
OXY GRAND JUNCTION EBUSINESS

**CC 697-08-58A
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing **21-Sep-2011**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 344034		Ship To #: 8474644		Quote #:		Sales Order #: 8474644	
Customer: OXY GRAND JUNCTION EBUSINESS				Customer Rep: Benevides, Victor			
Well Name: CC			Well #: 697-08-58A			API/UWI #: 05-045-20063	
Field: GRAND VALLEY		City (SAP):		County/Parish: Garfield			State: Colorado
Lat: N 39.534 deg. OR N 39 deg. 32 min. 2.051 secs.				Long: W 108.242 deg. OR W -109 deg. 45 min. 29.275 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: SLAUGHTER, JESSE			MBU ID Emp #: 454315	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BATH, KYLE Thomas	19	477632	BECK, MICHAEL George	19	489151	ROMKEE, DALE Alan	6.5	488215
SLAUGHTER, JESSE Dean	19	454315	YOUNG, JEREMY R	19	418013			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10713212	120 mile	10744648C	120 mile	10784080	120 mile	10804579	120 mile
10897849	120 mile	10951245	120 mile	10998508	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
09-20-2011	16.5	7	09-21-2011	2.5	2			

TOTAL Total is the sum of each column separately

Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	20 - Sep - 2011	07:30	MST
Form Type	BHST		Job Started	20 - Sep - 2011	13:21	MST
Job depth MD	2458. ft	Job Depth TVD	Job Completed	21 - Sep - 2011	00:40	MST
Water Depth		Wk Ht Above Floor	Departed Loc	21 - Sep - 2011	02:30	MST
Perforation Depth (MD)	From	To				

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				.	2509.		
9 5/8" Surface Casing	New		9.625	8.921	36.		J-55	.	2458.		

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	4	
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	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	1050.0	sacks	12.3	2.33	12.62	6	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	10.67
10.67 Gal		FRESH WATER							
6	Displacement	FRESH WATER	186	bbl	8.33	.0	.0	4.5	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)	176.0	sacks	12.5	1.97	10.96	2	10.96
10.96 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	186	Shut In: Instant		Lost Returns	YES	Cement Slurry	560.1	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	2	Actual Displacement	186	Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	806.1
Rates									
Circulating		Mixing	6	Displacement	4.5	Avg. Job	5.5		
Cement Left In Pipe	Amount	51.26 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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Field: GRAND VALLEY		City (SAP):		County/Parish: Garfield			State: Colorado
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: ROYSTER, JACOB			Srvc Supervisor: SLAUGHTER, JESSE			MBU ID Emp #: 454315	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/20/2011 01:30							TD 2509 FT, TP 2458 FT, SHOE 51.26 FT, CSG 9 5/8 IN 36 LB/FT, HOLE 14 3/4 IN, MUD WT 8.7 PPG
Pre-Convoy Safety Meeting	09/20/2011 03:50							WITH ALL HES PERSONNEL
Crew Leave Yard	09/20/2011 04:00							
Arrive At Loc	09/20/2011 07:30							RIG WAS RUNNING CASING UPON HES ARRIVAL
Assessment Of Location Safety Meeting	09/20/2011 10:50							WITH ALL HES PERSONNEL
Other	09/20/2011 11:00							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	09/20/2011 11:20							WITH ALL HES PERSONNEL
Rig-Up Equipment	09/20/2011 11:30							
Pre-Job Safety Meeting	09/20/2011 13:10							WITH ALL PERSONNEL ON LOCATION
Start Job	09/20/2011 13:21							JOB WAS PUMPED OFF LINE THROUGH PLUG CONTAINER WITH QUICK LATCH
Other	09/20/2011 13:21		2	2			10.0	FILL LINES WITH FRESH WATER
Test Lines	09/20/2011 13:24							TESTED LINES TO 4155 PSI PRESSURE HOLDING
Pump Spacer 1	09/20/2011 13:35		4	20			96.0	FRESH WATER
Pump Spacer 2	09/20/2011 13:37		4	20			95.0	GEL SPACER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	09/20/2011 13:43		4	20			75.0	FRESH WATER
Pump Lead Cement	09/20/2011 13:49		6	435.7			145.0	1050 SKS AT 12.3 PPG, 2.33 FT3/SK, 12.62 GAL/SK. WITH 7 BOXES OF TUFF FIBER
Pump Tail Cement	09/20/2011 15:17		6	62.7			140.0	170 SKS AT 12.8 PPG, 2.07 FT3/SK, 10.67 GAL/SK
Shutdown	09/20/2011 15:32							
Drop Top Plug	09/20/2011 15:33							PLUG LAUNCHED
Pump Displacement	09/20/2011 15:34		4.5	176			480.0	FRESH WATER
Slow Rate	09/20/2011 16:07		2	10			380.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	09/20/2011 16:14		2		186		985.0	PLUG BUMPED
Check Floats	09/20/2011 16:19							FLOATS HOLDING. HES RETURNED 3/4 BBL H2O TO PUMP
Pressure Test	09/20/2011 16:23						1500.0	PRESSURE TEST CASING TO 1500 PSI FOR 30 MIN AS PER COMPANY REP
Release Casing Pressure	09/20/2011 16:55							
Pump Water	09/20/2011 17:15		1.5	14			170.0	PUMP 10 BBL SUGAR WATER DOWN PARASITE STRING
Shutdown	09/20/2011 17:25							
End Job	09/20/2011 17:27							PIPE WAS STATIC DURING JOB, NO CIRCULATION THROUGHOUT JOB. HES DID NOT RETURN CEMENT TO SURFACE DURING PRIMARY JOB
Start Job	09/20/2011 18:55							TOPOUT #1
Pump Water	09/20/2011 18:55		1	1			.0	PUMP FRESH WATER AHEAD TO CLEAR LINES

