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# **OXY GRAND JUNCTION EBUSINESS**

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**CC 697-08-35B  
GRAND VALLEY  
Garfield County , Colorado**

**Cement Surface Casing**  
**23-Oct-2011**

**Post Job Report**

## The Road to Excellence Starts with Safety

Sold To #: 344034		Ship To #: 3441937		Quote #:		Sales Order #: 8551937	
Customer: OXY GRAND JUNCTION EBUSINESS				Customer Rep: Adams, Derick			
Well Name: CC			Well #: 697-08-35B			API/UWI #: 05-04520069	
Field: GRAND VALLEY		City (SAP):		County/Parish: Garfield			State: Colorado
Lat: N 39.534 deg. OR N 39 deg. 32 min. 2.162 secs.				Long: W 108.242 deg. OR W -109 deg. 45 min. 29.455 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: HUGENTOBLE, LOGAN			MBU ID Emp #: 447333	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DANIEL, EVERETT Dean	17	337325	HUGENTOBLE, LOGAN Mark	17	447333	ROSE, BENJAMIN Keith	17	487022
SIMINEO, JEROD M	17	479954						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10205677	120 mile	10744648C	120 mile	10784053	120 mile	10867304	120 mile
10998054	120 mile	10998508	120 mile	11583932	120 mile		

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10/22/11	13	4	10/23/11	4	2			

TOTAL Total is the sum of each column separately

## Job

Formation Name				Date					
Formation Depth (MD)		Top	Bottom	Called Out	Date	Time	Time Zone		
Form Type		BHST		On Location	22 - Oct - 2011	13:30	MST		
Job depth MD		2700. ft		Job Depth TVD	2700. ft	Job Started	21 - Oct - 2011	20:10	MST
Water Depth		Wk Ht Above Floor		2. ft	Job Completed	23 - Oct - 2011	01:49	MST	
Perforation Depth (MD)		From	To	Deparated Loc	22 - Oct - 2011	04:10	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/3<sup>rd</sup> 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			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

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	6	
2	Gel Spacer		20.00	bbl	.	.0	.0	6	
3	Water Spacer		20.00	bbl	.	.0	.0	6	
4	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	1050.0	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		202.00	bbl	.	.0	.0	2	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)		sacks	12.5	1.97	10.96		10.96
10.96 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	202	Shut In: Instant		Lost Returns		Cement Slurry	497	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	60	Actual Displacement	205	Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		6	Displacement	2	Avg. Job		5
Cement Left In Pipe	Amount	46 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID		Frac ring # 2 @	ID		Frac Ring # 3 @	ID		Frac Ring # 4 @
The Information Stated Herein Is Correct				Customer Representative Signature					

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 344034	<b>Ship To #:</b> 3441937	<b>Quote #:</b>	<b>Sales Order #:</b> 8551937
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Customer Rep:</b> Adams, Derick	
<b>Well Name:</b> CC	<b>Well #:</b> 697-08-35B	<b>API/UWI #:</b> 05-04520069	
<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b>	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 39.534 deg. OR N 39 deg. 32 min. 2.162 secs.		<b>Long:</b> W 108.242 deg. OR W -109 deg. 45 min. 29.455 secs.	
<b>Contractor:</b> H&P Drilling		<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> HIMES, JEFFREY		<b>Srv Supervisor:</b> HUGENTOBLE, LOGAN	<b>MBU ID Emp #:</b> 447333

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/22/2011 06:00							
Pre-Convoy Safety Meeting	10/22/2011 06:00							ALL HES EMPLOYEES
Arrive At Loc	10/22/2011 13:30							RIG STILL RUNNING CASING
Assessment Of Location Safety Meeting	10/22/2011 13:45							ALL HES EMPLOYEES
Rig-Up Equipment	10/22/2011 14:00							1 HT 400 PUMP TRUCK, 2 660 BULK TRUCK, 1 9.625 QUICK LATCH PLUG CONTAINER, 1 F550 P/U, 2 FIELD SILOS
Pre-Job Safety Meeting	10/22/2011 19:45							ALL HES EMPLOYEES, RIG CREW, CO REP.
Start Job	10/22/2011 20:10							TP 2659', TD 2711', FC 2613', HOLE 14.75", MUD WT 9.2 PPG, 800 BBLS OF H2O ON LOCATION, WATER SAMPLE SUBMITTED.
Pump Water	10/22/2011 20:18		2	2			45.0	FILL LINES
Pressure Test	10/22/2011 20:20							NO LEAKS
Pump Spacer 1	10/22/2011 20:27		6	20			99.0	FRESH WATER
Pump Spacer	10/22/2011 20:33		6	20			120.0	PUMP GEL WATER SPACER
Pump Water	10/22/2011 20:38		6	20			112.0	PUMP WATER
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Sold To # : 344034

