

---

# **OXY GRAND JUNCTION EBUSINESS**

---

**CC 697-05-61  
GRAND VALLEY  
Garfield County , Colorado**

**Cement Surface Casing**  
**06-May-2012**

**Post Job Summary**

## The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 344034	Quote #:	Sales Order #: 9487251
Customer: OXY GRAND JUNCTION EBUSINESS	Customer Rep: Rosser, Terry		
Well Name: CC	Well #: 697-05-61	API/UWI #: 05-045-20966	
Field: GRAND VALLEY	City (SAP): ADDISON	County/Parish: Garfield	State: Colorado
Lat: N 39.544 deg. OR N 39 deg. 32 min. 37.248 secs.	Long: W 108.246 deg. OR W -109 deg. 45 min. 12.924 secs.		
Contractor: H&P 353	Rig/Platform Name/Num: H&P 353		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: HIMES, JEFFREY	Srv Supervisor: NICKLE, RYON	MBU ID Emp #: 454759	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BORSZICH, STEPHEN A	11	412388	BURKE, BRENDAN Patrick	11	487782	NICKLE, RYON	11	454759
WADE, LOGAN D	11	488896						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10744549	120 mile	10744648C	120 mile	10867531	120 mile	10951249	120 mile
10989685	120 mile	10995027	120 mile	11808845	120 mile		

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
5/6/12	11	4						

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

## Job

## Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Water Depth	Perforation Depth (MD)	From	To	Called Out	Date	Time	Time Zone
		0	2725	BHST	2725. ft						06 - May - 2012	13:00	MST
											06 - May - 2012	18:06	MST
											06 - May - 2012	22:46	MST
											06 - May - 2012	23:59	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
-------------	------------	-------------------	---------	-------	---------------	--------	-------	-----------	--------------	------------	---------------

Sales/Rental/3<sup>rd</sup> Party (HES)

Description	Qty	Qty uom	Depth	Supplier
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		
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	Fresh Water Spacer		10.00	bbl	8.33	.0	.0	2	
2	Gel Water Spacer		20.00	bbl	8.34	.0	.0	2	
0.25 gal/bbl		LGC-36 UC, BULK (101582749)							
3	Fresh Water Spacer		10.00	bbl	8.33	.0	.0	3	
4	HalCem Lead Cement	HALCEM (TM) SYSTEM (452986)	1160.0	sacks	12.3	2.15	11.83	6	11.83
11.83 Gal		FRESH WATER							
5	VariCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.07	10.67	6	10.67
10.67 Gal		FRESH WATER							
6	Fresh Water Displacement		203.00	bbl	8.34	.0	.0	6	
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
Displacement	219	Shut In: Instant		Lost Returns		Cement Slurry	503	Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement	219	Treatment	
Frac Gradient		15 Min		Spacers	40	Load and Breakdown		Total Job	762
<b>Rates</b>									
Circulating	RIG	Mixing	6	Displacement	6	Avg. Job	6		
Cement Left In Pipe	Amount	45.44 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> 9487251
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Customer Rep:</b> Rosser, Terry	
<b>Well Name:</b> CC	<b>Well #:</b> 697-05-61	<b>API/UWI #:</b> 05-045-20966	
<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 39.544 deg. OR N 39 deg. 32 min. 37.248 secs.		<b>Long:</b> W 108.246 deg. OR W -109 deg. 45 min. 12.924 secs.	
<b>Contractor:</b> H&P 353		<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> HIMES, JEFFREY		<b>Srvc Supervisor:</b> NICKLE, RYON	<b>MBU ID Emp #:</b> 454759

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Other Job or Site	05/06/2012 13:00							RIG WAS RUNNING CASING, SPOKE WITH CO REPRESENTATIVE AND CHECKED IN WITH SAFETY PERSONEL TO OBTAIN WORK PERMIT AND EMPLOYEE DISPOSITION SHEET.
Assessment Of Location Safety Meeting	05/06/2012 13:10							ALL HES PERSONEL, INCLUDING CEMENT BULK DRIVERS AND DELIVERY DRIVERS; COORDINATION OF SPOTTING EQUIPMENT TO AVOID BLOCKING ROADWAY AND DRIVE PATH FOR LOADER AND BUCKET
Other	05/06/2012 13:25							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	05/06/2012 13:35							ALL HES PERSONELL
Rig-Up Equipment	05/06/2012 13:45							
Pre-Job Safety Meeting	05/06/2012 17:30							ALL HES PERSONEL, RIG CREW AND THIRD PARTY CONTRACTORS
Start Job	05/06/2012 18:06							TP: 2679' TD: 2725' SHOE: 45.44' OH 14.75" CASING: 9.625" 36# MUD: 9.7# **OFFLINE CEMENT JOB

