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**OXY GRAND JUNCTION EBUSINESS**

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**CC 697-05-30B  
GRAND VALLEY  
Garfield County , Colorado**

**Cement Surface Casing**  
12-Nov-2011

**Post Job Report**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 344034	<b>Ship To #:</b> 344034	<b>Quote #:</b>	<b>Sales Order #:</b> 8560987
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Customer Rep:</b> Kneese, Jeremy	
<b>Well Name:</b> CC		<b>Well #:</b> 697-05-30B	<b>API/UWI #:</b> 05-045-20368
<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b> ADDISON	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.555 deg. OR N 39 deg. 33 min. 16.488 secs.		<b>Long:</b> W 108.242 deg. OR W -109 deg. 45 min. 27.864 secs.	
<b>Contractor:</b> H&P 353		<b>Rig/Platform Name/Num:</b> H&P 353	
<b>Job Purpose:</b> Cement Surface Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> HIMES, JEFFREY		<b>Srvc Supervisor:</b> ARNOLD, EDWARD	<b>MBU ID Emp #:</b> 439784

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ARNOLD, EDWARD John	12	439784	JENKINS, DEMON Lashaun	3	457892	MILLER II, MATTHEW Reginald	12	425164
PARKER, BRANDON	3	503646	WOLFE, JON P	12	485217			

**Equipment**

HES Unit #	Distance-1 way						
10297346	240 mile	10897909	240 mile	10938657	240 mile	10938677	240 mile
10973565	240 mile	11071559	240 mile	11360871	240 mile	11542767	240 mile
11583933	240 mile						

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11.11.11	8	6	11.12.11	4	4			
<b>TOTAL</b>			<i>Total is the sum of each column separately</i>					

**Job**

**Job Times**

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
					11 - Nov - 2011	09:30	MST
<b>Form Type</b>			BHST	<b>On Location</b>	11 - Nov - 2011	16:00	MST
<b>Job depth MD</b>	2710. ft		<b>Job Depth TVD</b>	2710. ft	<b>Job Started</b>	11 - Nov - 2011	21:00
<b>Water Depth</b>			<b>Wk Ht Above Floor</b>	. ft	<b>Job Completed</b>	12 - Nov - 2011	02:14
<b>Perforation Depth (MD)</b>	<i>From</i>		<i>To</i>		<b>Departed Loc</b>	12 - Nov - 2011	04:00

**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				14.75				.	2710.		
Surface Casing	Unknown		9.625	8.921	36.			.	2698.1		

**Sales/Rental/3<sup>rd</sup> 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 <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Spacer		20.00	bbl	8.33	.0	.0	4	
2	Gel Spacer		20.00	bbl	.	.0	.0	4	
3	Water Spacer		20.00	bbl	.	.0	.0	4	
4	Lead Cement	VERSACEM (TM) SYSTEM (452010)	1050.0	sacks	12.3	2.33	12.62	7	12.62
	12.62 Gal	FRESH WATER							
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.07	10.67	7	10.67
	10.67 Gal	FRESH WATER							
6	Displacement		201.00	bbl	.	.0	.0	6	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)	25.0	sacks	12.5	1.97	10.96	2	10.96
	10.96 Gal	FRESH WATER							
Calculated Values		Pressures			Volumes				
Displacement	201	Shut In: Instant		Lost Returns		Cement Slurry	503	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	233	Actual Displacement	201	Treatment	
Frac Gradient		15 Min		Spacers	74	Load and Breakdown		Total Job	778.3
Rates									
Circulating	RIG	Mixing	7	Displacement	6	Avg. Job	6.5		
Cement Left In Pipe	Amount	45.8 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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<b>Legal Description:</b>			
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<b>Job Purpose:</b> Cement Surface Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> HIMES, JEFFREY		<b>Srvc Supervisor:</b> ARNOLD, EDWARD	<b>MBU ID Emp #:</b> 439784