Ship To # :3441937

Quote # :

Sales Order # :

8551937

SUMMIT Version: 7.2.27

Monday, October 24, 2011 02:14:00

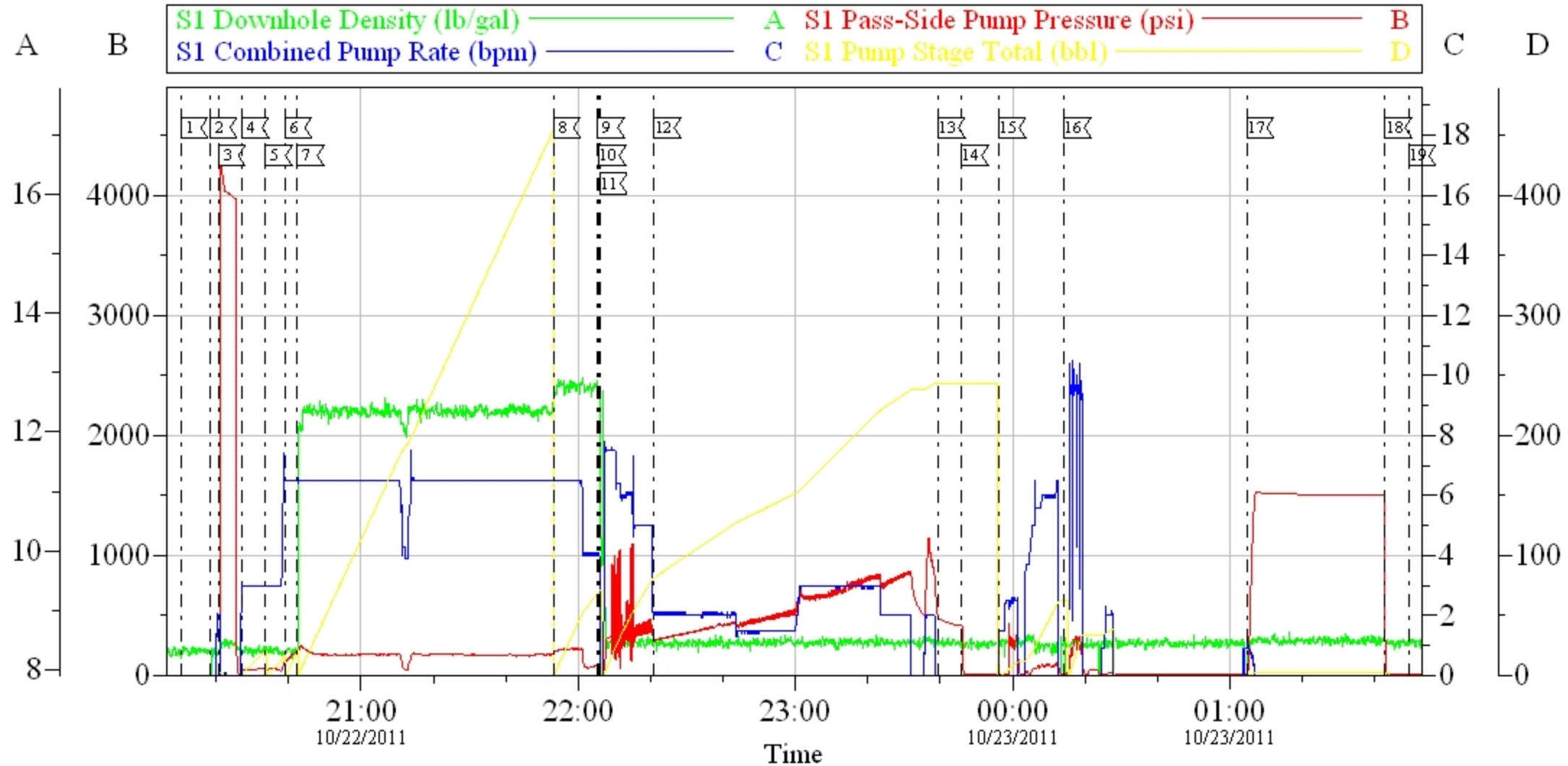
Pump Lead Cement	10/22/2011 20:42		6	435			260.0	1050 SKS VARICEM CCMT TO BE MIXED AT 12.3 PPG, 2.33 YIELD, 12.62 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES. WET AND DRY SAMPLES SUBMITTED.
Pump Tail Cement	10/22/2011 21:53		6	62			321.0	170 SKS VARICEM CCMT TO BE MIXED AT 12.8 PPG, 2.07 YIELD, 10.67 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES. WET AND DRY SAMPLES SUBMITTED.
Shutdown	10/22/2011 22:05							FOR NO MORE THEN 5 MINUTES,
Drop Plug	10/22/2011 22:05							PLUG LAUNCH
Pump Displacement	10/22/2011 22:06		6	202			817.0	FRESH WATER, GOOD RETURNS AFTER 340 BBLS OF LEAD CEMENT GONE, 60 BBLS OF CEMENT TO SURFACE
Slow Rate	10/22/2011 22:20		2				880.0	SLOWED RATE AT 70 GONE PER COMP REP
Shutdown	10/22/2011 23:39							PLUG DID NOT LAND, PUMPED 3.5 BBLS DISPLACEMENT OVER PER COMP REP, HOLD FOR TWO MINUTES
Check Floats	10/22/2011 23:45							FLOATS HOLDING, NO ANNULAR FLOW
Pump Spacer	10/22/2011 23:56		2	15			89.0	PUMPED 10BBLS SUGAR WATER THROUGH PARASITE STRING
Shut-In Pressure @ 30 Minutes	10/23/2011 01:04							PRESSURE TEST CASING ON DIFFERENT WELL, CC697-08-49, 1500 PSI FOR 30 MIN.
End Job	10/23/2011 01:49							THANK YOU FOR USING HES FROM LOGAN HUGENTOBLE AND CREW.

