
OXY GRAND JUNCTION EBUSINESS

**CC 697-09-40
GRAND VALLEY
Garfield County , Colorado**

**Cement Surface Casing
03-Jul-2011**

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 2825582	Quote #:	Sales Order #: 8225206
Customer: OXY GRAND JUNCTION EBUSINESS	Customer Rep: Benevides, Victor		
Well Name: CC	Well #: 697-09-40	API/UWI #: 05-045-18136	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.535 deg. OR N 39 deg. 32 min. 6.209 secs.	Long: W 108.222 deg. OR W -109 deg. 46 min. 40.44 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: ROYSTER, JACOB	Srvc Supervisor: YOUNG, JEREMY	MBU ID Emp #: 418013	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BATH, KYLE Thomas	15.5	477632	SIMINEO, JEROD M	15.5	479954	SLAUGHTER, JESSE Dean	15.5	454315
YOUNG, JEREMY R	15.5	418013						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10297346	120 mile	10713294	120 mile	10856450	120 mile	10867322	120 mile
10867423	120 mile	10897887	120 mile	10951245	120 mile	10998512	120 mile
11071559	120 mile	11560046	120 mile	11562538	120 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
07/02/2011	1.5	0	07/03/2011	14	8			
TOTAL			Total is the sum of each column separately					

Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To
				BHST	2721. ft	2721. ft	6. ft			

Job Times

Date	Time	Time Zone
02 - Jul - 2011	17:00	MST
02 - Jul - 2011	22:45	MST
03 - Jul - 2011	03:55	MST
03 - Jul - 2011	12:06	MST
03 - Jul - 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
14 3/4" Open Hole				14.75				.	2735.		
9 5/8" Surface Casing	New		9.625	8.921	36.		J-55	.	2721.		

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	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	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									
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	FRESH WATER	20.00	bbl	8.33	.0	.0	2.5	
2	Gel Spacer	GEL WATER	20.00	bbl	8.4	.0	.0	4	
3	Water Spacer	FRESH WATER	20.00	bbl	8.33	.0	.0	4	
4	Lead Cement	VERSACEM (TM) SYSTEM (452010)	1050.0	sacks	12.3	2.33	12.62	6	12.62
		12.62 Gal	FRESH WATER						
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	169.0	sacks	12.8	2.07	10.67	6	10.67
		10.67 Gal	FRESH WATER						
6	Displacement	FRESH WATER	207.1	bbl	8.33	.0	.0	6	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)	100	sacks	12.5	1.97	10.96	3	10.96
		10.96 Gal	FRESH WATER						
Calculated Values		Pressures		Volumes					
Displacement	207.1	Shut In: Instant		Lost Returns	YES	Cement Slurry	533.1	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	5	Actual Displacement	207.1	Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	803.2
Rates									
Circulating		Mixing	6	Displacement	6	Avg. Job	6		
Cement Left In Pipe	Amount	41.4 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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Well Name: CC	Well #: 697-09-40	API/UWI #: 05-045-18136	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.535 deg. OR N 39 deg. 32 min. 6.209 secs.		Long: W 108.222 deg. OR W -109 deg. 46 min. 40.44 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: ROYSTER, JACOB		Srv Supervisor: YOUNG, JEREMY	MBU ID Emp #: 418013

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	07/02/2011 17:00							TD 2735 FT, TP 2721 FT, SHOE 41.40 FT, HOLE 14 3/4 IN, MUD WT 9.1 PPG, CSG 9 5/8 IN 36 LB/FT
Pre-Convoy Safety Meeting	07/02/2011 19:50							WITH ALL HES PERSONNEL
Crew Leave Yard	07/02/2011 20:00							
Arrive At Loc	07/02/2011 22:45							RIG WAS RUNNING CASING UPON HES ARRIVAL
Assessment Of Location Safety Meeting	07/03/2011 02:10							WITH ALL HES PERSONNEL
Other	07/03/2011 02:20							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	07/03/2011 02:30							WITH ALL HES PERSONNEL
Rig-Up Equipment	07/03/2011 02:40							
Pre-Job Safety Meeting	07/03/2011 03:40							WITH ALL PERSONNEL ON LOCATION
Start Job	07/03/2011 03:55							
Other	07/03/2011 03:55		2	2			32.0	FILL LINES WITH FRESH WATER
Test Lines	07/03/2011 03:57							TESTED LINES TO 3000 PSI PRESSURE HOLDING
Pump Spacer 1	07/03/2011 04:03		2.5	20			41.0	FRESH WATER
Pump Spacer 2	07/03/2011 04:12		4	20			71.0	GEL WATER
Pump Spacer 1	07/03/2011 04:17		4	20			100.0	FRESH WATER

