
OXY GRAND JUNCTION EBUSINESS

**CC 697-08-18
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing
05-Mar-2012

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 344034	Quote #:	Sales Order #: 9325075
Customer: OXY GRAND JUNCTION EBUSINESS		Customer Rep: Vallegas, Alex	
Well Name: CC		Well #: 697-08-18	API/UWI #: 05-045-20971
Field: GRAND VALLEY	City (SAP): ADDISON	County/Parish: Garfield	State: Colorado
Lat: N 39.544 deg. OR N 39 deg. 32 min. 36.996 secs.		Long: W 108.246 deg. OR W -109 deg. 45 min. 12.924 secs.	
Contractor: H&P 353		Rig/Platform Name/Num: H&P 353	
Job Purpose: Cement Surface Casing			
Well Type: Disposal Well		Job Type: Cement Surface Casing	
Sales Person: HIMES, JEFFREY		Srvc Supervisor: HUGENTOBLE, LOGAN	MBU ID Emp #: 447333

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
courtney, Trevor	31	509351	HUGENTOBLE, LOGAN Mark	31	447333	SILVERTHORN, AARON Jacob	31	491305
WOLFE, JON P	31	485217						

Equipment

HES Unit #	Distance-1 way						
10616651C	120 mile	10867304	120 mile	10951246	120 mile	10998054	120 mile
11808827	120 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
3/4/12	23	8	3/5/12	8	4			

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	03 - Mar - 2012	18:00	MST
Form Type		BHST	Job Started	04 - Mar - 2012	01:00	MST
Job depth MD	2705. ft	Job Depth TVD	2705. ft	Job Completed	05 - Mar - 2012	04:50
Water Depth		Wk Ht Above Floor	1. ft	Departed Loc	05 - Mar - 2012	07:30
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
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	

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	Fresh Water Spacer		20.00	bbl	8.33	.0	.0	.0		
2	Gel Water Spacer		20.00	bbl	8.34	.0	.0	.0		
0.25 gal/bbl		LGC-36 UC, BULK (101582749)								
3	Fresh Water Spacer		20.00	bbl	8.33	.0	.0	.0		
4	HalCem Lead Cement	HALCEM (TM) SYSTEM (452986)	1060.0	sacks	12.3	2.15	11.83	.0	11.83	
11.83 Gal		FRESH WATER								
5	VariCem Tail Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.8	2.07	10.67	.0	10.67	
10.67 Gal		FRESH WATER								
6	Fresh Water Displacement		204.00	bbl	8.34	.0	.0	.0		
Calculated Values		Pressures			Volumes					
Displacement	204	Shut In: Instant		Lost Returns		Cement Slurry		Pad		
Top Of Cement	SURFACE	5 Min		Cement Returns		Actual Displacement		Treatment		
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job		
Rates										
Circulating		Mixing	6	Displacement	6	Avg. Job		6		
Cement Left In Pipe	Amount	47ft	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): ADDISON	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.544 deg. OR N 39 deg. 32 min. 36.996 secs.		Long: W 108.246 deg. OR W -109 deg. 45 min. 12.924 secs.	
Contractor: H&P 353		Rig/Platform Name/Num: H&P 353	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Disposal Well		Job Type: Cement Surface Casing	
Sales Person: HIMES, JEFFREY		Srvc Supervisor: HUGENTOBLE, LOGAN	MBU ID Emp #: 447333

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	03/03/2012 18:00							
Pre-Convoy Safety Meeting	03/03/2012 21:00							ALL HES EMPLOYEES
Arrive At Loc	03/04/2012 01:00							RIG STILL RUNNING CASING
Assessment Of Location Safety Meeting	03/04/2012 01:20							ALL HES EMPLOYEES
Rig-Up Equipment	03/04/2012 01:30							1 HT 400 PUMP TRUCK, 1 660 BULK TRUCK, 1 9.625 QUICK LATCH PLUG CONTAINER, 1 F550 P/U, 2 FIELD SILOS
Pre-Job Safety Meeting	03/04/2012 05:15							ALL HES EMPLOYEES, RIG CREW, CO REP.
Start Job	03/04/2012 05:37							TP 2685', TD 2685', FC 2638', HOLE 14.75", MUD WT 9.0 PPG, 800 BBLs OF H2O ON LOCATION, WATER SAMPLE SUBMITTED.
Pump Water	03/04/2012 05:42		2	2			18.0	FILL LINES
Pressure Test	03/04/2012 05:45							NO LEAKS
Pump Spacer 1	03/04/2012 05:53		2	20			56.0	FRESH WATER
Pump Spacer	03/04/2012 05:56		6	20			89.0	PUMP GEL WATER SPACER
Pump Water	03/04/2012 06:00		6	20			76.0	PUMP WATER
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

