

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

CC 697-16-15C

H&P 353

Post Job Summary

Cement Surface Casing

Prepared for: CAL WYLIE
Date Prepared: AUGUST 3, 2011
Version: 1

Service Supervisor: ROSS, CHARLES

Submitted by:

HALLIBURTON

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 2869802	Quote #:	Sales Order #: 8322948
Customer: OXY GRAND JUNCTION EBUSINESS	Customer Rep: WYLIE, CAL		
Well Name: CC	Well #: 697-16-15C	API/UWI #: 05-045-20573	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Contractor: H&P 330	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	Srv Supervisor: ROSS, CHARLES	MBU ID Emp #: 453128	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DOUT, JACOB J	12	430298	KUKUS, CHRISTOPHER A	12	413952	LYNGSTAD, FREDRICK D	12	403742
OTOOLE, SHAWN	12	496661	REEVES, BRANDON W	12	287883	ROSS, CHARLES Raymond	12	453128

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025118	120 mile	10567589C	120 mile	10741259	120 mile	10783473	120 mile
10988964	120 mile	11259883	120 mile	6543	120 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
8/3/2011	9	7						
TOTAL			Total is the sum of each column separately					

Job

Job						Job Times			
Formation Name							Date	Time	Time Zone
Formation Depth (MD)	Top			Bottom		Called Out	02 - Aug - 2011	10:00	MST
Form Type				BHST		On Location	02 - Aug - 2011	16:55	MST
Job depth MD	2715. ft		Job Depth TVD	2715. ft		Job Started	02 - Aug - 2011	21:05	MST
Water Depth				Wk Ht Above Floor	5. ft	Job Completed	03 - Aug - 2011	03:14	MST
Perforation Depth (MD)	From			To		Departed Loc	03 - Aug - 2011	04:30	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
14 3/4" OPEN HOLE				14.75				.	2715.		
9 5/8" SURFACE CASING	New		9.625	8.921	36.		J-55	.	2687.7		

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			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	
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	.0	
2	Gel Spacer		20.00	bbl	.	.0	.0	.0	
3	Water Spacer		20.00	bbl	.	.0	.0	.0	
4	Lead Cement	VERSACEM (TM) SYSTEM (452010)	1055.0	sacks	12.3	2.33	12.62		12.62
12.62 Gal		FRESH WATER							
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	146.0	sacks	12.8	2.07	10.67		10.67
10.67 Gal		FRESH WATER							
6	Displacement		205.00	bbl	.	.0	.0	.0	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)		sacks	12.5	1.97	10.96		10.96
10.96 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	204.1	Shut In: Instant		Lost Returns	757	Cement Slurry	492	Pad	
Top Of Cement	SURF	5 Min		Cement Returns	6	Actual Displacement	204.1	Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	757
Rates									
Circulating	6	Mixing	6	Displacement	6	Avg. Job	6		
Cement Left In Pipe	Amount	47.2 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

Sold To #: 344034	Ship To #: 2869802	Quote #:	Sales Order #: 8322948
Customer: OXY GRAND JUNCTION EBUSINESS	Customer Rep: WYLIE, CAL		
Well Name: CC	Well #: 697-16-15C	API/UWI #: 05-045-20573	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: H&P 330	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: ROSS, CHARLES	MBU ID Emp #: 453128	

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	08/02/2011 10:00							
Pre-Convoy Safety Meeting	08/02/2011 12:30							WITH ALL HES EE'S
Depart from Service Center or Other Site	08/02/2011 12:40							
Arrive at Location from Service Center	08/02/2011 16:55							
Assessment Of Location Safety Meeting	08/02/2011 17:20							WITH ALL HES EE'S
Pre-Rig Up Safety Meeting	08/02/2011 17:25							WITH ALL HES EE'S
Rig-Up Equipment	08/02/2011 17:30							1-F550 PICKUP, 1- ELITE PUMP TRUCK, 1-660 CEMENT BULK TRUCK, 1-CEMENT SILO, 1-CEMENT BULK STORAGE BIN, 1- HARD LINE TO RIG AND WASH UP OUT TO THE PIT FROM MANIFOLD, AND 1- HARD LINE TO THE PARASITE FROM MANIFOLD, 1-9 5/8" PLUG CONTAINER.
Pre-Job Safety Meeting	08/02/2011 20:45							WITH ALL HES EE'S AND RIG CREW
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

