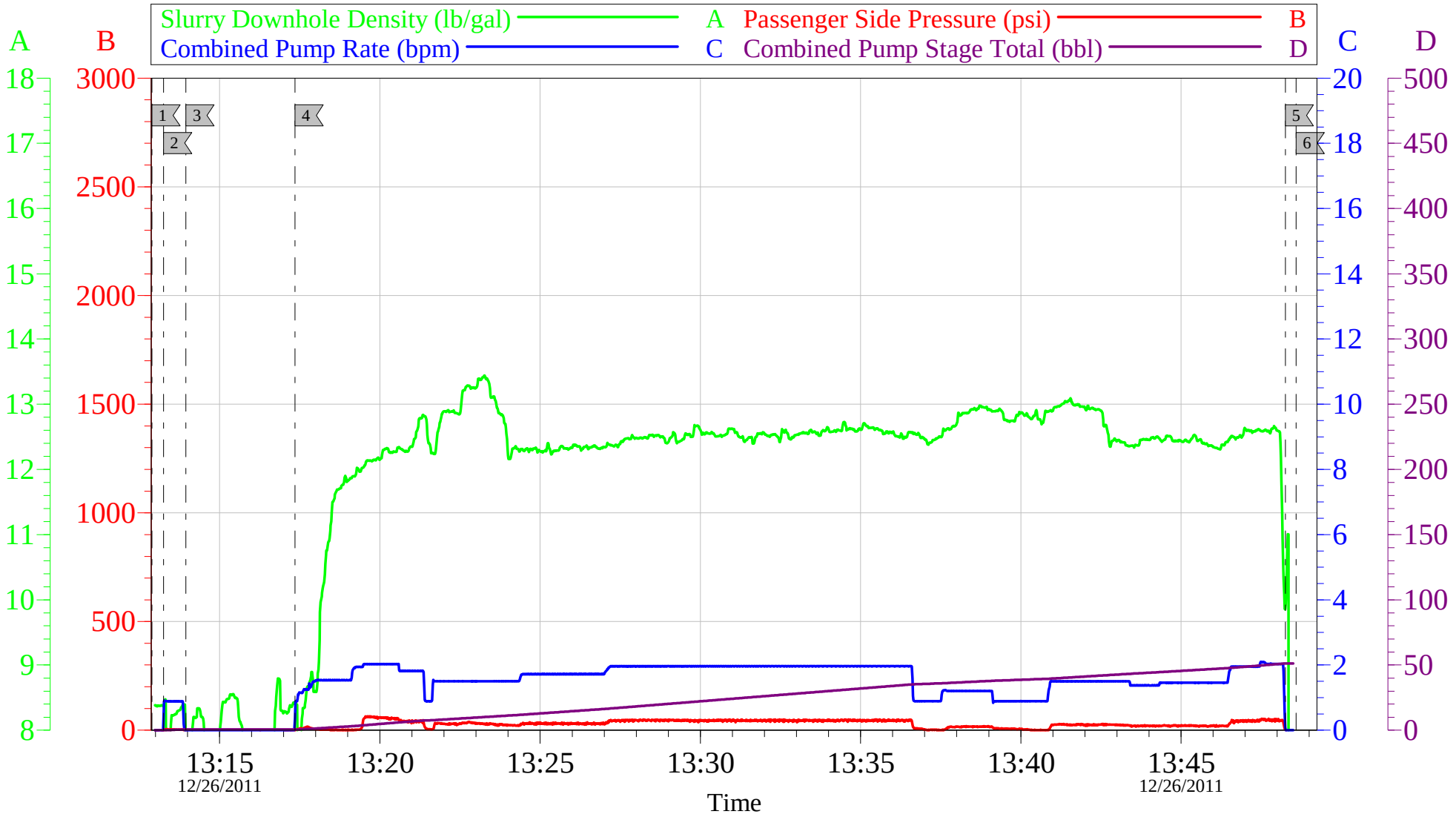


Customer:	OXY	Job Date:	26-Dec-2011	Sales Order #:	9107138
Well Description:	CC 697-04-82	Job Type:	SURFACE	ADC Used:	YES
Company Rep:	VICTOR BENEVIDES	Cement Supervisor:	TROY ANGLESTEIN	Elite #: 4	JESSE JENSEN