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SUMMIT Version: 7.3.0021

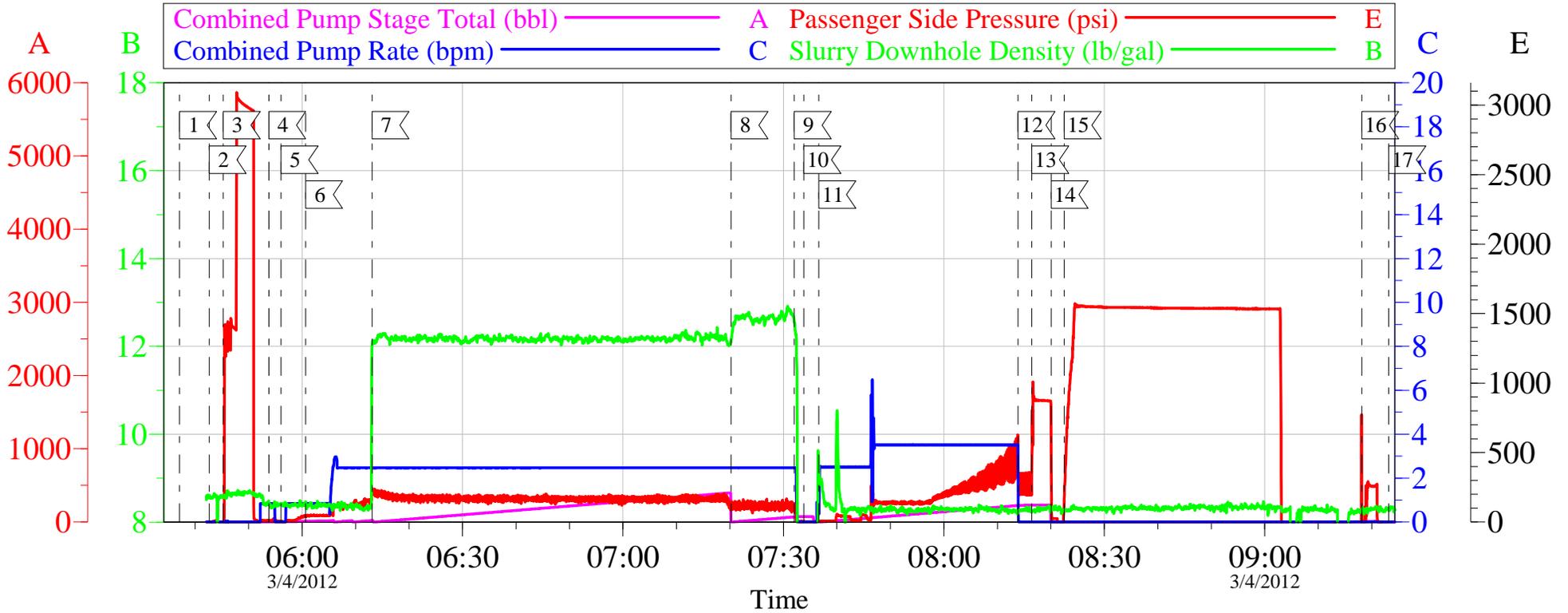
Saturday, March 17, 2012 11:24:00

Pump Lead Cement	03/04/2012 06:13		6	406		179.0	1060 SKS VARICEM CCMT TO BE MIXED AT 12.3 PPG, 2.33 YIELD, 12.62 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES. WET AND DRY SAMPLES SUBMITTED.
Pump Tail Cement	03/04/2012 07:20		6	59		120.0	160 SKS VARICEM CCMT TO BE MIXED AT 12.8 PPG, 2.07 YIELD, 10.67 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES. WET AND DRY SAMPLES SUBMITTED.
Shutdown	03/04/2012 07:32						FOR NO MORE THEN 5 MINUTES,
Drop Plug	03/04/2012 07:33						PLUG LAUNCH
Pump Displacement	03/04/2012 07:36		6	204		302.0	FRESH WATER, NO RETURNS ENTIRE JOB
Slow Rate	03/04/2012 08:13		2			874.0	10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	03/04/2012 08:16						PLUG LANDED HOLD FOR TWO MINUTES
Check Floats	03/04/2012 08:20						FLOATS HOLDING, NO ANNULAR FLOW
Pressure Test	03/04/2012 08:22						PRESSURE TEST CASING 1500 PSI FOR 30 MIN. NO LEAKS
Pump Spacer	03/04/2012 09:18						PUMPED 10BBLS SUGAR WATER THROUGH PARASITE STRING
Pump Cement	03/04/2012 11:32		3	54		84.0	TOPOUT 154 SKS HALCEM CCMT TO BE MIXED AT 12.5 PPG, 1.97 YIELD, 10.96 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES. WET AND DRY SAMPLES SUBMITTED.
Activity Description	Date/Time	Cht	Rate bbl/ min	Volume bbl		Pressure psig	Comments