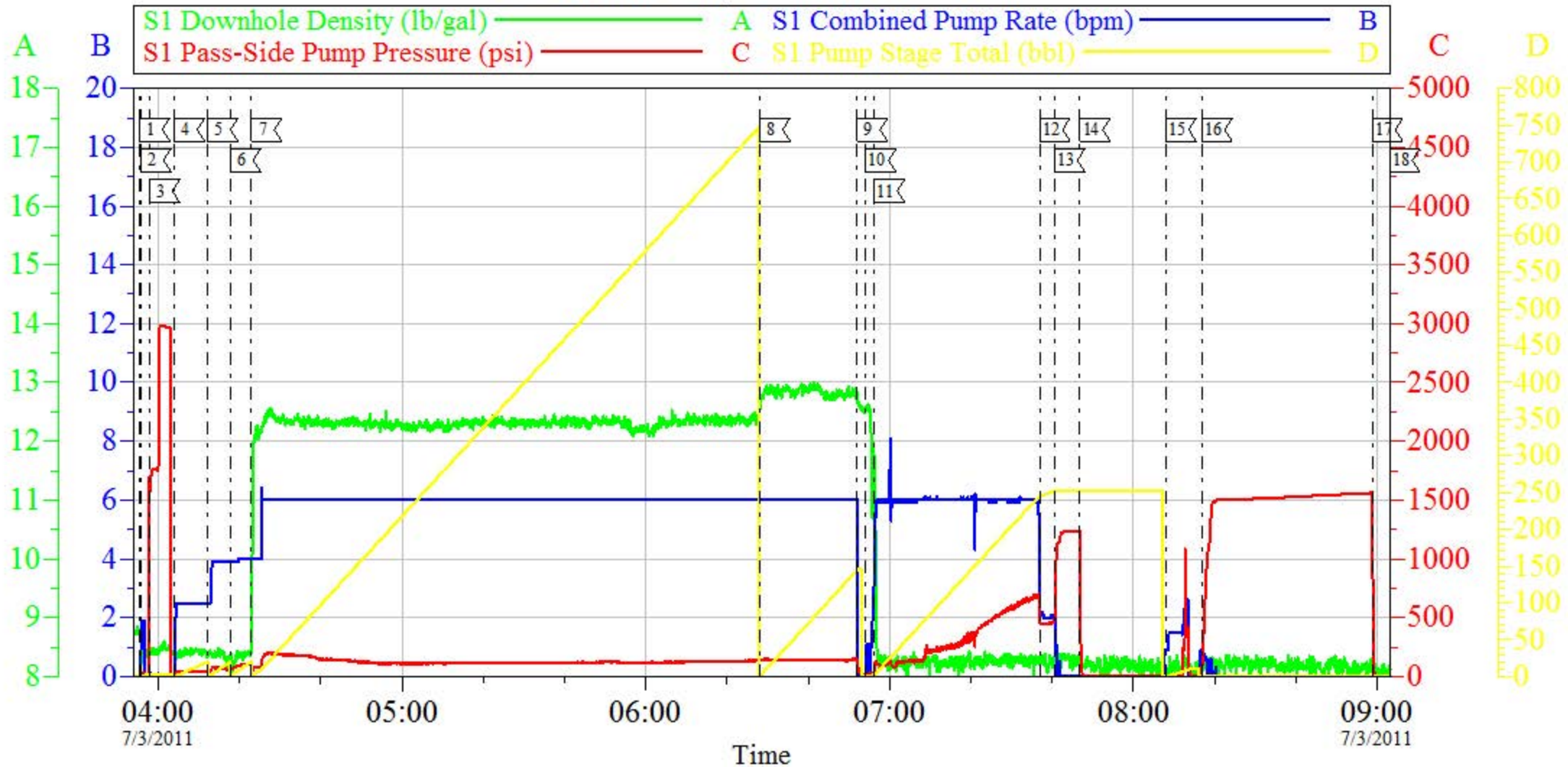
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	07/03/2011 04:22		6	435.7			120.0	1050 SKS, AT 12.3 PPG, 2.33 FT3/SK, 12.62 GAL/SK, 7 BOXES OF TUFF FIBER IN LEAD CEMENT
Pump Tail Cement	07/03/2011 06:28		6	62.3			145.0	169 SKS, AT 12.8 PPG, 2.07 FT3/SK, 10.67 GAL/SK
Shutdown	07/03/2011 06:52							
Drop Top Plug	07/03/2011 06:54							PLUG LAUNCHED
Pump Displacement	07/03/2011 06:56		6	197.1			700.0	FRESH WATER
Slow Rate	07/03/2011 07:36		2	10			463.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	07/03/2011 07:40		2		207.1		1220.0	PLUG BUMPED
Check Floats	07/03/2011 07:46							FLOATS HOLDING. RETURN 1 BBL H2O TO PUMP
Pump Water	07/03/2011 08:08		2.5	10			1080.0	PUMP 10 BBL SUGAR WATER DOWN PARASITE STRING
Pressure Test	07/03/2011 08:16						1500.0	PRESSURE TEST CASING TO 1500 PSI FOR 30 MIN AS PER COMPANY REP
Release Casing Pressure	07/03/2011 08:58							
End Job	07/03/2011 09:03							PIPE WAS STATIC THROUGH OUT JOB, NO CIRCULATION WHILE PUMPING CEMENT. CIRCULATION WAS INTERMITTENT THROUGHOUT DISPLACEMENT, HES RETURNED NO CEMENT TO SURFACE
Start Job	07/03/2011 11:00							TOPOUT JOB #1
Pump Water	07/03/2011 11:01		1	1			1.0	PUMP WATER AHEAD TO CLEAR LINES

