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**OXY GRAND JUNCTION EBUSINESS**

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**CC 697-09-13  
GRAND VALLEY  
Garfield County , Colorado**

**Cement Surface Casing  
04-Apr-2011**

**Job Site Documents**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 344034	<b>Ship To #:</b> 2825568	<b>Quote #:</b>	<b>Sales Order #:</b> 7841189
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Customer Rep:</b> Silva, Marco	
<b>Well Name:</b> CC		<b>Well #:</b> 697-09-13	<b>API/UWI #:</b> 05-045-20068
<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b> PARACHUTE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.535 deg. OR N 39 deg. 32 min. 6.518 secs.		<b>Long:</b> W 108.222 deg. OR W -109 deg. 46 min. 39.68 secs.	
<b>Contractor:</b> H&P Drilling		<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> DUNNING, DUSTIN		<b>Srvc Supervisor:</b> SMITH, CHRISTOPHER	<b>MBU ID Emp #:</b> 452619

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BATH, KYLE Thomas		477632	KEANE, JOHN Donovan		486519	LEIST, JAMES R		362787
MOAT, RYAN C		489025	SMITH, CHRISTOPHER Scott		452619			

**Equipment**

HES Unit #	Distance-1 way						
10205677	120 mile	10744648C	120 mile	10784053	120 mile	10951251	120 mile
10998508	120 mile						

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours

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

**Job**

**Job Times**

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
<b>Formation Depth (MD)</b>			<b>On Location</b>	03 - Apr - 2011	21:30	MST
<b>Form Type</b>		BHST	<b>Job Started</b>	04 - Apr - 2011	04:30	MST
<b>Job depth MD</b>	2710. ft	<b>Job Depth TVD</b>	2710. ft	<b>Job Completed</b>	04 - Apr - 2011	18:32
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>	4. ft	<b>Departed Loc</b>	04 - Apr - 2011	21:45
<b>Perforation Depth (MD)</b>	From	To				

**Well Data**

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbf/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
14 3/4" Open Hole				14.75				.	2710.		
9 5/8" Surface Casing	New		9.625	8.921	36.			.	2693.		

**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		
R/A DENSOMETER W/CHART RECORDER, /JOB, ZI	1	JOB		
PORT. DATA ACQUIS. W/OPTICEM RT W/HES	1	EA		
ADC (AUTO DENSITY CTRL) SYS, /JOB, ZI	1	JOB		

**Tools and Accessories**

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
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	.0				
2	Gel Spacer				20.00	bbl	.	.0	.0	.0				
3	Water Spacer				20.00	bbl	.	.0	.0	.0				
4	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)			1050.0	sacks	12.3	2.33	12.62		12.62			
	12.62 Gal	FRESH WATER												
5	VersaCem Tail Cement	VERSACEM (TM) SYSTEM (452010)			160.0	sacks	12.8	2.07	10.67		10.67			
	10.67 Gal	FRESH WATER												
6	Displacement				204.00	bbl	.	.0	.0	.0				
7	Topout Cement	HALCEM (TM) SYSTEM (452986)				sacks	12.5	1.97	10.96		10.96			
	10.96 Gal	FRESH WATER												
Calculated Values		Pressures			Volumes									
Displacement		Shut In: Instant			Lost Returns			Cement Slurry			Pad			
Top Of Cement		5 Min			Cement Returns			Actual Displacement			Treatment			
Frac Gradient		15 Min			Spacers			Load and Breakdown			Total Job			
Rates														
Circulating		Mixing			Displacement			Avg. Job						
Cement Left In Pipe		Amount	51.9 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*

