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**OXY GRAND JUNCTION EBUSINESS**

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**Shell 797-03-08B  
GRAND VALLEY  
Colorado**

**Cement Surface Casing**  
20-May-2012

**Post Job Summary**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 344034	<b>Ship To #:</b> 344034	<b>Quote #:</b>	<b>Sales Order #:</b> 9527337
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Customer Rep:</b> Clark, Darryl	
<b>Well Name:</b> Shell		<b>Well #:</b> 797-03-08B	<b>API/UWI #:</b> 05-045-21284
<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b> ADDISON	<b>County/Parish:</b>	<b>State:</b> Colorado
<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> HIMES, JEFFREY		<b>Srvc Supervisor:</b> KUKUS, CHRISTOPHER	<b>MBU ID Emp #:</b> 413952

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HYDE, DUSTIN C	10.5	453940	KUKUS, CHRISTOPHER A	10.5	413952	MILLER II, MATTHEW Reginald	10.5	425164
SMITH, DUSTIN Michael	10.5	418015						

**Equipment**

HES Unit #	Distance-1 way						
10551730C	120 mile	10783493	120 mile	10822007	120 mile	11259883	120 mile
11808841	120 mile						

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
05/20/2012	10.5	4						
<b>TOTAL</b>	<i>Total is the sum of each column separately</i>							

**Job**

**Job Times**

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
<b>Formation Depth (MD)</b>			<b>On Location</b>	20 - May - 2012	04:00	MST
<b>Form Type</b>		BHST	<b>Job Started</b>	20 - May - 2012	08:30	MST
<b>Job depth MD</b>	1000. ft	<b>Job Depth TVD</b>	1000. ft	<b>Job Completed</b>	20 - May - 2012	15:46
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>	5. ft	<b>Departed Loc</b>	20 - May - 2012	17:27
<b>Perforation Depth (MD)</b>	<i>From</i>	<i>To</i>			19:00	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
<b>Sales/Rental/3<sup>rd</sup> Party (HES)</b>											

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 5/8	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8	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

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	Fresh Water Spacer		10.00	bbl	8.33	.0	.0	4	
2	Gel Water Spacer		20.00	bbl	8.4	.0	.0	4	
0.25 gal/bbl		LGC-36 UC, BULK (101582749)							
3	Fresh Water Spacer		10.00	bbl	8.33	.0	.0	2	
4	Lead Cement	VERSACEM (TM) SYSTEM (452010)	158.0	sacks	12.3	2.38	13.77	6	13.77
5	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	126.0	sacks	14.2	1.43	6.85	6	6.85
6.85 Gal		FRESH WATER							
6	Fresh Water Displacement		77.30	bbl	8.33	.0	.0	6	
Calculated Values		Pressures			Volumes				
Displacement	77.3	Shut In: Instant		Lost Returns	0	Cement Slurry	99	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	37	Actual Displacement	77.3	Treatment	
Frac Gradient		15 Min		Spacers	40	Load and Breakdown		Total Job	216.3
Rates									
Circulating		Mixing	6	Displacement	6	Avg. Job			6
Cement Left In Pipe	Amount	44 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*

