

OXY GRAND JUNCTION EBUSINESS  
DO NOT MAIL - PO BOX 1767  
ADDISON, Texas

CC 697-08-08A

H&P 353

## **Post Job Summary**

### **Cement Surface Casing**

Prepared for: ALEX VALLEGAS  
Date Prepared: 5/13/2011  
Version: 1

Service Supervisor: JAMISON, PRICE

Submitted by:

**HALLIBURTON**

## The Road to Excellence Starts with Safety

Sold To #: 344034		Ship To #: 2853562		Quote #:		Sales Order #: 8169023	
Customer: OXY GRAND JUNCTION EBUSINESS				Customer Rep: Vallegas, Alex			
Well Name: CC			Well #: 697-08-08A		API/UWI #: 05-045-18131		
Field: GRAND VALLEY		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
Lat: N 39.542 deg. OR N 39 deg. 32 min. 31.488 secs.				Long: W 108.238 deg. OR W -109 deg. 45 min. 43.045 secs.			
Contractor: H&P 353			Rig/Platform Name/Num: H&P 353				
Job Purpose: Cement Surface Casing							
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: DUNNING, DUSTIN			Srv Supervisor: JAMISON, PRICE			MBU ID Emp #: 229155	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HAYES, JESSE Doug	18	403601	JAMISON, PRICE W	18	229155	MILLER II, MATTHEW Reginald	18	425164
SINCLAIR, DAN J	18	338784						

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10053558	240 mile	10567589C	240 mile	10867425	240 mile	10897891	240 mile
10995027	240 mile	11259881	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
5/13/11	18	6						

TOTAL	Total is the sum of each column separately							
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### Job

Formation Name						Date	Time	Time Zone	
Formation Depth (MD)	Top			Bottom		Called Out	12 - May - 2011	17:00	MST
Form Type				BHST		On Location	13 - May - 2011	01:00	MST
Job depth MD	2694. ft			Job Depth TVD	2720. ft	Job Started	13 - May - 2011	05:55	MST
Water Depth				Wk Ht Above Floor	4. ft	Job Completed	13 - May - 2011	17:42	MST
Perforation Depth (MD)	From			To		Departed Loc	13 - May - 2011	19:00	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				.	2720.	.	2720.
SURFACE CASING	Unknown		9.625	8.921	36.		J-55	.	2694.	.	2694.

### 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 ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Spacer		20.00	bbl	8.4	.0	.0	6.0	
2	Gel Spacer		20.00	bbl	8.4	.0	.0	6.0	
3	Water Spacer		20.00	bbl	8.4	.0	.0	6.0	
4	Lead Cement	VERSACEM (TM) SYSTEM (452010)	1050.0	sacks	12.3	2.33	12.62	7.0	12.62
		12.62 Gal	FRESH WATER						
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	170.0	sacks	12.8	2.07	10.67	7.0	10.67
		10.67 Gal	FRESH WATER						
6	Displacement		204.6	bbl	8.4	.0	.0	8.0	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)	300	sacks	14.0	1.78	7.67		7.67
		10.96 Gal	FRESH WATER						
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
Displacement	204.6	Shut In: Instant		Lost Returns	YES	Cement Slurry	598.4	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	NO	Actual Displacement	204	Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	863
<b>Rates</b>									
Circulating	NO	Mixing	7	Displacement	8	Avg. Job	7		
Cement Left In Pipe	Amount	46.5 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> Vallegas, Alex	
<b>Well Name:</b> CC		<b>Well #:</b> 697-08-08A	<b>API/UWI #:</b> 05-045-18131
<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b> PARACHUTE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 39.542 deg. OR N 39 deg. 32 min. 31.488 secs.		<b>Long:</b> W 108.238 deg. OR W -109 deg. 45 min. 43.045 secs.	
<b>Contractor:</b> H&P 353		<b>Rig/Platform Name/Num:</b> H&P 353	
<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>Srv Supervisor:</b> JAMISON, PRICE	<b>MBU ID Emp #:</b> 229155

