

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

CC 697-08-52A

**H&P Drilling/H&P/330**

**Post Job Report**  
**Cement Surface Casing**

Prepared for: DARRYLE CLARK  
Date Prepared: 9/17/2011

Service Supervisor: JAMISON, PRICE

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 344034	<b>Ship To #:</b> 2879055	<b>Quote #:</b>	<b>Sales Order #:</b> 8473962
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Customer Rep:</b> CLARK, DARRYLE	
<b>Well Name:</b> CC		<b>Well #:</b> 697-08-52A	<b>API/UWI #:</b>
<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b> PARACHUTE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.534 deg. OR N 39 deg. 32 min. 1.95 secs.		<b>Long:</b> W 108.242 deg. OR W -109 deg. 45 min. 29.358 secs.	
<b>Contractor:</b> H&P Drilling		<b>Rig/Platform Name/Num:</b> H&P 330	
<b>Job Purpose:</b> Cement Surface Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> HIMES, JEFFREY		<b>Srvc Supervisor:</b> JAMISON, PRICE	<b>MBU ID Emp #:</b> 229155

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANDERSON, ADAM S	17	456683	GOWEN, WESLEY M	17	496205	JAMISON, PRICE W	17	229155
MCKAY, PATRICK Joseph	17	496671	WINKER, STEVEN	17	478776			

**Equipment**

HES Unit #	Distance-1 way						
10784080	120 mile	10804579	120 mile	10857016	120 mile	10938658	120 mile
10938673	120 mile	10969711	120 mile	11259881	120 mile	11560046	120 mile
11562538	120 mile	6374L	120 mile				

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
9/16/11	5.5	3	9/17/11	11.5				

**TOTAL** *Total is the sum of each column separately*

**Job**

**Job Times**

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
					16 - Sep - 2011	10:00	MST
<b>Form Type</b>			<b>BHST</b>	<b>On Location</b>	16 - Sep - 2011	18:30	MST
<b>Job depth MD</b>	2666. ft		<b>Job Depth TVD</b>	2717. ft	<b>Job Started</b>	16 - Sep - 2011	21:00
<b>Water Depth</b>			<b>Wk Ht Above Floor</b>	. ft	<b>Job Completed</b>	17 - Sep - 2011	09:59
<b>Perforation Depth (MD)</b>	<b>From</b>		<b>To</b>	<b>Departed Loc</b>	17 - Sep - 2011	11:30	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
OPEN HOLE				14.75				.	2717.	.	2717.
SURFACE CASING	Unknown		9.625	8.921	36.		J-55	.	2666.	.	2666.

**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		
R/A DENSOMETER W/CHART RECORDER, /JOB, ZI	1	JOB		
PORT. DATA ACQUIS. W/OPTICEM RT W/HES	1	EA		
ADC (AUTO DENSITY CTRL) SYS, /JOB, ZI	1	JOB		

**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				
<b>Fluid Data</b>										
<b>Stage/Plug #: 1</b>										
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	4.0		
2	Gel Spacer		20.00	bbl	8.4	.0	.0	4.0		
3	Water Spacer		20.00	bbl	8.33	.0	.0	6.0		
4	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	1050.0	sacks	12.3	2.33	12.62	6.0	12.62	
	12.62 Gal	FRESH WATER								
5	VersaCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	170.0	sacks	12.8	2.07	10.67	6.0	10.67	
	10.67 Gal	FRESH WATER								
6	Displacement		202.4	bbl	8.33	.0	.0	6.0		
7	Topout Cement	HALCEM (TM) SYSTEM (452986)	420.0	sacks	12.5	1.97	10.96	2.0	10.96	
	10.96 Gal	FRESH WATER								
Calculated Values		Pressures		Volumes						
Displacement	202..4	Shut In: Instant		Lost Returns	YES	Cement Slurry	645	Pad		
Top Of Cement	SURFACE	5 Min		Cement Returns	NO	Actual Displacement	202.4	Treatment		
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	907	
Rates										
Circulating	NO	Mixing	6	Displacement	6	Avg. Job	6			
Cement Left In Pipe	Amount	47.8 ft	Reason	Shoe Joint						
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID			
<b>The Information Stated Herein Is Correct</b>				Customer Representative Signature						