		#		Stage	Total	Tubing	Casing	
Pump Cement	03/04/2012 16:00		3	35		92.0		TOPOUT 100 SKS HALCEM CCMT TO BE MIXED AT 12.5 PPG, 1.97 YIELD, 10.96 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES. WET AND DRY SAMPLES SUBMITTED., ORDERED 500 SKS OF TOP-OUT CEMENT
Pump Cement	03/05/2012 00:56		3	60		96.0		TOPOUT 171 SKS HALCEM CCMT TO BE MIXED AT 12.5 PPG, 1.97 YIELD, 10.96 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES. WET AND DRY SAMPLES SUBMITTED.
Pump Cement	03/05/2012 03:58		3	41		104.0		TOPOUT 117 SKS HALCEM CCMT TO BE MIXED AT 12.5 PPG, 1.97 YIELD, 10.96 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES. WET AND DRY SAMPLES SUBMITTED.
End Job	03/05/2012 04:50							THANK YOU FOR USING HES FROM LOGAN HUGENTOBLE AND CREW. CEMENT TO SURFACE
Post-Job Safety Meeting (Pre Rig-Down)	03/05/2012 04:55							ALL HES EMPLOYEES
Rig-Down Equipment	03/05/2012 05:00							SAFELY
Pre-Convoy Safety Meeting	03/05/2012 07:25							ALL HES EMPLOYEES
Crew Leave Location	03/05/2012 07:30							SITE WAS AS CLEAN AS WHEN WE ARRIVED