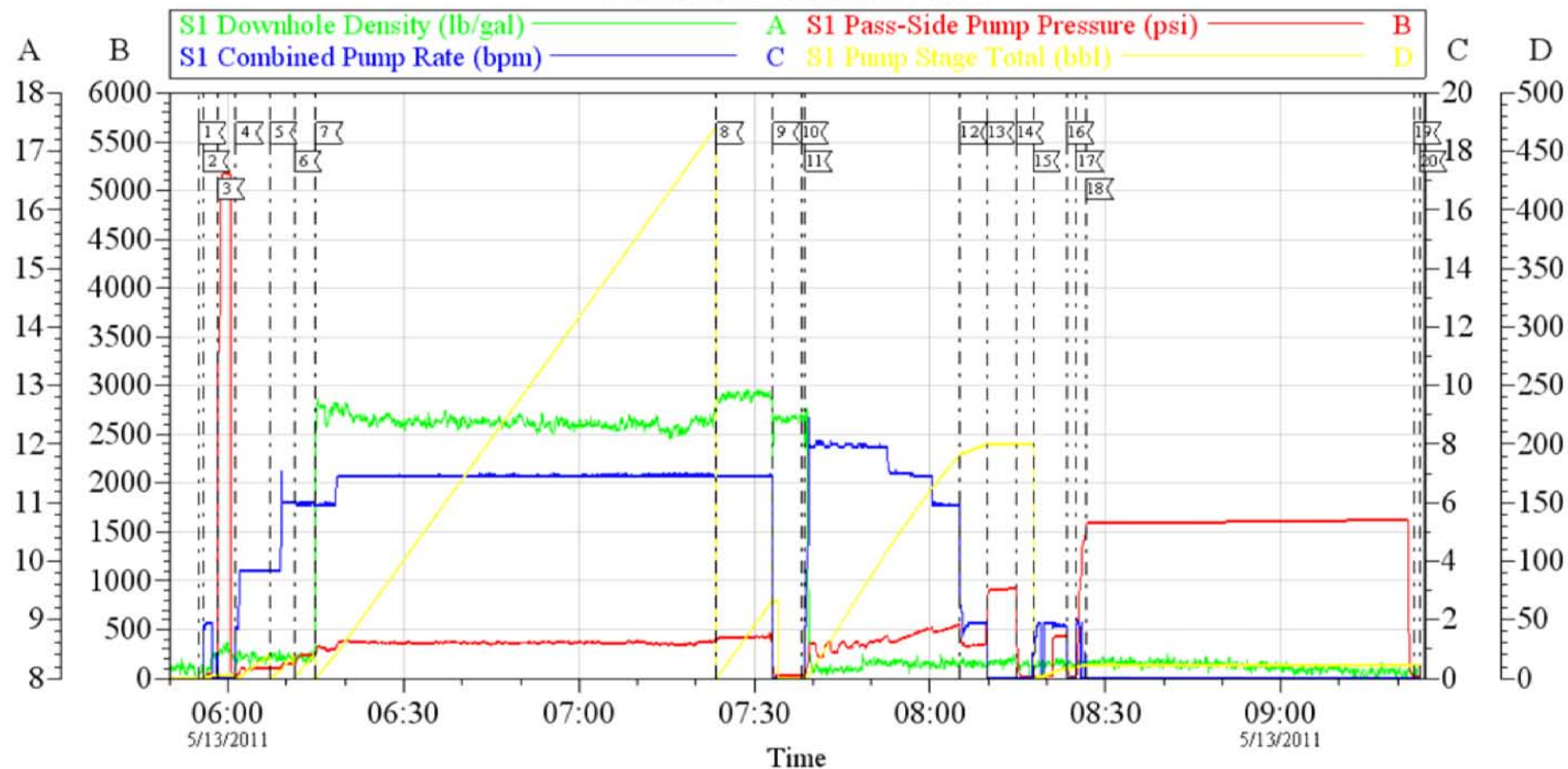
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	05/12/2011 17:00							TD 2720 TP 2694 SURFACE CASING 9.625 36 PPF J-55 S.J 46.5 MUD 8.7 PPG HOLE SIZE 14.75 PARASIGHT STRING 2525 T.T.
Depart Yard Safety Meeting	05/12/2011 19:45							
Crew Leave Yard	05/12/2011 20:00							
Arrive At Loc	05/13/2011 01:00							
Assessment Of Location Safety Meeting	05/13/2011 01:20							
Pre-Rig Up Safety Meeting	05/13/2011 02:00							
Wait on Customer or Customer Sub-Contractor Equip	05/13/2011 03:00							RUNNING CASING & CIRCULATNG
Wait on Customer or Customer Sub-Contractor Equipm	05/13/2011 04:00							
Pre-Job Safety Meeting	05/13/2011 05:30							
Start Job	05/13/2011 05:55							
Prime Pumps	05/13/2011 05:55		2	2			44.0	FRESH WATER
Test Lines	05/13/2011 05:58						5000. 0	
Pump Water	05/13/2011 06:01		4	20			119.0	FRESH WATER
Pump Spacer 1	05/13/2011 06:07		6	20			155.0	GEL WATER SPACER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Water	05/13/2011 06:11		6	20			240.0	FRESH WATER
Pump Lead Cement	05/13/2011 06:14		7	435.7			377.0	MIXED @ 12.3 YIELD 2.33 WAT/REQ 12.62 1050 SKS
Pump Tail Cement	05/13/2011 07:23		7	62.7			420.0	MIXED @ 12.8 PPG YIELD 2.07 WAT/REQ 10.67 170 SKS
Shutdown	05/13/2011 07:33							
Drop Plug	05/13/2011 07:35							
Pump Displacement	05/13/2011 07:38		8					FRESH WATER
Slow Rate	05/13/2011 08:05		2	195			510.0	
Bump Plug	05/13/2011 08:09		2	204.6			350.0	PRESSURED UP TO 918 PSI
Check Floats	05/13/2011 08:14							FLOATS HELD
Pump Water	05/13/2011 08:17		2	10		433.0		CLEAR PARASIGHT STRING WITH SUGER WATER