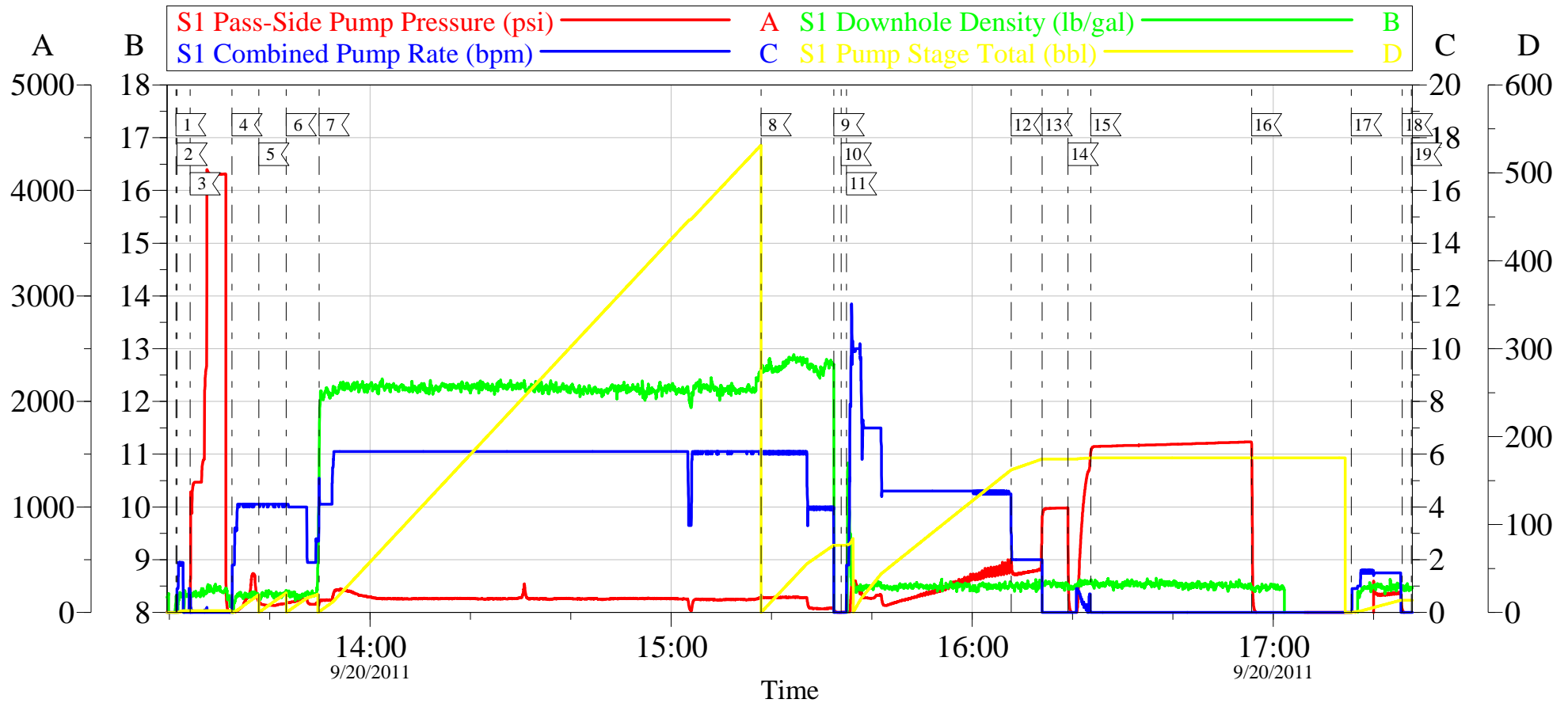
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	09/20/2011 18:56							SHUTDOWN TO MIX UP CEMENT TUB
Pump Cement	09/20/2011 19:04		2.5	42.1			61.0	120 SKS AT 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK
Shutdown	09/20/2011 19:24							
Pump Water	09/20/2011 19:25		1	1			.0	PUMP FRESH WATER BEHIND TO CLEAR LINES
Shutdown	09/20/2011 19:26							
End Job	09/20/2011 19:27							HES RETURNED NO CEMENT TO SURFACE
Start Job	09/20/2011 21:33							TOPOUT #2
Pump Water	09/20/2011 21:34		1	1			.0	PUMP FRESH WATER AHEAD TO CLEAR LINES
Shutdown	09/20/2011 21:35							SHUTDOWN TO MIX UP CEMENT TUB
Pump Cement	09/20/2011 21:41		2	6.7			.0	38 SKS AT 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK
Shutdown	09/20/2011 21:47							HES RETURNED 1 BBL CEMENT TO SURFACE. SWAPPED TOPOUT SWAGE TO PREVIOUS WELL TO FINISH TOPPING OUT AS PER COMPANY REP
Resume	09/20/2011 21:54		2	6.6			.0	RESUME PUMPING TOPOUT CEMENT ON WELL # CC 697-08-58B
Shutdown	09/20/2011 22:00				13.3			HES RETURNED 3/4 BBL CEMENT TO SURFACE
End Job	09/20/2011 22:01							CREW WAS HELD ON LOCATION TO SEE IF CEMENT FALLS BACK
Start Job	09/21/2011 00:19							TOPOUT #3. CREW TOPPED OUT ON BOTH WELLS AFTER CEMENT FELL BACK
Pump Water	09/21/2011 00:20		1	1			.0	PUMP FRESH WATER AHEAD TO CLEAR LINES

