HALLIBURTON

OXY GRAND JUNCTION EBUSINESS

CC 697-05-30A
GRANDVALLEY
Garfield County , Colorado

Cement Surface Casing

10-Nov-2011

Post Job Report

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 344034	**Ship To #:** 344034	**Quote #:**	**Sales Order #:** 8560943
Customer: OXY GRAND JUNCTION EBUSINESS		**Customer Rep:** Gill, Jeff	
Well Name: CC	**Well #:** 697-05-30A		**API/UWI #:** 05-045-20367
Field: GRANDVALLEY	**City (SAP):** ADDISON	**County/Parish:** Garfield	**State:** Colorado
Lat: N 39.555 deg. OR N 39 deg. 33 min. 16.56 secs.		**Long:** W 108.242 deg. OR W -109 deg. 45 min. 27.9 secs.	
Contractor: H&P Drilling	**Rig/Platform Name/Num:** H&P 353		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: HIMES, JEFFREY	**Srvc Supervisor:** CHASTAIN, DERICK	**MBU ID Emp #:** 455848	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANKS, BRENT A	1	371353	BORSZICH, STEPHEN A	9	412388	CARTER, ERIC Earl	1	345598
CHASTAIN, DERICK Allan	10	455848	HAYES, JESSE Doug	10	403601	ROSE, BENJAMIN Keith	1	487022
SINCLAIR, DAN J	9	338784						

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*
10205677	240 mile	10784053	240 mile	10867322	240 mile	10872429	240 mile
10897891	240 mile	10951250	240 mile	11360883	240 mile	6543	240 mile

Job Hours

Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours
11/10/2011	10	6						
TOTAL		*Total is the sum of each column separately*						

Job

Formation Name					
Formation Depth (MD)	**Top**		**Bottom**		
Form Type		**BHST**			
Job depth MD	2710. ft	**Job Depth TVD**	2710. ft		
Water Depth		**Wk Ht Above Floor**	2. ft		
Perforation Depth (MD)	*From*		**To**		

Job Times

	Date	Time	Time Zone
Called Out	09 - Nov - 2011	21:45	MST
On Location	10 - Nov - 2011	04:00	MST
Job Started	10 - Nov - 2011	07:13	MST
Job Completed	10 - Nov - 2011	12:20	MST
Departed Loc	10 - Nov - 2011	14:00	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				14.75				.	2710.	.	2710.
SURFACE CASING	Unknown		9.625	8.921	36.		J-55	.	2662.	.	2662.

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*		*Qty*	

Fluid Data

Stage/Plug #: 1

HALLIBURTON

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)	1050.0	sacks	12.3	2.33	12.62	7	12.62
	12.62 Gal	FRESH WATER							
5	VersaCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.07	10.67	7	10.67
	10.67 Gal	FRESH WATER							
6	Displacement		203.00	bbl	.	.0	.0	8	

Calculated Values		Pressures		Volumes					
Displacement	202.3	Shut In: Instant		Lost Returns		*Cement Slurry*	494.7	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	3	Actual Displacement	202.3	Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	746

Rates							
Circulating	5	*Mixing*	7	*Displacement*	8	Avg. Job	6

Cement Left In Pipe	Amount	***45.9 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***

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Cementing Job Log

The Road to Excellence Starts with Safety

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Field: GRANDVALLEY	**City (SAP):** ADDISON	**County/Parish:** Garfield	**State:** Colorado
Legal Description:			
Lat: N 39.555 deg. OR N 39 deg. 33 min. 16.56 secs.		**Long:** W 108.242 deg. OR W -109 deg. 45 min. 27.9 secs.	
Contractor: H&P Drilling	**Rig/Platform Name/Num:** H&P 353		
Job Purpose: Cement Surface Casing			**Ticket Amount:**
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: HIMES, JEFFREY	**Srvc Supervisor:** CHASTAIN, DERICK		**MBU ID Emp #:** 455848

