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**OXY GRAND JUNCTION EBUSINESS**

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**CC 697-08-49  
GRAND VALLEY  
Garfield County , Colorado**

**Cement Surface Casing**  
21-Oct-2011

**Post Job Report**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 344034	<b>Ship To #:</b> 5033114	<b>Quote #:</b>	<b>Sales Order #:</b> 8474640
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Customer Rep:</b> CLARK, DARRYLE	
<b>Well Name:</b> CC		<b>Well #:</b> 697-08-49	<b>API/UWI #:</b> 05-045-20056
<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b> ADDISON	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.534 deg. OR N 39 deg. 32 min. 2.191 secs.		<b>Long:</b> W 108.242 deg. OR W -109 deg. 45 min. 29.34 secs.	
<b>Contractor:</b> H&P 330		<b>Rig/Platform Name/Num:</b> H&P 330	
<b>Job Purpose:</b> Cement Surface Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> ROYSTER, JACOB		<b>Srvc Supervisor:</b> MUHLESTEIN, RYAN <b>MBU ID Emp #:</b> 453609	

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BROWN, TRAVIS A	13	396848	LESTER, LEVI William	13	474117	LYNGSTAD, FREDRICK D	13	403742
MUHLESTEIN, RYAN Herrick	13	453609	PETERSON, JEFFERY B	13	498022	RAMSEY, STANTON Michael	3	477609
ROMKEE, DALE Alan	3	488215						

**Equipment**

HES Unit #	Distance-1 way						
10248057	120 mile	10533645	120 mile	10867094	120 mile	10897925	120 mile
10938673	120 mile	10938678	120 mile	10951250	120 mile	10969711	120 mile
10988964	120 mile	11139328	120 mile	11360871	120 mile	11542767	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
10/20/11	8.5	6	10/21/11	4.5	3			

**TOTAL** Total is the sum of each column separately

**Job**

**Job Times**

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
					20 - Oct - 2011	09:30	MST
<b>Form Type</b>				<b>On Location</b>	20 - Oct - 2011	15:30	MST
<b>Job depth MD</b>	27140. ft		<b>Job Depth TVD</b>	<b>Job Started</b>	20 - Oct - 2011	18:08	MST
<b>Water Depth</b>			<b>Wk Ht Above Floor</b>	<b>Job Completed</b>	21 - Oct - 2011	03:00	MST
<b>Perforation Depth (MD)</b>	<b>From</b>		<b>To</b>	<b>Departed Loc</b>	21 - Oct - 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
OPEN HOLE SECTION				14.75				.	2714.		
SURFACE CASING	Unknown		9.625	8.921	36.		J-55	.	2663.		

**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 ft3/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	.	.0	.0	4.0		
3	Water Spacer				20.00	bbl	.	.0	.0	4.0		
4	Lead Cement	VERSACEM (TM) SYSTEM (452010)			1050.0	sacks	12.3	2.33	12.62	6.5	12.62	
		12.62 Gal FRESH WATER										
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)			170.0	sacks	12.8	2.07	10.67	6.5	10.67	
		10.67 Gal FRESH WATER										
6	Displacement				202.00	bbl	.	.0	.0	6.5		
7	Topout Cement	HALCEM (TM) SYSTEM (452986)			350.00	sacks	12.5	1.97	10.96	3	10.96	
		10.96 Gal FRESH WATER										
Calculated Values		Pressures			Volumes							
Displacement	202.3	Shut In: Instant			Lost Returns	478	Cement Slurry		498.4	Pad		
Top Of Cement	SURFACE	5 Min			Cement Returns	11	Actual Displacement		202.3	Treatment		
Frac Gradient		15 Min			Spacers	60	Load and Breakdown			Total Job	760.1	
Rates												
Circulating		Mixing		6.5	Displacement		6.5	Avg. Job		6.5		
Cement Left In Pipe	Amount	46 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>Field:</b> GRAND VALLEY	<b>City (SAP):</b> ADDISON	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 39.534 deg. OR N 39 deg. 32 min. 2.191 secs.		<b>Long:</b> W 108.242 deg. OR W -109 deg. 45 min. 29.34 secs.	
<b>Contractor:</b> H&P 330		<b>Rig/Platform Name/Num:</b> H&P 330	
<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> ROYSTER, JACOB		<b>Srvc Supervisor:</b> MUHLESTEIN, RYAN	<b>MBU ID Emp #:</b> 453609