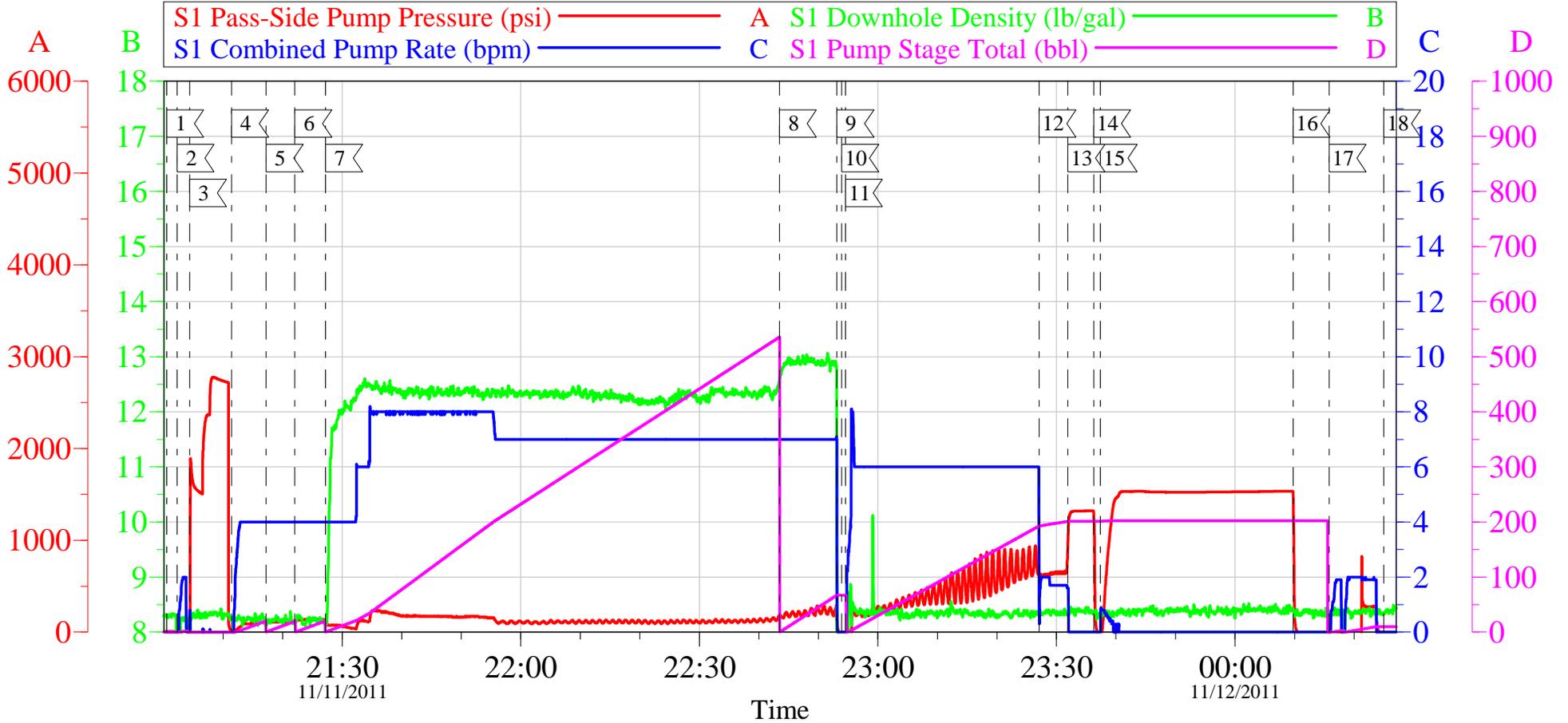
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/11/2011 09:30							
Pre-Convoy Safety Meeting	11/11/2011 11:45							Including entire cement crew.
Crew Leave Yard	11/11/2011 12:00							
Arrive At Loc	11/11/2011 16:00							Rig still Running casing. Demond and Brandon loaded the silo and were lead down the mountain prior to rig up.
Assessment Of Location Safety Meeting	11/11/2011 16:05							Water; PH7 ; KCL 250; So4 <200; Fe 3 ; Calcium 120; Chlorides- ; Temp ; 240TDS .
Pre-Rig Up Safety Meeting	11/11/2011 19:30							Including entire cement crew.
Rig-Up Equipment	11/11/2011 19:40							1 Elite # ; 1 660 bulk truck; 1 Field Storage Silo; 1 hard line to cellar; 2 lines to uprights. 9.625" compact head.
Rig-Up Completed	11/11/2011 20:20							
Pre-Job Safety Meeting	11/11/2011 20:30							Including everyone on location.
Start Job	11/11/2011 21:00							TD 2710; TP 2689.11; SJ 45.89; Landing Joint to taken off prior to job 31.5; Casing 9.625 36#, Mud 9.2 ppg; Parasite set at 2431. Off line cement job, no derrick charge.
Pump Water	11/11/2011 21:02		2	2			10.0	Fill lines with fresh water.