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	09/21/2011 00:20							SHUTDOWN TO MIX UP CEMENT TUB
Pump Cement	09/21/2011 00:29		1	2.6			.0	18 SKS AT 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK
Shutdown	09/21/2011 00:32							
Resume	09/21/2011 00:33		1	3.7				RESUME PUMPING TOPOUT CEMENT
Shutdown	09/21/2011 00:40				6.3			
End Job	09/21/2011 00:40							HES RETURNED 1/2 BBL CEMENT TO SURFACE ON EACH WELL
Pre-Rig Down Safety Meeting	09/21/2011 00:50							WITH ALL HES PERSONNEL
Rig-Down Equipment	09/21/2011 01:00							
Pre-Convoy Safety Meeting	09/21/2011 02:20							WITH ALL HES PERSONNEL
Crew Leave Location	09/21/2011 02:30							TOPOUT TRUCK WITH APPROX. 414 SKS WAS LEFT ON LOCATION
Comment	09/21/2011 02:31							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. JESSE SLAUGHTER AND CREW.

OXY

CC 697-08-58A, 9 5/8 SURFACE



Local Event Log

1 START JOB	13:21:18	2 PRIME LINES	13:21:31	3 TEST LINES	13:24:09
4 PUMP H2O SPACER 1	13:32:29	5 PUMP GEL SPACER	13:37:49	6 PUMP H2O SPACER 2	13:43:17
7 PUMP LEAD CEMENT	13:49:52	8 PUMP TAIL CEMENT	15:17:56	9 SHUTDOWN	15:32:27
10 DROP TOP PLUG	15:33:54	11 PUMP DISPLACEMENT	15:34:56	12 SLOW RATE	16:07:47
13 BUMP PLUG	16:13:56	14 CHECK FLOATS	16:19:07	15 PRESSURE TEST CASING	16:23:38
16 RELEASE CASING PRESSURE	16:55:42	17 PUMP DOWN PARASITE STRING	17:15:35	18 SHUTDOWN	17:25:44
19 END JOB	17:27:33				

Customer: OXY
 Well Description: CC 697-08-58A
 Customer Rep: VICTOR BENEVIDES

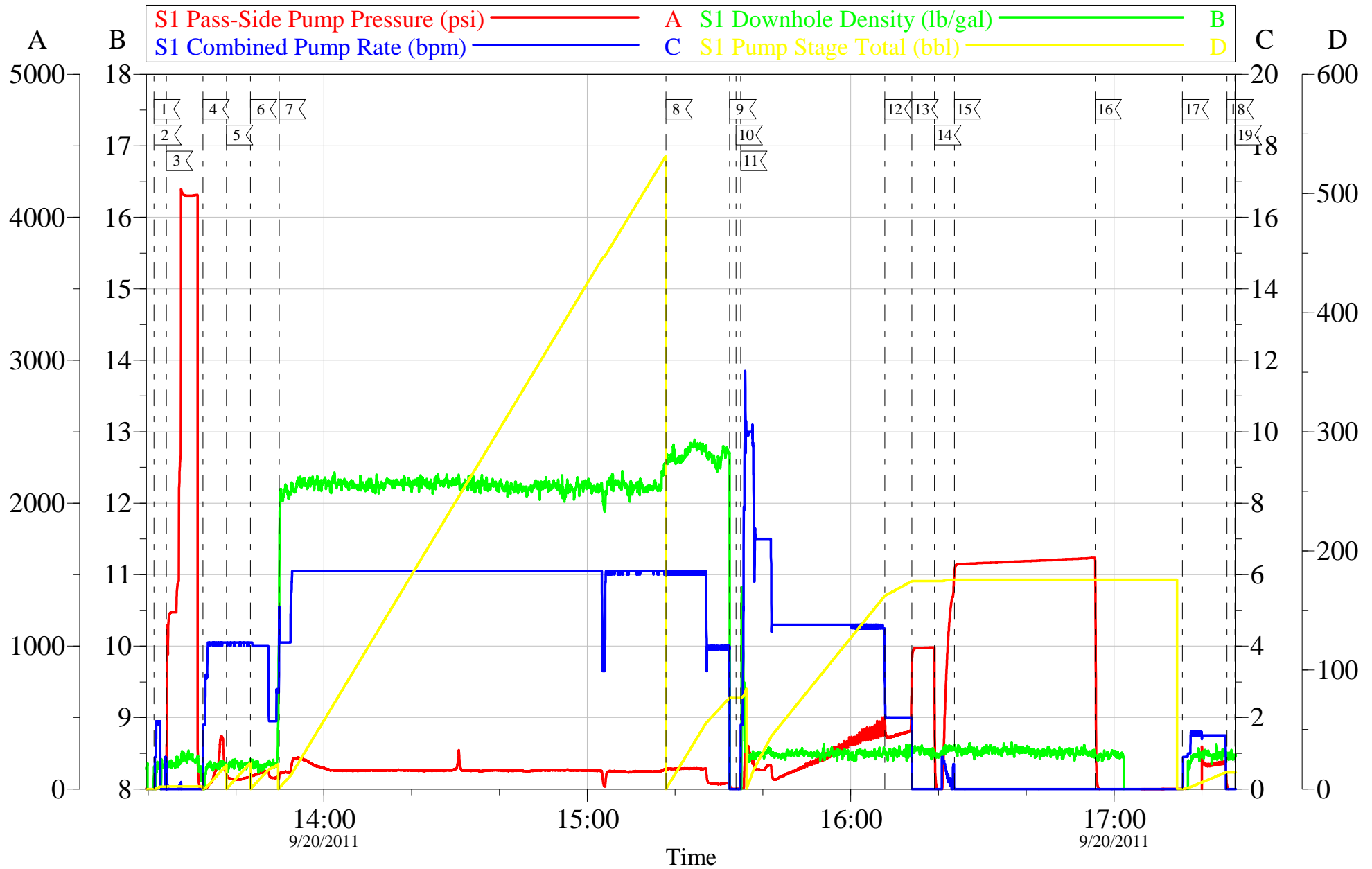
Job Date: 20-Sep-2011
 Job Type: SURFACE
 Service Supervisor: JESSE SLAUGHTER