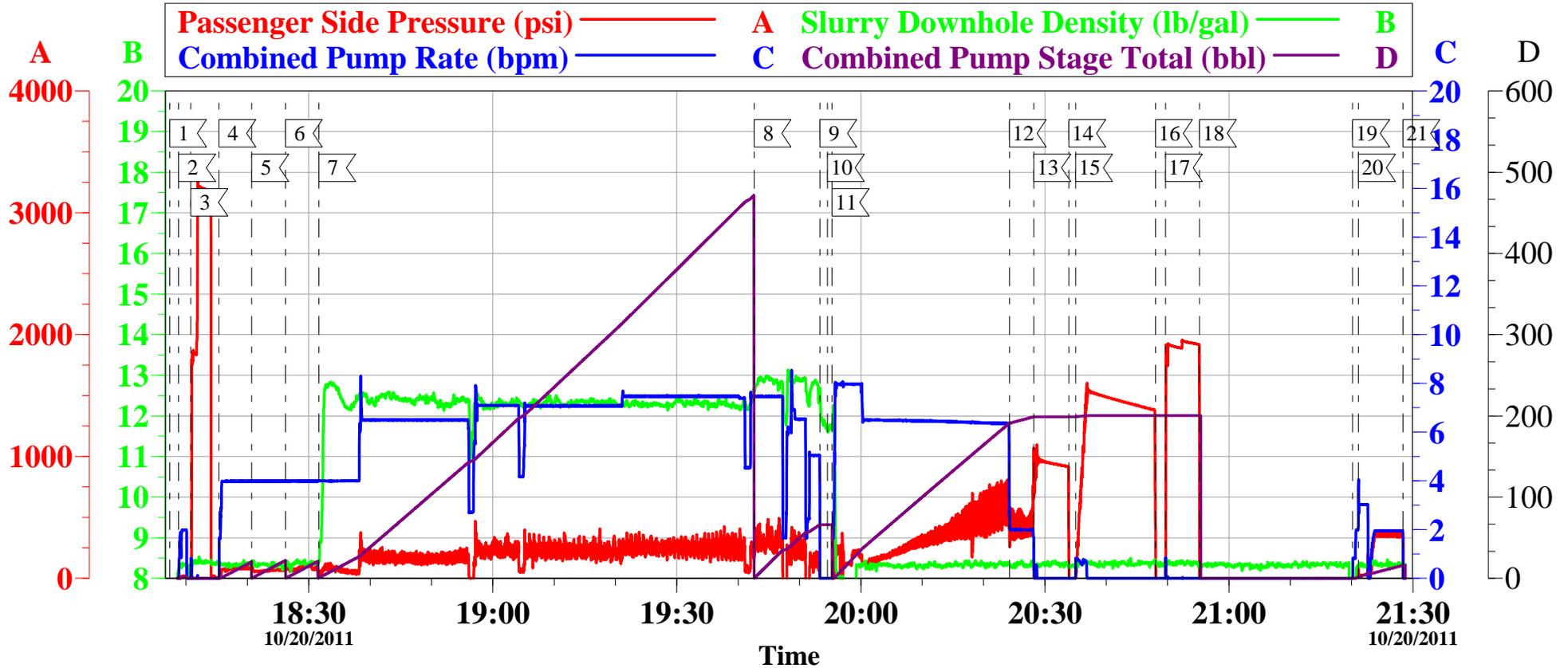
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/20/2011 09:30							
Pre-Convoy Safety Meeting	10/20/2011 11:30							ALL HES EE'S
Arrive At Loc	10/20/2011 15:30							RIG STILL RUNNING CASING
Pre-Rig Up Safety Meeting	10/20/2011 15:45							ALL HES EE'S
Rig-Up Equipment	10/20/2011 16:00							1 HT 400 PUMP, 1 BULK STORAGE SILO, 1 660 BULK TRAILER, 1 BODY LOAD TRANSPORT, 1 F-450 PICK-UP, 1 PLUG CONTAINER, 2" IN IRON TO CELLAR. PUMP CMT JOB OFF LINE
Circulate Well	10/20/2011 17:30							RIG CRIC. WELL 30 MINS, GOOD RETURNS. MUD REPORT 9.3 PPG, PV 23, YP 13
Pre-Job Safety Meeting	10/20/2011 18:00							ALL HES EE'S, RIG CREW AND CO REP
Start Job	10/20/2011 18:07							TD-2714' TP-2663' SJ-46' CASING 9 5/8" 36# J-55 HOLE 14 3/4"
Pump Water	10/20/2011 18:08		2	2			20.0	FRESH H2O TO FILL LINES
Test Lines	10/20/2011 18:10						3207.0	HELD PSI FOR 2 MIN, NO LEAKS
Pump Spacer 1	10/20/2011 18:15		4	20			86.0	FRESH H2O
Pump Spacer 2	10/20/2011 18:20		4	20			67.0	LGC GEL SPACER 5 GAL PER 10 BBLS

