
OXY GRAND JUNCTION EBUSINESS

**CC 697-09-23B
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing **07-Jul-2011**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 344034		Ship To #: 2825578		Quote #:		Sales Order #: 8304845	
Customer: OXY GRAND JUNCTION EBUSINESS				Customer Rep: ADAMS, DEREK			
Well Name: CC			Well #: 697-09-23B			API/UWI #: 05-045-20076	
Field: GRAND VALLEY		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
Lat: N 39.535 deg. OR N 39 deg. 32 min. 6.349 secs.				Long: W 108.222 deg. OR W -109 deg. 46 min. 40.109 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: METLI, MARSHALL			Srvc Supervisor: MUHLESTEIN, RYAN			MBU ID Emp #: 453609	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BROWN, TRAVIS A	12	396848	CHASTAIN, DERICK Allan	12	455848	DEUSSEN, EDWARD Eric	12	485182
MUHLESTEIN, RYAN Herrick	12	453609						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10011429	120 mile	10551730C	120 mile	10713294	120 mile	10856450	120 mile
10867322	120 mile	10973571	120 mile	10998512	120 mile	11259885	120 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
7/7/2011	11	6	7/8/11	1	1			

TOTAL Total is the sum of each column separately

Job				Job Times			
Formation Name				Date	Time	Time Zone	
Formation Depth (MD)	Top	Bottom		Called Out	07 - Jul - 2011	06:30	MST
Form Type	BHST			On Location	07 - Jul - 2011	13:00	MST
Job depth MD	2730. ft			Job Started	07 - Jul - 2011	18:53	MST
Water Depth	Wk Ht Above Floor			Job Completed	07 - Jul - 2011	23:40	MST
Perforation Depth (MD)	From	To		Departed Loc	08 - Jul - 2011	01:00	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 SECTION				14.75				.	2730.	.	2730.
SURFACE CASING	Unknown		9.625	8.921	36.		J-55	.	2706.	.	2706.

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		
R/A DENSOMETER W/CHART RECORDER, /JOB, ZI	1	JOB		
PORT. DATA ACQUIS. W/OPTICEM RT W/HES	1	EA		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe				2706	Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar				2666	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				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	4.0			
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)			169.0	sacks	12.8	2.07	10.67	7.0	10.67		
10.67 Gal		FRESH WATER											
6	Displacement				206.00	bbl	8.4	.0	.0	7.0			
7	Topout Cement	HALCEM (TM) SYSTEM (452986)			50.0	sacks	12.5	1.97	10.96	2.0	10.96		
10.96 Gal		FRESH WATER											
Calculated Values			Pressures			Volumes							
Displacement	206.1	Shut In: Instant				Lost Returns	70	Cement Slurry	515	Pad			
Top Of Cement	SURFACE	5 Min				Cement Returns	122	Actual Displacement	206.1	Treatment			
Frac Gradient		15 Min				Spacers	60	Load and Breakdown		Total Job	781.5		
Rates													
Circulating	6	Mixing		7.5		Displacement	6	Avg. Job		6			
Cement Left In Pipe	Amount	40 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								

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Legal Description:			
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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: METLI, MARSHALL		Srv Supervisor: MUHLESTEIN, RYAN	MBU ID Emp #: 453609

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	07/07/2011 06:30							
Pre-Convoy Safety Meeting	07/07/2011 09:00							ALL HES EE'S
Arrive At Loc	07/07/2011 13:00							RIG STILL RUNNING
Pre-Rig Up Safety Meeting	07/07/2011 13:30							ALL HES EE'S
Rig-Up Equipment	07/07/2011 14:00							1 HT 400 PUMP, 2 BULK STORAGE BINS, 1 F-450 PICK-UP, 1 PLUG CONTAINER, 2" IRON TO STAND PIPE AND CELLAR
Circulate Well	07/07/2011 18:15							RIG CIRCULATED WELL 30 MINS PRIOR TO CMT JOB 80 PSI 6 BPM. MUD REPORT 9.2 PPG, PV 14, YP 17
Pre-Job Safety Meeting	07/07/2011 18:40							ALL HES EE'S, RIG CREW AND CO REP
Start Job	07/07/2011 18:53							TD-2730' TP-2706' SJ-40' FC 2666' OH 14.75" CASING 9 5/8" 36# J-55
Pump Water	07/07/2011 18:54		2	2			62.0	FRESH H2O TO FILL LINES
Test Lines	07/07/2011 18:55							HELD 3835 PSI FOR 2 MIN, NO LEAKS
Pump Spacer 1	07/07/2011 19:02		4	20			130.0	FRESH H2O
Pump Spacer 2	07/07/2011 19:07		4	20			120.0	LGC GEL SPACER 5 GAL PER 20 BBLS
Pump Spacer 1	07/07/2011 19:12		4	20			92.0	FRESH H2O