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Test Lines	11/11/2011 21:04					2500.0		Good pressure test, no leaks.
Pump Spacer 1	11/11/2011 21:11		4	20			105.0	20 BBL fresh water spacer.
Pump Spacer 2	11/11/2011 21:17		4	20			120.0	Gel Water Spacer.
Pump Spacer 1	11/11/2011 21:22		4	20				20 BBL Fresh Water Spacer.
Pump Lead Cement	11/11/2011 21:27		7	435.7			184.0	1050 sks Lead Cement, 12.3 ppg, 2.33 cf3, 12.62 gal/sk. 105 lbs of tuff fiber inn lead cement.
Pump Tail Cement	11/11/2011 22:43		7	58.9			285.0	160 sks Tail Cement, 12.8 ppg, 2.07 cf3, 10.67 gal/sk. Got cement to surface during cement job. Aprox 233 BBL of Cement to Surface.
Shutdown	11/11/2011 22:52							
Drop Plug	11/11/2011 22:53							Plug left container.
Pump Displacement	11/11/2011 22:54		6	191.8			740.0	Fresh water displacement.
Slow Rate	11/11/2011 23:27		2	10			658.0	Slow rate 10 BBL's prior to bumping the plug.
Bump Plug	11/11/2011 23:31				201.8		1318.0	Bumped plug, took 500 PSI over.
Check Floats	11/11/2011 23:36							Floats held, 1 BBL back
Pressure Up Well	11/11/2011 23:37						1530.0	Pressure Test Casing for 30 min.
Release Casing Pressure	11/12/2011 00:09							
Pump Water	11/12/2011 00:15		2	10			826.0	Pump out Parasite line with 10 bbl sugar water.
End Job	11/12/2011 00:25							Measured top of cement at 0130. Cement fell back Aprox. 60 Ft.
Start Job	11/12/2011 01:50							Start top out.
Pump Water	11/12/2011 01:51		0	2				Boost 2 BBL fresh water ahead to make sure lines are clear.
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pump Cement	11/12/2011 02:02		2	8.7		82.0		25 sks Top Out Cement, 12.5 ppg, 1.97 cf3, 10.96 gal/sk. Got Cement to surface. Down hole dosimeter was not reading properly during top out job, I put the recirc density on the chart to show what was pumped.
Pump Water	11/12/2011 02:11		0	2				Boost 2 BBL fresh water behind to clear lines.
End Job	11/12/2011 02:14							Got cement to surface. No add Hours.
Pre-Rig Down Safety Meeting	11/12/2011 02:30							Including entire cement crew.
Rig-Down Equipment	11/12/2011 02:35							
Rig-Down Completed	11/12/2011 03:50							
Pre-Convoy Safety Meeting	11/12/2011 03:55							Including entire cement crew.
Crew Leave Location	11/12/2011 04:00							Crew leave location for Service Center or another location.
Other	11/12/2011 04:00							Thank You for using Halliburton. Ed Arnold and Crew.