OXY-CC697-08-81

SURFACE

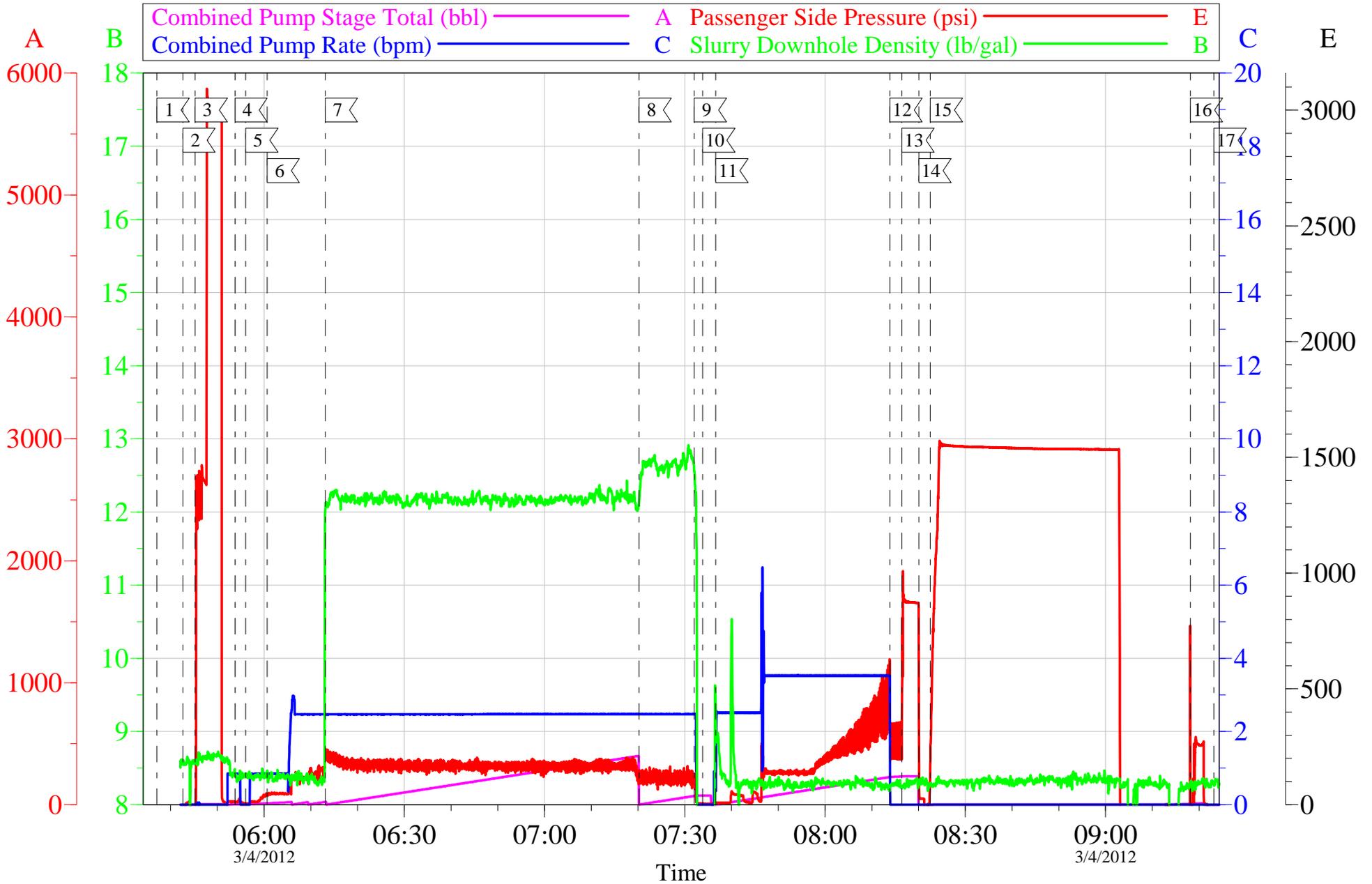


Local Event Log					
1	START JOB	05:37:06	2	PRIME LINES	05:42:39
3	PRESSURE TEST	05:45:15	4	PUMP H2O SPACER	05:53:46
5	PUMP GEL SPACER	05:56:04	6	PUMP H2O SPACER	06:00:40
7	PUMP LEAD CEMENT	06:13:07	8	PUMP TAIL CEMENT	07:20:13
9	SHUTDOWN	07:32:01	10	DROP PLUG	07:33:49
11	PUMP DISPLACEMENT	07:36:37	12	SLOW RATE	08:13:52
13	BUMP PLUG	08:16:25	14	CHECK FLOATS	08:20:04
15	PRESSURE TEST CASING	08:22:31	16	PUMP SUGAR WATER IN PARASITE	09:18:08
17	END JOB	09:23:11			

Customer: Halliburton	Job Date: 04-Mar-2012	Sales Order #: 9325075
Well Description: CC697-08-18	Job Type: SURFACE	ADC Used: YES
Company Rep: ALEX VALLEGAS	Cement Supervisor: LOGAN HUGENTOBLER	Elite #: AARON SILVERTHORN