Shutdown	05/13/2011 08:23							
Release Tubing Pressure	05/13/2011 08:24							CHECK VALVE DID NOT HOLD
Pressure Up Well	05/13/2011 08:25						1500.0	CASING TEST
Monitor Pressure	05/13/2011 08:26						1500.0	WATCH PRESSURE FOR 30 MINUTES
Release Casing Pressure	05/13/2011 09:22						1587.0	FLOATS HELD
End Job	05/13/2011 09:23							CASING WAS NOT MOVED THROUGHOUT JOB
Start Job	05/13/2011 12:08							TOP OUT # 1
Pump Water	05/13/2011 12:08		2	2			108.0	FRESH WATER
Pump Cement	05/13/2011 12:10		2	19			115.0	MIXED @ 14 PPG YIELD 1.78 WAT/REQ 7.67 60 SKS
Pump Displacement	05/13/2011 12:20		2	2			106.0	FRESH WATER
Shutdown	05/13/2011 12:21							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
End Job	05/13/2011 12:21							
Start Job	05/13/2011 13:34							TOP OUT # 2
Pump Water	05/13/2011 13:34		1	1			54.0	FRESH WATER
Pump Cement	05/13/2011 13:35		2	38			88.0	MIXED @ 13 PPG YIELD 2.07 WAT/REQ 10.67 103 SKS
Pump Displacement	05/13/2011 13:53		2	2			80.0	FRESH WATER
Shutdown	05/13/2011 13:55							
End Job	05/13/2011 13:55							
Start Job	05/13/2011 17:18							TOP OUT # 3
Pump Water	05/13/2011 17:19		1	1			4.0	FRESH WATER
Pump Cement	05/13/2011 17:20		2	43			88.0	MIXED @ 14 PPG YIELD 1.78 WAT/REQ 7.67 136 SKS
Shutdown	05/13/2011 17:21							TOP WELL OFF WITH 300 SKS OF TOP OUT CEMENT
End Job	05/13/2011 17:42							CASING WAS NOT MOVED THROUGHOUT JOB
Post-Job Safety Meeting (Pre Rig-Down)	05/13/2011 18:00							NO CIRCULATION THROUGHOUT JOB
Depart Location Safety Meeting	05/13/2011 18:50							
Crew Leave Location	05/13/2011 19:00							THANKS FOR USING HALLIBURTON BILL JAMISON & CREW