# OXY CC 697-05-30B

9.625 Surface

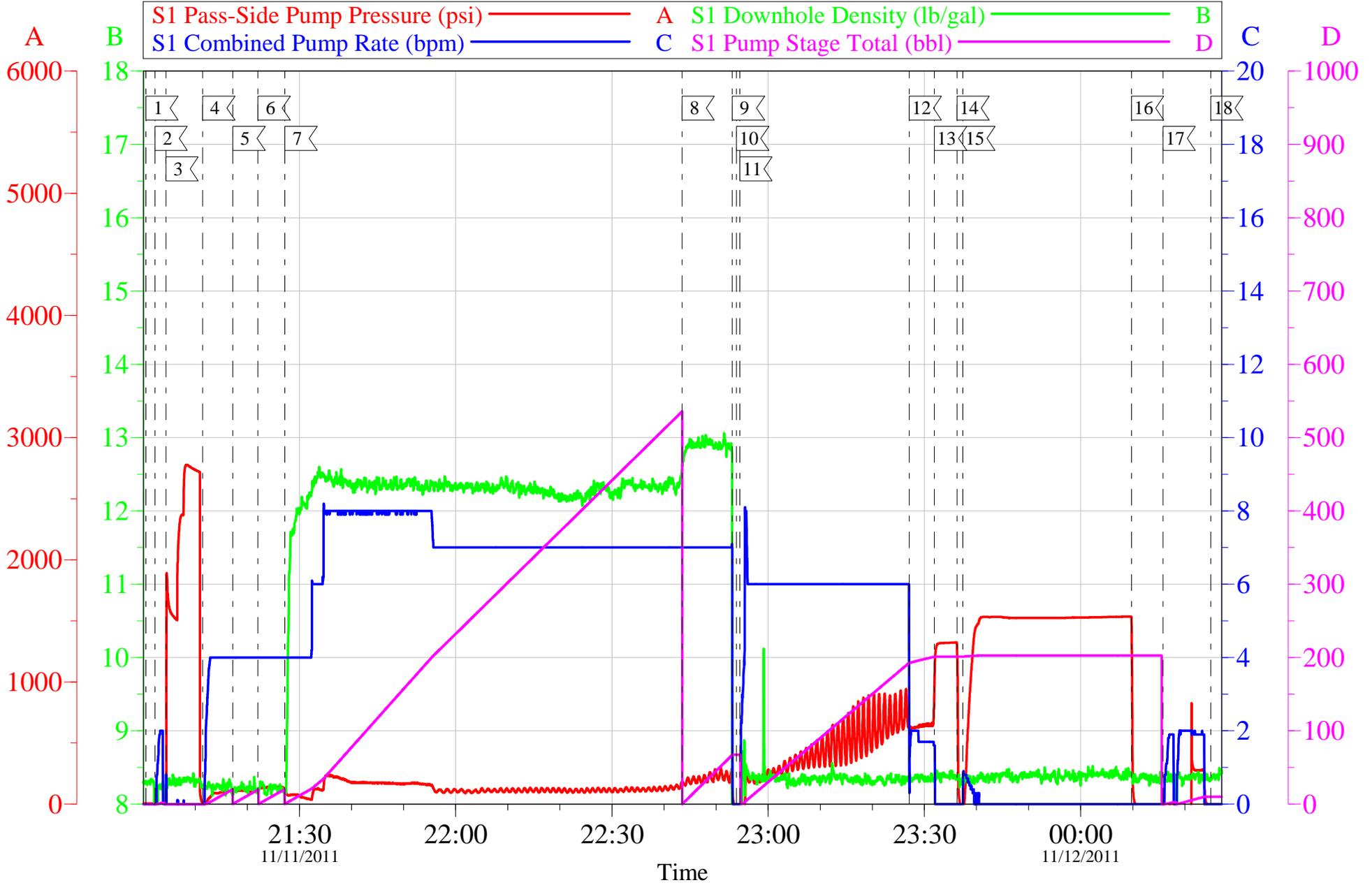


Local Event Log								
1	Start Job	11/11/2011 21:00:31	2	Fill Lines	11/11/2011 21:02:16	3	Test Lines	11/11/2011 21:04:21
4	H2O Spacer	11/11/2011 21:11:25	5	Gel Spacer	11/11/2011 21:17:13	6	H2O Spacer	11/11/2011 21:22:03
7	Lead Cement	11/11/2011 21:27:12	8	Tail Cement	11/11/2011 22:43:29	9	Shut Down	11/11/2011 22:53:07
10	Drop Plug	11/11/2011 22:53:56	11	H2O Displacement	11/11/2011 22:54:34	12	Slow Rate	11/11/2011 23:27:05
13	Bump Plug	11/11/2011 23:31:55	14	Check Floats	11/11/2011 23:36:15	15	Pressure Test Casing	11/11/2011 23:37:22
16	Release Pressure	11/12/2011 00:09:46	17	Pump Out Parisite	11/12/2011 00:15:50	18	End Job	11/12/2011 00:25:01

Customer: OXY	Job Date: 11-Nov-2011	Sales Order #: 8560987
Well Description: CC 697-05-30B	Job Type: Surface	ADC Used: Yes
Company Rep: Cal Wyley	Cement Supervisor: Ed Arnold	Elite #1: Reggie Miller