*The Road to Excellence Starts with Safety*

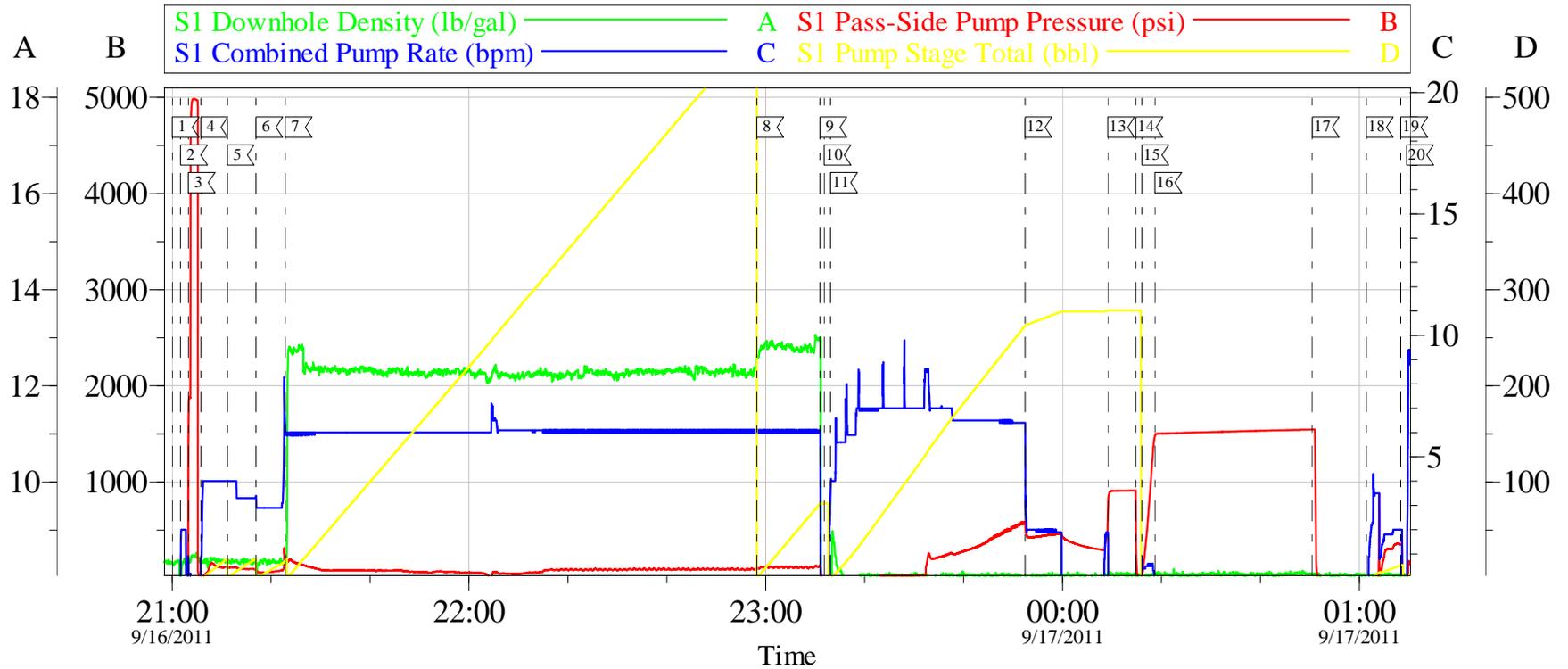
<b>Sold To #:</b> 344034	<b>Ship To #:</b> 2879055	<b>Quote #:</b>	<b>Sales Order #:</b> 8473962
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Customer Rep:</b> CLARK, DARRYLE	
<b>Well Name:</b> CC		<b>Well #:</b> 697-08-52A	<b>API/UWI #:</b>
<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b> PARACHUTE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 39.534 deg. OR N 39 deg. 32 min. 1.95 secs.		<b>Long:</b> W 108.242 deg. OR W -109 deg. 45 min. 29.358 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>Srvc 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	09/16/2011 10:00							TD 2717 TP 2666 SURFACE CASING 9.625 36 PPF J-55 S.J 47.8 MUD 8.8 PPG HOLE SIZE 14.75 PARASIGHT STRING 2499 T.T.
Depart Yard Safety Meeting	09/16/2011 14:30							NO PRELOAD ALL TRUCKS CALLED OUT AT TIME OF JOB.
Crew Leave Yard	09/16/2011 15:00							
Arrive At Loc	09/16/2011 18:30							
Assessment Of Location Safety Meeting	09/16/2011 18:45							
Pre-Rig Up Safety Meeting	09/16/2011 19:00							
Pre-Job Safety Meeting	09/16/2011 20:45							
Start Job	09/16/2011 21:00							
Prime Pumps	09/16/2011 21:01		2	2			6.0	FRESH WATER
Test Lines	09/16/2011 21:03						5000. 0	
Pump Water	09/16/2011 21:05		4	20			105.0	FRESH WATER
Pump Spacer 1	09/16/2011 21:11		4	20			105.0	GEL WATER SPACER
Pump Water	09/16/2011 21:16		6	20			210.0	FRESH WATER
Pump Lead Cement	09/16/2011 21:22		6	435.7			95.0	MIXED @ 12.3 YIELD 2.33 WAT/REQ 12.62 1050 SKS