Sales Order #: 8474644
 ADC Used: YES
 Pump # / Operator: 6/KYLE BATH

OptiCem v6.4.10
 20-Sep-11 17:49

OXY

CC 697-08-58A, 9 5/8 SURFACE

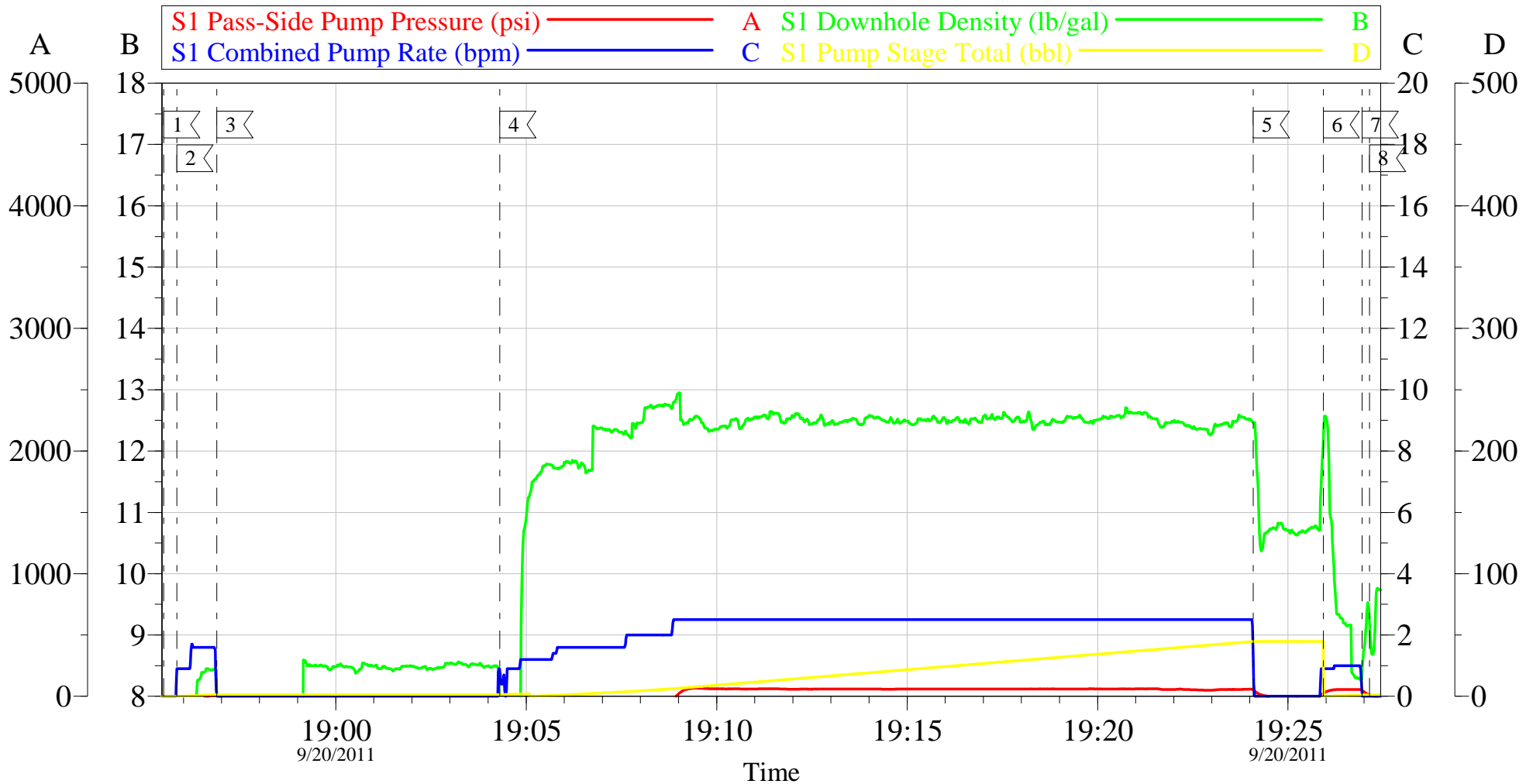


Customer: OXY	Job Date: 20-Sep-2011	Sales Order #: 8474644
Well Description: CC 697-08-58A	Job Type: SURFACE	ADC Used: YES
Customer Rep: VICTOR BENEVIDES	Service Supervisor: JESSE SLAUGHTER	Pump # / Operator: 6/KYLE BATH

OptiCem v6.4.10
20-Sep-11 17:50