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	07/03/2011 11:03							SHUTDOWN TO MIX UP CEMENT TUB
Pump Cement	07/03/2011 11:05		3	25			79.0	100 SKS AT 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK
Shutdown	07/03/2011 11:24							SHUTDOWN TO SEE IF CEMENT FALLS BACK AS PER COMPANY REP
Resume	07/03/2011 11:40		2	5			36.0	RESUME PUMPING AFTER CEMENT FELL
Shutdown	07/03/2011 11:43							SHUTDOWN TO SEE IF CEMENT FALLS BACK
Resume	07/03/2011 11:53		2	5.1			34.0	RESUME PUMPING AFTER CEMENT FELL BACK
Shutdown	07/03/2011 12:00							SHUTDOWN TO SEE IF CEMENT FALLS BACK AS PER COMPANY REP
Pump Water	07/03/2011 12:04		2	2			34.0	PUMP WATER BEHIND TO CLEAR LINES
Shutdown	07/03/2011 12:05							
End Job	07/03/2011 12:06							HES RETURNED 5 BBLS CEMENT TO SURFACE
Pre-Rig Down Safety Meeting	07/03/2011 12:15							WITH ALL HES PERSONNEL
Rig-Down Equipment	07/03/2011 12:20							
Pre-Convoy Safety Meeting	07/03/2011 13:50							WITH ALL HES PERSONNEL
Crew Leave Location	07/03/2011 14:00							HES LEFT APPROX. 350 SKS OF TOPOUT CEMENT ON LOCATION
Comment	07/03/2011 14:01							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. JEREMY YOUNG AND CREW.