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	10/20/2011 18:26		4	20			99.0	FRESH H2O
Pump Lead Cement	10/20/2011 18:31		6.5	435.7			230.0	1050 SKS 12.3 PPG 2.33 FT3/SK 12.62 GAL/SK, 7 BOXES TUFF FIBER, PARTIAL RETURNS TO SURFACE AT 410 AWAY
Pump Tail Cement	10/20/2011 19:42		6.5	62.6			375.0	170 SKS 12.8 PPG 2.07 FT3/SK 10.67 GAL/SK, PARTIAL RETURNS
Shutdown	10/20/2011 19:53							WASH UP ON TOP OF PLUG
Drop Top Plug	10/20/2011 19:54							VERIFY PLUG LAUNCHED
Pump Displacement	10/20/2011 19:55		6.5	202.3			611.0	FRESH H2O DISPLACEMENT, PARTIAL RETURNS, NO CEMENT TO SURFACE
Slow Rate	10/20/2011 20:24		2	192			420.0	10 BBLs PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	10/20/2011 20:28		2	202.3			911.0	PLUG BUMPED AT 450 PSI
Check Floats	10/20/2011 20:33							FLOATS HELD, 1 BBL BACK TO PUMP TRUCK
Pressure Test	10/20/2011 20:35						1522. 0	PRESSURE TEST CASING PER CO REP REQUEST, HELD PRESSURE 12 MINS
Release Casing Pressure	10/20/2011 20:48						1386. 0	PRESSURE TEST NOT WITHIN TOLERANCE RELEASE PRESSURE PER CO REP
Pressure Test	10/20/2011 20:49						1950. 0	PRESSURE TEST PUMP TRUCK AND IRON
Other	10/20/2011 20:55							RELEASE PRESSURE
Pump Water	10/20/2011 21:20		2.5	16		350.0		PUMP SUGAR WATER THRU PARASITE LINE, CIRCULATED AT 350 PSI, FLOW NOTED TO SURFACE AT 6 BBLs AWAY

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Other	10/20/2011 21:21					200.0		PRESSURE TO CLEAR PARASITE
Shutdown	10/20/2011 21:28							SHUTDOWN
Other	10/20/2011 21:35							WAITING ON TOPOUT TRUCK
Other	10/21/2011 01:24							START 1ST TOP OUT
Pump Spacer 1	10/21/2011 01:25			1			.0	FRESH H2O, USING 6X5 TO INITIATE FLOW THRU HES IRON
Pump Cement	10/21/2011 01:27		3	20			90.0	57 SKS 12.5 PPG 1.97 FT3/SK 10.96 GAL/SK, ADDED TO THIS TICKET. 50 LBS CALCIUM CHLORIDE ADDED TO CMT GOING DOWNHOLE. 11 BBLs CMT TO SURFACE
Shutdown	10/21/2011 01:32							SHUTDOWN
Pump Cement	10/21/2011 01:34		2	1				HESITATE PUMPING 1 BBLs TO TOP OFF
Shutdown	10/21/2011 01:35							SHUTDOWN, CREW WAITS TO RIG DOWN UNTIL CO REP VERIFIES TOPOUT LEVEL
End Job	10/21/2011 03:00							CO REP RELEASES HES CREW. 3 ADD HRS CHRGD, 60 LBS SUGAR USED, NO DERRICK CHG
Pre-Rig Down Safety Meeting	10/21/2011 03:05							ALL HES EE'S
Rig-Down Equipment	10/21/2011 03:10							
Pre-Convoy Safety Meeting	10/21/2011 04:25							ALL HES EE'S
Crew Leave Location	10/21/2011 04:30							THANKS FOR USING HALLIBURTON CEMENT, RYAN MUHLESTEIN AND CREW