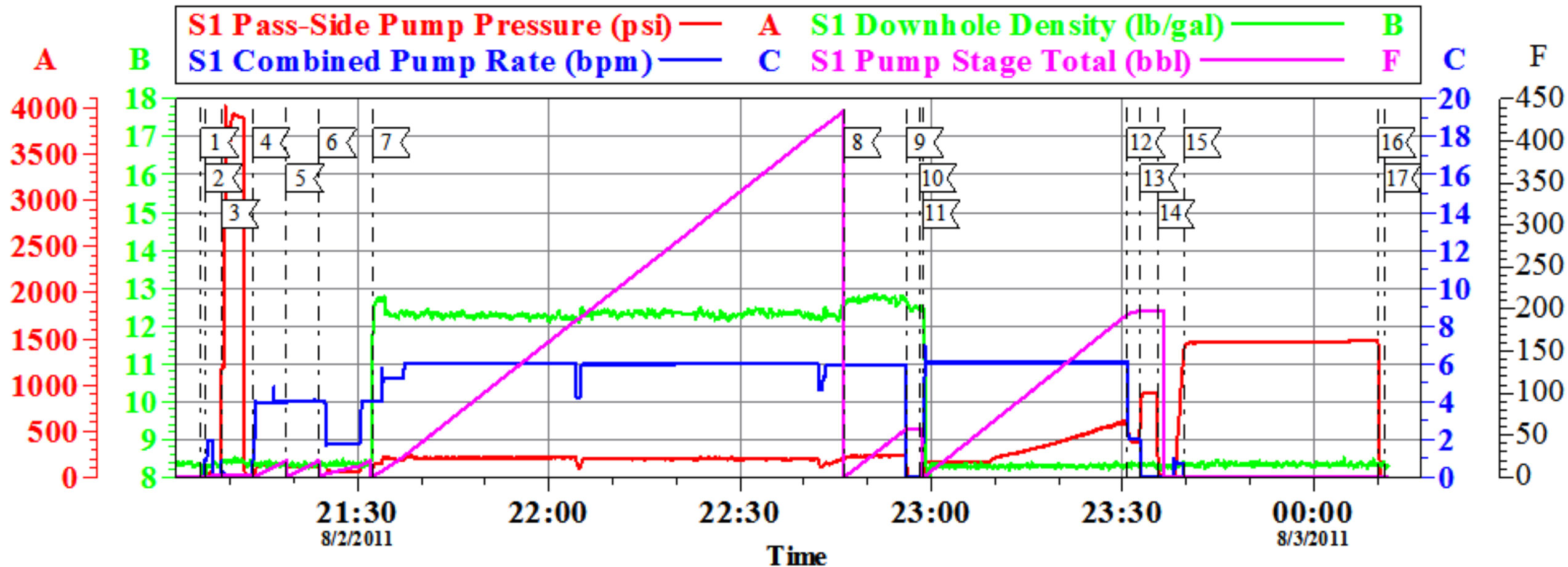
Start Job	08/02/2011 21:05							TD 2715, 9 5/8 36# CASING SET @ 2687.7, SJ 47.2, FC 2640.5 MW# 9.1, RIG CIRCULATED 50 MIN PRIOR TO CEMENT JOB, HEAD AND CASING CHAINED DOWN BECAUSE OF PSI TO LIFT
Pump Water	08/02/2011 21:06		2	2			56.0	FILL LINES, FRESH WATER
Test Lines	08/02/2011 21:08							TEST TO 4000 PSI
Pump Spacer 1	08/02/2011 21:12		4	20			140.0	FRESH WATER
Pump Spacer 2	08/02/2011 21:19		4	20			110.0	GEL SPACER
Pump Spacer 1	08/02/2011 21:23		4	20			140.0	FRESH WATER
Pump Lead Cement	08/02/2011 21:31		6	437.8			230.0	1055 SKS OF VERSACEM PUMPED @ 12.3 PPG, YIELD 2.33, WATER 12.62
Pump Tail Cement	08/02/2011 22:46		6	53.8			250.0	146 SKS OF VERSACEM PUMPED @ 12.8 PPG, YIELD 2.07, WATER 10.67
Shutdown	08/02/2011 22:56							
Drop Plug	08/02/2011 22:59							TOP PLUG, PLUG WENT
Pump Displacement	08/02/2011 22:59		6	204.1			620.0	FRESH WATER
Slow Rate	08/02/2011 23:29		2	194			400.0	RATE SLOWED 10 BBL PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	08/02/2011 23:33		2	204.1			440.0	PLUG LANDED. PRESSURED UP TO 940 PSI.
Check Floats	08/02/2011 23:35							FLOATS HELD
Pressure Up Well	08/02/2011 23:38						1500. 0	30 MIN. PRESSURED UP TO PSI