# OXY CC 697-05-30B

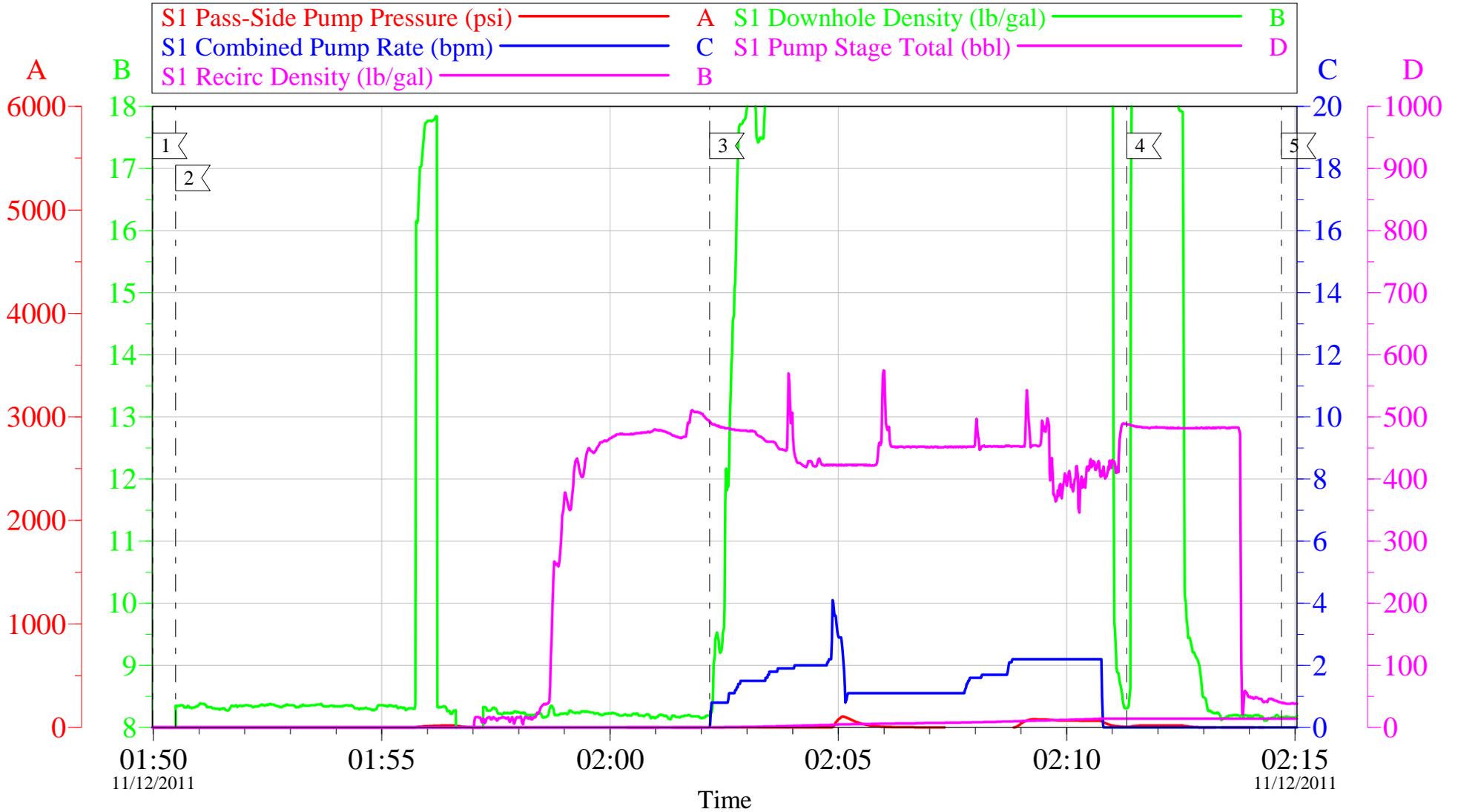