OptiCem v6.4.10
26-Dec-11 12:30

OXY

CC 697-04-82 TOPOUT #1



Local Event Log

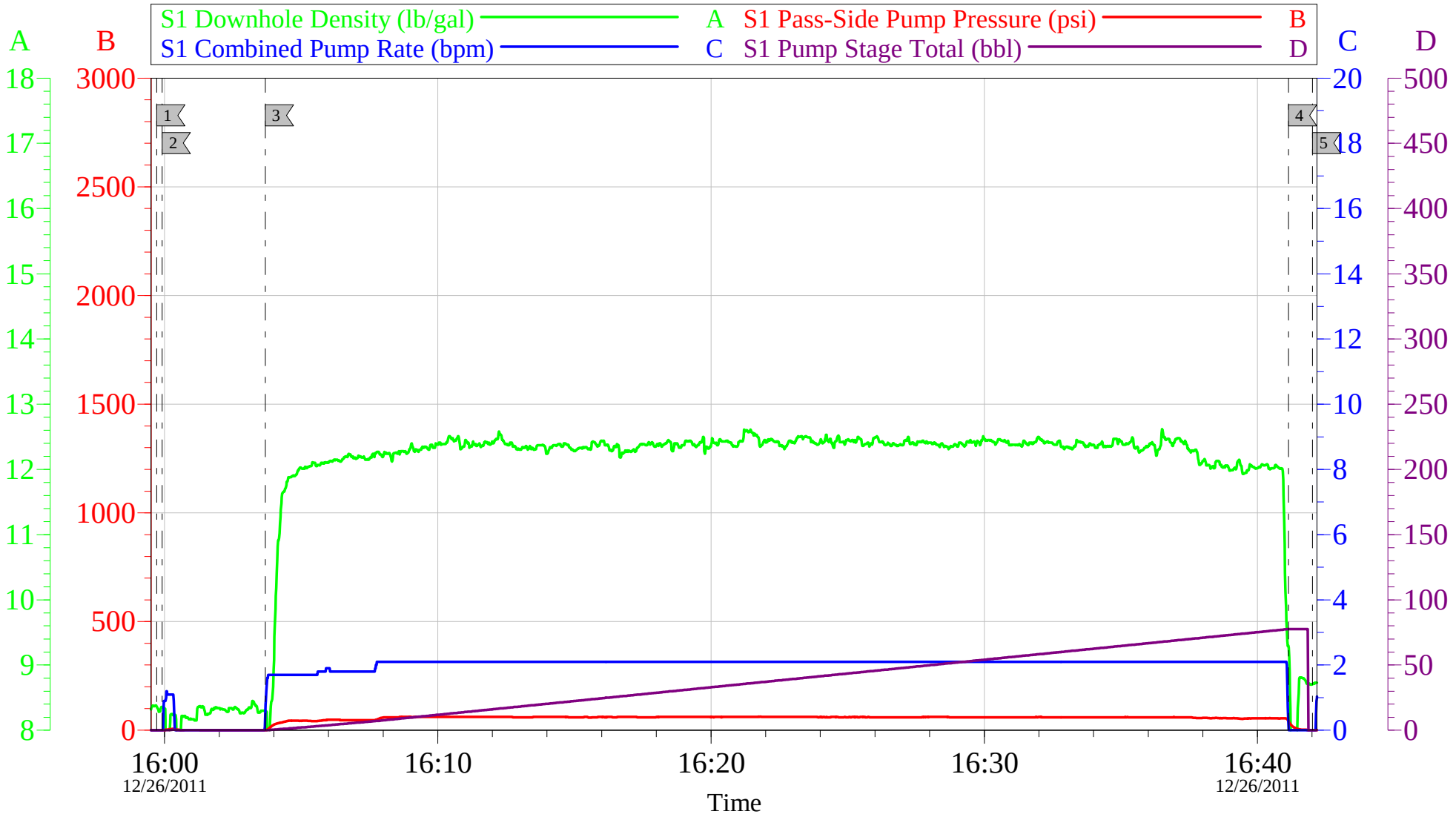
1	START JOB	13:12:53	2	PUMP WATER AHEAD	13:13:15	3	SHUTDOWN	13:13:57
4	PUMP TOPOUT CEMENT	13:17:21	5	SHUTDOWN	13:48:15	6	END JOB	13:48:35

