
OXY GRAND JUNCTION EBUSINESS

**CC 697-09-02A
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing
25-Dec-2011

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 344034	Quote #:	Sales Order #: 9107135
Customer: OXY GRAND JUNCTION EBUSINESS	Customer Rep: Benevides, Victor		
Well Name: CC	Well #: 697-09-02A	API/UWI #: 05-045-20712	
Field: GRAND VALLEY	City (SAP): ADDISON	County/Parish: Garfield	State: Colorado
Lat: N 39.549 deg. OR N 39 deg. 32 min. 55.356 secs.	Long: W 108.23 deg. OR W -109 deg. 46 min. 11.172 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	Srv Supervisor: LEIST, JAMES	MBU ID Emp #: 362787	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
EICKHOFF, ROBERT Edward	8	495311	LEIST, JAMES R	8	362787	SALAZAR, PAUL Omar	8	445614
WILKERSON, JAMES Michael	8	496763						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10616651C	60 mile	10713212	60 mile	10784080	60 mile	10804579	60 mile
10897849	60 mile	10951248	60 mile	11808827	60 mile	6374L	60 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12-23-11	1	0	12-24-11	24	4	12-25-11	8	4

TOTAL	Total is the sum of each column separately							
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Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	23 - Dec - 2011	14:00	MST
Form Type		BHST	Job Started	23 - Dec - 2011	20:00	MST
Job depth MD	2121. ft	Job Depth TVD	Job Started	24 - Dec - 2011	09:53	MST
Water Depth		Wk Ht Above Floor	Job Completed	24 - Dec - 2011	07:41	MST
Perforation Depth (MD)	From	To	Departed Loc	25 - Dec - 2011	08:30	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/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	
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
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Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /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	Lead Cement	VERSACEM (TM) SYSTEM (452010)	1070.0	sacks	12.3	2.33	12.62	6	12.62
		12.62 Gal	FRESH WATER						
5	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		160.00	bbl	.	.0	.0	6	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)	1233.0	sacks	12.5	1.97	10.96	2	10.96
		10.96 Gal	FRESH WATER						
Calculated Values		Pressures		Volumes					
Displacement	160	Shut In: Instant		Lost Returns	706	Cement Slurry	506	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	0	Actual Displacement	160	Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		6	Displacement	6	Avg. Job	6	
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 @
The Information Stated Herein Is Correct				Customer Representative Signature					

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Customer: OXY GRAND JUNCTION EBUSINESS		Customer Rep: Benevides, Victor	
Well Name: CC		Well #: 697-09-02A	API/UWI #: 05-045-20712
Field: GRAND VALLEY	City (SAP): ADDISON	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.549 deg. OR N 39 deg. 32 min. 55.356 secs.		Long: W 108.23 deg. OR W -109 deg. 46 min. 11.172 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		Srv Supervisor: LEIST, JAMES	MBU ID Emp #: 362787