Release Casing Pressure	08/03/2011 00:10							
Pump Water	08/03/2011 00:30		2	10			350.0	SUGAR WATER TO CLEAN PARASITE STRING
Pre-Rig Up Safety Meeting	08/03/2011 01:15							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Rig-Up Equipment	08/03/2011 01:20							TOP OUT. 1-F550 PICKUP, 1-ELITE PUMP TRUCK, 1-660 CEMENT BULK TRUCK, 1-HARD LINE TO 1" TOP OUT SWAGE AND 1-HARD LINE TO THE PIT FROM MANIFOLD. CLEAN LINES IN CELLAR. WASH UP IN THE PIT.
Pre-Job Safety Meeting	08/03/2011 02:00							
Start Job	08/03/2011 02:09							
Pump Cement	08/03/2011 02:11		2	8				22.8 SKS OF HALCEM PUMPED @ 12.5 PPG, 1.97 YIELD, 10.96 WATER.
Shutdown	08/03/2011 02:12							WAITING TO SEE IF CEMENT FALLS BACK
Resume	08/03/2011 02:17							
Shutdown	08/03/2011 02:19							WAITING TO SEE IF CEMENT FALLS BACK
Resume	08/03/2011 02:23							
Shutdown	08/03/2011 02:25							6 BBLS CEMENT PUMPED TO SURFACE = 17 SKS
Clean Lines	08/03/2011 02:28							
Comment	08/03/2011 02:35							WASH UP TRUCK. WAITING TO SEE IF CEMENT FALLS BACK.
End Job	08/03/2011 03:14							NO RETURNS THROUGHOUT INITIAL SURFACE JOB, NO MOVEMENT OF PIPE THROUGHOUT JOB, NO BBLS OF CEMENT CIRCULATED TO THE PIT DURING INITIAL SURFACE JOB. 6 BBLS OF CEMENT CIRCULATED TO THE PIT ON TOP OUT.