Customer:	Halliburton	Job Date:	26-Dec-2011	Sales Order #:	9107138
Well Description:	CC 697-04-82	Job Type:	TOPOUT	ADC Used:	YES
Company Rep:	VICTOR BENEVIDES	Cement Supervisor:	TROY ANGLESTEIN	Elite 4:	JESSE JENSEN

OptiCem v6.4.10
26-Dec-11 14:32

OXY

CC 697-04-82 TOPOUT #2



Local Event Log

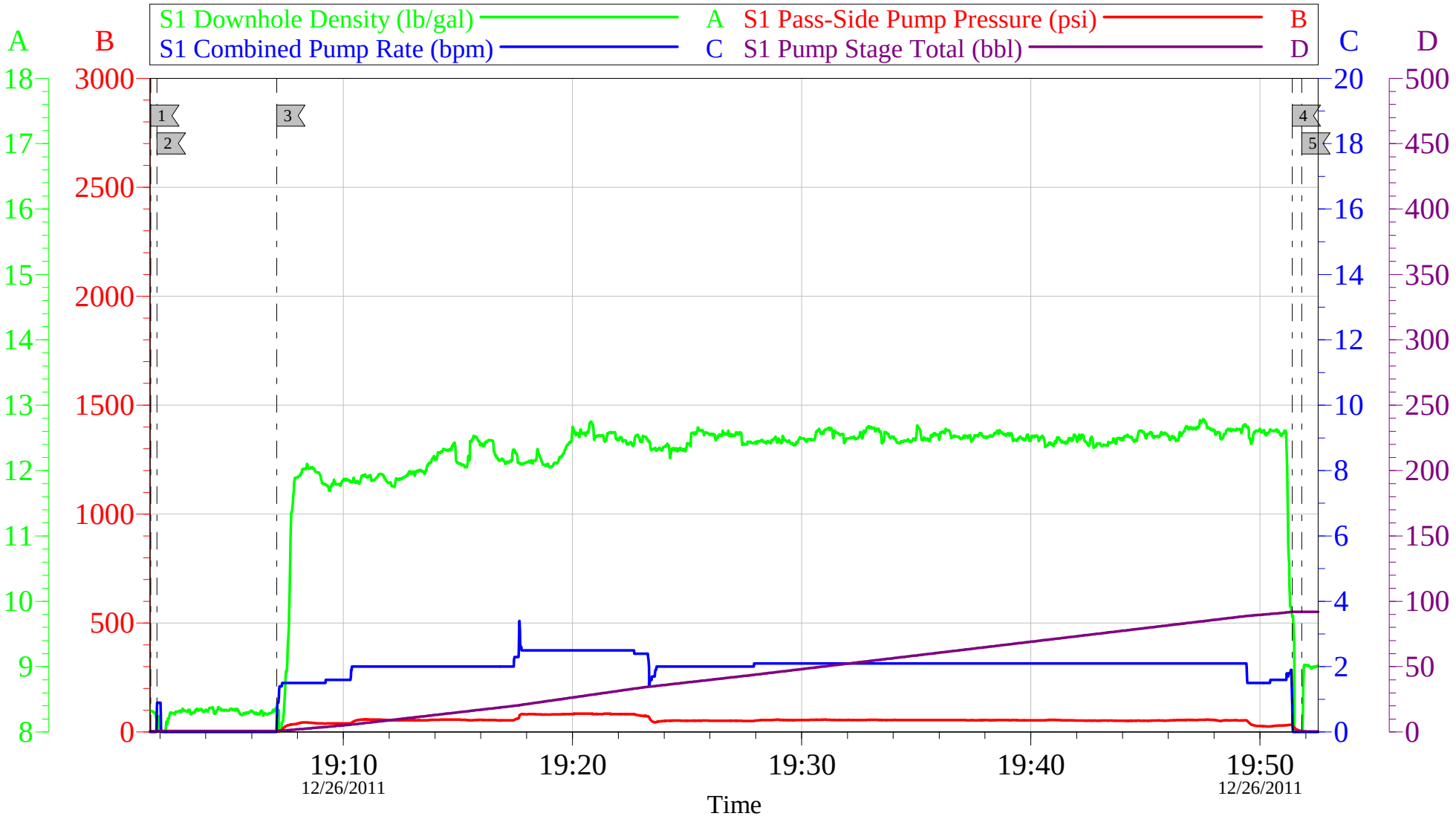
1	START JOB	15:59:43	2	PUMP WATER AHEAD	15:59:55	3	PUMP TOPOUT CEMENT 16:03:41
4	SHUTDOWN	16:41:08	5	END JOB	16:42:01		