***Cementing Job Log***

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Post-Job Safety Meeting (Pre Rig-Down)	10/23/2011 01:50							ALL HES EMPLOYEES
Rig-Down Equipment	10/23/2011 02:00							SAFELY
Pre-Convoy Safety Meeting	10/23/2011 04:00							ALL HES EMPLOYEES
Crew Leave Location	10/23/2011 04:10							SITE WAS AS CLEAN AS WHEN WE ARRIVED

# OXY

## 9.625" SURFACE



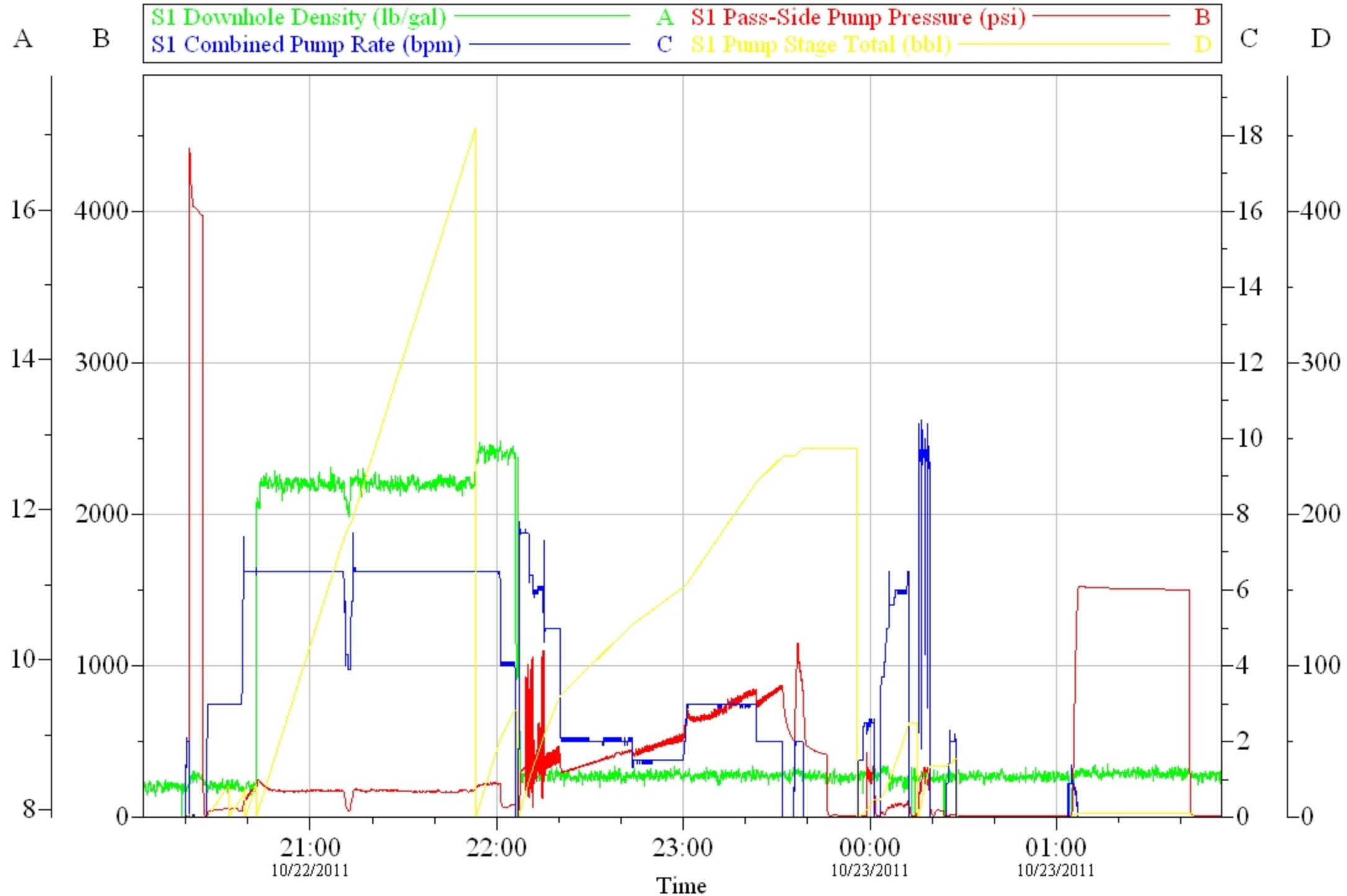
Local Event Log					
1	START JOB	10/22/2011 20:10:12	2	PRIME LINES	10/22/2011 20:18:16
3	PRESSURE TEST	10/22/2011 20:20:34	4	PUMP H2O SPACER	10/22/2011 20:27:04
5	PUMP GEL SPACER	10/22/2011 20:33:32	6	PUMP H2O SPACER	10/22/2011 20:38:54
7	PUMP LEAD CEMENT	10/22/2011 20:42:20	8	PUMP TAIL CEMENT	10/22/2011 21:53:06
9	SHUTDOWN	10/22/2011 22:05:17	10	DROP PLUG	10/22/2011 22:05:42
11	PUMP DISPLACEMENT	10/22/2011 22:06:04	12	SLOW RATE	10/22/2011 22:20:58
13	SHUTDOWN	10/22/2011 23:39:24	14	CHECK FLOATS	10/22/2011 23:45:51
15	PUMP H2O DOWN PARASITE	10/22/2011 23:56:13	16	SHUTDOWN	10/23/2011 00:14:11
17	PRESSURE TEST CASING	10/23/2011 01:04:39	18	SHUTDOWN	10/23/2011 01:42:52
19	ENDJOB	10/23/2011 01:49:23			