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job					
6	Test Lines	3000 PSI				
9	H2O Spacer	20.0		8.33		
10	GEL SPACER	20.0		8.4		
9	H2O SPACER	20.0		8.33		
13	Lead Cement	435.7	1050	12.3	2.33	12.62
15	Tail Cement	62.3	169	12.8	2.07	10.67
	SHUTDOWN/DROP PLUG					
22	Displace with H2O	207.1		8.33		
23	Slow rate	197.1				
26	Land Plug	563 PSI	GO	500	PSI	OVER
	Release Psi / Job Over					
			Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH		FLOAT COLLAR	BBL/FT	H2O REQ.
207.13	2721	41.40		2679.60	0.0773	781 BBL
PSI to Lift Pipe	1158 PSI	***** <u>Use Mud Scales on Each Tier</u> *****				
Total Displacement	207.13					
CALCULATED DIFFERENTIAL PSI		563 PSI		TOTAL FLUID PUMPED		765 BBL
Collapse		Burst			SO#	8225206

OXY

CC 697-09-40, 9 5/8 SURFACE



Local Event Log

1 START JOB	03:55:20	2 FILL LINES	03:55:38	3 TEST LINES	03:57:46
4 PUMP H2O SPACER 1	04:03:56	5 PUMP GEL SPACER	04:12:08	6 PUMP H2O SPACER 2	04:17:40
7 PUMP LEAD CEMENT	04:22:54	8 PUMP TAIL CEMENT	06:28:03	9 SHUTDOWN	06:52:02
10 DROP TOP PLUG	06:54:08	11 PUMP DISPLACEMENT	06:56:14	12 SLOW RATE	07:36:57
13 BUMP PLUG	07:40:36	14 CHECK FLOATS	07:46:52	15 PUMP DOWN PARASITE STRING	08:08:01
16 PRESSURE TEST CASING	08:16:52	17 RELEASE PRESSURE	08:58:50	18 END JOB	09:03:03

Customer: OXY
Well Description: CC 697-09-40
Customer Rep: VICTOR BENEVIDES

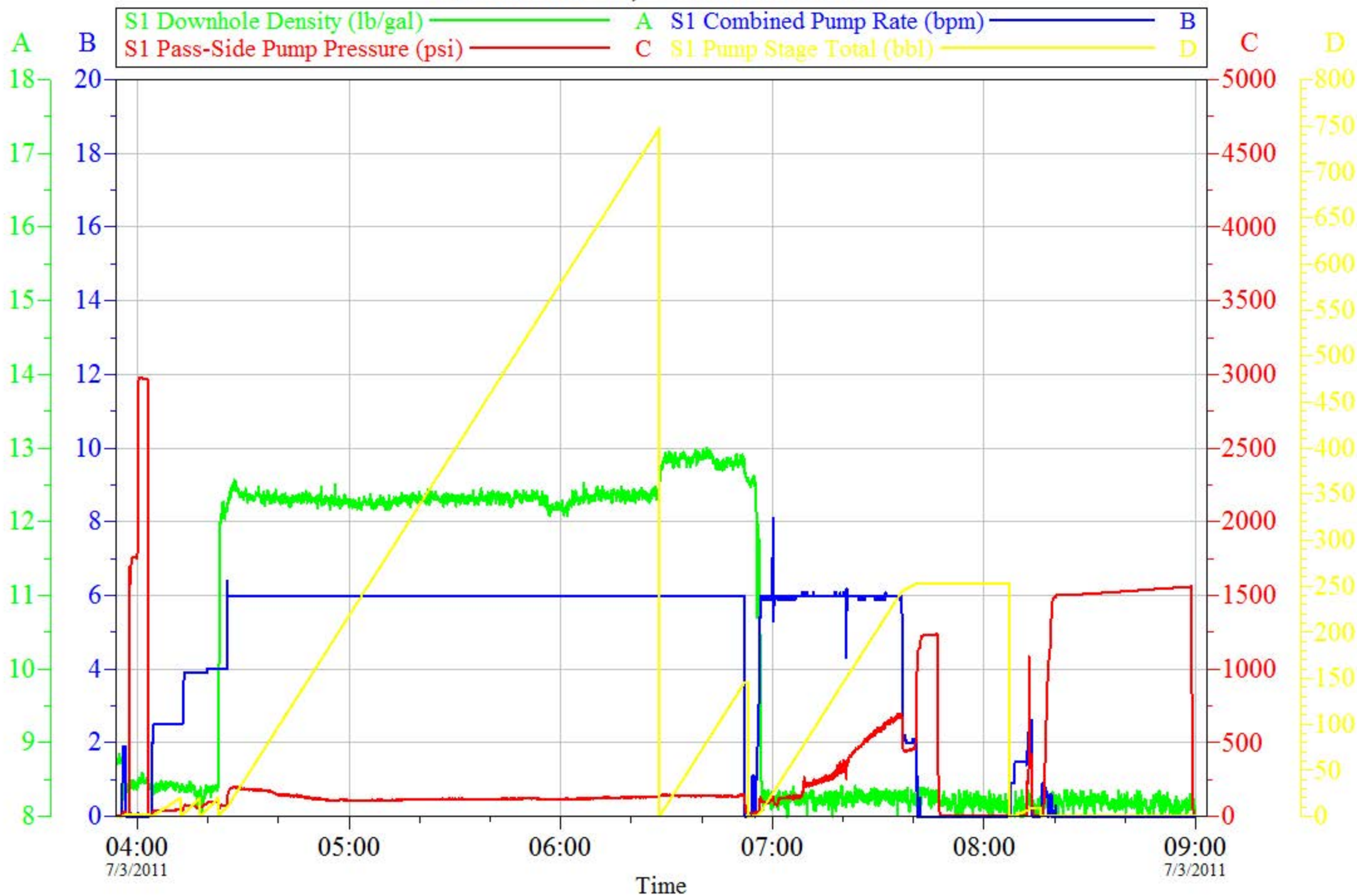
Job Date: 03-Jul-2011
Job Type: SURFACE
Service Supervisor: JEREMY YOUNG