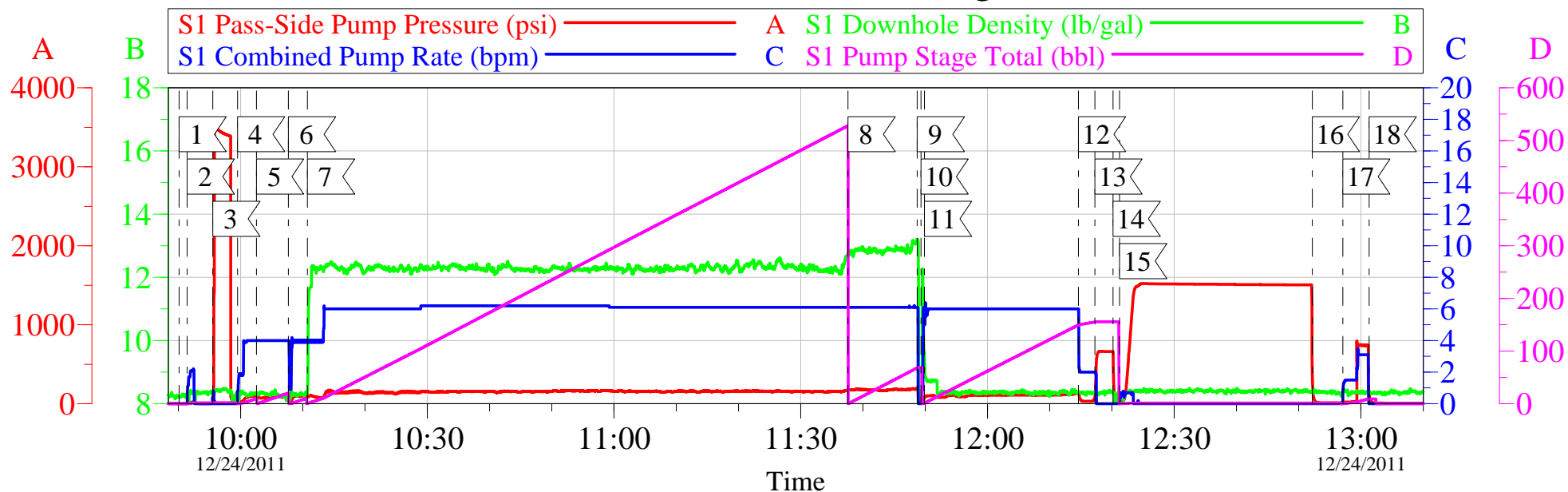
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/23/2011 14:00							
Pre-Convoy Safety Meeting	12/23/2011 16:00							WITH ALL HES PERSONNEL
Arrive At Loc	12/23/2011 19:00							RIG RUNNING CASING, RIG WORKED THROUGH TIGHT HOLE AND NEVER COULD GET TO BOTTOM ORIGINAL DEPTH OF CASING WAS 2716
Pre-Rig Up Safety Meeting	12/23/2011 23:00							WITH ALL ON HES PERSONNEL
Rig-Up Completed	12/23/2011 23:45							PUMPED JOB OFF LINE USING QUICK LATCH PLUG CONTAINER
Start Job	12/24/2011 00:09							TP-2121, TD-2716, S.J.- 48, HOLE- 14 3/4,
Pre-Job Safety Meeting	12/24/2011 09:00							WITH ALL ON LOCATION PERSONNEL
Pressure Test	12/24/2011 09:55							3450 PSI
Pump Spacer	12/24/2011 09:59		4	10			76.0	FRESH WATER
Pump Spacer	12/24/2011 10:02		4	20			75.0	LGC SPACER
Pump Spacer	12/24/2011 10:08		4	10			93.0	FRESH WATER
Pump Lead Cement	12/24/2011 10:11		6	444			160.0	1070 SKS, 12.3 PPG, 2.33 FT3/SK, 12.62 GAL/SK TUFF FIBER MIX ON FLY

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	12/24/2011 11:37		6	62			185.0	170 SKS, 12.8 PPG, 2.07 FT3/SK, 10.67 GAL/SK
Shutdown	12/24/2011 11:48							TO DROP TOP PLUG
Drop Top Plug	12/24/2011 11:49							AWAY
Pump Displacement	12/24/2011 11:49		6	160.2			115.0	FRESH WATER
Slow Rate	12/24/2011 12:14		2	150			33.0	TO BUMP PLUG
Bump Plug	12/24/2011 12:17		2	160			50.0	PLUG BUMPED
Check Floats	12/24/2011 12:20						663.0	HOLDING
Other	12/24/2011 12:23							CASING TEST 1500 PSI FOR 30 MIN. TESTED GOOD
Other	12/24/2011 12:57		3	10			780.0	PUMP PARISITE STRING WITH SUGAR WATER
Pump Cement	12/24/2011 14:47		2	50			53.0	142 SKS, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK
Shutdown	12/24/2011 15:12							NO RETURNS TO SURFACE
Pump Cement	12/24/2011 17:22		2	57			50.0	162 SKS, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK
Shutdown	12/24/2011 17:50							NO RETURNS TO SURFACE
Pump Cement	12/24/2011 19:43		2.5	100			70.0	284 SKS, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK
Shutdown	12/24/2011 20:31							NO RETURNS TO SURFACE
Pump Cement	12/24/2011 22:25		2.5	110			70.0	313 SKS, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK
Shutdown	12/24/2011 23:09							NO RETURNS TO SURFACE, WAIT ON TOP OUT TRUCK
Pump Cement	12/25/2011 04:24		2.5	51			70.0	145 SKS, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK, MIXED 100 LBS OF C.C. TO SLURRY ON FLY