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	07/07/2011 19:18		7	435.7			362.0	1050 SKS 12.3 PPG 2.33 FT3/SK 12.62 GAL/SK, NO TUFF FIBER USED, 70 BBLS LOST RETURNS
Pump Tail Cement	07/07/2011 20:20		7	62.3			412.0	169 SKS 12.8 PPG 2.07 FT3/SK 10.67 GAL/SK
Shutdown	07/07/2011 20:28							
Drop Top Plug	07/07/2011 20:31							VERIFY PLUG LAUNCHED
Pump Displacement	07/07/2011 20:32		7	206.1			760.0	FRESH H2O DISPLACEMENT, GOOD RETURNS, 115 BBLS CEMENT TO SURFACE, RATES PER CO. REP
Slow Rate	07/07/2011 21:08		2	186			626.0	
Bump Plug	07/07/2011 21:18		2	206.1			1260.0	PLUG BUMPED AT 760 PSI PRESSURED UP TO 1260 PSI
Check Floats	07/07/2011 21:24							FLOATS HELD, 1 BBL BACK TO PUMP TRUCK
Pump Water	07/07/2011 21:31		10	2			350.0	PUMP SUGAR WATER THRU PARASITE LINE, CIRCULATED AT 350 PSI, FLOW NOTED TO SURFACE AT 6 BBLS AWAY
Other	07/07/2011 21:35							410 PSI TO CLEAR PARASITE
Shutdown	07/07/2011 21:37							
Pressure Test	07/07/2011 21:41						1483.0	PRESSURE TEST CASING PER CO. REP REQUEST, HELD PRESSURE 30 MINS
Release Casing Pressure	07/07/2011 22:05							
Other	07/07/2011 22:06							WAITING TO TOPOUT
Start Job	07/07/2011 23:22							START TOP OUT
Pump Cement	07/07/2011 23:23		2	17.5			55.0	50 SKS 12.5 PPG 1.97 FT3/SK 10.96 GAL/SK ALREADY ON LOC.

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	07/07/2011 23:27							
Pump Cement	07/07/2011 23:32							START STAGE PUMPING
Shutdown	07/07/2011 23:33							
Pump Cement	07/07/2011 23:39							START STAGE PUMPING
Shutdown	07/07/2011 23:40							7 BBL TO SURFACE, STAGE PUMP 3 TIMES
End Job	07/07/2011 23:41							2 ADD HRS, NO DERRICK CHRG, 50 LBS SUGAR USED
Pre-Rig Down Safety Meeting	07/07/2011 23:50							ALL HES EE'S
Rig-Down Equipment	07/07/2011 23:59							
Pre-Convoy Safety Meeting	07/08/2011 00:45							ALL HES EE'S
Crew Leave Location	07/08/2011 01:00							THANKS FOR USING HALLIBURTON CEMENT, RYAN MUHLESTEIN AND CREW