OXY-CC697-08-81

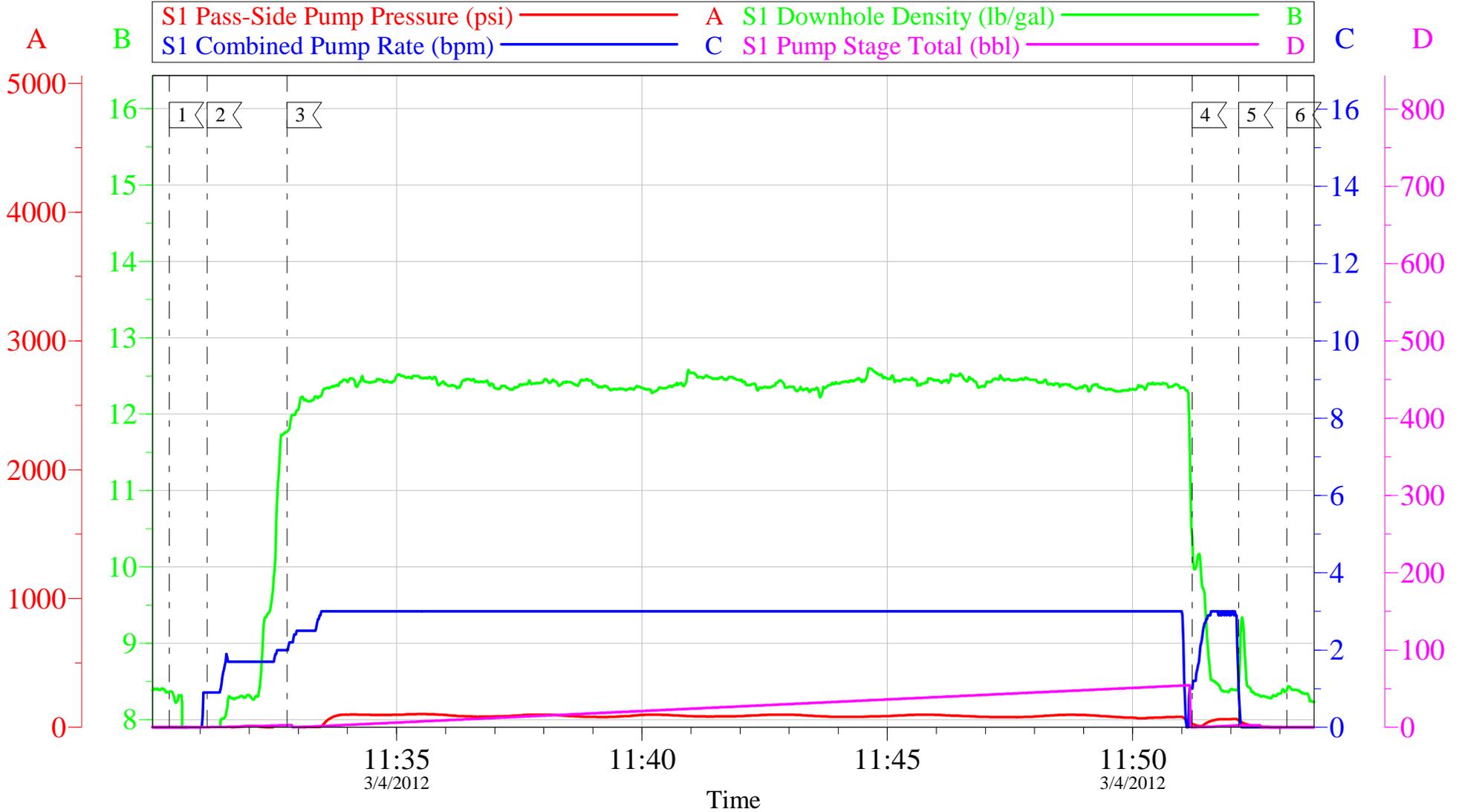
SURFACE



Customer: Halliburton	Job Date: 04-Mar-2012	Sales Order #: 9325075
Well Description: CC697-08-18	Job Type: SURFACE	ADC Used: YES
Company Rep: ALEX VALLEGAS	Cement Supervisor: LOGAN HUGENTOBLER	Elite #: AARON SILVERTHORN