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	12/25/2011 04:43							
Pump Cement	12/25/2011 05:56		2.5	41			72.0	116 SKS, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK, MIXED 150 LBS OF C.C. TO SLURRY ON FLY
Shutdown	12/25/2011 06:14							
Pump Cement	12/25/2011 07:22		2.5	25			60.0	71 SKS, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK, MIXED 50 LBS OF C.C. TO SLURRY ON FLY
Shutdown	12/25/2011 07:40							CMT TO SURFACE
End Job	12/25/2011 07:41							
Pre-Rig Down Safety Meeting	12/25/2011 08:00							WITH ALL HES PERSONNEL
Rig-Down Completed	12/25/2011 08:30							
Comment	12/25/2011 08:30							THANKYOU FOR USING HALLIBURTON CEMENT, JAMES LEIST AND CREW

OXY CC 697-09-02A 9 5/8 Surface Casing



Local Event Log

1 START JOB	09:50:06	2 FILL LINES	09:51:25
3 PRESSURE TEST	09:55:32	4 PUMP H2O SPACER	09:59:30
5 PUMP LGC SPACER	10:02:33	6 PUMP H2O SPACER	10:07:42
7 PUMP LEAD CMT	10:10:44	8 PUMP TAIL CMT	11:37:35
9 SHUTDOWN	11:48:43	10 DROP TOP PLUG	11:49:19
11 PUMP DISPLACEMENT	11:49:53	12 SLOW RATE	12:14:37
13 BUMP PLUG	12:17:15	14 CHECK FLOATS	12:20:10
15 CASING TEST	12:21:14	16 RELEASE PSI	12:52:11
17 PUMP PARISITE STRING	12:57:05	18 SHUTDOWN	13:01:19

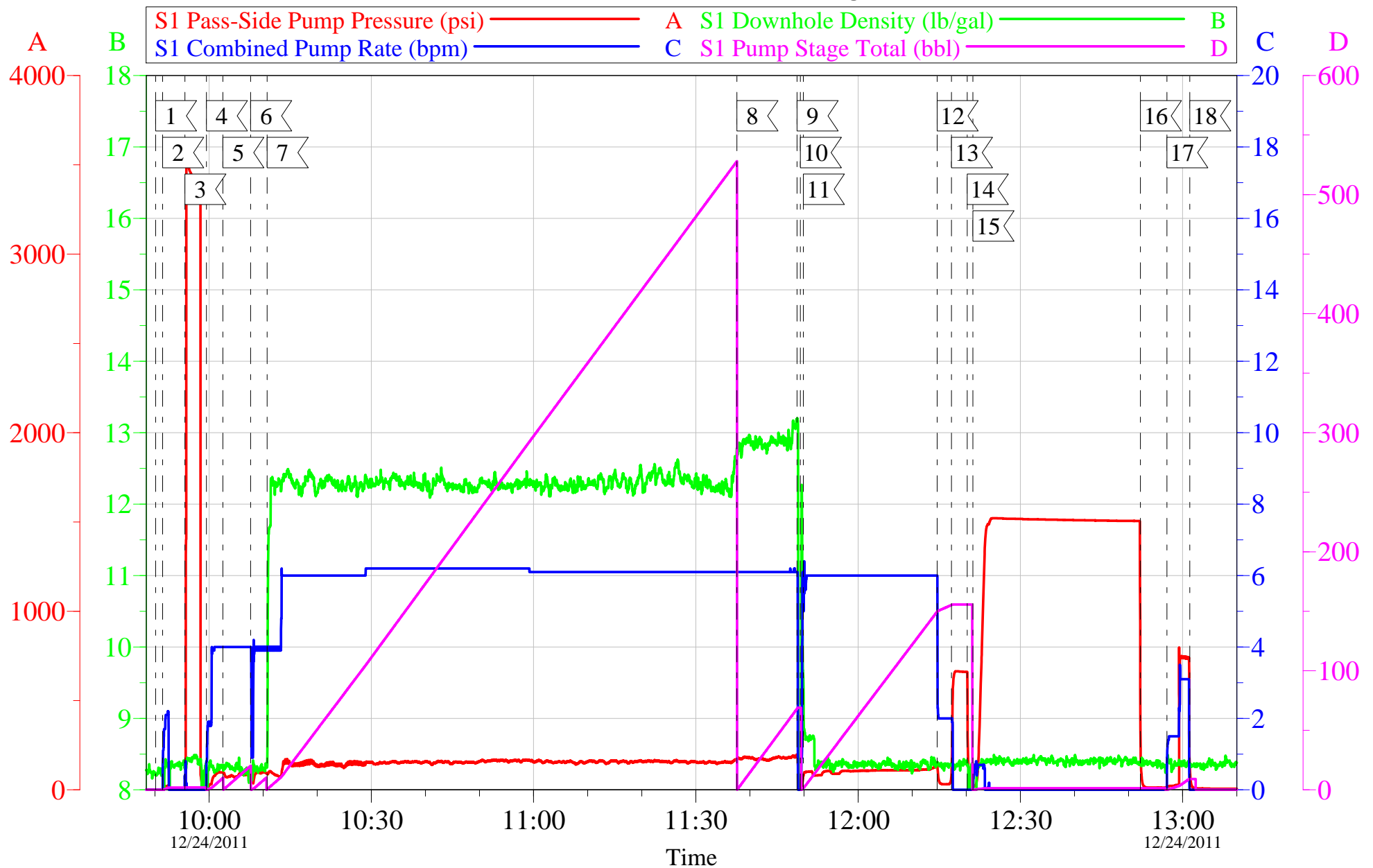
Customer: OXY
Well Description: CC 697-09-02A
Company Rep: Victor Benevides