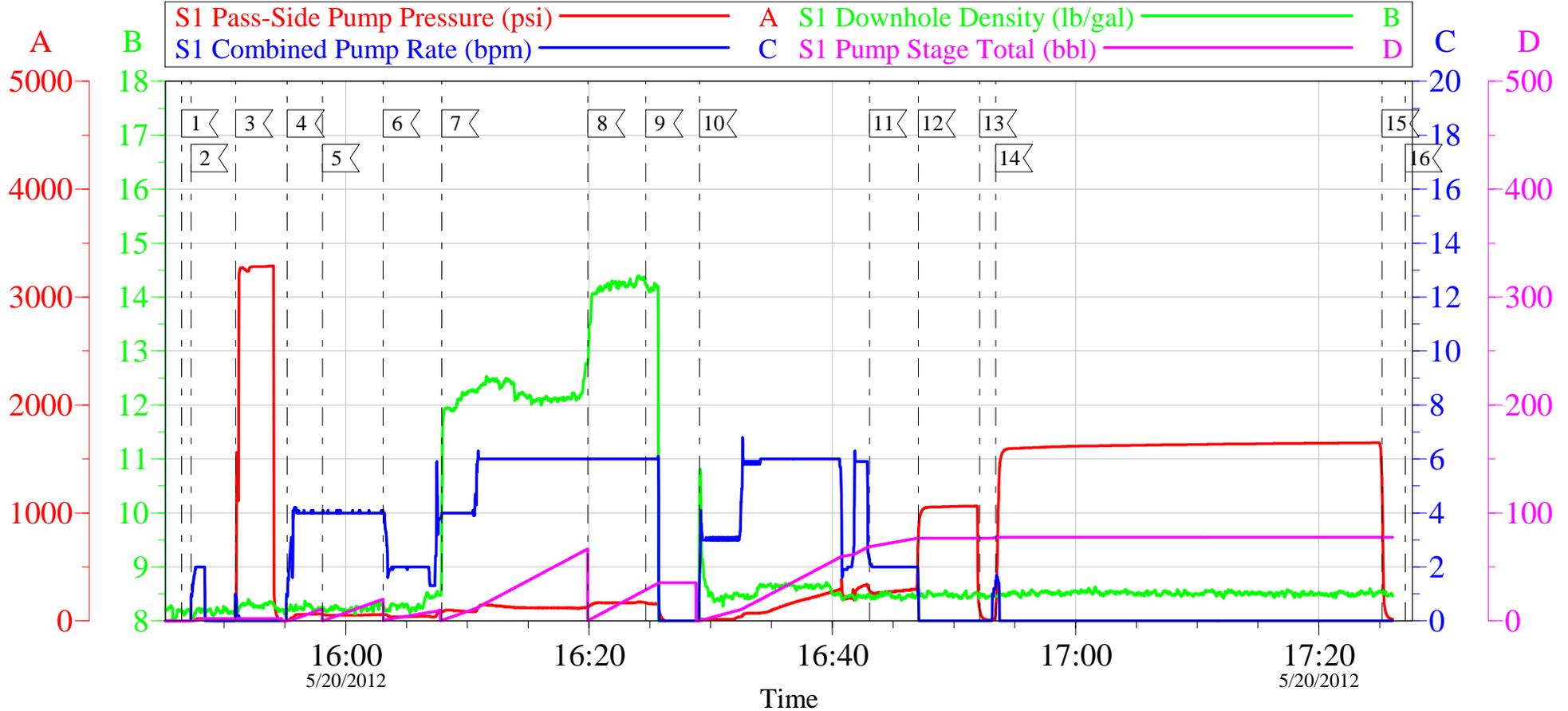
<b>Sold To #:</b> 344034	<b>Ship To #:</b> 344034	<b>Quote #:</b>	<b>Sales Order #:</b> 9527337
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<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b> ADDISON	<b>County/Parish:</b>	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 0 deg. OR N 0 deg. 0 min. 0 secs.		<b>Long:</b> E 0 deg. OR E 0 deg. 0 min. 0 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> HIMES, JEFFREY		<b>Srvc Supervisor:</b> KUKUS, CHRISTOPHER	<b>MBU ID Emp #:</b> 413952

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	05/20/2012 04:00							ELITE # 2
Depart Yard Safety Meeting	05/20/2012 07:00							ALL HES EMPLOYEES
Arrive At Loc	05/20/2012 08:30							RIG RUNNING CASING HES CREW ARRIVED 1/2 HOUR EARLY DID NOT START CHARGE HOURS UNTIL REQUESTED ON LOCATION TIME
Assessment Of Location Safety Meeting	05/20/2012 08:40							ALL HES EMPLOYEES
Pre-Rig Up Safety Meeting	05/20/2012 08:50							ALL HES EMPLOYEES
Rig-Up Equipment	05/20/2012 09:00							1 F-550 PICKUP 1 HT- 400 PUMP TRUCK 1 660 BULK TRUCK
Pre-Job Safety Meeting	05/20/2012 15:30							ALL HES EMPLOYEES AND RIG CREW
Start Job	05/20/2012 15:46							TD: 1000 TP: 1044.5 SJ: 44 CSG: 9 5/8 36# OH: 12 1/4 MUD WT 9.2
Test Lines	05/20/2012 15:50					3285. 0		PRESSURE TEST OK