Customer:	OXY	Job Date:	26-Dec-2011	Sales Order #:	9107138
Well Description:	CC 697-04-82	Job Type:	TOPOUT	ADC Used:	YES
Company Rep:	VICTOR BENEVIDES	Cement Supervisor:	TROY ANGLESTEIN	Elite #: 4	JESSE JENSEN

OptiCem v6.4.10
26-Dec-11 16:50

OXY

CC 697-04-82 TOPOUT #3



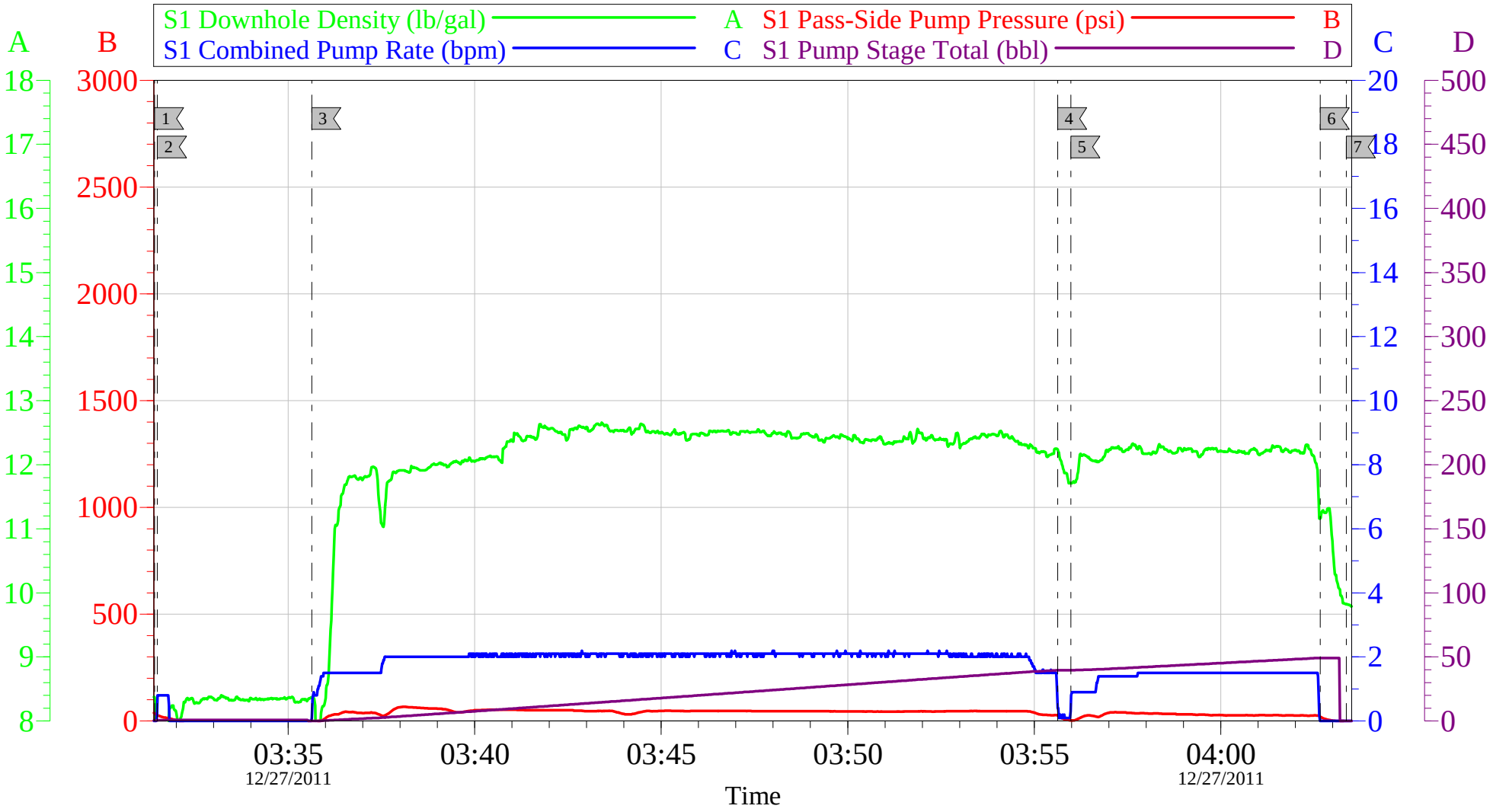
Local Event Log

1	START JOB	19:01:36	2	PUMP WATER AHEAD	19:01:52	3	PUMP TOPOUT CEMENT 19:07:06
4	SHUTDOWN	19:51:25	5	END JOB	19:51:49		

Customer:	OXY	Job Date:	26-Dec-2011	Sales Order #:	9107138
Well Description:	CC 697-04-82	Job Type:	TOPOUT	ADC Used:	YES
Company Rep:	VICTOR BENEVIDES	Cement Supervisor:	TROY ANGLESTEIN	Elite #: 4	JESSE JENSEN