Sales Order #: 8225206
ADC Used: YES
Pump #/Operator: 5/KYLE BATH

OptiCem v6.4.10
03-Jul-11 09:15

OXY

CC 697-09-40, 9 5/8 SURFACE



Customer: OXY
Well Description: CC 697-09-40
Customer Rep: VICTOR BENEVIDES

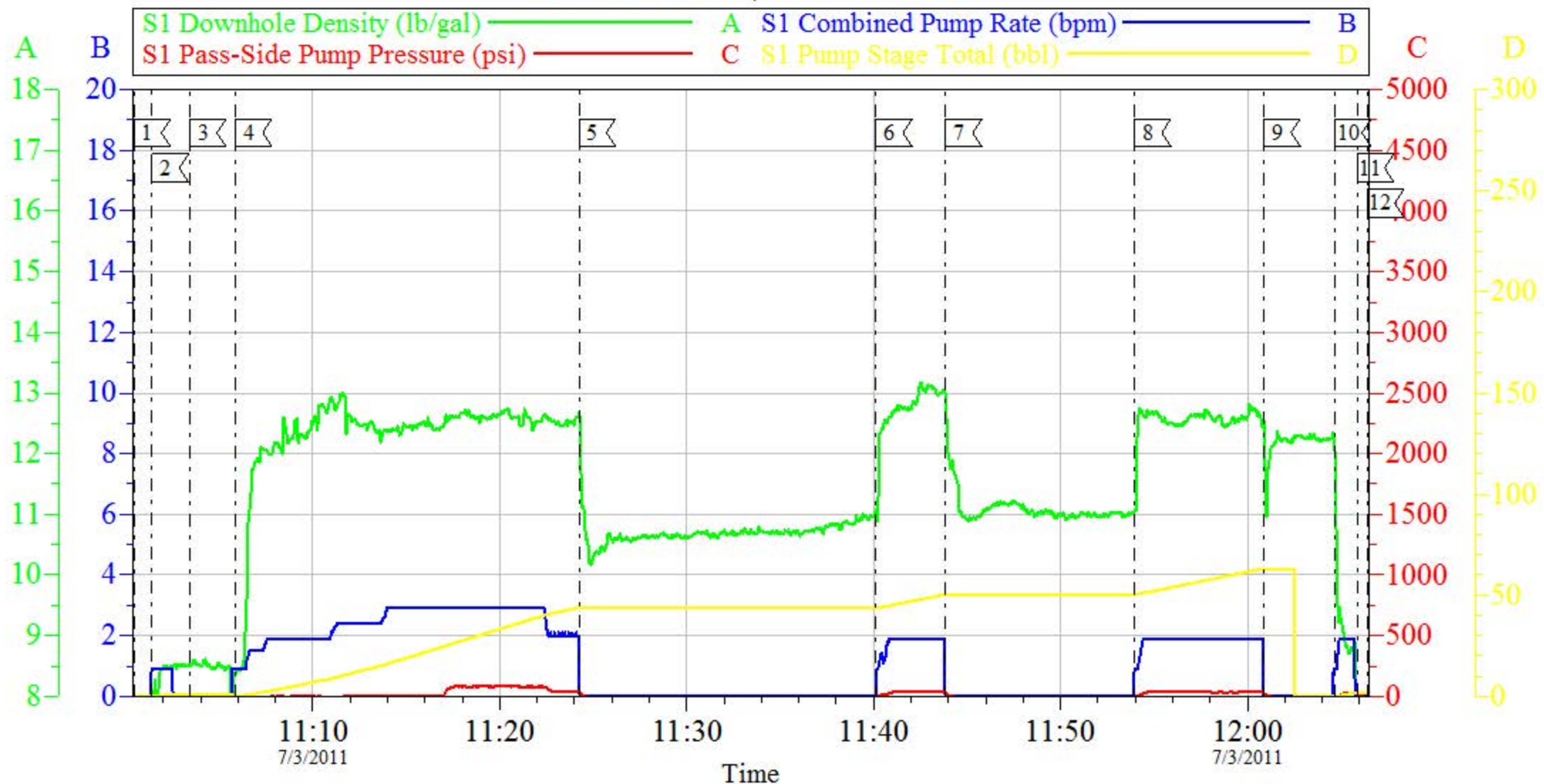
Job Date: 03-Jul-2011
Job Type: SURFACE
Service Supervisor: JEREMY YOUNG