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pre-Convoy Safety Meeting	11/09/2011 01:00							WITH ALL HES PERSONNEL
Call Out	11/09/2011 21:45							
Arrive at Location from Service Center	11/10/2011 04:00							RIG ON BOTTOM AND CIRCULATING.
Assessment Of Location Safety Meeting	11/10/2011 04:30							WITH ALL HES PERSONNEL
Other	11/10/2011 04:45							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	11/10/2011 05:30							WITH ALL HES PERSONNEL
Rig-Up Equipment	11/10/2011 06:00							
Pre-Job Safety Meeting	11/10/2011 07:00							WITH ALL PERSONNEL ON LOCATION
Start Job	11/10/2011 07:13							TD: 2710', TP: 2662.5', SJ: 45.91', FC: 2616.6', CSG: 9.625" 36# J-55, OH: 14.75", MUD: PPG: 9.2, TEMP: 87, PV: 16, YP: 15
Other	11/10/2011 07:13		2	2			6.0	FILL LINES
Test Lines	11/10/2011 07:15							STAGED TEST AT 2800 PSI, THEN TESTED TO 4000 PSI
Pump Spacer 1	11/10/2011 07:24		4	20			177.0	FRESH H2O SPACER
Pump Spacer 1	11/10/2011 07:29		4	20			167.0	GEL SPACER, 5 GAL PER 20 BBL
Pump Spacer 1	11/10/2011 07:34		4	20			183.0	FRESH H2O SPACER.
Activity Description	**Date/Time**	**Cht #**	**Rate bbl/ min**	**Volume bbl**		**Pressure psig**		**Comments**
				Stage	**Total**	**Tubing**	**Casing**	

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Cementing Job Log

Pump Lead Cement	11/10/2011 07:40		7	435.7			171.0	1050 SKS, 12.3 LB/GAL, 2.33 FT3/SK, 12.62 GAL/SK. @ 93 GONE DOWN HOLE DENSITY STARTED CLIMBING WHILE RECIRC STAYED IN RANGE. WE WORKED OUR RATES UP AND DOWN AND FLUSHED OUT THE BLOCKADGE. LOST RETURNS @ 275 GONE. GOT RETURNS BACK @ 360 GONE.
Pump Tail Cement	11/10/2011 09:12		7	59			234.0	160 SKS, 12.8 LB/GAL, 2.07 FT3/SK, 10.67 GAL/SK. CEMENT TO SURFACE AT 40 BBLS GONE OF TAIL, THEN LOST RETURNS AT 42 GONE.
Shutdown	11/10/2011 09:24						.0	
Drop Top Plug	11/10/2011 09:25						.0	VERIFY PLUG LAUNCHED
Pump Displacement	11/10/2011 09:25		8	202.3			620.0	FRESH H20 DISPLACEMENT. NO RETURNS THROUGHOUT DISPLACEMENT
Slow Rate	11/10/2011 09:58		2	192			550.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	11/10/2011 10:01		2	202.3			1050.0	PLUG BUMPED
Check Floats	11/10/2011 10:06						.0	FLOATS HOLDING, 1 BBL BACK TO TRUCK
Pressure Up	11/10/2011 10:07						1500.0	TEST CASING AT 1500 PSI FOR 30 MIN.
Release Casing Pressure	11/10/2011 10:42						.0	
Clean Lines	11/10/2011 10:56		3	10		756.0		PUMP DOWN PARACITE WITH SUGAR WATER.
Shutdown	11/10/2011 11:02							
End Job	11/10/2011 11:02							
Start Job	11/10/2011 11:59							TOP-OUT.
Establish Rate	11/10/2011 11:59					18.0		USED 6X5 TO INITIATE FLOW