Pump Spacer	05/20/2012 15:55		4	10	10		63.0	FRESH WATER SPACER
Pump Spacer	05/20/2012 15:58		4	20	20		58.0	20 BBL GEL SPACER
Pump Spacer	05/20/2012 16:03		2	10	10		76.0	FRESH WATER SPACER
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pump Lead Cement	05/20/2012 16:07		6	66.9	66.9		169.0	158 SKS 12.3 PPG 2.38 YEILD 13.77 GAL / SK LEAD CEMENT WEIGHT VERIFIED VIA MUD SCALES
Pump Tail Cement	05/20/2012 16:19		6	32.1	32.1		169.0	126 SKS 14.2 PPG 1.43 YEILD 6.85 GAL / SK TAIL CEMENT WEIGHT VERIFIED VIA MUD SCALES
Shutdown	05/20/2012 16:24							
Drop Plug	05/20/2012 16:25							PLUG AWAY NO PROBLEMS
Pump Displacement	05/20/2012 16:29		6	77.3	77.3		300.0	FRESH WATER
Slow Rate	05/20/2012 16:43		2	67.3	67.3		265.0	SLOW RATE TO BUMP PLUG
Bump Plug	05/20/2012 16:47		2	77.3	77.3		300.0	BUMP PLUG @ 300 AND TOOK PRESSURE UP TO 1055 PSI
Check Floats	05/20/2012 16:52							FLOATS HELD 1 BBL BACK TO DISPLACEMENT TANKS
Other	05/20/2012 16:53							1500 PSI CASING TEST FOR 30 MINS
End Job	05/20/2012 17:27							GOT 37 BBL CEMENT TO SURFACE
Pre-Rig Down Safety Meeting	05/20/2012 17:30							ALL HES EMPLOYEES
Rig-Down Equipment	05/20/2012 18:00							
Pre-Convoy Safety Meeting	05/20/2012 18:30							ALL HES EMPLOYEES
Crew Leave Location	05/20/2012 19:00							THANK YOU FOR USING HALLIBURTON CEMENT CHRIS KUKUS AND CREW