# OXY

CC 697-08-49 9 5/8' SURFACE CASING

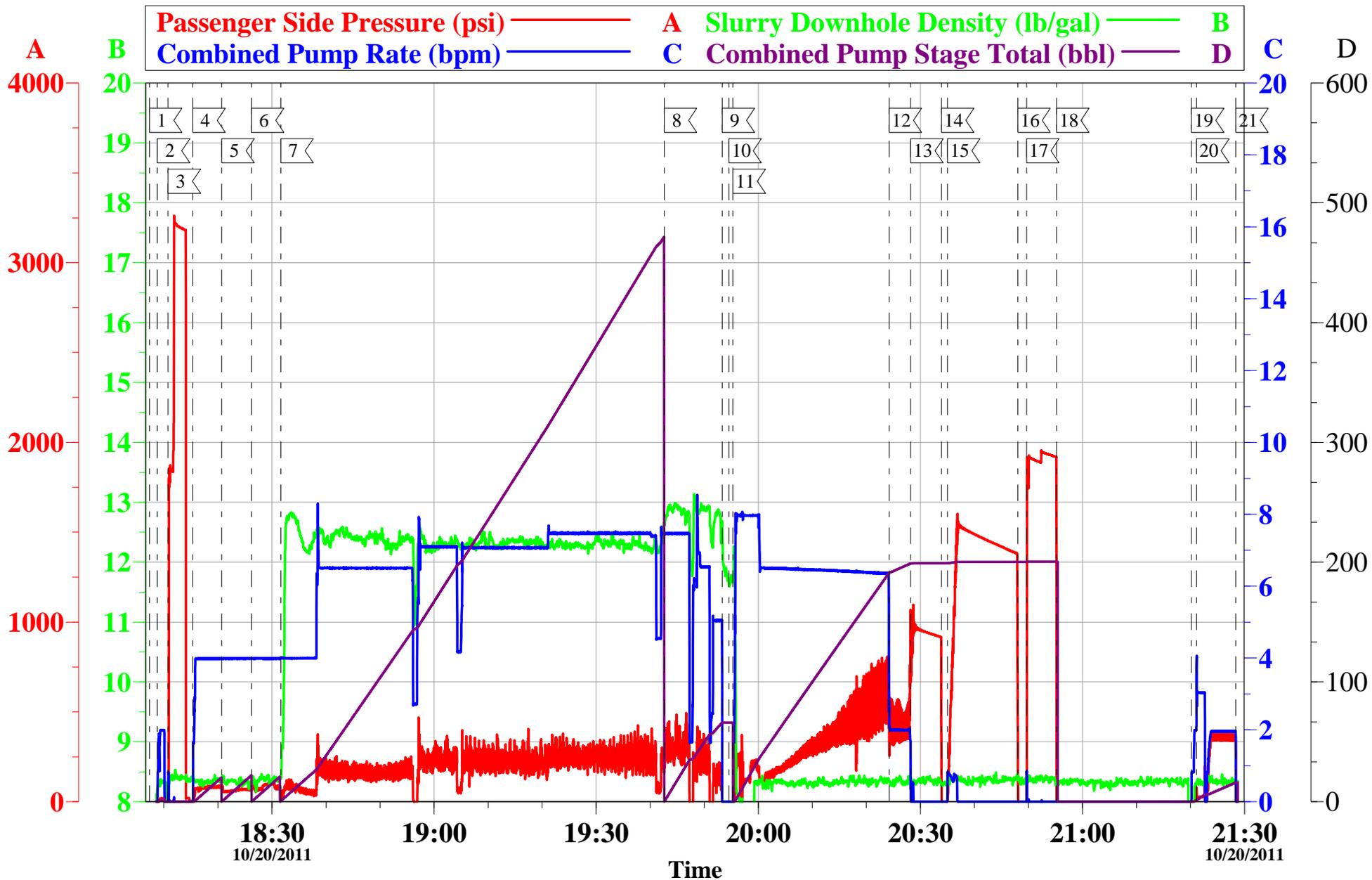


Local Event Log								
1	START JOB	18:07:18	2	PRIME LINES	18:08:47	3	PRESSURE TEST	18:10:46
4	PUMP H2O SPACER	18:15:20	5	PUMP GEL SPACER	18:20:42	6	PUMP H2O SPACER	18:26:12
7	PUMP LEAD CMT	18:31:37	8	PUMP TAIL CMT	19:42:35	9	SHUT DOWN	19:53:19
10	DROP PLUG	19:54:34	11	PUMP DISPLACEMENT	19:55:19	12	SLOW RATE	20:24:12
13	BUMP PLUG	20:28:12	14	CHECK FLOATS	20:33:54	15	PRESSURE TEST CASING	20:35:00
16	RELEASE PRESSURE	20:48:02	17	PRESSURE TEST IRON	20:49:38	18	RELEASE PRESSURE	20:55:12
19	PUMP H2O ON PARASITE	21:20:09	20	CLEAR PARASITE	21:21:07	21	SHUT DOWN	21:28:24

Customer:	OXY	Job Date:	20-Oct-2011	Sales Order #:	8474640
Well Description:	CC 697-08-49	Job type:	SURFACE	ADC Used:	YES
Customer Rep:	DARRYLE CLARK	Service Supervisor:	RYAN MUHLESTEIN	Operator/ Pump:	TRAVIS BROWN/ ELITE 1