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Post-Job Safety Meeting (Pre Rig-Down)	08/03/2011 03:20							WITH ALL HES EE'S
Rig-Down Equipment	08/03/2011 03:25							
Pre-Convoy Safety Meeting	08/03/2011 04:25							WITH ALL HES EE'S
Depart Location for Service Center or Other Site	08/03/2011 04:30							THANKS FOR USING GRAND JUNCTION HALLIBURTON CEMENT DEPARTMENT, CHUCK ROSS AND CREW

OXY

CEMENT 9 5/8" SURFACE CASING CC 697-16-15C



Local Event Log							
Maximum		SPPP	Maximum		SPPP		
1	START JOB	8/2/2011 21:05:26	-5.000	2	FILL LINES	8/2/2011 21:06:03	724.9
3	TEST LINES	8/2/2011 21:08:39	4020	4	PUMP H2O SPACER	8/2/2011 21:13:31	141.0
5	PUMP GEL H2O SPACER	8/2/2011 21:18:49	140.0	6	PUMP H2O SPACER	8/2/2011 21:23:56	148.0
7	PUMP LEAD CEMENT	8/2/2011 21:32:24	237.0	8	PUMP TAIL CEMENT	8/2/2011 22:46:20	243.0
9	SHUT DOWN	8/2/2011 22:56:04	229.0	10	DROP TOP PLUG	8/2/2011 22:58:07	4.207
11	PUMP DISPLACEMENT	8/2/2011 22:58:38	617.0	12	SLOW RATE	8/2/2011 23:30:49	747.6
13	LAND PLUG	8/2/2011 23:32:52	917.0	14	CHECK FLOATS	8/2/2011 23:35:28	1363
15	PRESSURE TEST THE CASING	8/2/2011 23:39:38	1481	16	RELEASE CASING PRESSURE	8/3/2011 00:10:10	1424
17	END JOB	8/3/2011 00:11:04	-2.000				

Customer: OXY
Well Description: CC 697-16-15C
Customer Rep: CAL WYLIE

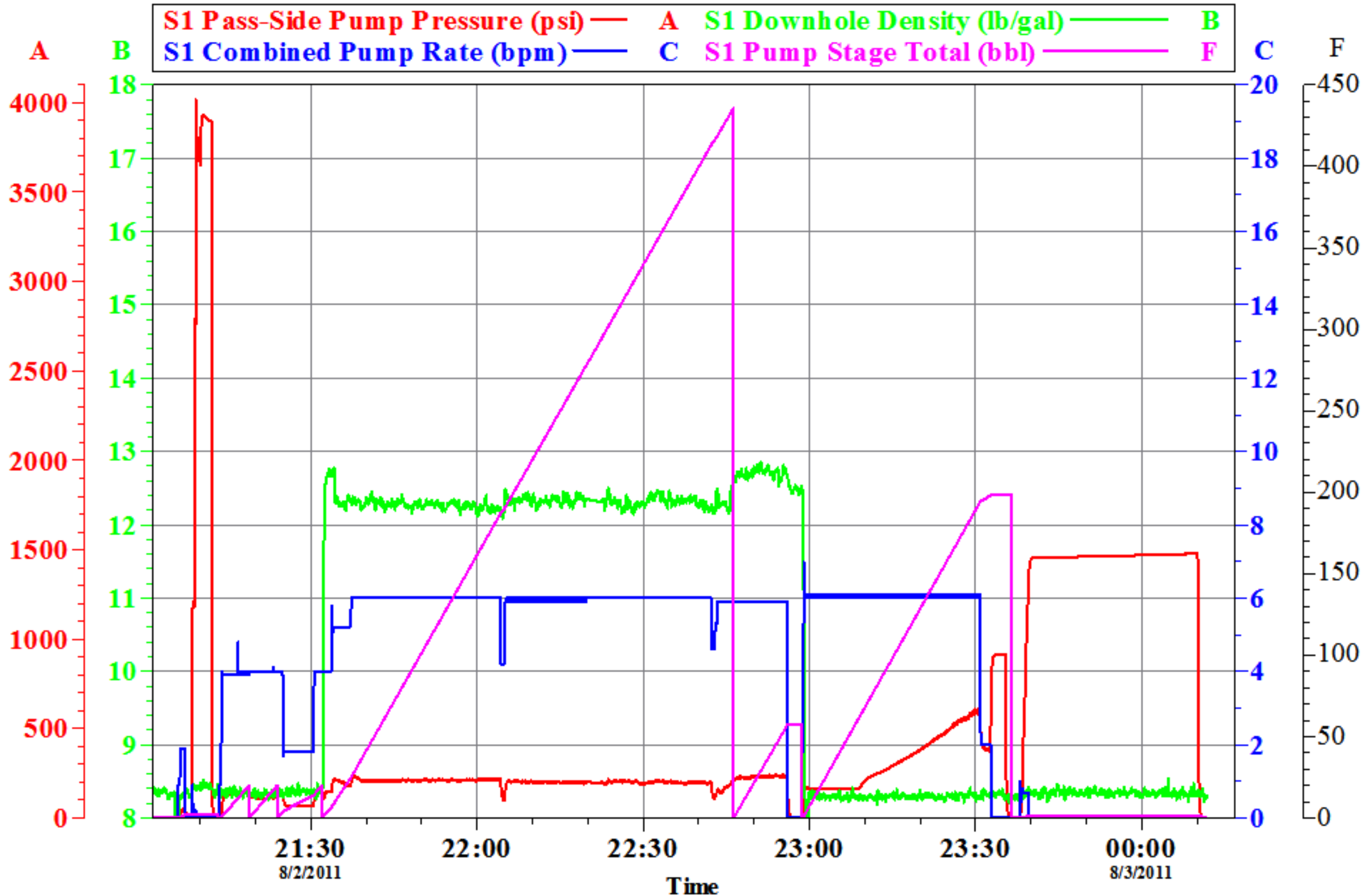
Job Date: 02-Aug-2011
Job type: SURFACE
Service Supervisor: CHUCK ROSS