Sales Order #: 8225206
ADC Used: YES
Pump #/Operator: 5/KYLE BATH

OptiCem v6.4.10
03-Jul-11 09:03

OXY

CC 697-09-40, TOPOUT #1



Local Event Log

1 START JOB	11:00:26	2 PUMP WATER AHEAD	11:01:23	3 SHUTDOWN	11:03:24
4 PUMP CEMENT	11:05:51	5 SHUTDOWN	11:24:14	6 RESUME PUMPING	11:40:06
7 SHUTDOWN	11:43:50	8 RESUME PUMPING	11:53:57	9 SHUTDOWN	12:00:52
10 PUMP WATER BEHIND	12:04:40	11 SHUTDOWN	12:05:52	12 END JOB	12:06:24

Customer: OXY
Well Description: CC 697-09-40
Customer Rep: VICTOR BENEVIDES

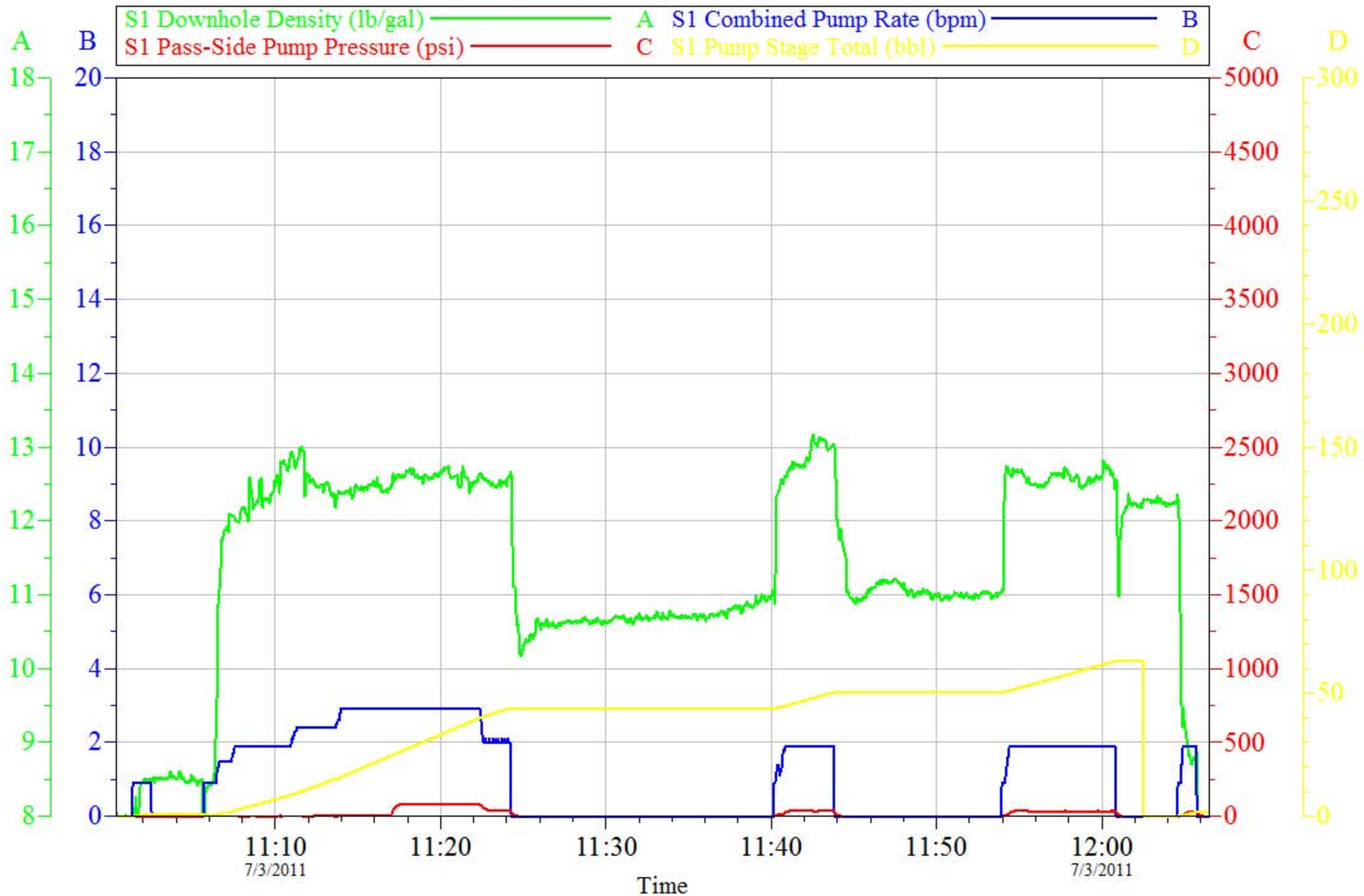
Job Date: 03-Jul-2011
Job Type: TOPOUT
Service Supervisor: JEREMY YOUNG

Sales Order #: 8225206
ADC Used: YES
Pump #/Operator: 5/KYLE BATH

OptiCem v6.4.10
03-Jul-11 12:20

OXY

CC 697-09-40, TOPOUT #1



Customer: OXY
 Well Description: CC 697-09-40
 Customer Rep: VICTOR BENEVIDES

Job Date: 03-Jul-2011
 Job Type: TOPOUT
 Service Supervisor: JEREMY YOUNG

Sales Order #: 8225206
 ADC Used: YES
 Pump #/Operator: 5/KYLE BATH

OptiCem v6.4.10
 03-Jul-11 12:20

HALLIBURTON

Water Analysis Report

Company: OXY

Submitted by: JEREMY YOUNG

Attention: LAB

Lease CC

Well # 697-40-09

Date: 7/3/2011

Date Rec.:

S.O.# 8225206

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	250 Mg / L
Calcium (Ca)	<i>500</i>	120 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	UNDER 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	50 Deg
Total Dissolved Solids		80 Mg / L

Respectfully: JEREMY YOUNG

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 its

Sales Order #: 8225206	Line Item: 10	Survey Conducted Date: 7/3/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: VICTOR BENAVIDES		API / UWI: (leave blank if unknown) 05-045-18136
Well Name: CC		Well Number: 697-09-40
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	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	7/3/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	JEREMY YOUNG (HX37077)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	VICTOR BENAVIDES
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.	

CUSTOMER SIGNATURE

Sales Order #: 8225206	Line Item: 10	Survey Conducted Date: 7/3/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: VICTOR BENAVIDES		API / UWI: (leave blank if unknown) 05-045-18136
Well Name: CC		Well Number: 697-09-40
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	7/3/2011

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.	8
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.	6
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	8
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

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Customer Representative: VICTOR BENAVIDES		API / UWI: (leave blank if unknown) 05-045-18136
Well Name: CC		Well Number: 697-09-40
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	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	95
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	95
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