# OXY

CC 697-08-49 9 5/8' SURFACE CASING

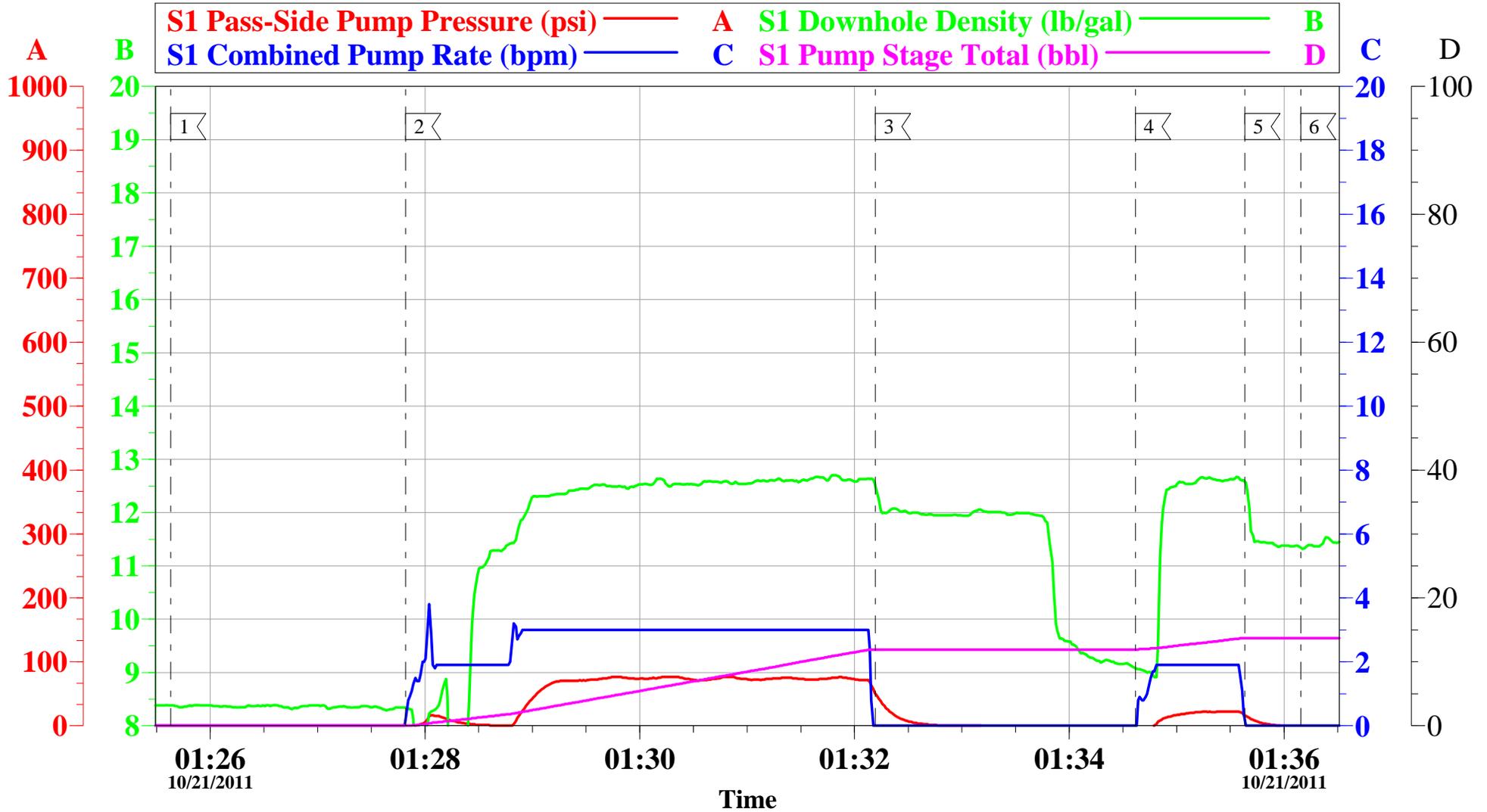


Customer: OXY	Job Date: 20-Oct-2011	Sales Order #: 8474640
Well Description: CC 697-08-49	Job type: SURFACE	ADC Used: YES
Customer Rep: DARRYLE CLARK	Service Supervisor: RYAN MUHLESTEIN	Operator/ Pump: TRAVIS BROWN/ ELITE 1