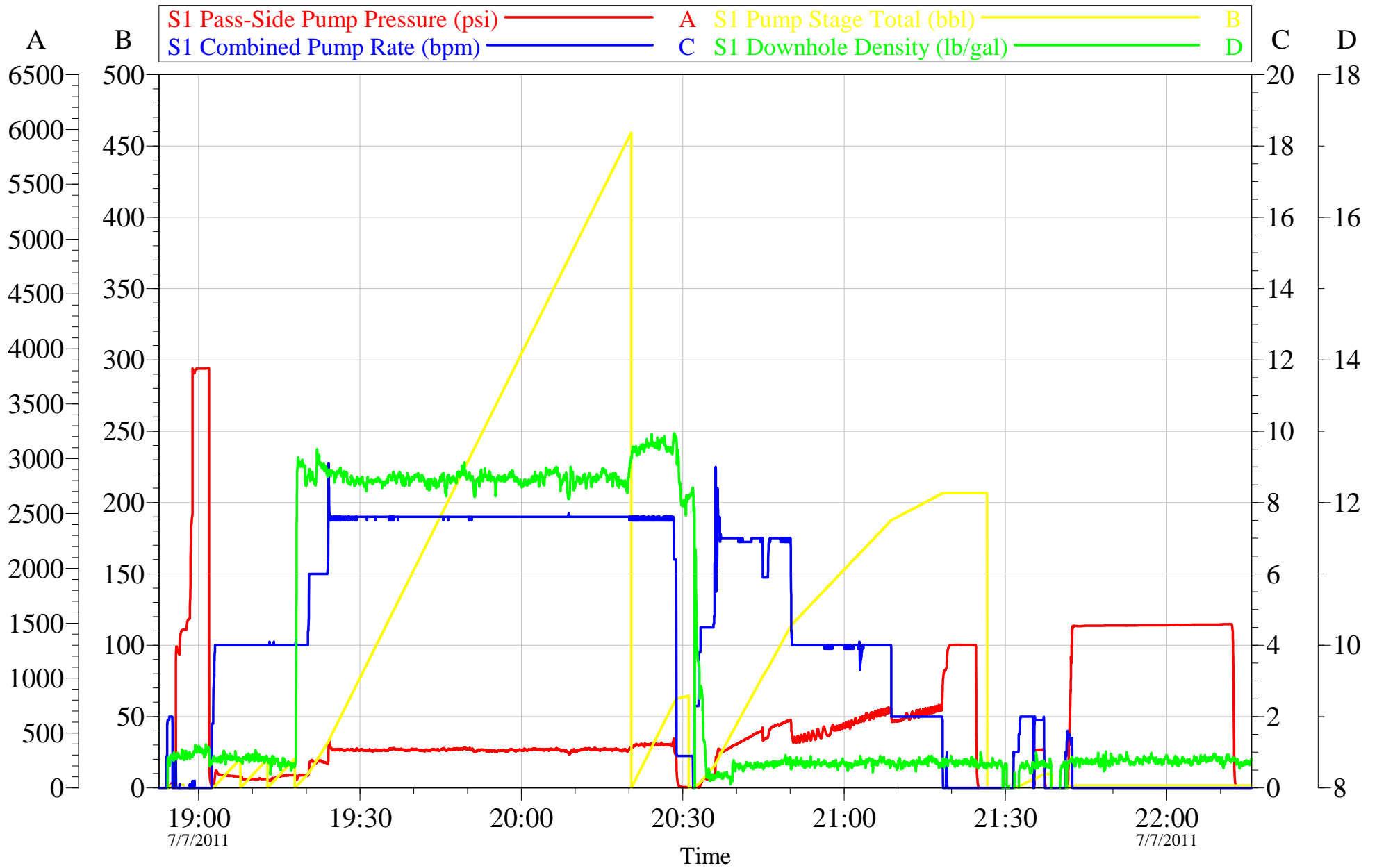
HP 330

Pre-Planned Job Procedure Single Stage

EVENT	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job		Density Over Rate			
	Fill Lines	2				
6	Test Lines	3000				
9	H2O Spacer	20		8.4		
10	GEL SPACER	20		8.4		
9	H2O Spacer	20		8.4		
13	Lead Cement	435.7	1050	12.3	2.33	12.62
15	Tail Cement	62.3	169	12.8	2.07	10.67
	Drop Plug					
22	Displacement	206.1		Mud Wt.	9.2	
1085	Slow Rate	196		Casing	9.625	36
26	Bump Plug	545		Disp Fluid	8.4	
	Check Floats	+ 500 PSI				
2	End Job					
			Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH		ANN FACTOR	BBL/FT	H2O REQ.
206.1	2706	40.00		0.1214	0.0773	675
PSI to Lift Pipe	1151	*****Use Mud Scales on Each Tier*****				
Total Displacement	206.08					
CALCULATED DIFFERENTIAL PSI		545		TOTAL FLUID PUMPED		764
HOT	488	TOT	2218	Co. Rep.:	VICTOR BENEVIDES	
HOL	3589	TOL	0		SO#	8304845