# OXY

## SURFACE CASING 9.625



### Local Event Log

1 START JOB	05:55:00	2 PRIME LINES	05:55:38	3 TEST LINES	05:58:07
4 START FRESH WATERSPACER	06:01:18	5 START GEL WATER SPACER	06:07:06	6 START FRESH WATERSPACER	06:11:17
7 START LEAD CEMENT	06:14:55	8 START TAIL CEMENT	07:23:28	9 SHUT DOWN	07:33:08
10 DROP PLUG	07:37:55	11 START DISPLACEMENT	07:38:37	12 SLOW RATE	08:05:09
13 BUMP PLUG	08:09:49	14 CHECK FLOATS	08:14:48	15 PUMP DOWN PARASIGHT STRING	08:17:41
16 SHUT DOWN	08:23:24	17 START CASING PRESSURE TEST	08:25:02	18 WATCH PRESSURE 30 MIN	08:26:41
19 END JOB	09:22:42	20 RELEASE PRESSURE	09:23:41		

Customer: OXY  
Well Description: CC 697-08-08A  
Company Rep: ALEX VALLEGAS

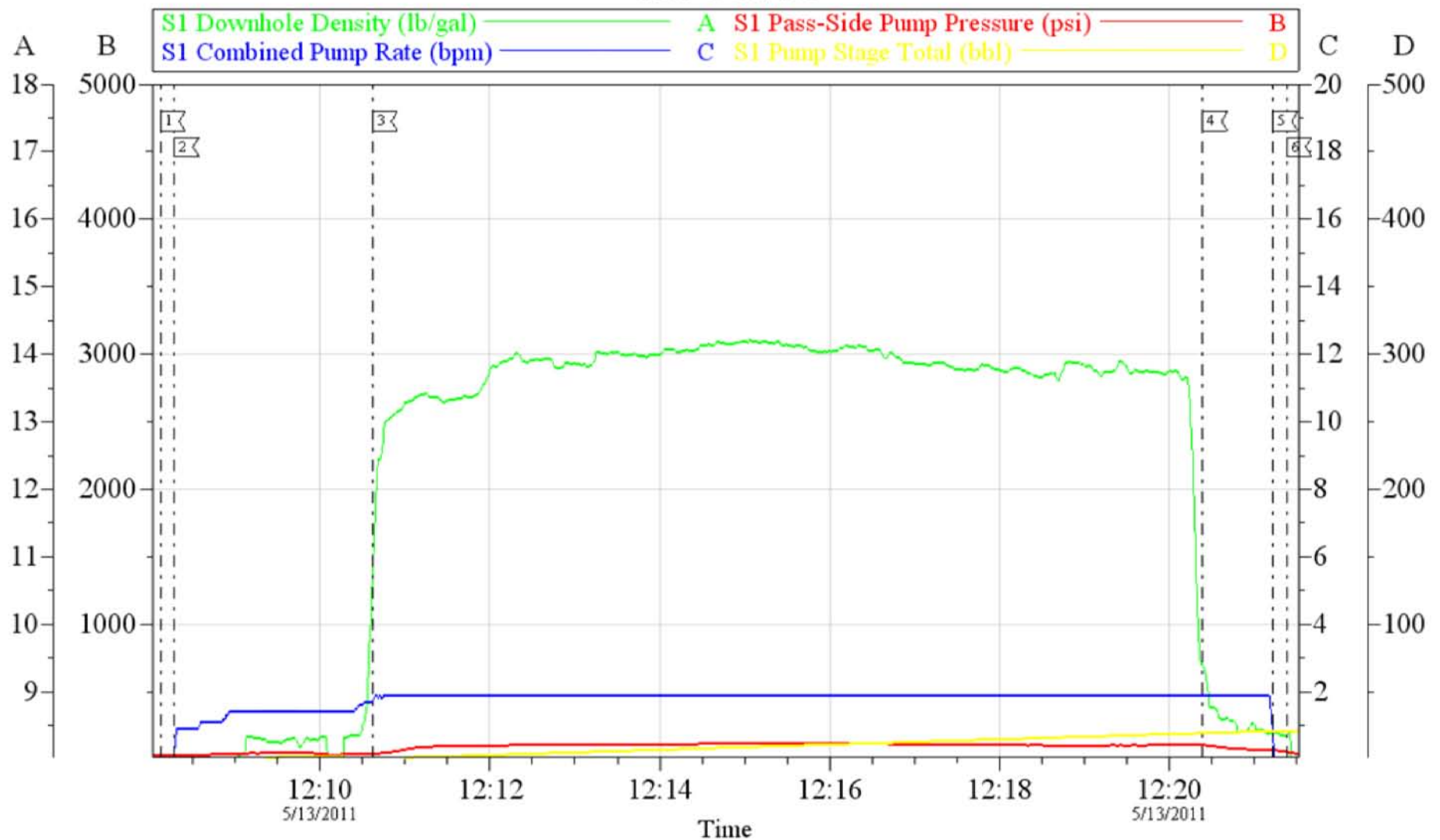
Job Date: 13-May-2011  
Job Type: CEMENT  
Cement Supervisor: BILL JAMISON