Customer: OXY	Job Date: 22-Oct-2011	Sales Order #: 8551937
Well Description: CC697-08-35B	Job Type: SURFACE	ADC Used: YES
Company Rep: DERICK ADAMS	Cement Supervisor: LOGAN HUGENTOBLE	Elite #6 / Operator: JEROD SIMINEO

OptiCem v6.4.10  
23-Oct-11 02:02

# OXY

## 9.625" SURFACE



Customer: OXY  
Well Description: CC697-08-35B  
Company Rep: DERICK ADAMS

Job Date: 22-Oct-2011  
Job Type: SURFACE  
Cement Supervisor: LOGAN HUGENTOBLE

Sales Order #: 8551937  
ADC Used: YES  
Elite #6 / Operator: JEROD SIMINEO

OptiCem v6.4.10  
23-Oct-11 02:02



<b>Sales Order #:</b> 8551937	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 10/23/2011
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> DERICK ADAMS		<b>API / UWI: (leave blank if unknown)</b> 05-04520069
<b>Well Name:</b> CC		<b>Well Number:</b> 697-08-35B
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> 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	10/23/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	LOGAN HUGENTOBLE (HB15210)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	DERICK 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	
Job DVA	Did we provide job DVA above our normal service today? Circle Y or N	No
Time	Please enter hours in decimal format to nearest quarter hour.	
Other	Enter short text for other efficiencies gained.	
Customer Initials	Customer's Initials	
Please provide details	Please describe how the job efficiencies were gained.	

<b>CUSTOMER SIGNATURE</b>
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<b>Customer Representative:</b> DERICK ADAMS		<b>API / UWI: (leave blank if unknown)</b> 05-04520069
<b>Well Name:</b> CC		<b>Well Number:</b> 697-08-35B
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b> The date the survey was conducted	10/23/2011

Cementing KPI Survey	
<b>Type of Job</b> Select the type of job. (Cementing or Non-Cementing)	0
<b>Select the Maximum Deviation range for this Job</b> What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
<b>Total Operating Time (hours)</b> Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	14
<b>HSE Incident, Accident, Injury</b> HSE Incident, Accident, Injury. This should be recordable incidents only.	No
<b>Was the job purpose achieved?</b> Was the job delivered correctly as per customer agreed design?	Yes
<b>Operating Hours (Pumping Hours)</b> Total number of hours pumping fluid on this job. Enter in decimal format.	6
<b>Customer Non-Productive Rig Time (hrs)</b> 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
<b>Type of Rig Classification Job Was Performed</b> Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
<b>Number Of JSAs Performed</b> Number Of Jsas Performed	6
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

<b>Sales Order #:</b> 8551937	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 10/23/2011
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<b>Well Name:</b> CC		<b>Well Number:</b> 697-08-35B
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	98
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> 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	98
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0