Sales Order #: 8322948
ADC Used: YES
Operator/ Pump: JACOB DOUT

Opti Cem v6.4.10
03-Aug-11 00:14

OXY

CEMENT 9 5/8" SURFACE CASING CC 697-16-15C



Customer: OXY
Well Description: CC 697-16-15C
Customer Rep: CAL WYLIE

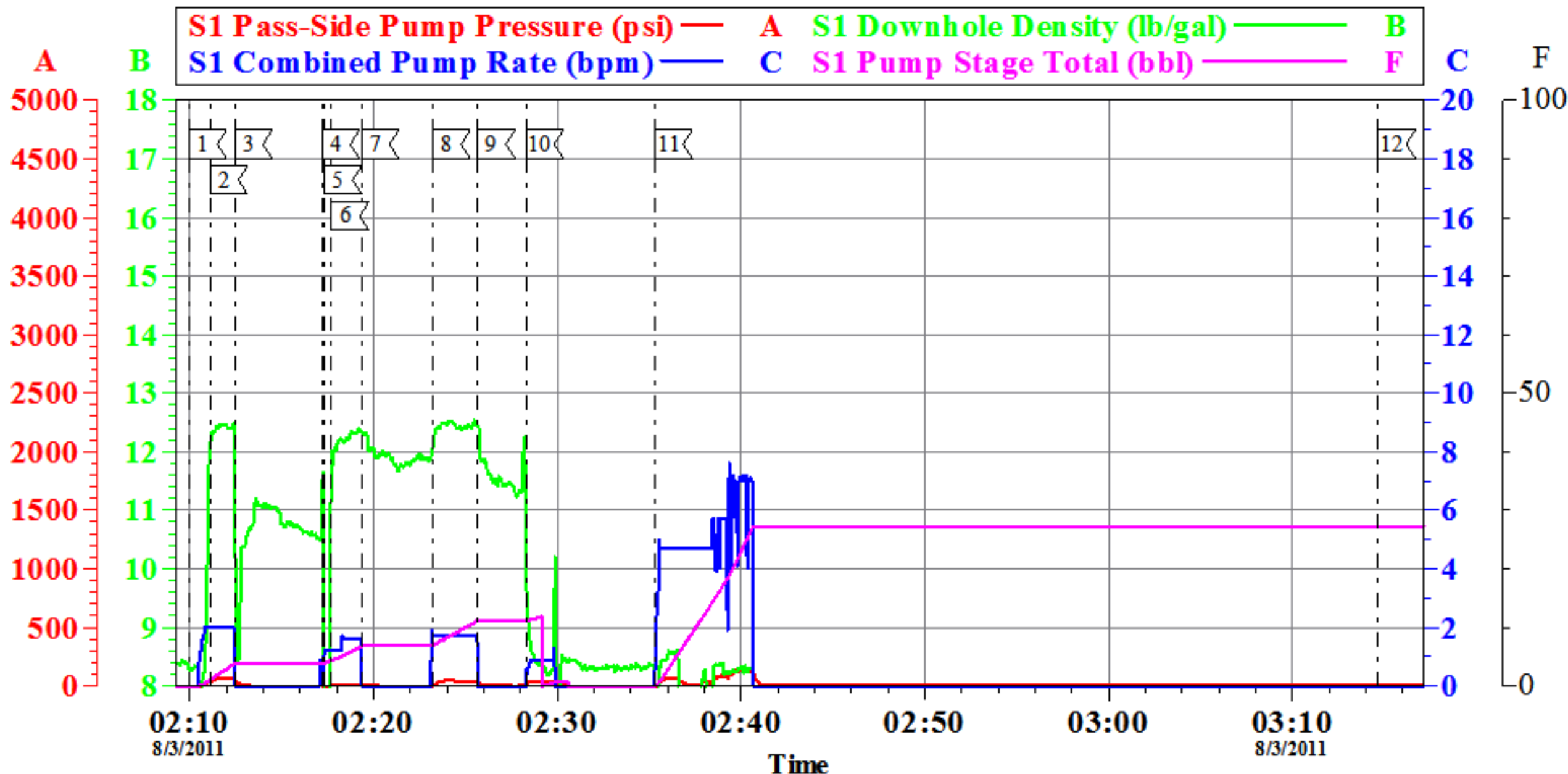
Job Date: 02-Aug-2011
Job type: SURFACE
Service Supervisor: CHUCK ROSS