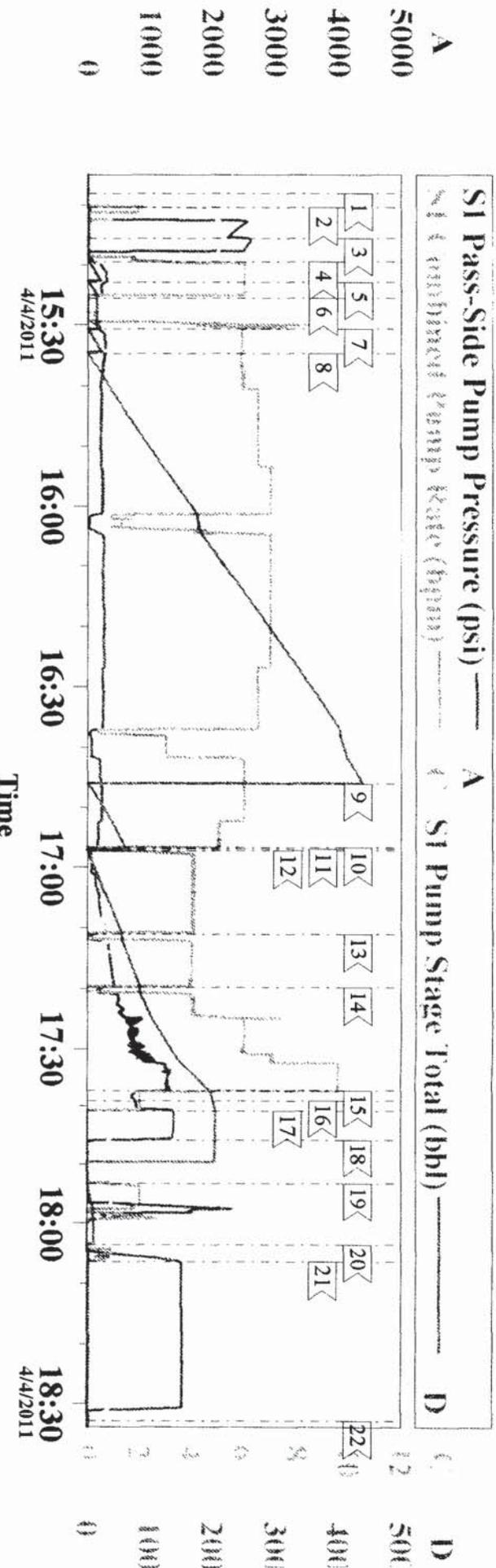
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<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Customer Rep:</b> Silva, Marco	
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<b>Legal Description:</b>			
<b>Lat:</b> N 39.535 deg. OR N 39 deg. 32 min. 6.518 secs.		<b>Long:</b> W 108.222 deg. OR W -109 deg. 46 min. 39.68 secs.	
<b>Contractor:</b> H&P Drilling		<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> DUNNING, DUSTIN		<b>Srvc Supervisor:</b> SMITH, CHRISTOPHER	<b>MBU ID Emp #:</b> 452619

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pre-Convoy Safety Meeting	04/03/2011 23:50							ALL HES PERSONEL
Crew Leave Yard	04/03/2011 23:55							
Arrive At Loc	04/04/2011 04:30							RIG SETTING UP TO RUN CASEING.
Assessment Of Location Safety Meeting	04/04/2011 04:45							ALL HES PERSONEL
Rig-Up Equipment	04/04/2011 14:00							
Pre-Job Safety Meeting	04/04/2011 14:50							ALL HES PERSONEL AND RIG CREW
Start Job	04/04/2011 15:08							TD 2710', TP 2693', SJ 51.88', OH 14.75", CSG 9.625" 36# J-55 , MUD 9.4 PPG, YP- 17, PV-16.
Other	04/04/2011 15:10		2	2			60.0	FILL LINES
Pressure Test	04/04/2011 15:15		0.5	0.5				ALL LINES HELD PRESSURE @ 2480 PSI
Pump Spacer 1	04/04/2011 15:19		6	20			240.0	FRESH WATER
Pump Spacer 2	04/04/2011 15:22		6	20			190.0	LGC SPACER
Shutdown	04/04/2011 15:25							SHUTDOWN FOR RIGS CELLAR PUMP
Pump Spacer 1	04/04/2011 15:30		6	20			270.0	FRESH WATER
Pump Lead Cement	04/04/2011 15:34		7	435.7			260.0	1050 SKS, 12.3 PPG, 2.33 FT3/ SK, 12.62 GAL/SK, SET UP TIME 4:45 @ 70 BC

