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**OXY GRAND JUNCTION EBUSINESS**

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**CC 697-09-17A  
GRAND VALLEY  
Garfield County , Colorado**

**Cement Surface Casing  
15-Mar-2011**

**Post Job Summary**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 344034	<b>Ship To #:</b> 2842889	<b>Quote #:</b>	<b>Sales Order #:</b> 7842144
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Customer Rep:</b> Benevides, Victor	
<b>Well Name:</b> CC		<b>Well #:</b> 697-09-17A	<b>API/UWI #:</b> 05-045-18730
<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b> PARACHUTE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.542 deg. OR N 39 deg. 32 min. 30.934 secs.		<b>Long:</b> W 108.238 deg. OR W -109 deg. 45 min. 42.566 secs.	
<b>Contractor:</b> H&P Drilling		<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> DUNNING, DUSTIN		<b>Srvc Supervisor:</b> YOUNG, JEREMY	<b>MBU ID Emp #:</b> 418013

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
NICKLE, RYON	13	454759	SMITH, DUSTIN Michael	13	418015	WOLFE, JON P	13	485217
YOUNG, JEREMY R	13	418013						

**Equipment**

HES Unit #	Distance-1 way						
10053558	120 mile	10616651C	120 mile	10867304	120 mile	10897925	120 mile
10951245	120 mile	10995025	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
03-15-2011	13	6						

**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
				14 - Mar - 2011	19:10	MST	
<b>Form Type</b>			<b>BHST</b>	<b>On Location</b>	15 - Mar - 2011	03:00	MST
<b>Job depth MD</b>	2707. ft		<b>Job Depth TVD</b>	2707. ft	<b>Job Started</b>	15 - Mar - 2011	09:47
<b>Water Depth</b>			<b>Wk Ht Above Floor</b>	5. ft	<b>Job Completed</b>	15 - Mar - 2011	13:32
<b>Perforation Depth (MD)</b>	<i>From</i>		<i>To</i>		<b>Departed Loc</b>	15 - Mar - 2011	16:00

**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
14 3/4" Open Hole				14.75				.	2725.		
9 5/8" Surface Casing	New		9.625	8.921	36.			.	2707.		

**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	

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	FRESH WATER	20.00	bbl	8.33	.0	.0	6	
2	Gel Spacer	GEL WATER	20.00	bbl	8.4	.0	.0	6	
	1000 gal/Mgal	FRESH WATER							
	0.25 gal/bbl	LGC-36 UC, BULK (101582749)							
3	Water Spacer		20.00	bbl	.	.0	.0	6	
4	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	1015.0	sacks	12.3	2.33	12.62	6	12.62
	12.62 Gal	FRESH WATER							
5	VersaCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	181.0	sacks	12.8	2.07	10.67	6	10.67
	10.67 Gal	FRESH WATER							
6	Displacement	FRESH WATER	205.00	bbl	.	.0	.0	6	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)		sacks	12.5	1.97	10.96	N/A	10.96
	10.96 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	205.7	Shut In: Instant		Lost Returns	YES	Cement Slurry	487.9	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	150	Actual Displacement	205.7	Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	753.6
Rates									
Circulating		Mixing	6	Displacement	6	Avg. Job			6
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>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Customer Rep:</b> Benevides, Victor	
<b>Well Name:</b> CC		<b>Well #:</b> 697-09-17A	<b>API/UWI #:</b> 05-045-18730
<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b> PARACHUTE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 39.542 deg. OR N 39 deg. 32 min. 30.934 secs.		<b>Long:</b> W 108.238 deg. OR W -109 deg. 45 min. 42.566 secs.	
<b>Contractor:</b> H&P Drilling		<b>Rig/Platform Name/Num:</b> H&P 353	
<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> DUNNING, DUSTIN		<b>Srvc Supervisor:</b> YOUNG, JEREMY	<b>MBU ID Emp #:</b> 418013