Job Date: 24-Dec-2011
Job Type: Surface
Cement Supervisor: James Leist

Sales Order #: 9107135
ADC Used: Yes
Elite #4 Paul Salazar

OptiCem v6.4.9
27-Dec-11 12:11

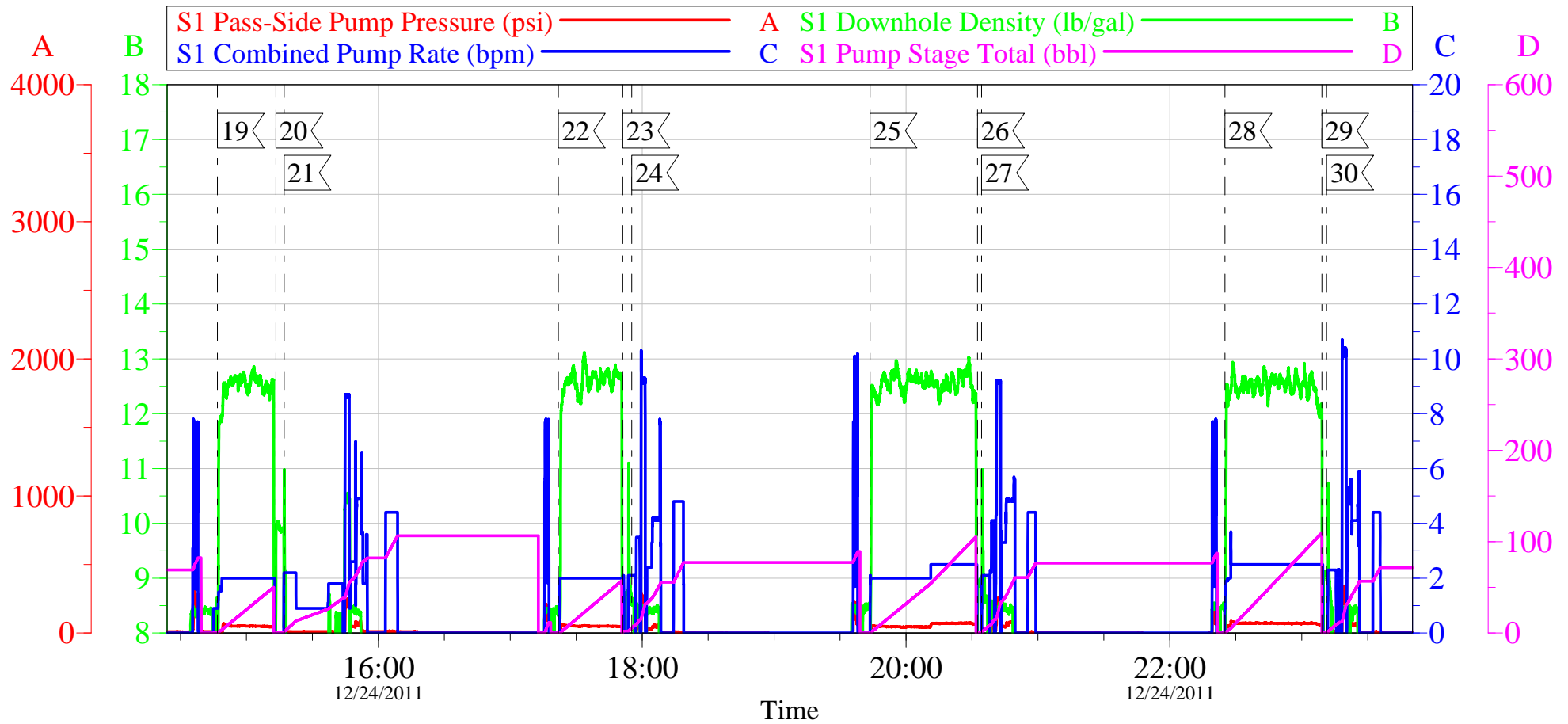
OXY CC 697-09-02A 9 5/8 Surface Casing



Customer: OXY	Job Date: 24-Dec-2011	Sales Order #: 9107135
Well Description: CC 697-09-02A	Job Type: Surface	ADC Used: Yes
Company Rep: Victor Benevides	Cement Supervisor: James Leist	Elite #4 Paul Salazar

OptiCem v6.4.9
27-Dec-11 12:11

OXY CC 697-09-02A 9 5/8 Surface Casing



Local Event Log

19	PUMP TOP OUT 1	14:46:45	20	SHUTDOWN	15:13:25	21	WASH UP	15:17:07
22	PUMP TOP OUT 2	17:21:52	23	SHUTDOWN	17:51:10	24	WASH UP	17:55:12
25	PUMP TOP OUT 3	19:43:39	26	SHUTDOWN	20:32:31	27	WASH UP	20:34:21
28	PUMP TOP OUT 4	22:25:04	29	SHUTDOWN	23:09:07	30	WASH UP	23:11:19