OXY- CC697-08-18

TOP-OUT#1

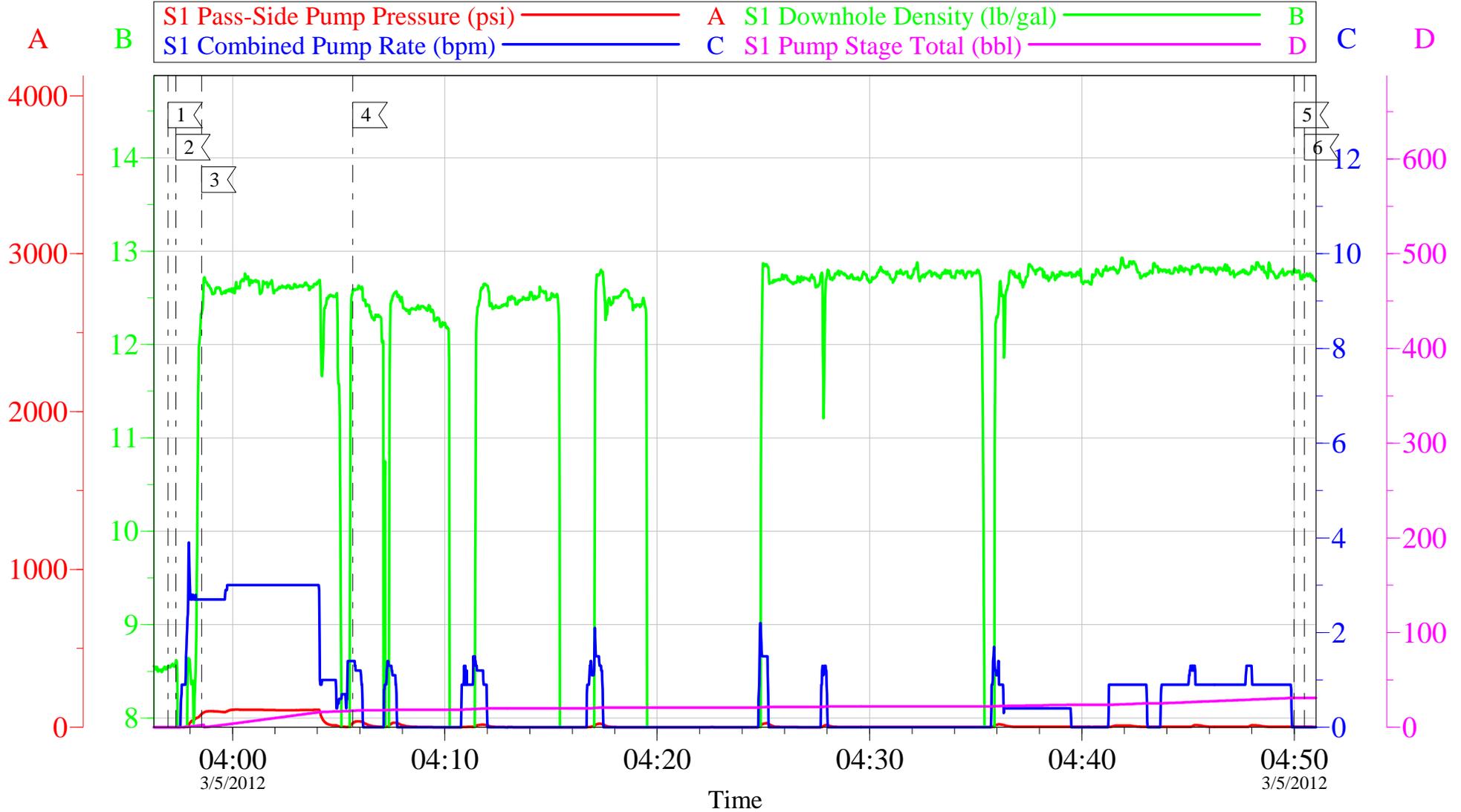


1	START JOB	11:30:22	2	H2O AHEAD	11:31:09	3	PUMP CEMENT	11:32:46
4	H2O BEHIND	11:51:13	5	SHUTDOWN	11:52:09	6	END JOB	11:53:09

Customer: OXY	Job Date: 04-Mar-2012	Sales Order #: 9325075
Well Description: CC697-08-18	Job Type: TOP-OUT#1	ADC Used: YES
Company Rep: ALEX VALLEGS	Cement Supervisor: LOGAN HUGENTOBLER	Elite #4: AARON SILVERTHORN