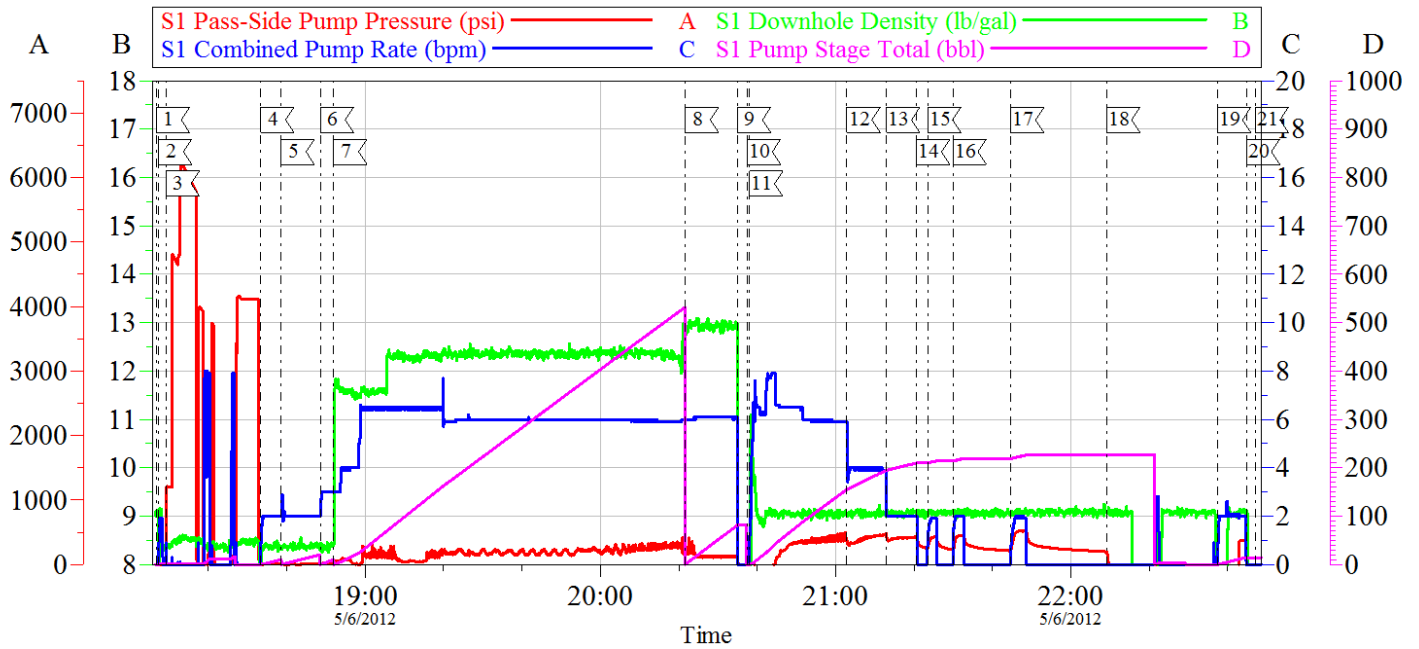
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Other	05/06/2012 18:07		2	2			3.0	FILL LINES
Pressure Test	05/06/2012 18:09							ALL LINES HELD PRESSURE; STALL OUT AT PSI, PRESSURED UP TO PSI, PRESSURE FELL TO PSI OVER 3 MINUTE PERIOD
Pump Spacer 1	05/06/2012 18:33		2	10			4.0	FRESH WATER
Pump Spacer 2	05/06/2012 18:38		2	20			6.0	GEL SPACER, 5 GAL LGC TO 20 BBLS H2O
Pump Spacer 1	05/06/2012 18:48		3	10			31.0	FRESH WATER
Pump Lead Cement	05/06/2012 18:51		6	444.2			245.0	1160 SKS, 12.3 PPG, 2.15 FT3/ SK, 11.83 GAL/SK,
Slow Rate	05/06/2012 20:02		2	11			420.0	PER COMPANY REP SLOW RATE TO 2 BBLS PER MIN
Pump Tail Cement	05/06/2012 20:21		6	59			149.0	
Shutdown	05/06/2012 20:34							
Drop Top Plug	05/06/2012 20:37							COMPANY REP VERIFIED PLUG LAUNCHED
Pump Displacement	05/06/2012 20:38		6	160.4			404.0	FRESH WATER
Slow Rate	05/06/2012 21:02		4	33			470.0	PER COMPANY REP SLOW TO 4 BBLS PER MIN
Pump Displacement	05/06/2012 21:23		2	5			472.0	PER COMPANY REP, W/ 204 BBLS AWAY BY COUNT ON MEASURING TANKS, RESUME PUMPING.
Pump Displacement	05/06/2012 21:29		2	5			491.0	PER COMPANY REP, W/209 BBLS AWAY PUMP AN ADDITIONAL 5 BBLS AS COUNTED ON MEASURING TANKS
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pump Displacement	05/06/2012 21:44		2	5			522.0	PER COMPANY REP WITH 214 BBLS AWAY, PUMP AN ADDITIONAL 5 BBLS AS COUNTED ON MEASURING TANKS. PLUG STILL HAD NOT BUMPED.
Safety Huddle	05/06/2012 22:00							SAFETY HUDDLE PRIOR TO CHECKING FLOATS AND OPENING UP PLUG CONTAINER TO ENSURE PLUG LAUNCHED.
Check Floats	05/06/2012 22:09							AFTER DISCUSSION WITH CO REP, DECISION MADE TO CHECK FLOATS. RETURNED 1.5 BBLS H2O THROUGH RELEASE LINE. ONCE PRESSURE WAS OFF, REMOVED CAP ON PLUG CONTAINER TO ENSURE PLUG HAD LAUNCHED. CEMENTER, H&P RIG HAND AND COMPANY REP VERIFIED PLUG HAD LAUNCHED
Other	05/06/2012 22:09							DECISION MADE TO LEAVE 2" VALVE ON PLUG CONTAINER, AND LEAVE ENTIRE SET UP ON CASING IN CASE CO REP WANTED TO CLOSE IN CASING.
Other	05/06/2012 22:37		2	10			378.0	PUMP THROUGH PARASITE; 10# SUGAR MIXED WITH 10 BLS H2O. LINE CLEARED 6.8 BBLS IN.
Shutdown	05/06/2012 22:44							
End Job	05/06/2012 22:46							
Post-Job Safety Meeting (Pre Rig-Down)	05/06/2012 22:50							ALL HES PERSONEL
Rig-Down Equipment	05/06/2012 23:00							
Depart Location Safety Meeting	05/06/2012 23:45							ALL HES PERSONEL