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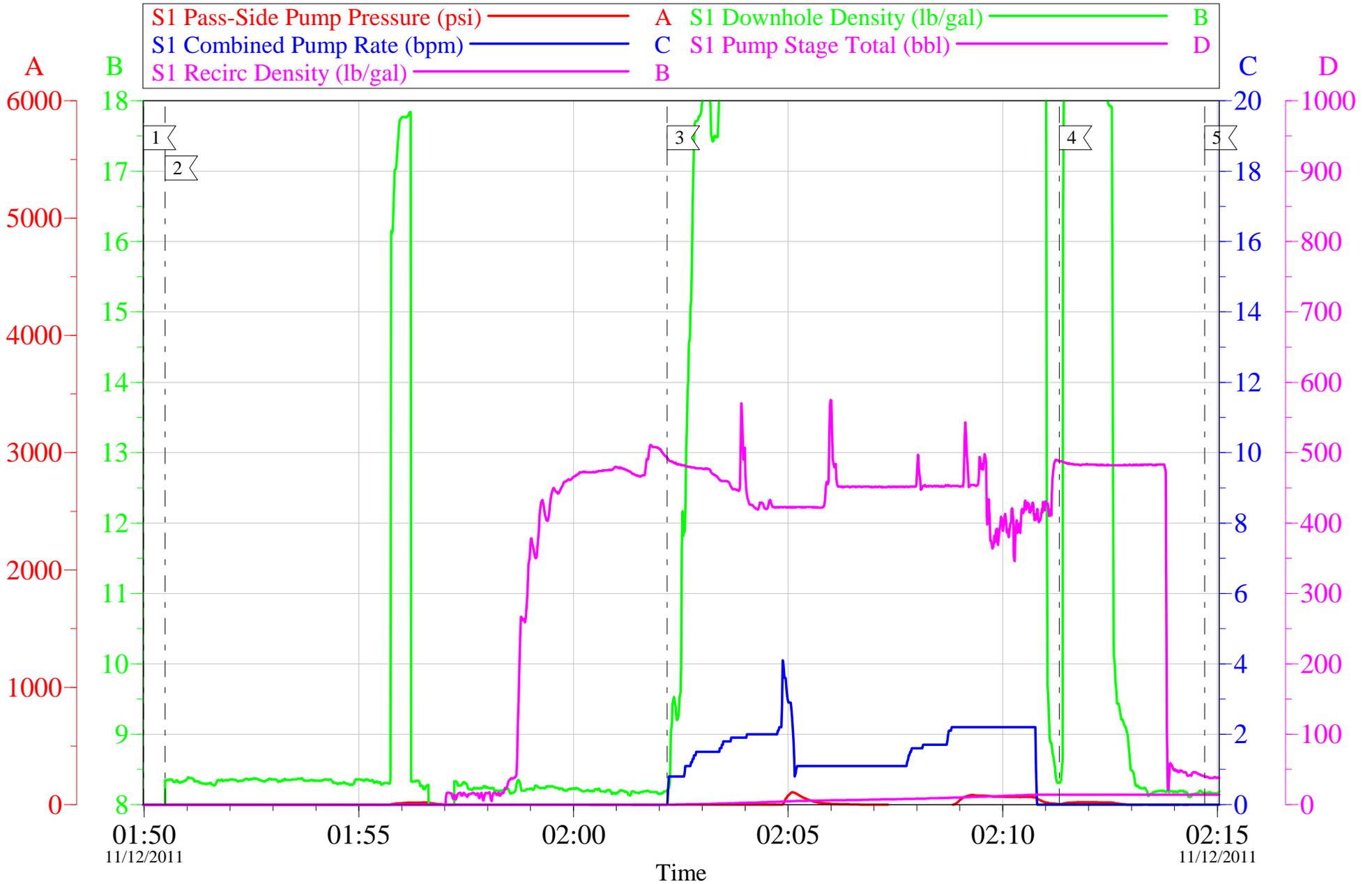
Top Out