Customer

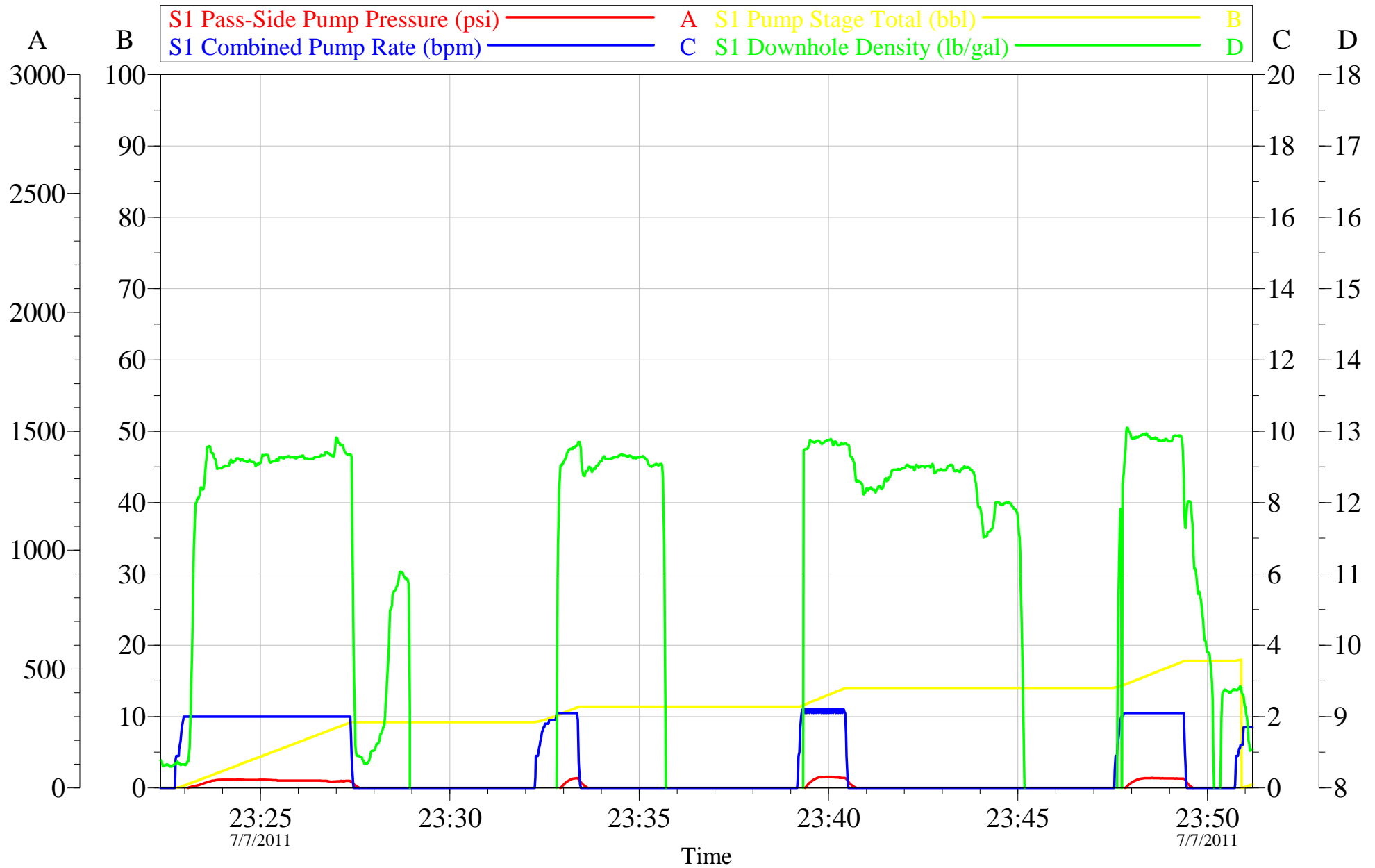
Job Type



Customer:	Job Date: 07-Jul-2011	Sales Order #: 8304845
Well Description:	Job Type:	ADC Used:
Customer Rep:	Cement Supervisor:	Elite/Operator:

Customer

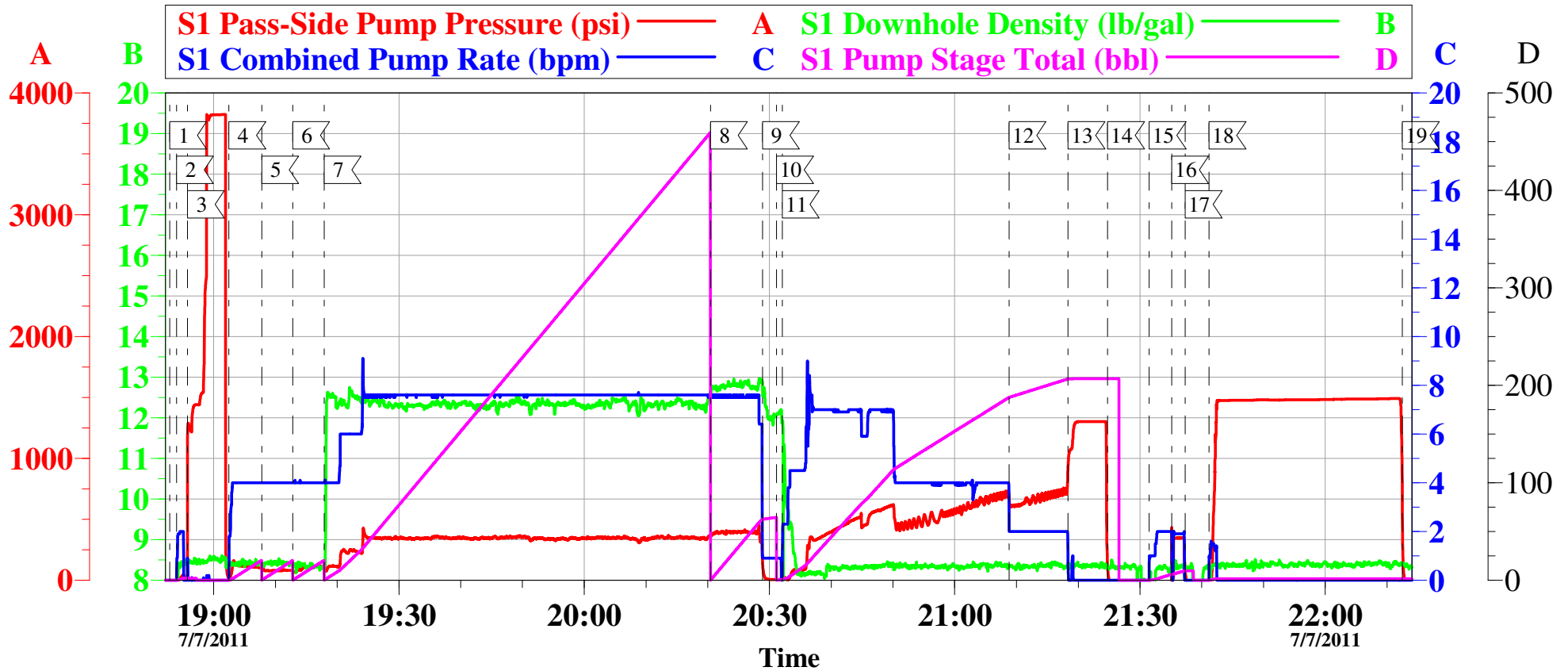
Job Type



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Well Description:	Job Type:	ADC Used:
Customer Rep:	Cement Supervisor:	Elite/Operator:

OXY

CC 697-09-23B 9 5/8" SURFACE CASING



Customer: OXY
Well Description: CC 697-09-23B
Customer Rep: VICTOR BENEVIDES

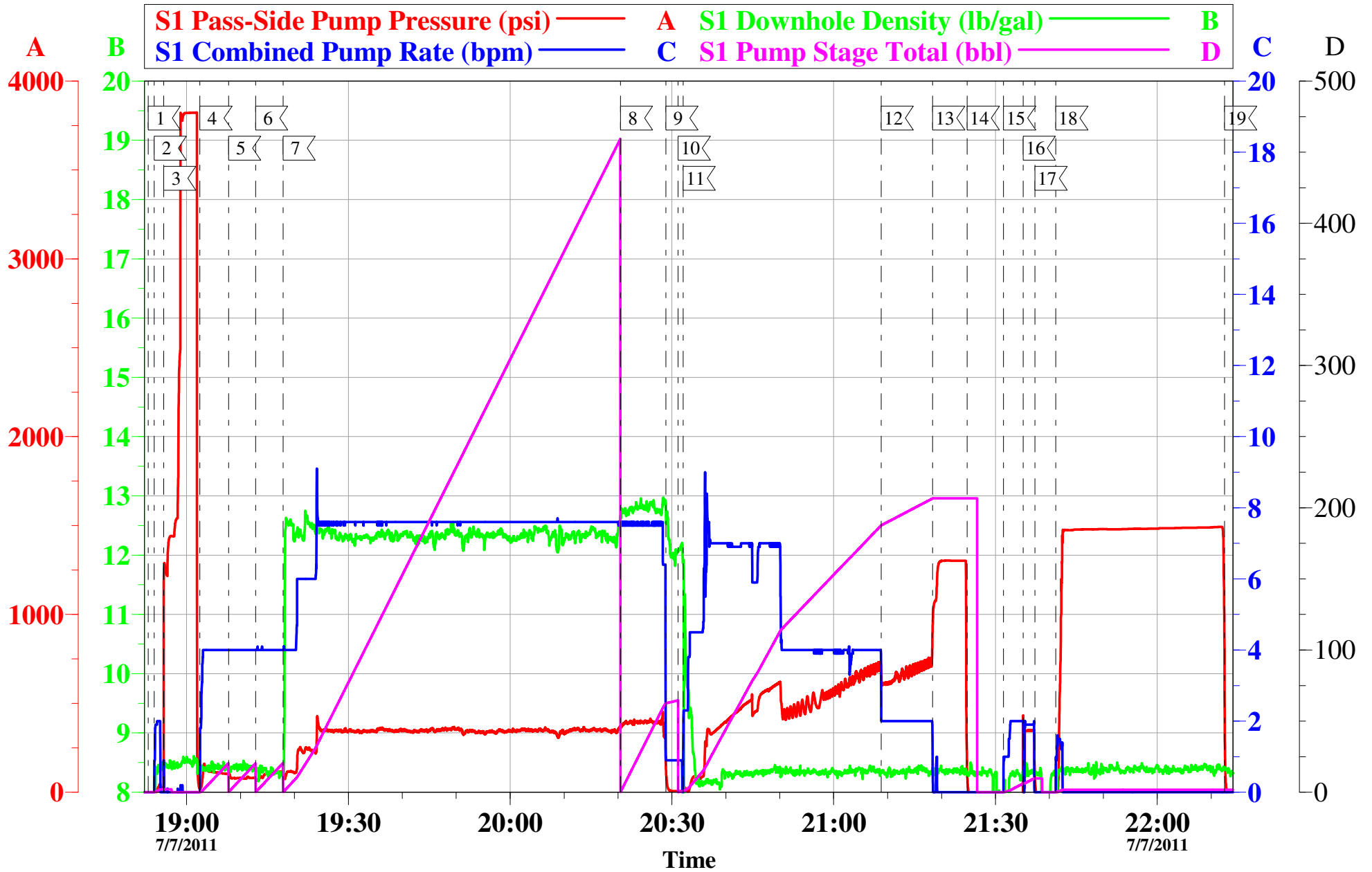
Job Date: 07-Jul-2011
Job type: SURFACE
Service Supervisor: RYAN MUHLESTEIN