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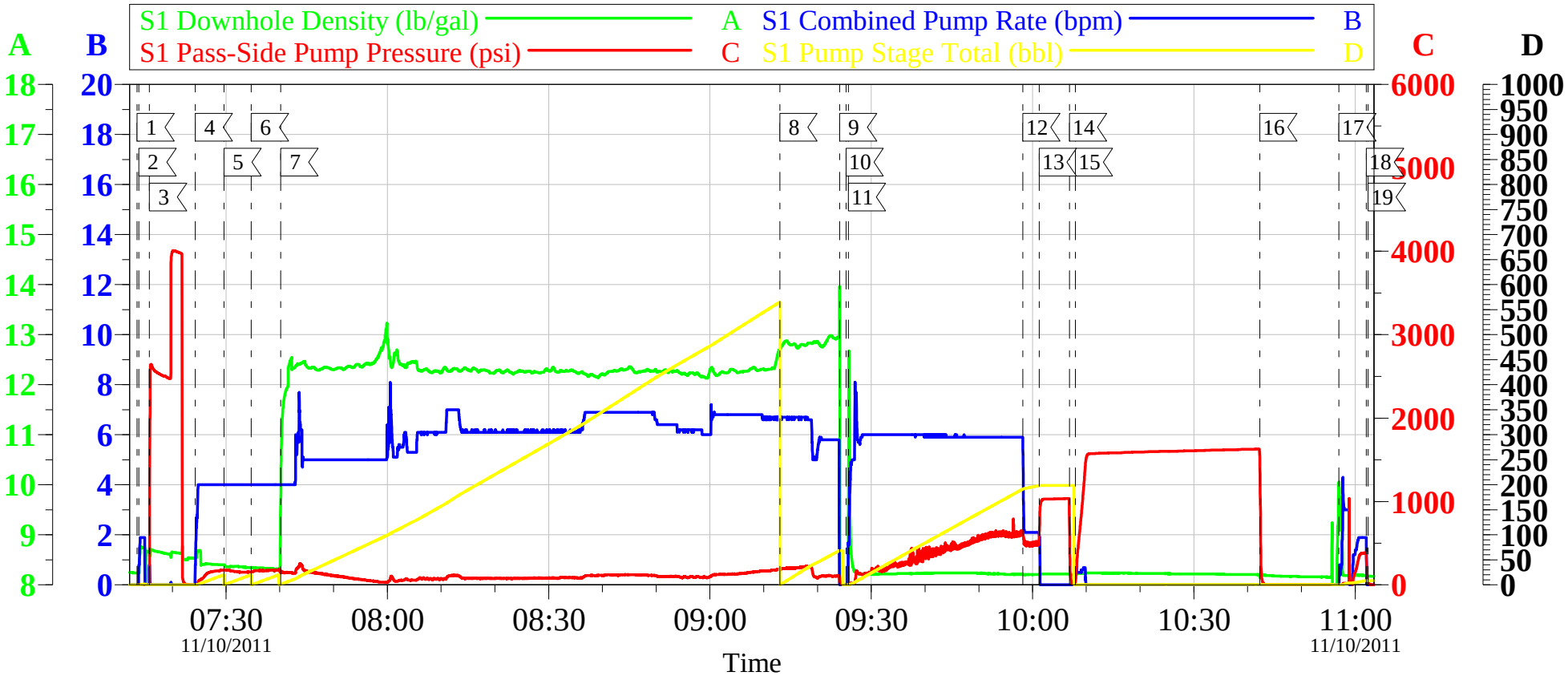
Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Cement	11/10/2011 12:00		2	10		68.0		TOP-OUT, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK. CEMENT TO SURFACE
Shutdown	11/10/2011 12:06					.0		FELL BACK DURING HEZITATION
Pump Cement	11/10/2011 12:16		2	6		56.0		CEMENT TO SURFACE
Shutdown	11/10/2011 12:20					.0		CEMENT HELD AT SURFACE
End Job	11/10/2011 12:20							USED 46 SKS USED. NO DEREK CHARGES, 2 ADD HOURS, NO SUGAR USED.
Pre-Rig Down Safety Meeting	11/10/2011 12:30							WITH ALL HES PERSONNEL
Rig-Down Equipment	11/10/2011 13:00							
Pre-Convoy Safety Meeting	11/10/2011 13:50							WITH ALL HES PERSONNEL
Crew Leave Location	11/10/2011 14:00							LEFT LOCATION FREE OF DEBRESS
Comment	11/10/2011 14:00							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. DERICK CHASTAIN AND CREW