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	09/16/2011 22:58		6	62.7			130.0	MIXED @ 12.8 PPG YIELD 2.07 WAT/REQ 10.67 170 SKS
Shutdown	09/16/2011 23:10							
Drop Plug	09/16/2011 23:11							
Pump Displacement	09/16/2011 23:13		6					FRESH WATER
Slow Rate	09/16/2011 23:52		2	192			470.0	
Bump Plug	09/17/2011 00:09		2	202.4			410.0	PRESSURED UP TO PSI 900 PSI
Check Floats	09/17/2011 00:14							FLOATS HELD
Pressure Up Well	09/17/2011 00:16							CASING TEST
Monitor Pressure	09/17/2011 00:18						1500. 0	WATCH PRESSURE FOR 30 MINUTES
Release Casing Pressure	09/17/2011 00:50						1520. 0	FLOATS HELD
Pump Water	09/17/2011 01:01		2	14			900.0	CLEAR PARASIGHT STRING WITH SUGER WATER
Shutdown	09/17/2011 01:08							
Release Tubing Pressure	09/17/2011 01:08							CHECK VALVE HOLDING
End Job	09/17/2011 01:09							CASING WAS NOT MOVED THROUGHOUT JOB
Start Job	09/17/2011 02:39							TOP OUT # 1
Pump Cement	09/17/2011 02:39		2	55			60.0	MIXED @ 12.5 PPG YIELD 1.97 WAT/REQ 10.96 155 SKS
Pump Displacement	09/17/2011 03:08		2	3			60.0	FRESH WATER
Shutdown	09/17/2011 03:09							
End Job	09/17/2011 03:10							
Start Job	09/17/2011 05:07							TOP OUT # 2
Pump Cement	09/17/2011 05:07		2	43			60.0	MIXED @ 12.5 PPG YIELD 1.97 WAT/REQ 10.96 123 SKS

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	09/17/2011 05:28		2	2			50.0	FRESH WATER
Shutdown	09/17/2011 05:29							
End Job	09/17/2011 05:30							
Start Job	09/17/2011 07:42							TOP OUT # 3
Pump Cement	09/17/2011 07:43		2	25			50.0	MIXED @ 12.5 YIELD 1.97 WAT/REQ 10.96 72 SKS
Pump Displacement	09/17/2011 07:54		2	2			40.0	
Shutdown	09/17/2011 07:55							
End Job	09/17/2011 07:56							CASING WAS NOT MOVED THROUGHOUT JOB
Start Job	09/17/2011 09:21							TOP OUT # 4
Pump Cement	09/17/2011 09:22		2	24			50.0	MIXED @ 12.5 PPG YIELD 1.97 WAT/REQ 10.96 70 SKS
Shutdown	09/17/2011 09:58							
End Job	09/17/2011 09:59							TOP OFF WELL WITH 420 SKS
Post-Job Safety Meeting (Pre Rig-Down)	09/17/2011 10:30							NO CIRCULATION THROUGHOUT JOB
Depart Location Safety Meeting	09/17/2011 11:20							
Crew Leave Location	09/17/2011 11:30							THANKS FOR USING HALLIBURTON BILL JAMISON & CREW