Sales Order #: 8322948
ADC Used: YES
Operator/ Pump: JACOB DOUT

Opti Cem v6.4.10
03-Aug-11 00:14

OXY

TOP OUT 9 5/8" SURFACE CASING CC 697-16-15C



Local Event Log											
Maximum				Maximum				Maximum			
SPPP				SPPP				SPPP			
1	START JOB	02:09:59	38.50	2	PUMP TOP OUT	02:11:08	70.00	3	SHUT DOWN	02:12:28	61.00
4	RESUME	02:17:13	0.000	5	LOST PRIME	02:17:20	12.00	6	RESUME	02:17:43	12.00
7	SHUT DOWN	02:19:21	12.00	8	RESUME	02:23:15	46.00	9	SHUT DOWN	02:25:41	37.00
10	CLEAN LINES	02:28:19	39.00	11	WASH UP	02:35:20	148.0	12	END JOB	03:14:41	3.000

Customer: OXY
Well Description: CC 697-16-15C
Customer Rep: CAL WYLIE

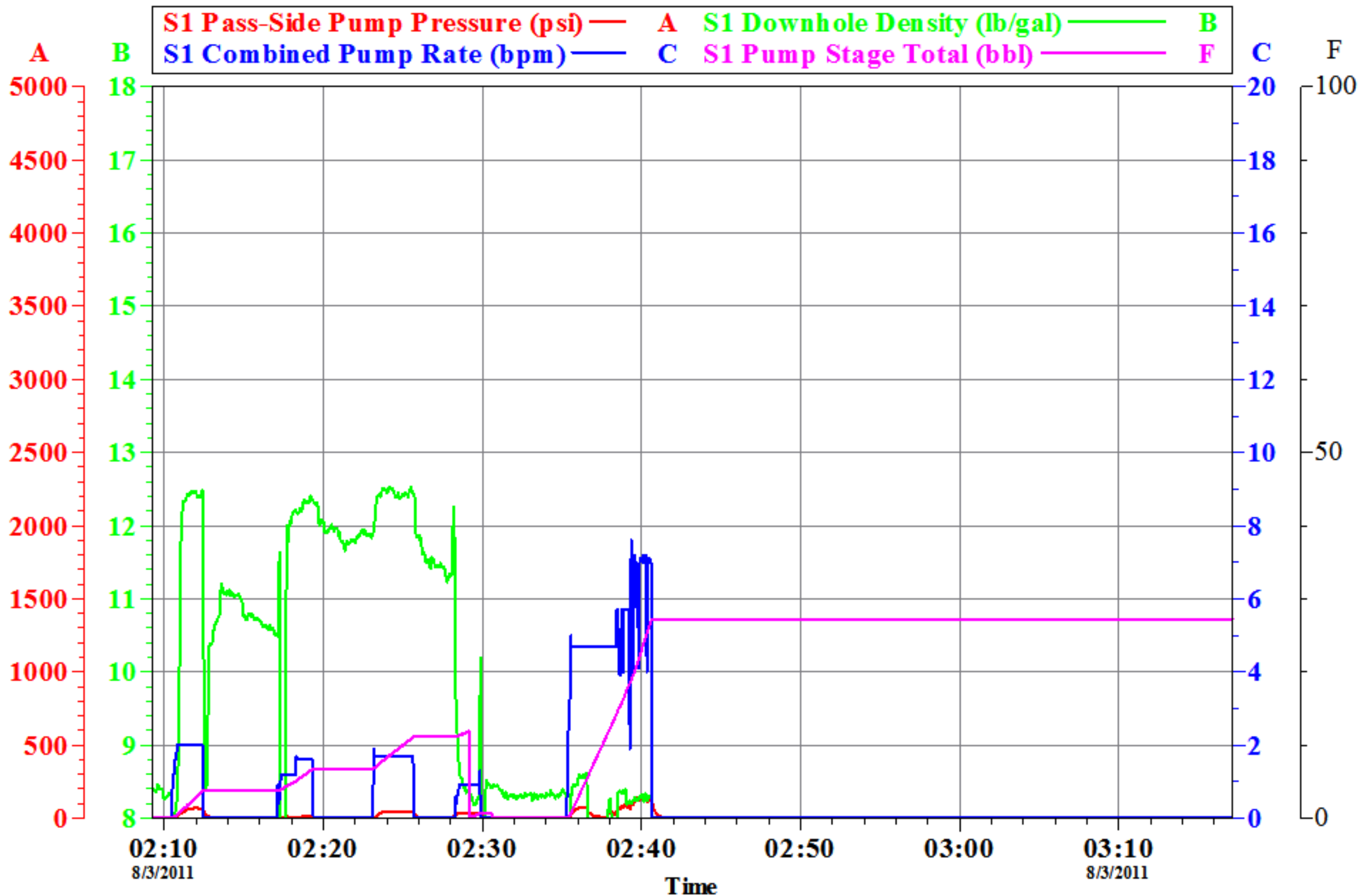
Job Date: 03-Aug-2011
Job type: TOP OUT
Service Supervisor: CHUCK ROSS

Sales Order #: 8322948
ADC Used: YES
Operator/ Pump: JACOB DOUT

Opti Cem v6.4.10
03-Aug-11 03:40

OXY

TOP OUT 9 5/8" SURFACE CASING CC 697-16-15C



Customer: OXY
Well Description: CC 697-16-15C
Customer Rep: CAL WYLIE

Job Date: 03-Aug-2011
Job type: TOP OUT
Service Supervisor: CHUCK ROSS

Sales Order #: 8322948
ADC Used: YES
Operator/ Pump: JACOB DOUT

Opti Cem v6.4.10
03-Aug-11 03:39

Sales Order #: 8322948	Line Item: 10	Survey Conducted Date: 8/3/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CAL WYLIE		API / UWI: (leave blank if unknown) 05-045-20573
Well Name: CC		Well Number: 697-16-15C
Well Type: Development Well	Well Country: United States of America	
H2S Present:	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	8/3/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHARLES ROSS (HB20648)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	CAL WYLIE
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	EXCELLENT WORK!
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 #: 8322948	Line Item: 10	Survey Conducted Date: 8/3/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CAL WYLIE		API / UWI: (leave blank if unknown) 05-045-20573
Well Name: CC		Well Number: 697-16-15C
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	8/3/2011
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Deviated
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	10.92
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Operating Hours (Pumping Hours)	6.15
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	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.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	6
Number Of Jsas Performed	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	Yes

Sales Order #: 8322948	Line Item: 10	Survey Conducted Date: 8/3/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CAL WYLIE		API / UWI: (leave blank if unknown) 05-045-20573
Well Name: CC		Well Number: 697-16-15C
Well Type: Development Well	Well Country: United States of America	
H2S Present:	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