OXY- CC697-08-18

TOP-OUT#4

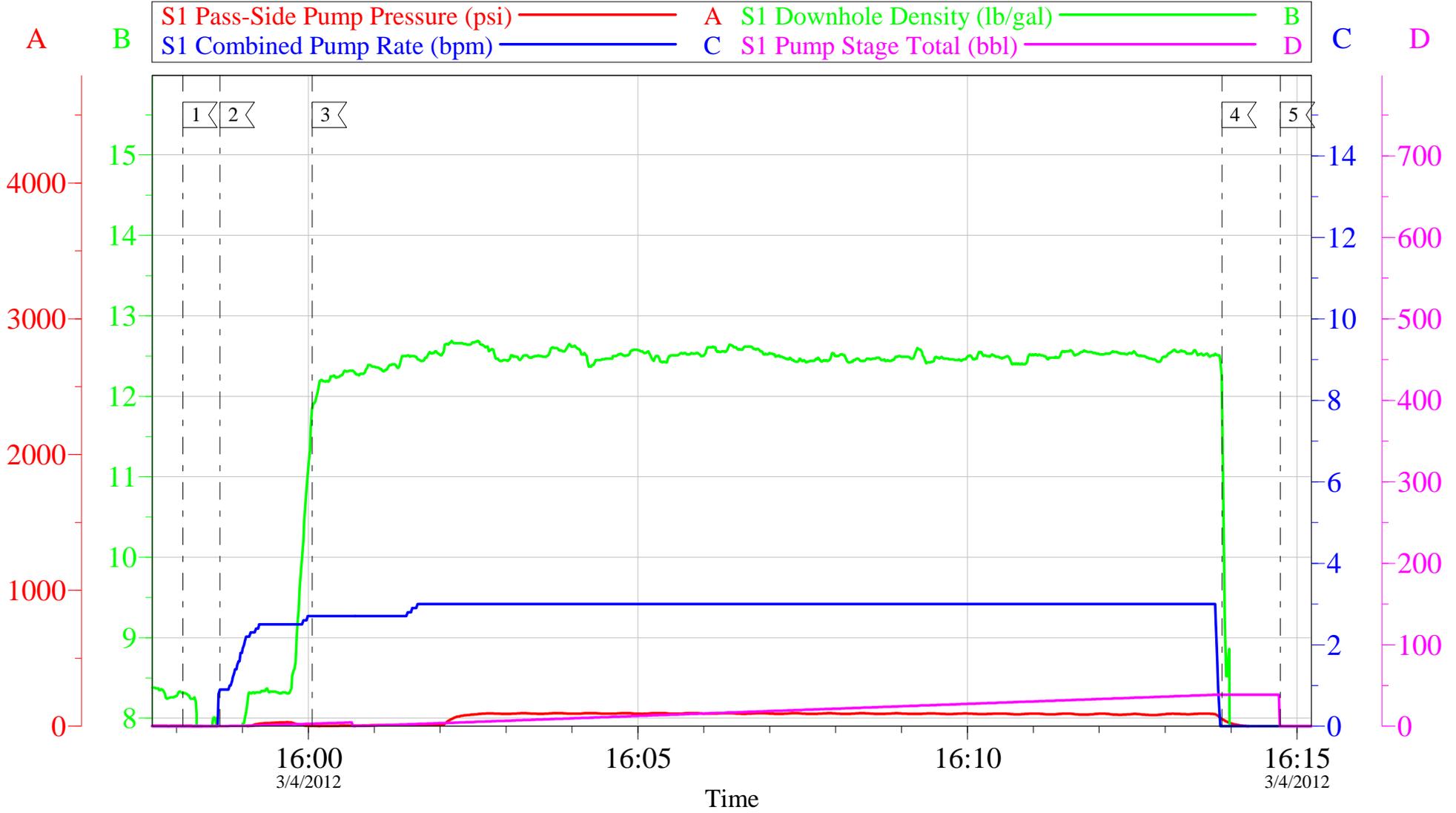


Local Event Log					
1	START JOB	03:56:58	2	PUMP H2O AHEAD	03:57:20
3	PUMP CEMENT	03:58:33	4	HESITATE CEMENT	04:05:40
5	SHUTDOWN	04:50:00	6	END JOB	04:50:28

Customer:	OXY	Job Date:	05-Mar-2012	Sales Order #:	9325075
Well Description:	CC697-08-18	Job Type:	TOP-OUT#4	ADC Used:	YES
Company Rep:	ALEX VALLEGAS	Cement Supervisor:	LOGAN HUGENTOBLER	Elite #4:	AARON SILVERTHORN