# OXY SURFACE CASING

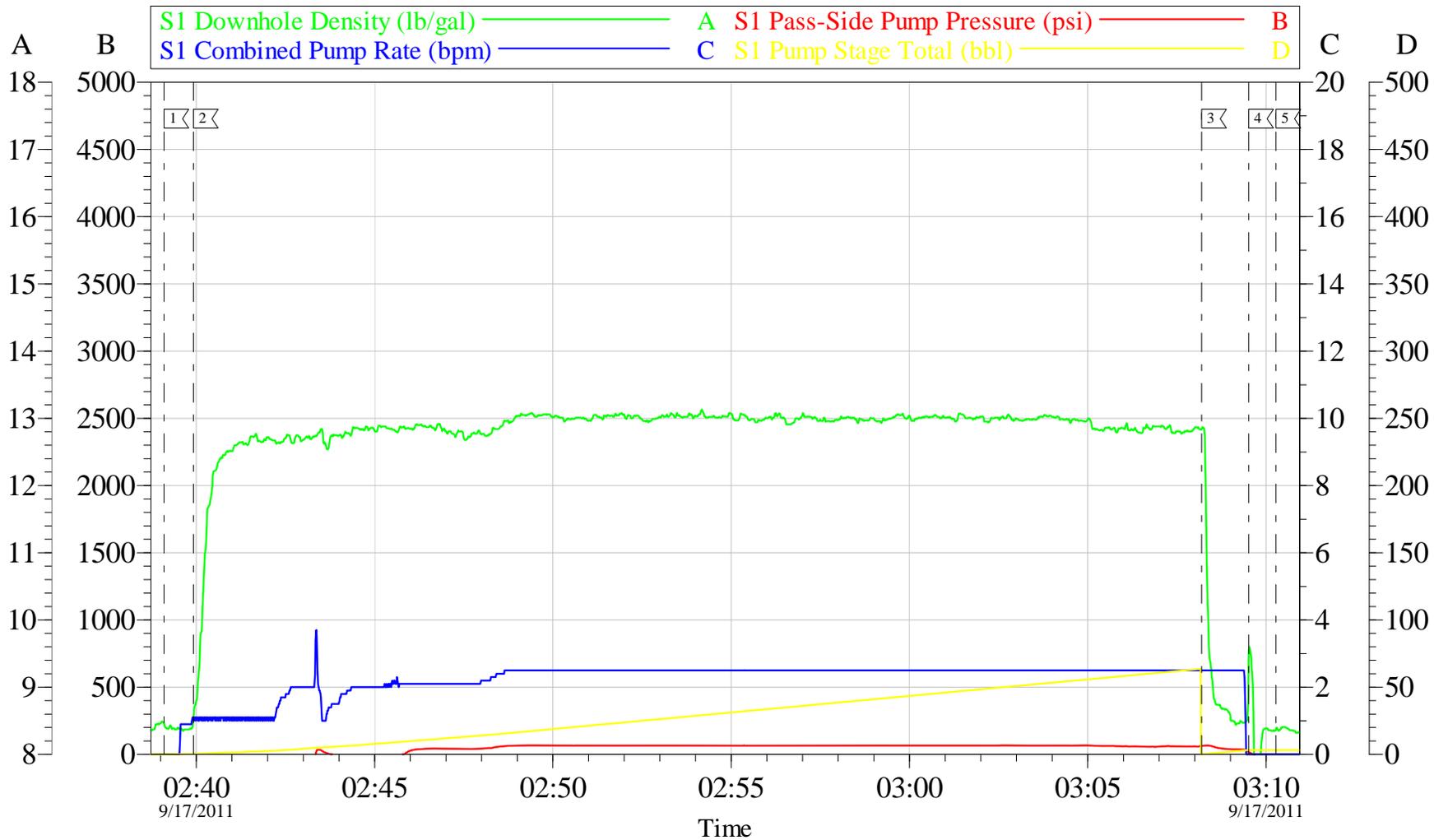


Local Event Log			
1	START JOB	9/16/2011 21:00:01	2 PRIME LINES
2	PRIME LINES	9/16/2011 21:01:43	4 START FRESH WATER SPACER
3	TEST LINES	9/16/2011 21:03:16	6 START FRESH WATER SPACER
4	START FRESH WATER SPACER	9/16/2011 21:05:49	8 START TAIL CEMENT
5	START GEL SPACER	9/16/2011 21:11:10	9 SHUT DOWN
6	START FRESH WATER SPACER	9/16/2011 21:16:58	10 DROP PLUG
7	START LEAD CEMENT	9/16/2011 21:22:53	11 START DISPLACEMENT
8	START TAIL CEMENT	9/16/2011 22:58:12	12 SLOW RATE
9	SHUT DOWN	9/16/2011 23:10:57	13 BUMP PLUG
10	DROP PLUG	9/16/2011 23:11:48	14 CHECK FLOATS
11	START DISPLACEMENT	9/16/2011 23:13:07	15 START CASING PRESSURE TEST
12	SLOW RATE	9/16/2011 23:52:25	16 WATCH PRESSURE
13	BUMP PLUG	9/17/2011 00:09:07	17 RELEASE PRESSURE
14	CHECK FLOATS	9/17/2011 00:14:50	18 PUMP DOWN PARASIGHT STRING
15	START CASING PRESSURE TEST	9/17/2011 00:16:02	19 SHUT DOWN
16	WATCH PRESSURE	9/17/2011 00:18:39	20 END JOB
17	RELEASE PRESSURE	9/17/2011 00:50:29	
18	PUMP DOWN PARASIGHT STRING	9/17/2011 01:01:25	
19	SHUT DOWN	9/17/2011 01:08:23	
20	END JOB	9/17/2011 01:09:33	

Customer: OXY	Job Date: 16-Sep-2011	Sales Order #: 8473962
Well Description: C.C. 697-08-52A	Job Type: CEMENT	ADC Used: YES
Company Rep: DARRYLE CLARK	Cement Supervisor: BILL JAMISON	Elite #5 ADAM ANDERSON