OXY

CC 697-08-58A, TOPOUT #1



Local Event Log

1	START JOB	18:55:29	2	PUMP H2O AHEAD	18:55:50	3	SHUTDOWN	18:56:53
4	PUMP CEMENT	19:04:18	5	SHUTDOWN	19:24:05	6	PUMP H2O BEHIND	19:25:56
7	SHUTDOWN	19:26:57	8	END JOB	19:27:08			

Customer: OXY
Well Description: CC 697-08-58A
Customer Rep: VICTOR BENEVIDES

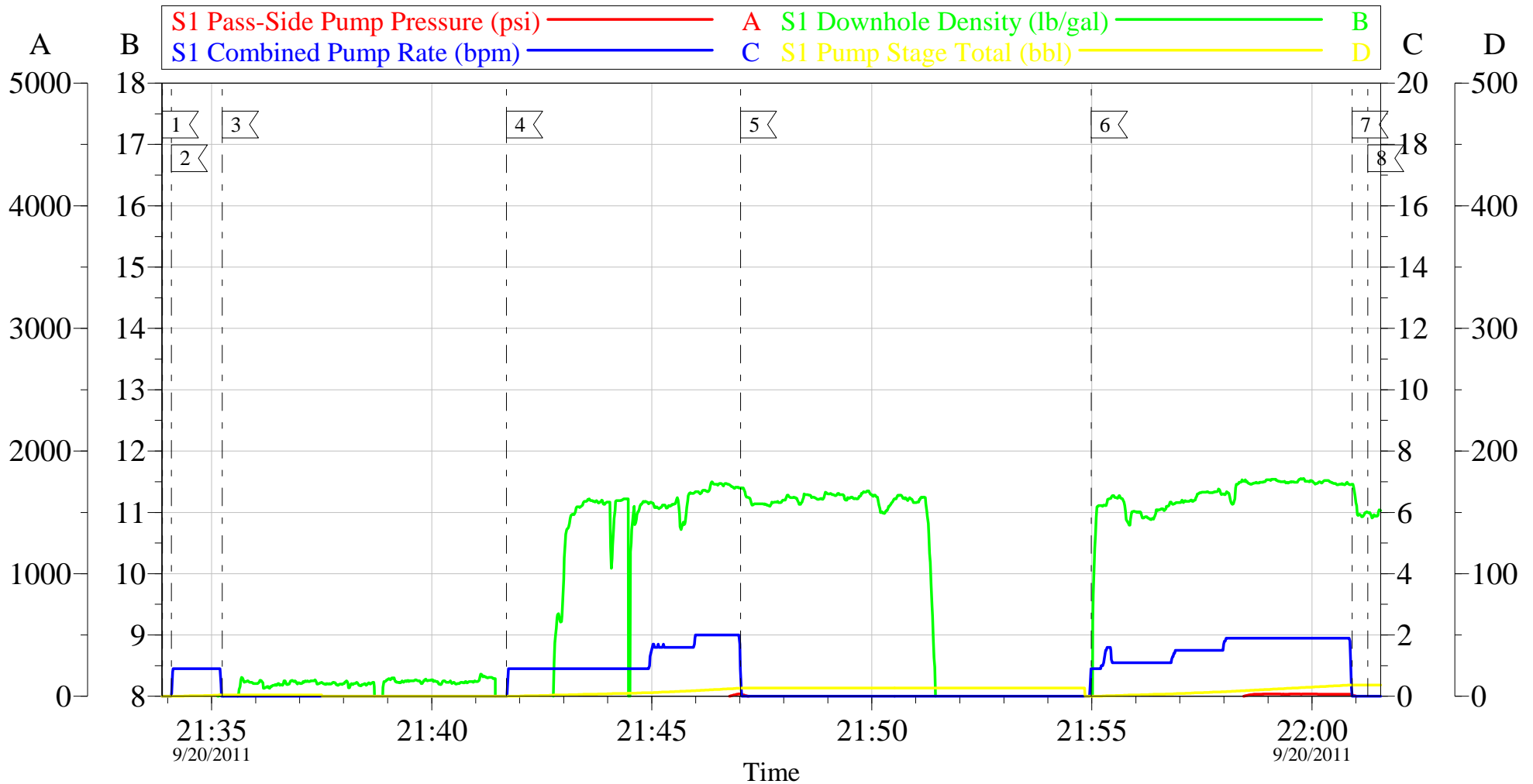
Job Date: 20-Sep-2011
Job Type: TOPOUT #1
Service Supervisor: JESSE SLAUGHTER