Sales Order #: 8169023  
ADC Used: YES  
Elite #: 3 JESSE HAYES

OptiCem v6.4.9  
13-May-11 09:25



# OXY TOP OUT #1



Customer: OXY  
Well Description: CC 697-08-08A  
Company Rep: ALEX VALLEGAS

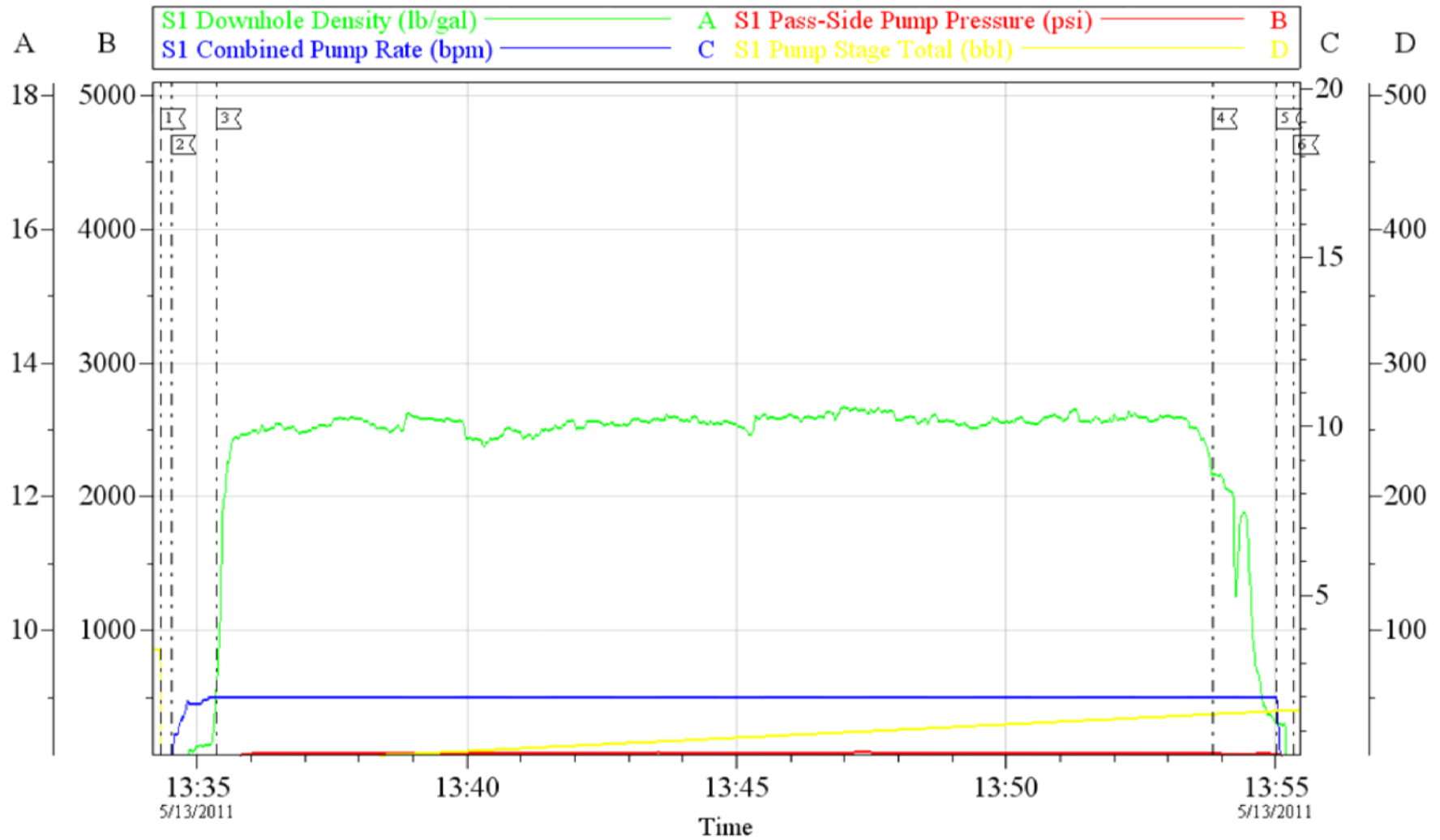
Job Date: 13-May-2011  
Job Type: CEMENT  
Cement Supervisor: BILL JAMISON