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17-Sep-11 01:22

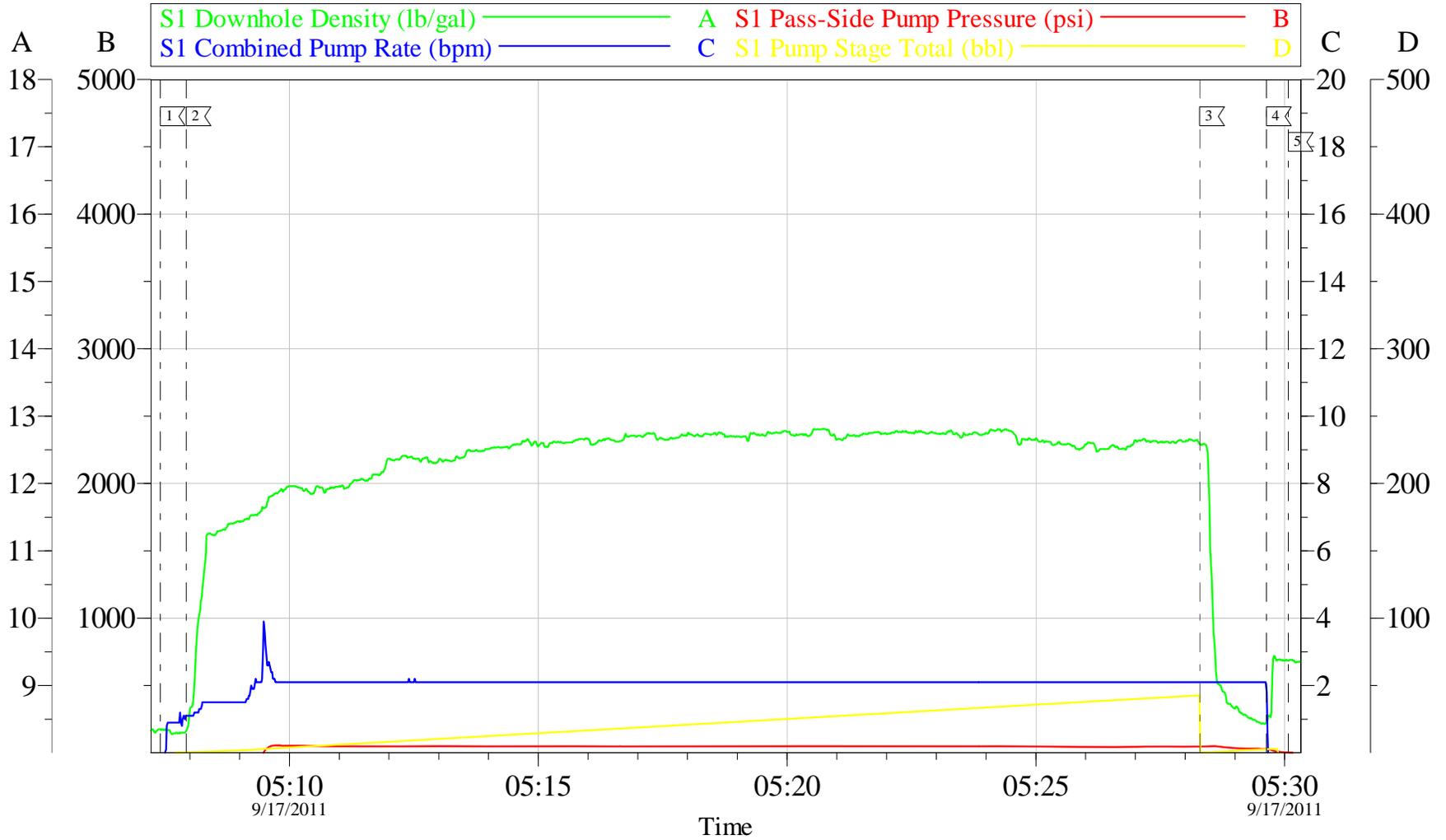
# OXY TOP OUT



Local Event Log			
1 START JOB	02:39:06	2 START CEMENT	02:39:55
		3 START DISPLACEMENT	03:08:12
4 SHUT DOWN	03:09:31	5 END JOB	03:10:17

Customer: OXY	Job Date: 17-Sep-2011	Sales Order #: 8473962
Well Description: C.C. 697-08-52A	Job Type: CEMENT	ADC Used: YES
Company Rep: DARRYLE	Cement Supervisor: BILL JAMISON	Elite #:5 ADAM ANDERSON