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Crew Leave Location	05/06/2012 23:59							THANK YOU FOR USING HALLIBURTON, RYON NICKLE AND CREW

# OXY - CC 697-05-61

OFFLINE SURFACE



## Local Event Log

1	START JOB	18:06:43	2	FILL LINES	18:07:16	3	PRESSURE TEST	18:09:12
4	PUMP H2O SPACER	18:33:22	5	PUMP GEL SPACER	18:38:34	6	PUMP H2O SPACER	18:48:32
7	PUMP LEAD CEMENT	18:51:58	8	PUMP TAIL CEMENT	20:21:37	9	SHUTDOWN	20:34:57
10	DROP TOP PLUG	20:37:28	11	PUMP DISPLACEMENT	20:38:01	12	SLOW RATE	21:02:51
13	SLOW RATE	21:12:57	14	SHUTDOWN	21:20:35	15	PUMP ADDITIONAL 5 BBLs	21:23:25
16	PUMP ADDITIONAL 5 BBLs	21:29:54	17	PUMP ADDITIONAL 5 BBLs	21:44:37	18	CHECK FLOATS	22:09:06
19	PUMP TO CLEAR PARASITE	22:37:23	20	SHUTDOWN	22:44:45	21	END JOB	22:46:57

Customer: OXY GRAND JUNCTION EBUSINESS  
Well Description: CC 697-05-61  
Company Rep: TERRY ROSSER

Job Date: 06-May-2012  
Job Type: OFFLINE SURFACE  
Cement Supervisor: RYON NICKLE

Sales Order #: 9487251  
ADC Used: YES  
Elite # / Operator: E6 / LOGAN WADE

OptiCem v6.4.10  
06-May-12 23:35



<b>Sales Order #:</b> 9487251	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 5/6/2012
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> DONALDO		<b>API / UWI: (leave blank if unknown)</b> 05-045-20966
<b>Well Name:</b> CC		<b>Well Number:</b> 697-05-61
<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	5/6/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	RYON NICKLE (HB22175)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	DONALDO
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>
---------------------------

<b>Sales Order #:</b> 9487251	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 5/6/2012
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> DONALDO		<b>API / UWI: (leave blank if unknown)</b> 05-045-20966
<b>Well Name:</b> CC		<b>Well Number:</b> 697-05-61
<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>	5/6/2012
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>	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>	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

<b>Sales Order #:</b> 9487251	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 5/6/2012
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> DONALDO		<b>API / UWI: (leave blank if unknown)</b> 05-045-20966
<b>Well Name:</b> CC		<b>Well Number:</b> 697-05-61
<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

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	95
<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	95
<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