Sales Order #: 8304845
ADC Used: YES
Operator/ Pump: ED DEUSSEN/ ELITE 2

OptiCem v6.4.10
07-Jul-11 23:11

OXY

CC 697-09-23B 9 5/8" SURFACE CASING



Customer: OXY
Well Description: CC 697-09-23B
Customer Rep: VICTOR BENEVIDES

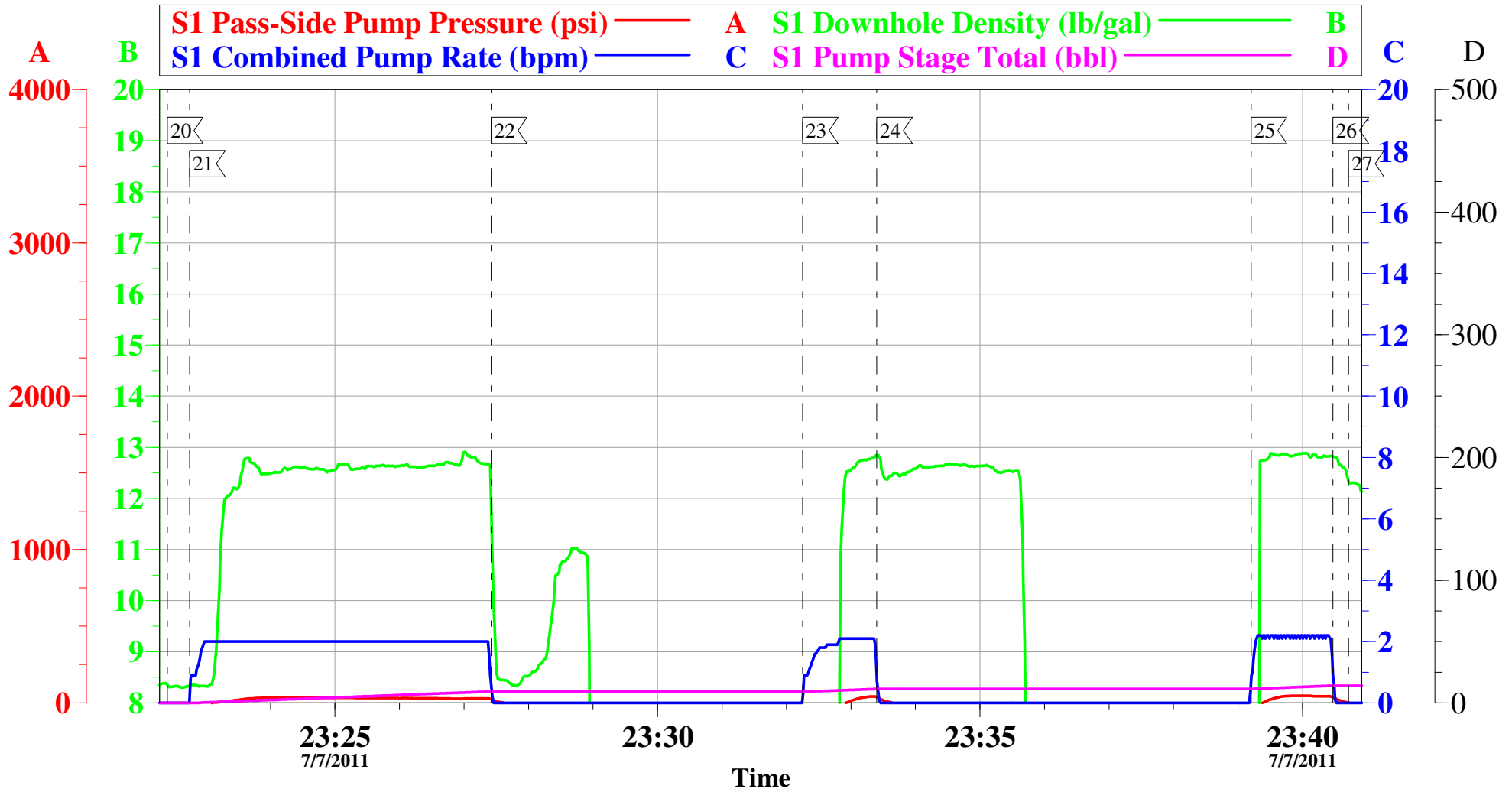
Job Date: 07-Jul-2011
Job type: SURFACE
Service Supervisor: RYAN MUHLESTEIN

Sales Order #: 8304845
ADC Used: YES
Operator/ Pump: ED DEUSSEN/ ELITE 2

OptiCem v6.4.10
07-Jul-11 23:11

OXY

CC 697-09-23B 9 5/8" SURFACE CASING



Local Event Log

20 START TOP OUT 1	23:22:24	21 PUMP TOP OUT CMT	23:22:45	22 SHUT DOWN	23:27:25
23 START STAGE PUMPING	23:32:15	24 SHUT DOWN	23:33:24	25 START STAGE PUMPING	23:39:12
26 SHUT DOWN	23:40:28	27 END JOB	23:40:43		