# OXY TOP OUT # 2

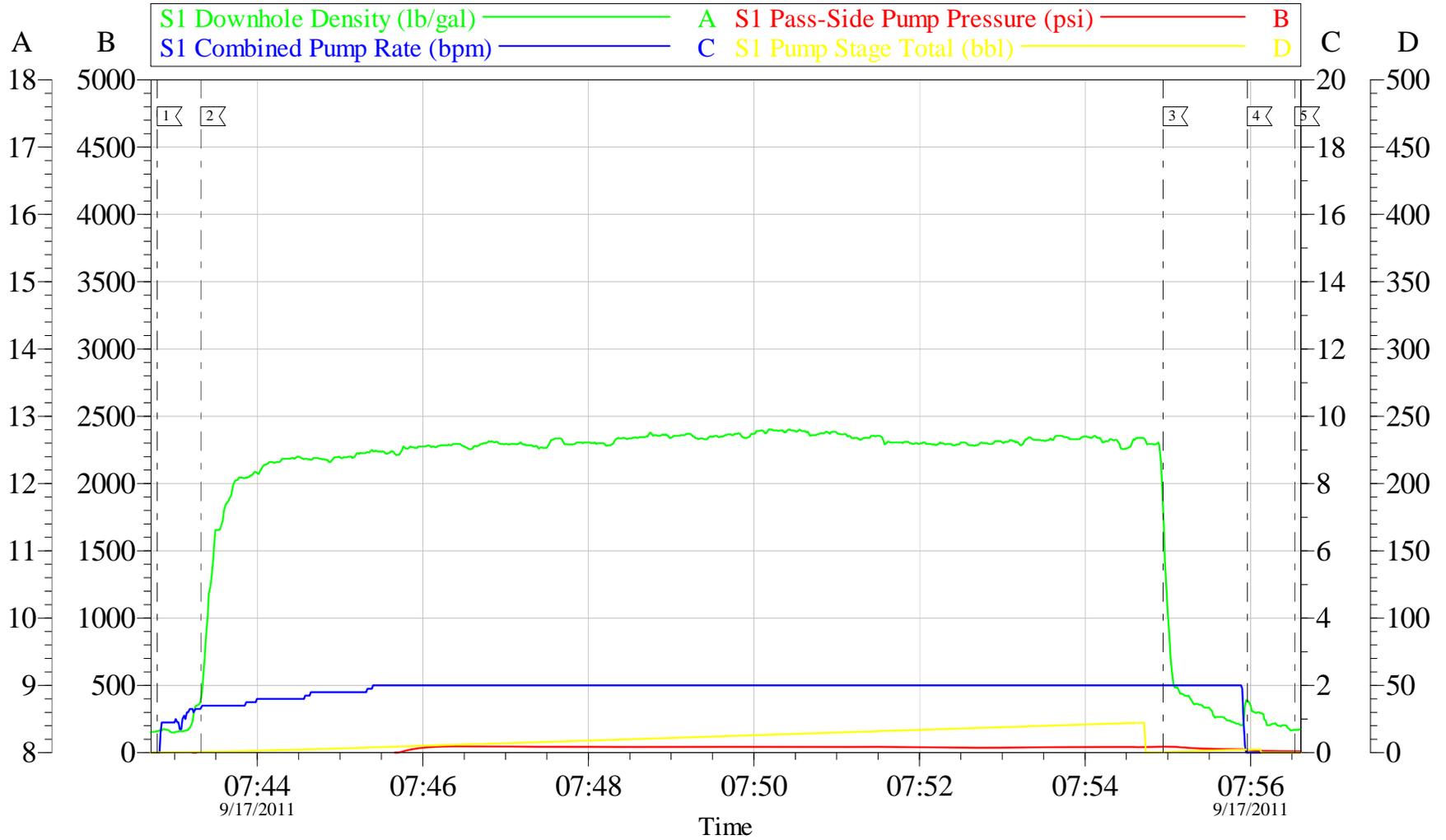


Local Event Log					
1	START JOB	05:07:24	2	START CEMENT	05:07:55
3	START DISPLACEMENT	05:28:18	4	SHUT DOWN	05:29:38
5	END JOB	05:30:05			

Customer: OXY	Job Date: 17-Sep-2011	Sales Order #: 8473962
Well Description: C.C. 697-08-52A	Job Type: CEMENT	ADC Used: YES
Company Rep: DARRYLE CLARK	Cement Supervisor: BILL JAMISON	Elite #5: ADAM ANDERSON