OXY - CC 697-05-30A

SURFACE CASING



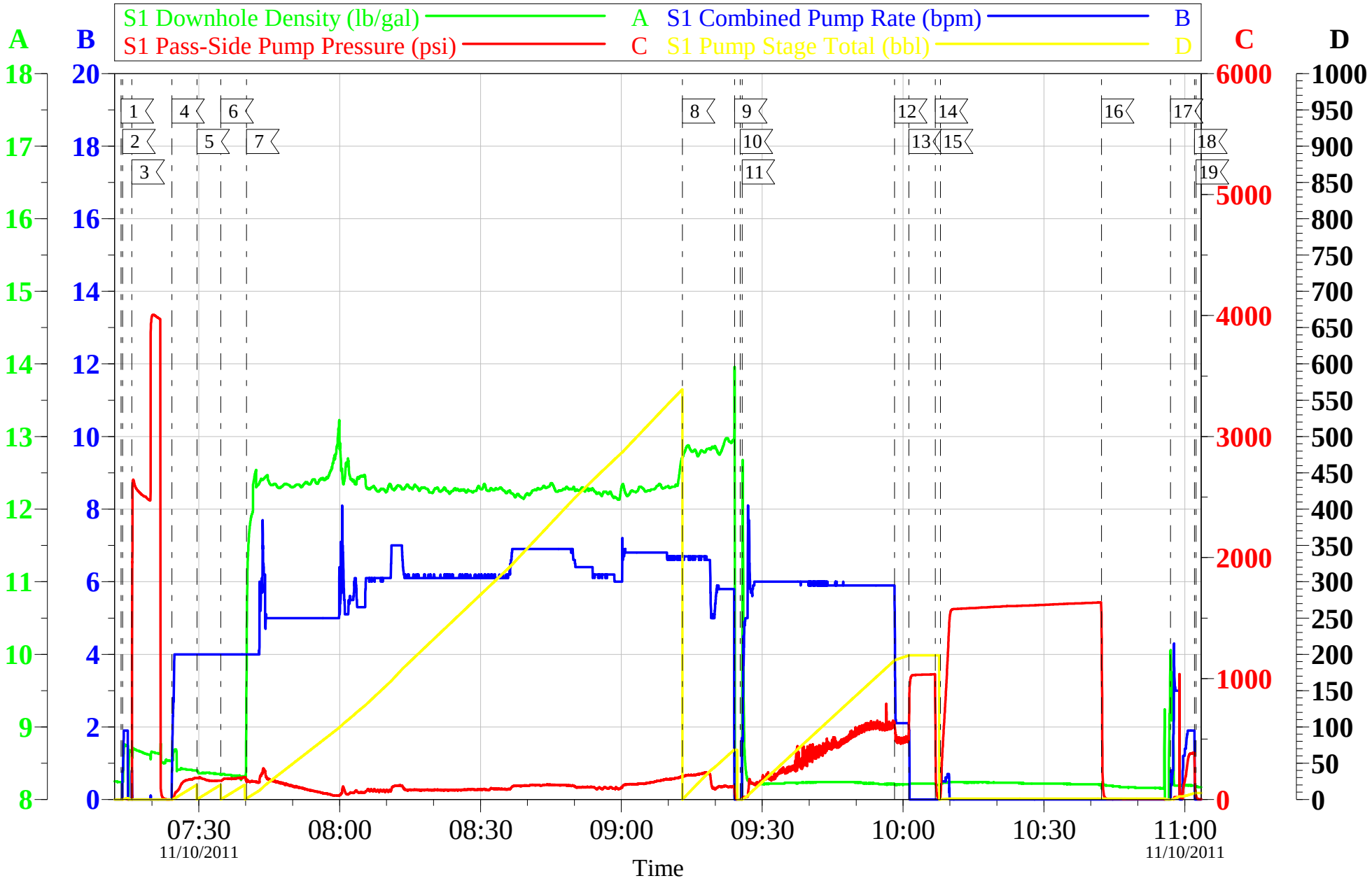
1	START JOB	07:13:27	2	FILL LINES	07:13:47	3	TEST LINES	07:15:45
4	PUMP H2O SPACER	07:24:16	5	PUMP GEL SPACER	07:29:36	6	PUMP H2O SPACER	07:34:42
7	PUMP LEAD CEMENT	07:40:10	8	PUMP TAIL CEMENT	09:12:59	9	SHUTDOWN	09:24:05
10	DROP PLUG	09:25:18	11	PUMP DISPLACEMENT	09:25:43	12	SLOW RATE	09:58:11
13	BUMP PLUG	10:01:13	14	CHECK FLOATS	10:06:52	15	TREST CASING	10:07:57
16	RELEASE PRESSURE	10:42:14	17	CLEAR PARASITE	10:56:57	18	SHUTDOWN	11:02:04
19	END JOB	11:02:24						