Customer:	Job Date: 12-Nov-2011	Sales Order #: 8560987
Well Description:	Job Type:	ADC Used:
Company Rep:	Cement Supervisor:	Elite #X:

# OXY CC 697-05-30B

Top Out



Customer:	Job Date: 12-Nov-2011	Sales Order #: 8560987
Well Description:	Job Type:	ADC Used:
Company Rep:	Cement Supervisor:	Elite #X:

# HALLIBURTON

## Water Analysis Report

Company: Oxy  
Submitted by: ED ARNOLD  
Attention: J.TROUT  
Lease CC  
Well # 697-05-30B

Date: 11/11/2011  
Date Rec.: 11/11/2011  
S.O.# 8560987  
Job Type: Surface

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>250 Mg / L</b>
Calcium (Ca)	<i>500</i>	<b>120 Mg / L</b>
Iron (FE2)	<i>300</i>	<b>0 Mg / L</b>
Chlorides (Cl)	<i>3000</i>	<b>0 Mg / L</b>
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>&lt;200 Mg / L</b>
Chlorine (Cl <sub>2</sub> )		<b>0 Mg / L</b>
Temp	<i>40-80</i>	<b>70 Deg</b>
Total Dissolved Solids		<b>240 Mg / L</b>

Respectfully: ED ARNOLD

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 use.

<b>Sales Order #:</b> 8560987	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 11/12/2011
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> CAL WYLIE		<b>API / UWI: (leave blank if unknown)</b> 05-045-20368
<b>Well Name:</b> CC		<b>Well Number:</b> 697-05-30B
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> 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	11/12/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	EDWARD ARNOLD (HX46731)
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	

<b>CUSTOMER SIGNATURE</b>
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<b>Well Name:</b> CC		<b>Well Number:</b> 697-05-30B
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	11/12/2011
The date the survey was conducted	

Cementing KPI Survey	
<b>Type of Job</b>	0
Select the type of job. (Cementing or Non-Cementing)	
<b>Select the Maximum Deviation range for this Job</b>	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
<b>Total Operating Time (hours)</b>	8
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
<b>HSE Incident, Accident, Injury</b>	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
<b>Was the job purpose achieved?</b>	Yes
Was the job delivered correctly as per customer agreed design?	
<b>Operating Hours (Pumping Hours)</b>	5
Total number of hours pumping fluid on this job. Enter in decimal format.	
<b>Customer Non-Productive Rig Time (hrs)</b>	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.	
<b>Type of Rig Classification Job Was Performed</b>	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
<b>Number Of JSAs Performed</b>	5
Number Of Jsas Performed	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

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<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	98
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> 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	100
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0