OptiCem v6.4.10  
17-Sep-11 05:44

# OXY TOP OUT # 3

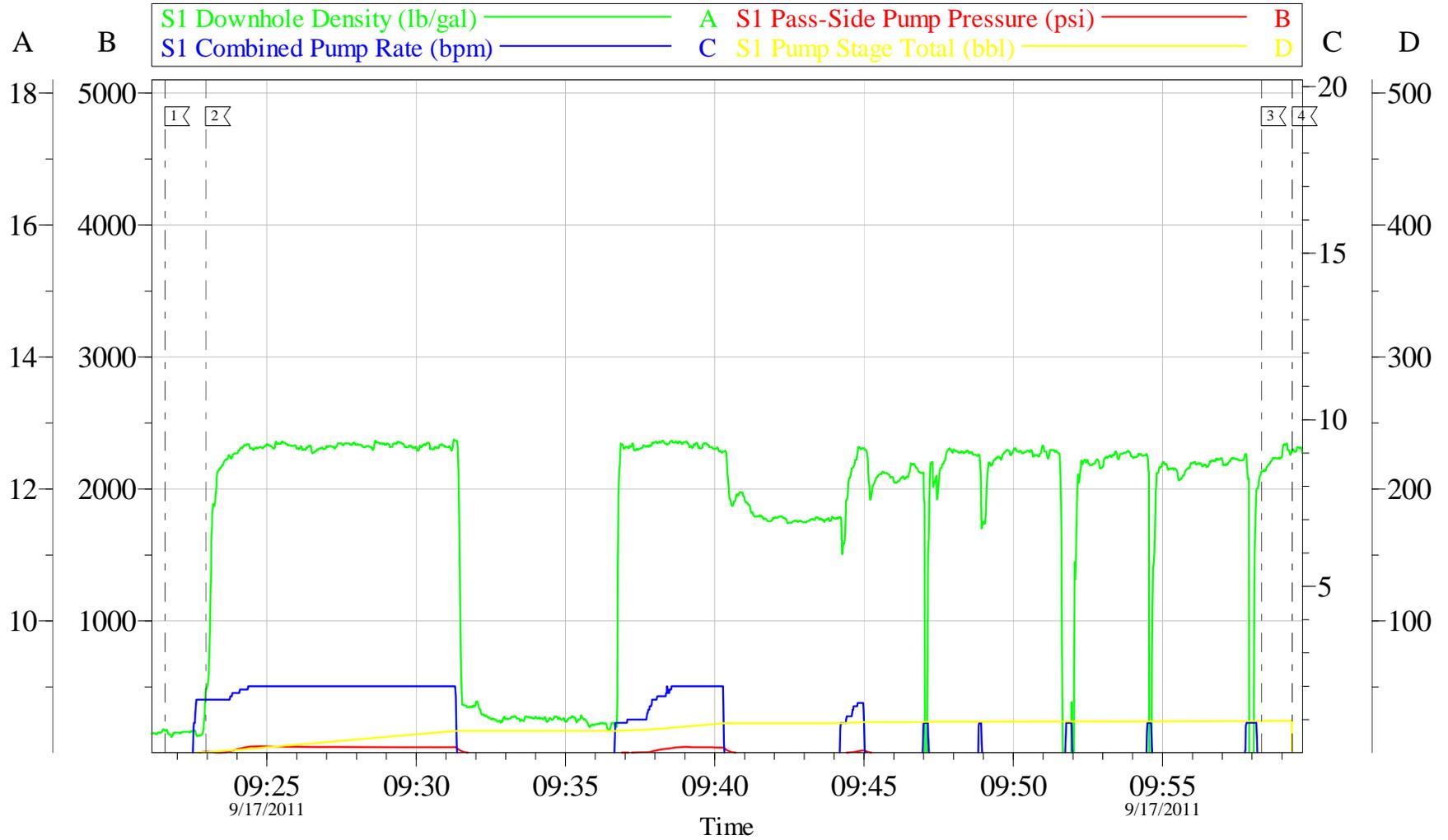


Local Event Log					
1	START JOB	07:42:47	2	START CEMENT	07:43:19
3	START DISPLACEMENT	07:54:57	4	SHUT DOWN	07:55:58
5	END JOB	07:56:32			

Customer: OXY	Job Date: 17-Sep-2011	Sales Order #: 8473962
Well Description: C.C. 697-08-52A	Job Type: CEMENT	ADC Used: YES
Company Rep: DARRYLE CLARK	Cement Supervisor: BILL JAMISON	Elite #5: ADAM ANDERSON

OptiCem v6.4.10  
17-Sep-11 08:01

# OXY TOP OUT # 4



Local Event Log			
1	START JOB	09:21:35	
2	START CEMENT	09:22:57	
3	SHUT DOWN	09:58:18	
4	END JOB	09:59:21	

Customer: OXY	Job Date: 17-Sep-2011	Sales Order #: 8473962
Well Description: C.C. 697-08-52A	Job Type: CEMENT	ADC Used: YES
Company Rep: DARRYLE CLARK	Cement Supervisor: BILL JAMISON	Elite #5: ADAM ANDERSON

OptiCem v6.4.10  
17-Sep-11 10:12

# HALLIBURTON

## Water Analysis Report

Company: OXY  
Submitted by: BILL JAMISON  
Attention: J.Trout  
Lease: C.C.  
Well #: 697-08-52A

Date: 9/16/2011  
Date Rec.: 9/16/2011  
S.O.#: 8473962  
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>6.9</b>
Potassium (K)	<i>5000</i>	<b>400 Mg / L</b>
Calcium (Ca)	<i>500</i>	<b>250 Mg / L</b>
Iron (FE2)	<i>300</i>	<b>0 Mg / L</b>
Chlorides (Cl)	<i>3000</i>	<b>0 Mg / L</b>
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>-200 Mg / L</b>
Chlorine (Cl <sub>2</sub> )		<b>0 Mg / L</b>
Temp	<i>40-80</i>	<b>64 Deg</b>
Total Dissolved Solids		<b>650 Mg / L</b>

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 or

<b>Sales Order #:</b> 8473962	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 9/17/2011
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> JEFF		<b>API / UWI: (leave blank if unknown)</b> AFEYSTT400JTLYIKAAA
<b>Well Name:</b> CC		<b>Well Number:</b> 697-08-52A
<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	9/17/2011
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	JEFF
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	LATE GETTING CEMENT AND EQUIPMENT TO LOCATION 2 HOURS
Job DVA	Did we provide job DVA above our normal service today? Circle Y or N	Yes
Time	Please enter hours in decimal format to nearest quarter hour.	0
Other	Enter short text for other efficiencies gained.	0
Customer Initials	Customer's Initials	0
Please provide details	Please describe how the job efficiencies were gained.	SUPERVISOR WORKED WITH US TO DO OUR FRIST OFFLINE CEMENT JOB