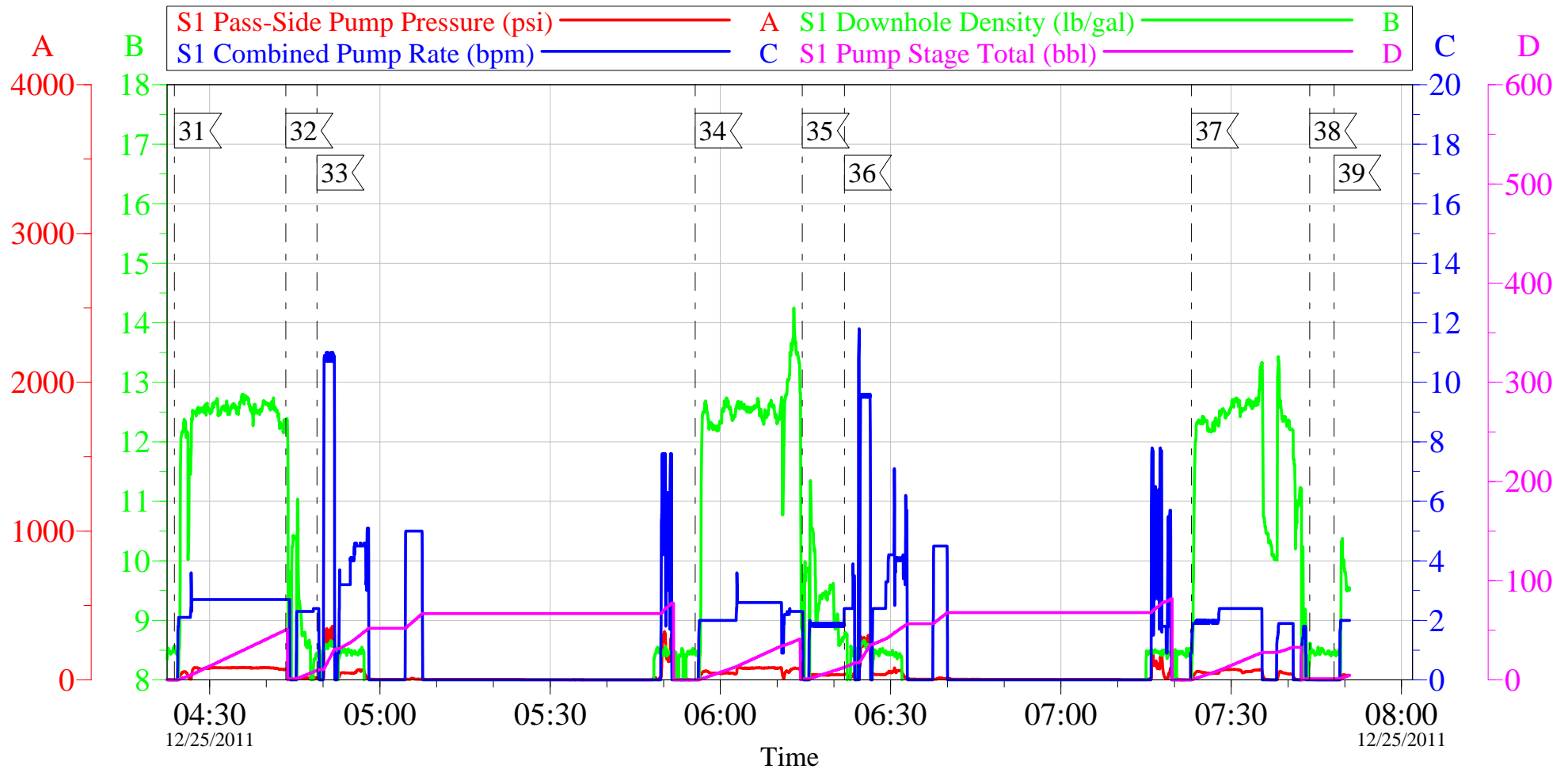
Customer: OXY
Well Description: CC 697-09-02A
Company Rep: Victor Benevides

Job Date: 24-Dec-2011
Job Type: Surface
Cement Supervisor: James Leist

Sales Order #: 9107135
ADC Used: Yes
Elite #4 Paul Salazar

OptiCem v6.4.9
27-Dec-11 12:18

OXY CC 697-09-02A 9 5/8 Surface Casing



Local Event Log

31	PUMP TOP OUT 5	04:23:50	32	SHUTDOWN	04:43:26	33	WASH UP	04:48:55
34	PUMP TOP OUT 6	05:55:33	35	SHUTDOWN	06:14:25	36	WASH UP	06:21:51
37	PUMP TOP OUT 7	07:23:00	38	SHUTDOWN	07:43:49	39	END JOB	07:48:05

Customer: OXY
Well Description: CC 697-09-02A
Company Rep: Victor Benevides

Job Date: 24-Dec-2011
Job Type: Surface
Cement Supervisor: James Leist

Sales Order #: 9107135
ADC Used: Yes
Elite #4 Paul Salazar

OptiCem v6.4.9
27-Dec-11 12:25

Sales Order #: 9107135	Line Item: 10	Survey Conducted Date: 12/25/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: VICTOR BENEVIDES		API / UWI: (leave blank if unknown) 05-045-20712
Well Name: CC		Well Number: 697-09-02A
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: 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	12/25/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	JAMES LEIST (HX18202)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	VICTOR BENEVIDES
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

Sales Order #: 9107135	Line Item: 10	Survey Conducted Date: 12/25/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: VICTOR BENEVIDES		API / UWI: (leave blank if unknown) 05-045-20712
Well Name: CC		Well Number: 697-09-02A
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	12/25/2011
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Deviated
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	8
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Operating Hours (Pumping Hours)	7
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	0
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.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	4
Number Of Jsas Performed	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	Yes

Sales Order #: 9107135	Line Item: 10	Survey Conducted Date: 12/25/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: VICTOR BENEVIDES		API / UWI: (leave blank if unknown) 05-045-20712
Well Name: CC		Well Number: 697-09-02A
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: 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 cement mixed at designed density divided by total BBLs of cement multiplied by 100	99
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