OptiCem v6.4.10  
21-Oct-11 02:42

# OXY

## CC 697-08-49 9 5/8" SURFACE CASING TOPOUT 1

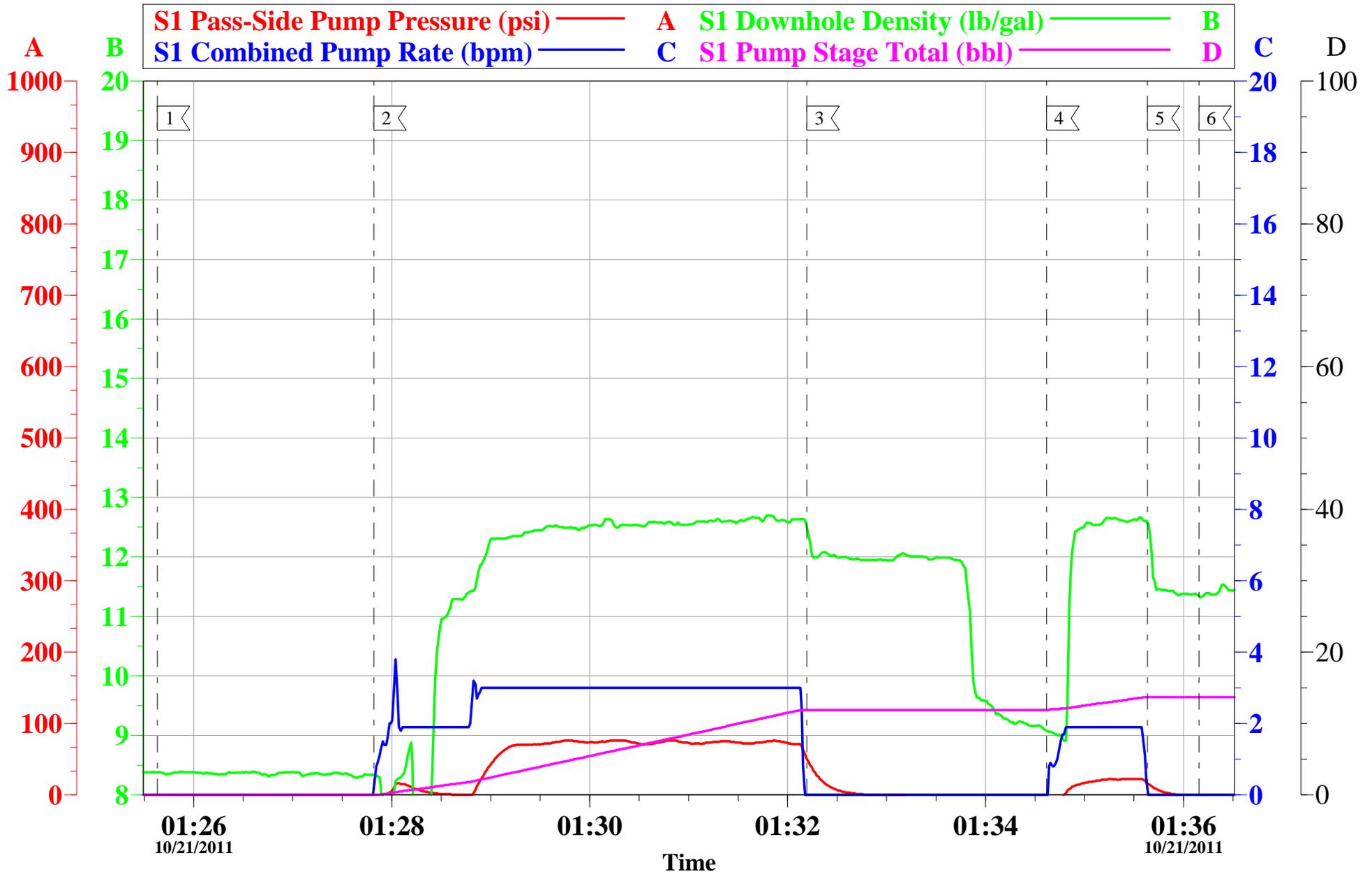


Local Event Log								
1	PUMP H2O	01:25:38	2	PUMP TOPOUT CMT	01:27:49	3	SHUT DOWN	01:32:12
4	PUMP TOPOUT CMT	01:34:37	5	SHUT DOWN	01:35:38	6	END JOB	01:36:09

Customer: OXY	Job Date: 21-Oct-2011	Sales Order #: 8474640
Well Description: CC 697-08-49	Job type: TOPOUT	ADC Used: YES
Customer Rep: DARRYLE CLARK	Service Supervisor: RYAN MUHLESTEIN	Operator/ Pump: TRAVIS BROWN/ ELITE 1

# OXY

## CC 697-08-49 9 5/8" SURFACE CASING TOPOUT 1



Customer: OXY	Job Date: 21-Oct-2011	Sales Order #: 8474640
Well Description: CC 697-08-49	Job type: TOPOUT	ADC Used: YES
Customer Rep: DARRYLE CLARK	Service Supervisor: RYAN MUHLESTEIN	Operator/ Pump: TRAVIS BROWN/ ELITE 1

# HALLIBURTON

## Water Analysis Report

Company: OXY

Date: 10/21/2011

Submitted by: RYAN MUHLESTEIN

Date Rec.: 10/21/2011

Attention: J. Trout

S.O.# 8474640

Lease CASCADE CREEK

Job Type: SURFACE

Well # 697-08-49

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>450</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>300</b> Mg / L
Iron (FE2)	<i>300</i>	<b>0</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>0</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>below 200</b> Mg / L
Chlorine (Cl <sub>2</sub> )		<b>0</b> Mg / L
Temp	<i>40-80</i>	<b>55</b> Deg
Total Dissolved Solids		<b>310</b> 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

<b>Sales Order #:</b> 8474640	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 10/21/2011
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> DARRYLE CLARK		<b>API / UWI: (leave blank if unknown)</b> 05-045-20056
<b>Well Name:</b> CC		<b>Well Number:</b> 697-08-49
<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	10/21/2011
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	DARRYLE CLARK
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	NONE
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.	

<b>CUSTOMER SIGNATURE</b>
---------------------------

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### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	10/21/2011
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>	9
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>	6
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	98
<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