Customer:	OXY	Job Date:	10-Nov-2011	Sales Order #:	8560943
Well Description:	CC 697-05-30A	Job Type:	SURFACE	ADC Used:	YES
Customer Rep:	CAL WYLIE	Service Supervisor:	DERICK CHASTAIN	Pump #/Operator:	7/DAN SINCLAIR

OptiCem v6.4.10
10-Nov-11 12:39

OXY - CC 697-05-30A

SURFACE CASING

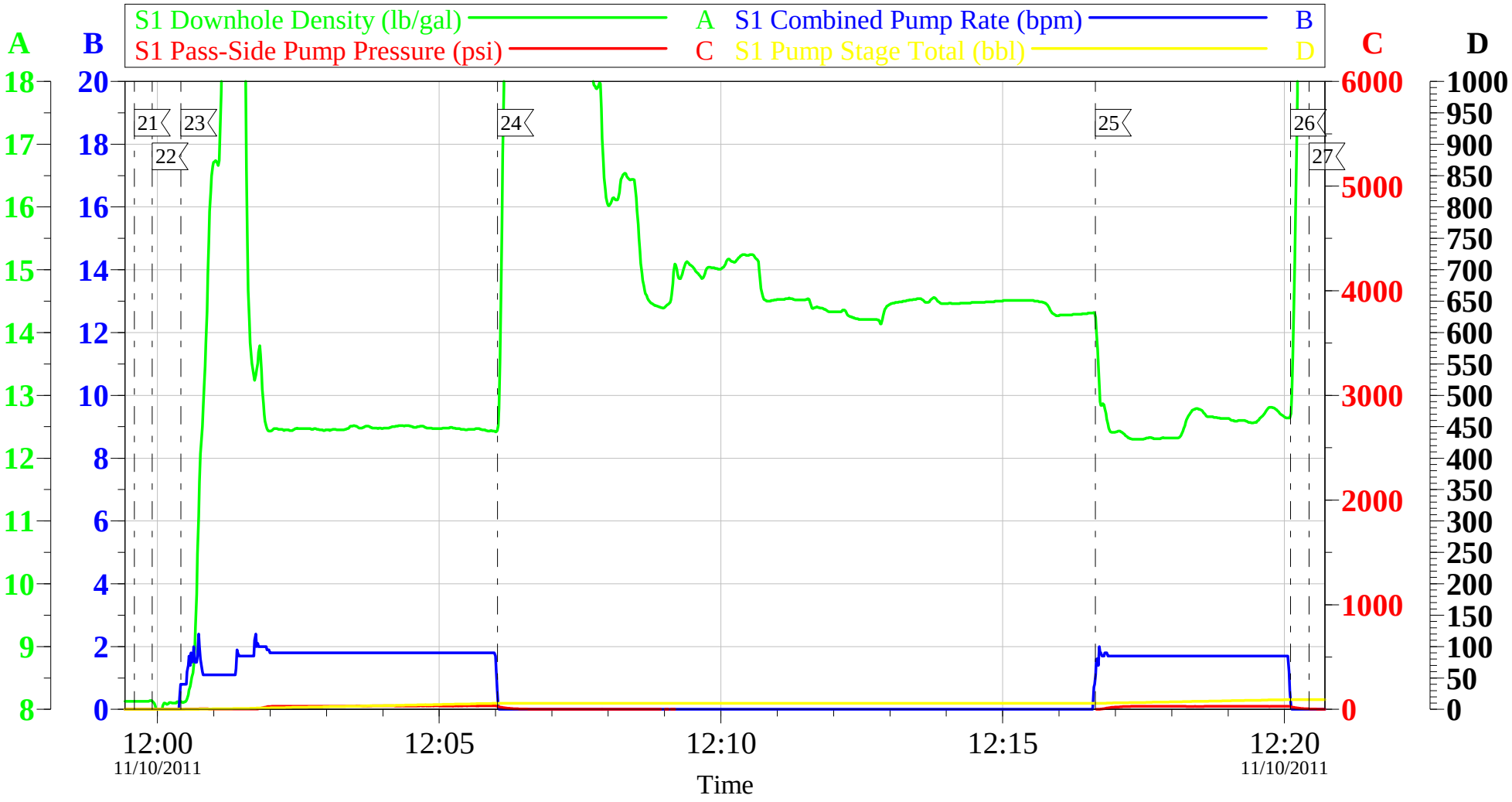


Customer:	OXY	Job Date:	10-Nov-2011	Sales Order #:	8560943
Well Description:	CC 697-05-30A	Job Type:	SURFACE	ADC Used:	YES
Customer Rep:	CAL WYLIE	Service Supervisor:	DERICK CHASTAIN	Pump #/Operator:	7/DAN SINCLAIR

OptiCem v6.4.10
10-Nov-11 12:39

OXY - CC 697-05-30A

TOP OUT



21	START JOB	11:59:35	22	ESTABLISH RATE	11:59:54	23	PUMP CEMENT	12:00:25
24	SHUTDOWN	12:06:02	25	PUMP CEMENT	12:16:39	26	SHUTDOWN	12:20:07
27	END JOB	12:20:26						

Customer:	OXY	Job Date:	10-Nov-2011	Sales Order #:	8560943
Well Description:	CC 697-05-30A	Job Type:	TOP OUT	ADC Used:	YES
Customer Rep:	CAL WYLIE	Service Supervisor:	DERICK CHASTAIN	Pump #/Operator:	7/DAN SINCLAIR

OptiCem v6.4.10
10-Nov-11 12:47

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
8560943	10	11/10/2011
Customer:		**Job Type (BOM):**
OXY GRAND JUNCTION EBUSINESS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
JEREMY KNEESE		05-045-20367
Well Name:		**Well Number:**
CC		697-05-30A
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**	**11/10/2011**
Survey Interviewer	**The survey interviewer is the person who initiated the survey.**	**DERICK CHASTAIN (HB23225)**
Customer Participation	**Did the customer partipcipate in this survey? (Y/N)**	**Yes**
Customer Representative	**Enter the Customer representative name**	**JEREMY KNEESE**
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**	**NONE**

CUSTOMER SIGNATURE

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
8560943	10	11/10/2011
Customer:		**Job Type (BOM):**
OXY GRAND JUNCTION EBUSINESS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
JEREMY KNEESE		05-045-20367
Well Name:		**Well Number:**
CC		697-05-30A
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	11/10/2011

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.	6
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.	4
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	6
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:**
8560943	10	11/10/2011
Customer:		**Job Type (BOM):**
OXY GRAND JUNCTION EBUSINESS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
JEREMY KNEESE		05-045-20367
Well Name:		**Well Number:**
CC		697-05-30A
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	98
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	99
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