OXY-CC 697-08-18

TOP-OUT#2

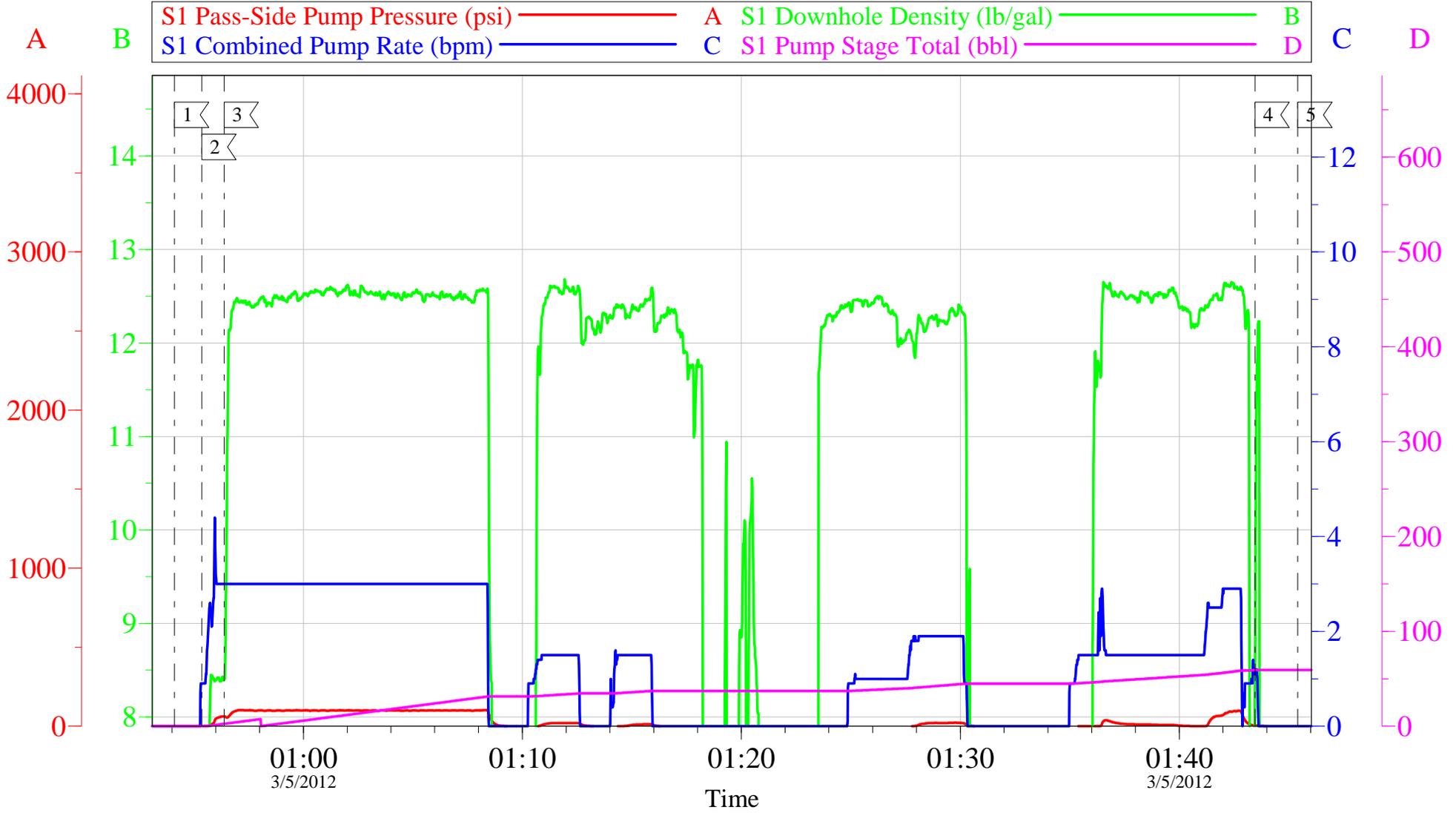


1	START JOB	15:58:06	2	H2O AHEAD	15:58:40	3	PUMP CEMENT	16:00:04
4	SHUTDOWN	16:13:52	5	END JOB	16:14:45			

Customer: OXY	Job Date: 04-Mar-2012	Sales Order #: 9325075
Well Description: CC 697-08-18	Job Type: TOP-OUT#3	ADC Used: YES
Company Rep: ALEX V.	Cement Supervisor: LOGAN HUGENTOBLER	Elite #4: AARON SILVERTHORNE

OXY-CC697-08-18

TOP-OUT#3



1	START JOB	00:54:07	2	PUMP H2O AHEAD	00:55:21	3	PUMP CEMENT	00:56:23
4	SHUTDOWN	01:43:28	5	END JOB	01:45:25			

Customer: OXY	Job Date: 05-Mar-2012	Sales Order #: 9325075
Well Description: CC697-08-18	Job Type: TOP=OUT#3	ADC Used: YES
Company Rep: ALEX VALLEGAS	Cement Supervisor: LOGAN HUGENTOBLE	Elite #4: AARON SILVERTHORN

HALLIBURTON

Water Analysis Report

Company: OXY

Date: 3/17/2012

Submitted by: LOGAN HUGENTOBLER

Date Rec.: 3/17/2012

Attention: _____

S.O.# 9325075

Lease CC

Job Type: 9.625 SURFACE

Well # 697-08-18

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	0 Mg / L
Calcium (Ca)	<i>500</i>	175 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>	70 Deg
Total Dissolved Solids		300 Mg / L

Respectfully: LOGAN HUGENTOBLER

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

Sales Order #: 9325075	Line Item: 10	Survey Conducted Date: 3/5/2012
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: ALEX VALLEGAS		API / UWI: (leave blank if unknown) 05-045-20971
Well Name: CC		Well Number: 697-08-18
Well Type: Disposal 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	3/5/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	LOGAN HUGENTOBLER (HB15210)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	ALEX VALLEGAS
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	GUYS DID A GREAT JOB, THANKS

CUSTOMER SIGNATURE

Sales Order #: 9325075	Line Item: 10	Survey Conducted Date: 3/5/2012
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: ALEX VALLEGAS		API / UWI: (leave blank if unknown) 05-045-20971
Well Name: CC		Well Number: 697-08-18
Well Type: Disposal Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	3/5/2012
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	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	18
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)	10
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	8
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 #: 9325075	Line Item: 10	Survey Conducted Date: 3/5/2012
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Customer Representative: ALEX VALLEGAS		API / UWI: (leave blank if unknown) 05-045-20971
Well Name: CC		Well Number: 697-08-18
Well Type: Disposal 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