Customer: OXY
Well Description: CC 697-09-23B
Customer Rep: VICTOR BENEVIDES

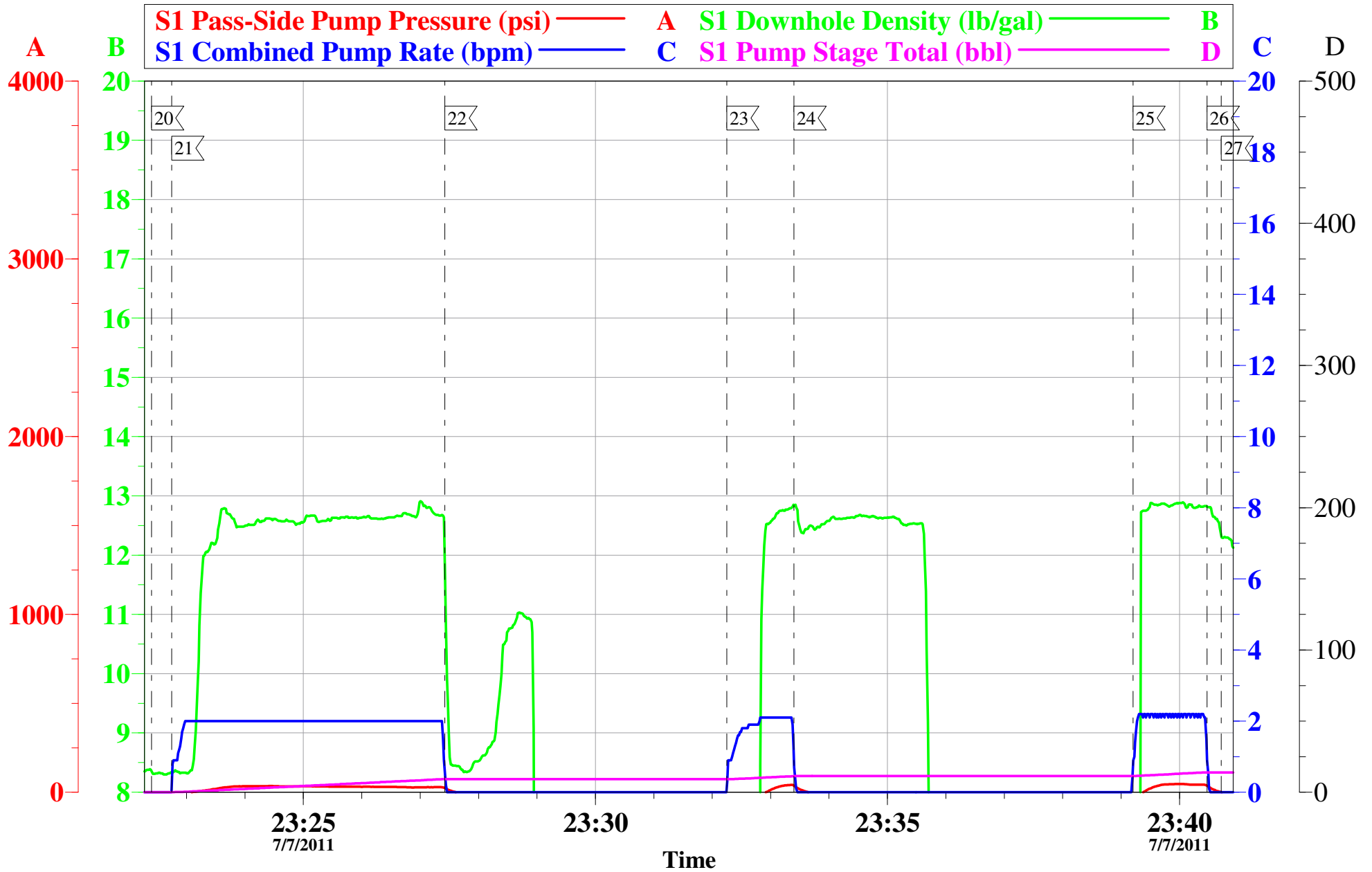
Job Date: 07-Jul-2011
Job type: SURFACE
Service Supervisor: RYAN MUHLESTEIN

Sales Order #: 8304845
ADC Used: YES
Operator/ Pump: ED DEUSSEN/ ELITE 2

OptiCem v6.4.10
08-Jul-11 00:01

OXY

CC 697-09-23B 9 5/8" SURFACE CASING



Customer: OXY
Well Description: CC 697-09-23B
Customer Rep: VICTOR BENEVIDES

Job Date: 07-Jul-2011
Job type: SURFACE
Service Supervisor: RYAN MUHLESTEIN

Sales Order #: 8304845
ADC Used: YES
Operator/ Pump: ED DEUSSEN/ ELITE 2

OptiCem v6.4.10
08-Jul-11 00:01

HALLIBURTON

Water Analysis Report

Company: OXY

Submitted by: RYAN MUHLESTEIN

Attention: J. Trout

Lease CASCADE CREEK

Well # 697-09-23B

Date: 7/7/2011

Date Rec.: 7/7/2011

S.O.# 8304845

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	200 Mg / L
Calcium (Ca)	<i>500</i>	400 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	below 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	65 Deg
Total Dissolved Solids		550 Mg / L

Respectfully: RYAN MUHLESTEIN

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 #: 8304845	Line Item: 10	Survey Conducted Date: 7/8/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: DEREK ADAMS		API / UWI: (leave blank if unknown) 05-045-20076
Well Name: CC		Well Number: 697-09-23B
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	7/8/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	RYAN MUHLESTEIN (HB21105)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	DEREK 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	GOOD JOB, SOLID COMMUNICATION WITH DSM.
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

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H2S Present: No	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	7/8/2011

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.	7
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.	4
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	6
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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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	98
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	98
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