Sales Order # 8169023  
ADC Used: YES  
Elite # 3 JESSE HAYES

OptiCem v6.4.9  
13-May-11 12:28



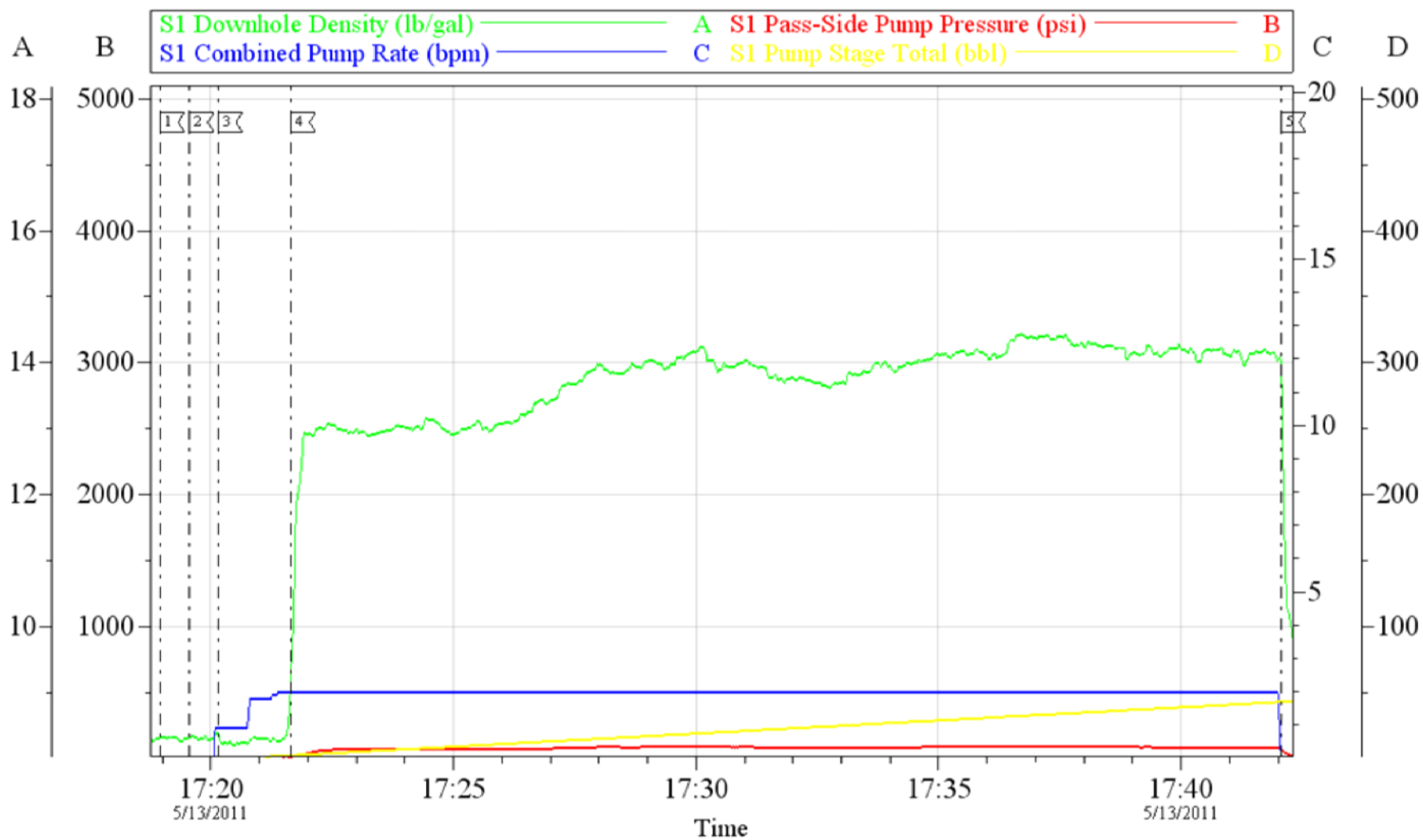
# OXY TOP OUT # 2



Local Event Log					
[1] START JOB	13:34:19	[2] START WATER	13:34:31	[3] START CEMENT	13:35:22
[4] START WATER	13:53:50	[5] SHUT DOWN	13:55:01	[6] END JOB	13:55:20

Customer: OXY	Job Date: 13-May-2011	Sales Order #: 8169023	OptiCem v6.4.9 13-May-11 14:10
Well Description: CC 697-08-08A	Job Type: CEMENT	ADC Used: YES	
Company Rep: ALEX VALLEGAS	Cement Supervisor: BILL JAMISON	Elite #: 3 JESSE HAYES	

# OXY TOP OUT #3



Customer: OXY	Job Date: 13-May-2011	Sales Order #: 8169023	OptiCem v6.4.9 13-May-11 18:00
Well Description: CC 697-08-08A	Job Type: CEMENT	ADC Used: YES	
Company Rep: ALEX VALLEGAS	Cement Supervisor: BILL JAMISON	Elite #: 3 JESSE HAYES	

# HALLIBURTON

## Water Analysis Report

Company: OXY

Submitted by: BILL JAMISON

Attention: J.Trout

Lease C.C.

Well # 697-08-08A

Date: 5/13/2011

Date Rec.: 5/13/2011

S.O.# 8169023

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>6.9</i>
Potassium (K)	<i>5000</i>	<i>400</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>250</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>0</i> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<i>-200</i> Mg / L
Chlorine (Cl <sub>2</sub> )		<i>0</i> Mg / L
Temp	<i>40-80</i>	<i>55</i> Deg
Total Dissolved Solids		<i>650</i> Mg / L

Respectfully: BILL JAMISON

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

NOTICE:

This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report c

<b>Sales Order #:</b> 8169023	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 5/13/2011
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> ALEX VALLEGAS		<b>API / UWI: (leave blank if unknown)</b> 05-045-18131
<b>Well Name:</b> CC		<b>Well Number:</b> 697-08-08A