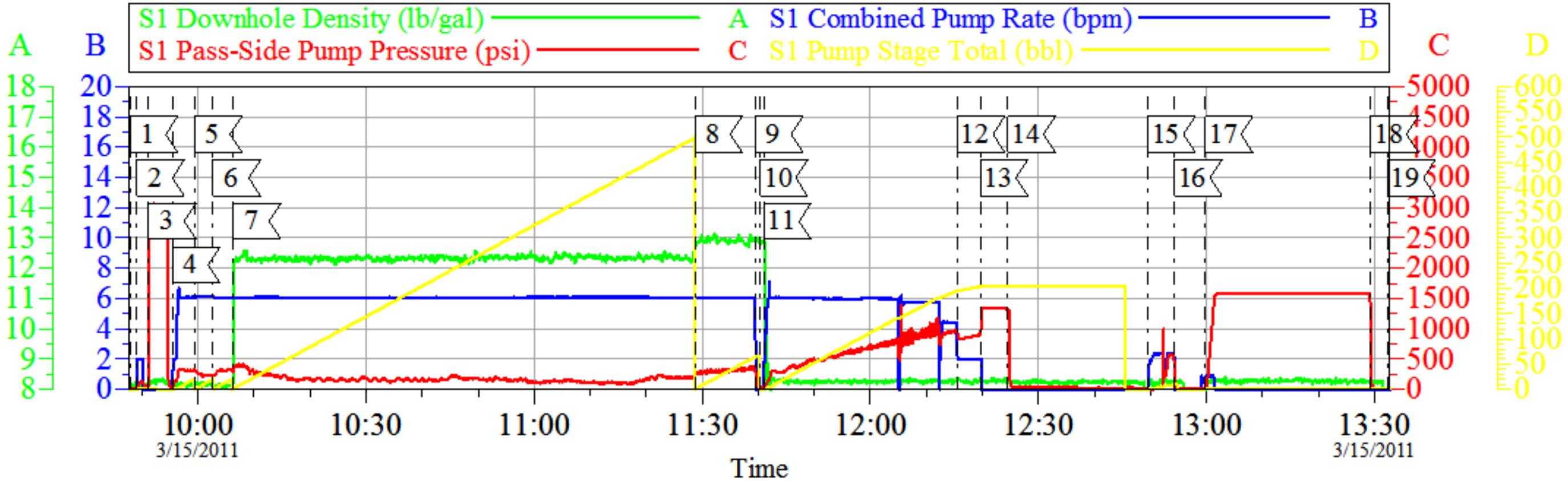
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	03/14/2011 19:10							TD 2725 FT, TP 2707 FT, SHOT 46 FT, HOLE 14 3/4 IN, MUD WT 9.4 PPG, CSG 9 5/8 IN 36 LB/FT
Crew Leave Yard	03/14/2011 21:00							
Pre-Convoy Safety Meeting	03/14/2011 21:45							WITH ALL HES PERSONNEL
Arrive At Loc	03/15/2011 03:00							RIG WAS RUNNING CASING UPON HES ARRIVAL TO LOCATION
Assessment Of Location Safety Meeting	03/15/2011 07:20							WITH ALL HES PERSONNEL
Other	03/15/2011 07:30							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	03/15/2011 07:50							WITH ALL HES PERSONNEL
Rig-Up Equipment	03/15/2011 08:00							
Pre-Job Safety Meeting	03/15/2011 09:20							WITH ALL PERSONNEL ON LOCATION
Start Job	03/15/2011 09:47							
Other	03/15/2011 09:49		2	2			132.0	FILL LINES
Test Lines	03/15/2011 09:51							TEST LINES TO 3060 PSI. PRESSURE HOLDING
Pump Spacer 1	03/15/2011 09:55		6	20			330.0	FRESH WATER
Pump Spacer 2	03/15/2011 09:59		6	20			248.0	GEL WATER
Pump Spacer 1	03/15/2011 10:02		6	20			285.0	FRESH WATER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	03/15/2011 10:06		6	421.2			170.0	1015 SKS AT 12.3 PPG, 2.33 FT3/SK, 12.62 GAL/SK WITH 7 BOXES OF TUFF FIBER IN LEAD CEMENT.
Pump Tail Cement	03/15/2011 11:28		6	66.7			300.0	181 SKS AT 12.8 PPG, 2.02 FT3/SK, 10.67 GAL/SK
Shutdown	03/15/2011 11:39							
Drop Top Plug	03/15/2011 11:40							PLUG LAUNCHED
Pump Displacement	03/15/2011 11:40		6	195.7			1020	FRESH WATER
Slow Rate	03/15/2011 12:15		2	10			900.0	SLOW RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	03/15/2011 12:19		2		205.7		1350	PLUG BUMPED
Check Floats	03/15/2011 12:24							FLOATS HOLDING
Pump Water	03/15/2011 12:49		2.5	10			1000	PUMP 10 BBLS SUGAR WATER DOWN PARASITE STRING
Shutdown	03/15/2011 12:54							
Pressure Test	03/15/2011 12:59						1580	PRESSURE TEST CASING TO 1580 PSI FOR 30 MINUTES AS PER COMPANY REP. PRESSURE HELD.
Release Casing Pressure	03/15/2011 13:29							
End Job	03/15/2011 13:32							PIPE WAS STATIC THROUGHOUT JOB. LOST CIRCULATION DURING LEAD CEMENT FOR APPROX 100 BBLS. GOOD CIRCULATION THE REST OF THE JOB. HES RETURNED 150 BBLS OF CEMENT TO SURFACE.
Pre-Rig Down Safety Meeting	03/15/2011 13:40							WITH ALL HES PERSONNEL
Rig-Down Equipment	03/15/2011 13:50							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pre-Convoy Safety Meeting	03/15/2011 15:50							WITH ALL HES PERSONNEL
Crew Leave Location	03/15/2011 16:00							
Comment	03/15/2011 16:01							THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. JEREMY YOUNG AND CREW.
Comment	03/15/2011 16:02							CREW BROUGHT UP 350 SKS OF TOPOUT CEMENT BUT DID NOT USE ANY. LEFT LOADED TRUCK ON LOCATION. TOPOUT CEMENT WAS CHARGED TO THIS WELL

# OXY

## CC 697-09-17A, 9 5/8 SURFACE



1	START JOB	09:47:53	2	FILL LINES	09:49:04
3	TEST LINES	09:51:11	4	PUMP H2O SPACER 1	09:55:27
5	PUMP GEL SPACER	09:59:23	6	PUMP H2O SPACER 2	10:02:41
7	PUMP LEAD CEMENT	10:06:20	8	PUMP TAIL CEMENT	11:28:39
9	SHUTDOWN	11:39:30	10	DROP TOP PLUG	11:40:20
11	PUMP DISPLACEMENT	11:40:57	12	SLOW RATE	12:15:33
13	BUMP PLUG	12:19:39	14	CHECK FLOATS	12:24:33
15	PUMP DOWN PARASITE STRING	12:49:33	16	SHUTDOWN	12:54:16
17	PRESSURE TEST CASING	12:59:47	18	RELEASE PRESSURE	13:29:18
19	END JOB	13:32:22			

Customer: OXY  
Well Description: CC 697-09-17A  
Customer Rep: VICTOR BENEVIDES

Job Date: 15-Mar-2011  
Job Type: SURFACE  
Service Supervisor: JEREMY YOUNG

Sales Order #: 7842144  
ADC Used: YES  
Pump #/Operator: 4/DUSTIN SMITH

OptiCem v6.4.9  
15-Mar-11 13:57