Sales Order #: 8474644
ADC Used: YES
Pump # / Operator: 6/KYLE BATH

OptiCem v6.4.10
20-Sep-11 19:39

OXY

CC 697-08-58A, TOPOUT #2



Local Event Log

1 START JOB	21:33:53	2 PUMP H2O AHEAD	21:34:05	3 SHUTDOWN	21:35:15
4 PUMP CEMENT	21:41:42	5 SHUTDOWN	21:47:01	6 RESUME PUMPING	21:54:59
7 SHUTDOWN	22:00:55	8 END JOB	22:01:16		

Customer: OXY
Well Description: CC 697-08-58A
Customer Rep: VICTOR BENEVIDES

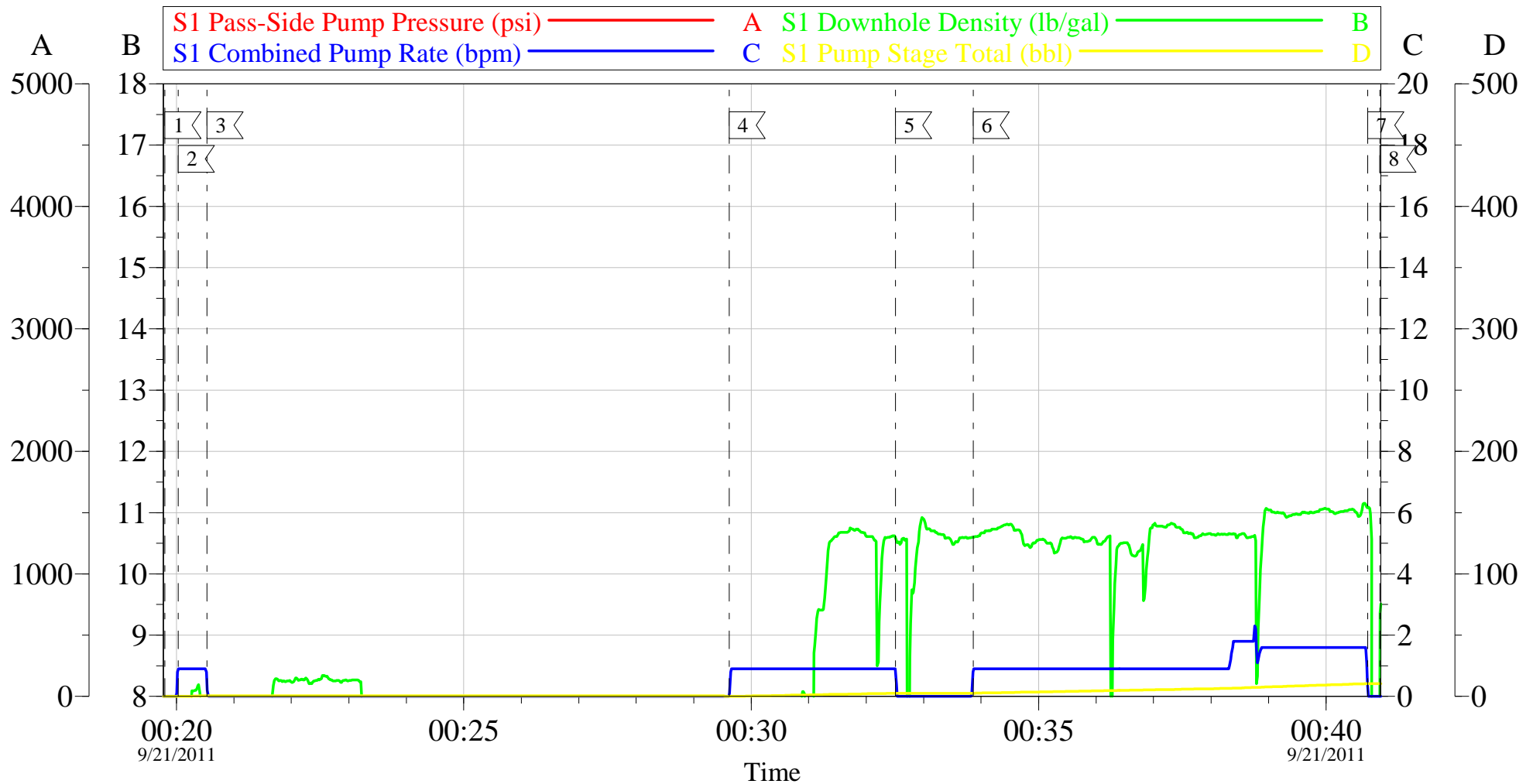
Job Date: 20-Sep-2011
Job Type: TOPOUT #2
Service Supervisor: JESSE SLAUGHTER

Sales Order #: 8474644
ADC Used: YES
Pump # / Operator: 6/KYLE BATH

OptiCem v6.4.10
20-Sep-11 22:18

OXY

CC 697-08-58A, TOPOUT #3



Local Event Log

1	START JOB	00:19:48	2	PUMP H2O AHEAD	00:20:02	3	SHUTDOWN	00:20:32
4	PUMP CEMENT	00:29:37	5	SHUTDOWN	00:32:31	6	RESUME PUMPING	00:33:52
7	SHUTDOWN	00:40:44	8	END JOB	00:40:56			

Customer: OXY
Well Description: CC 697-08-58A
Customer Rep: VICTO BENEVIDES

Job Date: 21-Sep-2011
Job Type: TOPOUT #3
Service Supervisor: JESSE SLAUGHTER

Sales Order #: 8474644
ADC Used: YES
Pump # / Operator: 6/KYLE BATH

OptiCem v6.4.10
21-Sep-11 00:53

HALLIBURTON

Water Analysis Report

Company: OXY
Submitted by: JESSE SLAUGHTER
Attention: LAB
Lease: CC
Well #: 697-08-58A

Date: 9/20/2011
Date Rec.:
S.O.#: 8474644
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	6
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>	55 Deg
Total Dissolved Solids		200 Mg / L

Respectfully: JESSE SLAUGHTER

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 #: 8474644	Line Item: 10	Survey Conducted Date: 9/21/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: VICTOR BENEVIDES		API / UWI: (leave blank if unknown) 05-045-20063
Well Name: CC		Well Number: 697-08-58A
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	9/21/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	JESSE SLAUGHTER (HB21762)
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	
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