<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	5/13/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	PRICE JAMISON (HAL9235)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	ALEX VALLEGAS
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
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.	

CUSTOMER SIGNATURE

<b>Sales Order #:</b> 8169023	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 5/13/2011
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> ALEX VALLEGAS		<b>API / UWI: (leave blank if unknown)</b> 05-045-18131
<b>Well Name:</b> CC		<b>Well Number:</b> 697-08-08A
<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>	5/13/2011
The date the survey was conducted	

Cementing KPI Survey	
<b>Type of Job</b>	0
Select the type of job. (Cementing or Non-Cementing)	
<b>Select the Maximum Deviation range for this Job</b>	Deviated
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
<b>Total Operating Time (hours)</b>	8
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
<b>HSE Incident, Accident, Injury</b>	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
<b>Was the job purpose achieved?</b>	Yes
Was the job delivered correctly as per customer agreed design?	
<b>Operating Hours (Pumping Hours)</b>	6
Total number of hours pumping fluid on this job. Enter in decimal format.	
<b>Customer Non-Productive Rig Time (hrs)</b>	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.	
<b>Type of Rig Classification Job Was Performed</b>	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
<b>Number Of JSAs Performed</b>	5
Number Of Jsas Performed	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

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<b>Customer Representative:</b> ALEX VALLEGAS		<b>API / UWI: (leave blank if unknown)</b> 05-045-18131
<b>Well Name:</b> CC		<b>Well Number:</b> 697-08-08A
<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