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	04/04/2011 16:45		6	60			300.0	160 SKS, 12.8 PPG, 2.07 FT3/ SK, 11.10.67 GAL/SK, SET UP TIME 2:33 @ 70 BC
Shutdown	04/04/2011 16:56							
Drop Top Plug	04/04/2011 16:57							
Pump Displacement	04/04/2011 16:57		10	194.2			1270.0	FRESH WATER
Shutdown	04/04/2011 17:11			52			275.0	SHUTDOWN PER CUSTOMER REQUEST
Shutdown	04/04/2011 17:19			82			630.0	SHUTDOWN PER CUSTOMER REQUEST
Slow Rate	04/04/2011 17:37		2	10			788.0	
Bump Plug	04/04/2011 17:40						1365.0	PLUG BUMPED
Check Floats	04/04/2011 17:45							FLOATS HELD
Other	04/04/2011 17:53		3	10			2000.0	PUMP DOWN PARASITE WITH SUGAR WATER
Other	04/04/2011 18:06		0.5	0.5			1500.0	PRESSURE TEST CASEING FOR 30 MIN.
End Job	04/04/2011 18:32							GOOD CIRCULATION DURING JOB UNTIL 112 BBL INTO LEAD CEMENT, REGAIN CIRCULATION 18 BBLS INTO TAIL CEMENT, CEMENT RETURNS 135 BBLS INTO DISPLACEMENT, 45 BBLS OF CEMENT RETURNS, LOST CIRCULATION 184 BBLS INTO DISPLACEMENT.
Post-Job Safety Meeting (Pre Rig-Down)	04/04/2011 18:40							ALL HES PERSONEL
Rig-Down Completed	04/04/2011 21:30							
Depart Location Safety Meeting	04/04/2011 21:40							ALL HES PERSONEL
Crew Leave Location	04/04/2011 21:45							

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Other	04/04/2011 21:45							THANK YOU FOR CHOOSING HALLIBURTON, CHRIS SMITH AND CREW

# OXY 9.625" SURFACE/ CC 697-09-13



Local Event Log		Maximum	SPPP	Maximum	SPPP		
1	START JOB	15:08:04	13.97	2	FILL LINES	15:10:28	2538
3	TEST LINES	15:15:28	2899	4	PUMP H2O SPACER	15:19:28	302.0
5	PUMP LGC SPACER	15:22:52	281.0	6	SHUTDOWN	15:25:27	175.4
7	PUMP H2O SPACER	15:30:39	288.0	8	PUMP LEAD CEMENT	15:34:39	290.0
9	PUMP TAIL CEMENT	16:45:56	226.0	10	SHUT DOWN	16:56:44	140.0
11	DROP PLUG	16:57:02	51.00	12	PUMP H2O DISPLACEMENT	16:57:17	280.0
13	SHUTDOWN	17:11:02	434.0	14	SHUTDOWN	17:19:43	132.1
15	SLOW RATE	17:37:17	1305	16	BUMP PLUG	17:39:03	1346
17	SHUTDOWN	17:40:50	1367	18	CHECK FLOATS	17:45:45	346.0
19	PUMP SUGAR H2O	17:53:14	2302	20	SHUTDOWN	18:03:30	1472
21	PRESSURE TEST CASEING	18:06:27	1520	22	END JOB	18:32:56	361.0

Customer: OXY GRAND JUNCTION EBUSINESS  
 Well Description: CC 697-09-13  
 Customer Rep: MARCO SILVA

Job Date: 04-Apr-2011  
 Job type: 05-045-20068  
 Service Supervisor: C. SMITH

Sales Order #: 7841189  
 ADC Used: YES  
 Operator/Pump: K. BATH/E 6

<b>Sales Order #:</b> 7841189	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 4/4/2011
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> MARCO SILVA		<b>API / UWI: (leave blank if unknown)</b> 05-045-20068
<b>Well Name:</b> CC		<b>Well Number:</b> 697-09-13
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b> No	<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	4/4/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHRISTOPHER SMITH (HB20137)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	MARCO SILVA
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	GOOD COMMUNICATION, JOB WENT WELL, NO ISSUES, THANK YOU
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.	

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<b>Well Name:</b> CC		<b>Well Number:</b> 697-09-13
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<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

CUSTOMER SIGNATURE

<b>Sales Order #:</b> 7841189	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 4/4/2011
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<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	4/4/2011
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>	3.5
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>	3.5
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>	4
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> No	<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	93
<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