# OXY - SHELL 797-03-08B

9 5/8 SURFACE



## Local Event Log

1	START JOB	15:46:30	2	FILL LINES	15:47:17	3	TEST LINES	15:50:58
4	PUMP H2O SPACER	15:55:12	5	PUMP GEL SPACER	15:58:05	6	PUMP H2O SPACER	16:03:04
7	PUMP LEAD CEMENT	16:07:54	8	PUMP TAIL CEMENT	16:19:55	9	SHUT DOWN / DROP PLUG	16:24:41
10	PUMP H2O DISPLACEMENT	16:29:06	11	SLOW RATE	16:43:05	12	BUMP PLUG	16:47:05
13	RELEASE PRESSURE	16:52:07	14	CASING TEST 1500	16:53:26	15	RELEASE PRESSURE	17:25:12
16	END JOB	17:27:06						

Customer: OXY  
Well Description: SHELL 797-03-08B  
Company Rep: DARRYL CLARK

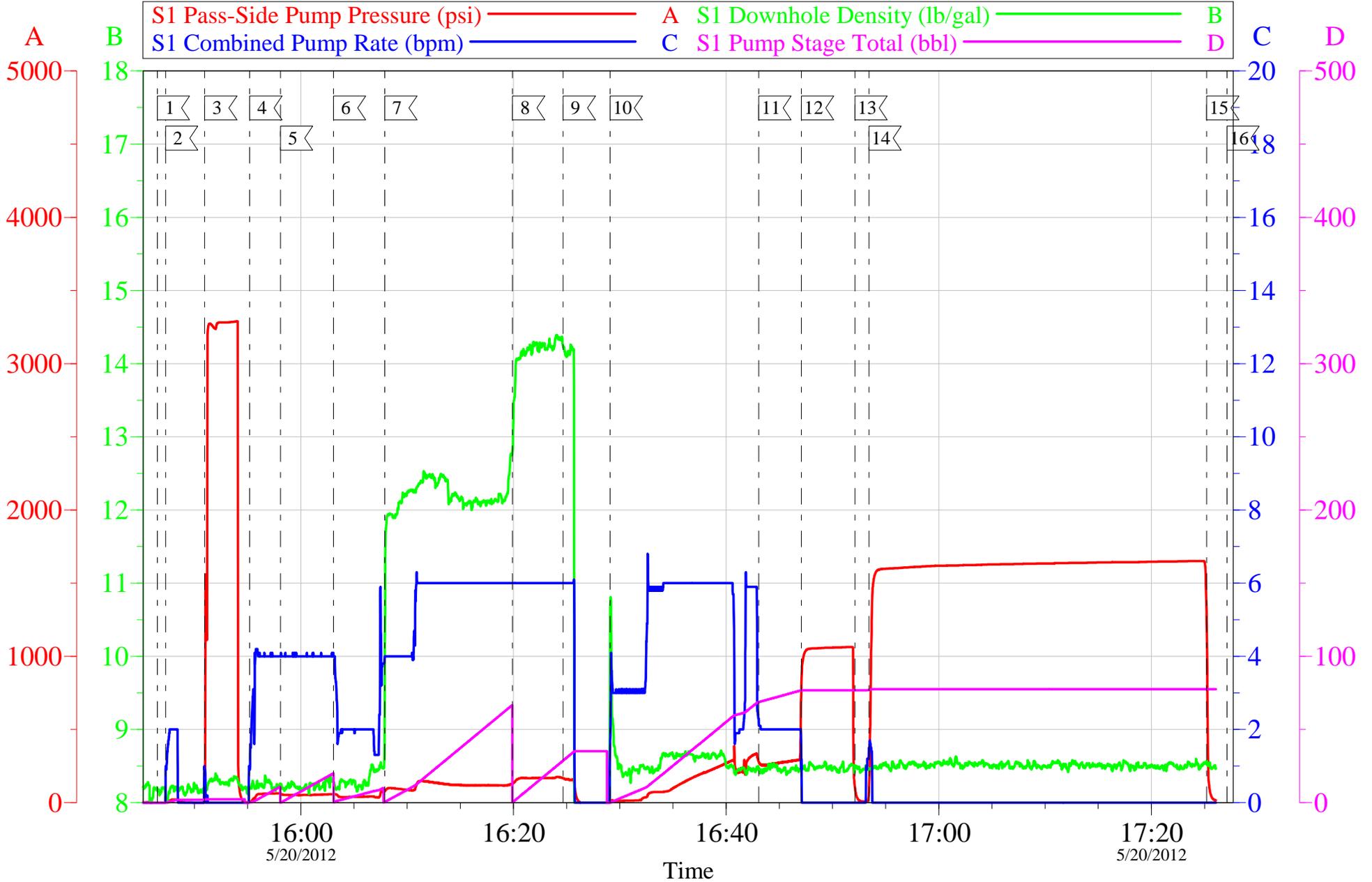
Job Date: 20-May-2012  
Job Type: SURFACE  
Cement Supervisor: CHRIS KUKUS

Sales Order #: 9527337  
ADC Used: YES  
Elite # 2: DUSTIN HYDE

OptiCem v6.4.10  
20-May-12 17:28

# OXY - SHELL 797-03-08B

9 5/8 SURFACE



Customer: OXY	Job Date: 20-May-2012	Sales Order #: 9527337
Well Description: SHELL 797-03-08B	Job Type: SURFACE	ADC Used: YES
Company Rep: DARRYL CLARK	Cement Supervisor: CHRIS KUKUS	Elite # 2: DUSTIN HYDE

# HALLIBURTON

## Water Analysis Report

Company: OXY

Date: 5/20/2012

Submitted by: CHRIS KUKUS

Date Rec.: 5/20/2012

Attention: J. TROUT/C.MARTINEZ

S.O.# 9527337

Lease SHELL

Job Type: SURFACE

Well # 797-03-08B

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>6.8</b>
Potassium (K)	<i>5000</i>	<b>0 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>UNDER 200 Mg / L</b>
Chlorine (Cl <sub>2</sub> )		<b>0 Mg / L</b>
Temp	<i>40-80</i>	<b>45 Deg</b>
Total Dissolved Solids		<b>130 Mg / L</b>

Respectfully: CHRIS KUKUS

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> 9527337	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 5/20/2012
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> DARRYL CLARK		<b>API / UWI: (leave blank if unknown)</b>
<b>Well Name:</b> Shell		<b>Well Number:</b> 797-03-08B
<b>Well Type:</b> DEVELOP	<b>Well Country:</b>	
<b>H2S Present:</b> No	<b>Well State:</b>	<b>Well County:</b>

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	5/20/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHRISTOPHER KUKUS (HX35027)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	DARRYL 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	

<b>CUSTOMER SIGNATURE</b>
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<b>Sales Order #:</b> 9527337	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 5/20/2012
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<b>Well Name:</b> Shell		<b>Well Number:</b> 797-03-08B
<b>Well Type:</b> DEVELOP	<b>Well Country:</b>	
<b>H2S Present:</b> No	<b>Well State:</b>	<b>Well County:</b>

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	5/20/2012
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>	4
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>	2
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>Well Type:</b> DEVELOP	<b>Well Country:</b>	
<b>H2S Present:</b> No	<b>Well State:</b>	<b>Well County:</b>

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	90
<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	90
<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