OptiCem v6.4.10
26-Dec-11 20:08

OXY
CC 697-04-82 TOPOUT #4



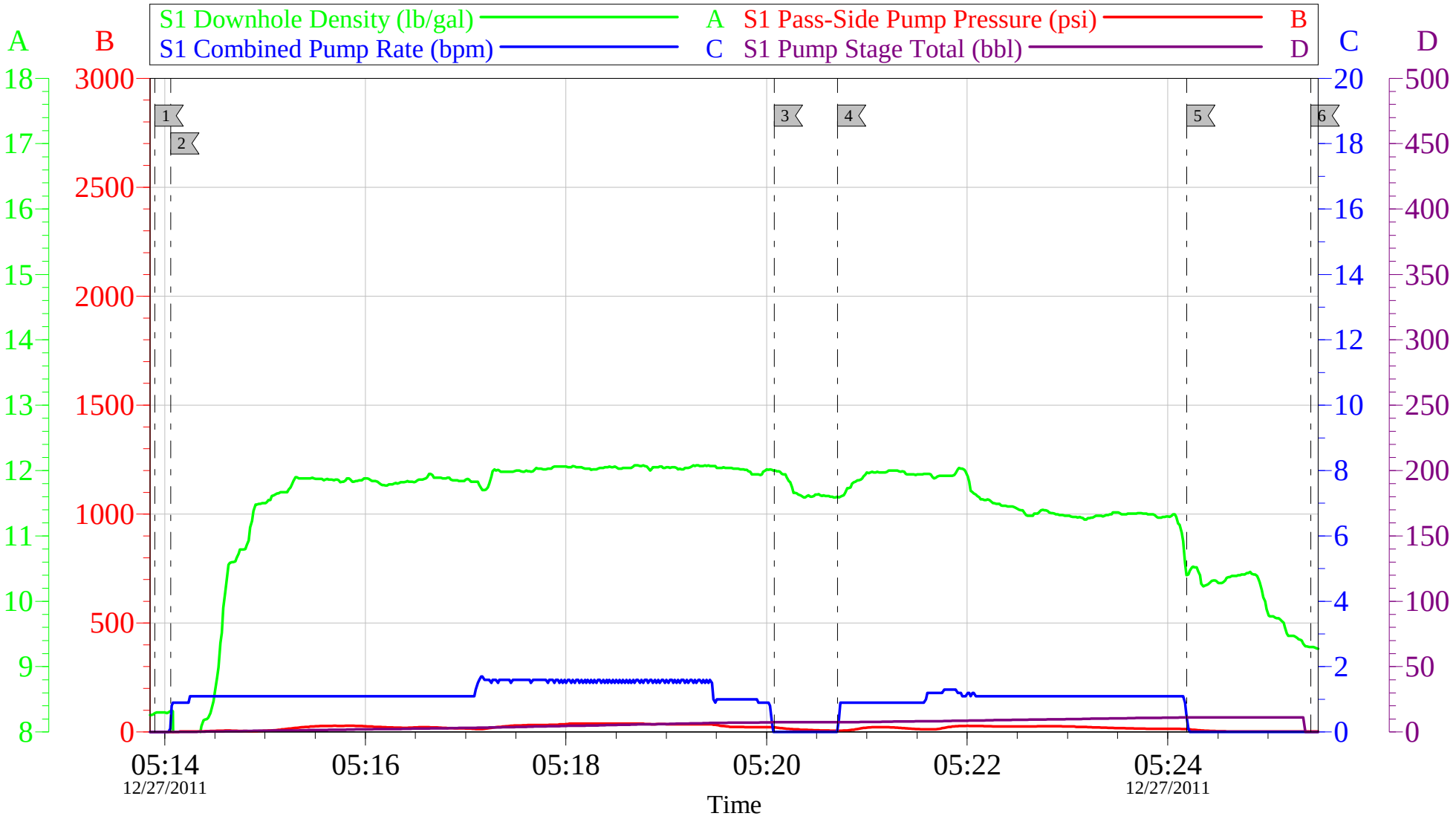
Local Event Log

1	START JOB	03:31:25	2	PUMP WATER AHEAD	03:31:30	3	PUMP TOPOUT CEMENT	03:35:38
4	SHUTDOWN	03:55:38	5	RESUME PUMPING	03:55:59	6	SHUTDOWN	04:02:40
7	END JOB	04:03:22						

Customer:	OXY	Job Date:	27-Dec-2011	Sales Order #:	9107138
Well Description:	CC 697-04-82	Job Type:	TOPOUT	ADC Used:	YES
Company Rep:	VICTOR BENEVIDES	Cement Supervisor:	TROY ANGLESTEIN	Elite #: 4	JESSE JENSEN

OptiCem v6.4.10
27-Dec-11 04:18

OXY
CC 697-04-82 TOPOUT #5



Local Event Log

1	START JOB	05:13:54	2	PUMP TOPOUT CEMENT	05:14:04	3	SHUTDOWN	05:20:05
4	RESUME PUMPING	05:20:42	5	SHUTDOWN	05:24:11	6	END JOB	05:25:26

Customer:	OXY	Job Date:	27-Dec-2011	Sales Order #:	9107138
Well Description:	CC 697-04-82	Job Type:	TOPOUT	ADC Used:	YES
Company Rep:	VICTOR BENEVIDES	Cement Supervisor:	TROY ANGLESTEIN	Elite #: 4	JESSE JENSEN

OptiCem v6.4.10
27-Dec-11 05:35

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
9107138	10	12/27/2011
Customer:		**Job Type (BOM):**
OXY GRAND JUNCTION EBUSINESS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
DERRICK ADAMS		05-045-20728
Well Name:		**Well Number:**
Cascade Creek		697-04-82
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	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**	**12/27/2011**
Survey Interviewer	**The survey interviewer is the person who initiated the survey.**	**TROY ANGLESTEIN (HX45574)**
Customer Participation	**Did the customer partipcipate in this survey? (Y/N)**	**Yes**
Customer Representative	**Enter the Customer representative name**	**DERRICK ADAMS**
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

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
9107138	10	12/27/2011
Customer:		**Job Type (BOM):**
OXY GRAND JUNCTION EBUSINESS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
DERRICK ADAMS		05-045-20728
Well Name:		**Well Number:**
Cascade Creek		697-04-82
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	12/27/2011

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.	Vertical
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.	8
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

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
9107138	10	12/27/2011
Customer:		**Job Type (BOM):**
OXY GRAND JUNCTION EBUSINESS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
DERRICK ADAMS		05-045-20728
Well Name:		**Well Number:**
Cascade Creek		697-04-82
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	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 cment mixed at designed density divided by total BBLs of cement multiplied by 100	97
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	97
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