

---

**OXY GRAND JUNCTION EBUSINESS**

---

**CC 697-15-26  
GRAND VALLEY  
Garfield County , Colorado**

**Cement Surface Casing**  
24-Dec-2010

**Post Job Summary**

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 2827280	Quote #:	Sales Order #: 7840783
Customer: OXY GRAND JUNCTION EBUSINESS		Customer Rep: COOMBS, HENRY	
Well Name: CC	Well #: 697-15-26	API/UWI #: 05-045-19503	
Field:	City (SAP): PARACHUTE	County/Parish: Sutter	State: California
Lat: N 39.53 deg. OR N 39 deg. 31 min. 46.247 secs.		Long: W 108.213 deg. OR W -109 deg. 47 min. 12.696 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: DUNNING, DUSTIN		Srvc Supervisor: TRIPLETT, MICHEAL MBU ID Emp #: 447908	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ARNOLD, EDWARD John	10	439784	DOUT, JACOB J	10	430298	LYNGSTAD, FREDRICK D	10	403742
TRIPLETT, MICHEAL Anthony	10	447908		10				

Equipment

HES Unit #	Distance-1 way						
10046360	120 mile	10248057	120 mile	10551730C	120 mile	10784053	120 mile
10951245	120 mile	10973571	120 mile	11463279	120 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12/24/2010	10	5						
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
			On Location	24 - Dec - 2010	03:30	MST
Form Type		BHST	Job Started	24 - Dec - 2010	10:15	MST
Job depth MD	2710. ft	Job Depth TVD	Job Started	24 - Dec - 2010	12:47	MST
Water Depth		Wk Ht Above Floor	Job Completed	24 - Dec - 2010	18:53	MST
Perforation Depth (MD) From		To	Departed Loc	24 - Dec - 2010	20:30	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

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			

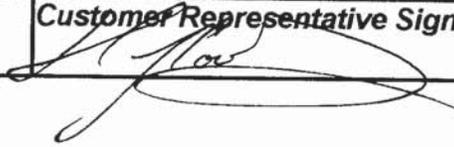
Miscellaneous Materials

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 ft <sup>3</sup> /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		20.00	bbl	.	.0	.0	.0	
3	Water Spacer		20.00	bbl	.	.0	.0	.0	
4	Lead Cement	VERSACEM (TM) SYSTEM (452010)	1053.0	sacks	12.3	2.33	12.62		12.62
	12.62 Gal	FRESH WATER							
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.07	10.67		10.67
	10.67 Gal	FRESH WATER							
6	Displacement		205.00	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							
<b>Calculated Values</b>		<b>Pressures</b>			<b>Volumes</b>				
Displacement	205.4	Shut In: Instant		Lost Returns	407	Cement Slurry	492	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	255	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	719
<b>Rates</b>									
Circulating	2	Mixing	4	Displacement	5	Avg. Job	4.5		
Cement Left in Pipe	Amount	53 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					



# HALLIBURTON

## Cementing Job Log

*The Road to Excellence Starts with Safety*

Sold To #: 344034	Ship To #: 2827280	Quote #:	Sales Order #: 7840783
Customer: OXY GRAND JUNCTION EBUSINESS		Customer Rep: COOMBS, HENRY	
Well Name: CC	Well #: 697-15-26	API/UWI #: 05-045-19503	
Field:	City (SAP): PARACHUTE	County/Parish: Sutter	State: California
<b>Legal Description:</b>			
Lat: N 39.53 deg. OR N 39 deg. 31 min. 46.247 secs.		Long: W 108.213 deg. OR W -109 deg. 47 min. 12.696 secs.	
Contractor: H&P 353	Rig/Platform Name/Num: H&P 353		
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: DUNNING, DUSTIN	Srvc Supervisor: TRIPLETT, MICHEAL	MBU ID Emp #: 447908	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/24/2010 03:30							
Pre-Convoy Safety Meeting	12/24/2010 04:30							
Crew Leave Yard	12/24/2010 05:00							
Arrive At Loc	12/24/2010 10:00							
Assessment Of Location Safety Meeting	12/24/2010 10:10							
Other	12/24/2010 10:15							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	12/24/2010 10:25							
Rig-Up Equipment	12/24/2010 10:30							
Pre-Job Safety Meeting	12/24/2010 12:30							
Start Job	12/24/2010 12:47							TD:2730, TP:2710, SJ:53, MW:10, CASING: 9.625", OH: 14.75"
Test Lines	12/24/2010 12:50		1	2			3000.0	DROPPED 1PSI PER SECOND
Pump Spacer 1	12/24/2010 12:56		6	20			185.0	FRESH WATER
Pump Spacer 2	12/24/2010 13:00		6	20			190.0	FRSHWATER WITH GEL
Pump Spacer 1	12/24/2010 13:03		6	20			190.0	FRESH WATER
Pump Lead Cement	12/24/2010 13:06		6	437			225.0	1053 SACKS MIXED @ 12.3, 2.3 YIELD, 12.62 GAL/SACK
Shutdown	12/24/2010 13:43							HAD TO SHUTDOWN WITH 185 AWAY, THROAT PACKED OFF

Sold To #: 344034

Ship To #: 2827280

Quote #:

Sales Order #:

7840783

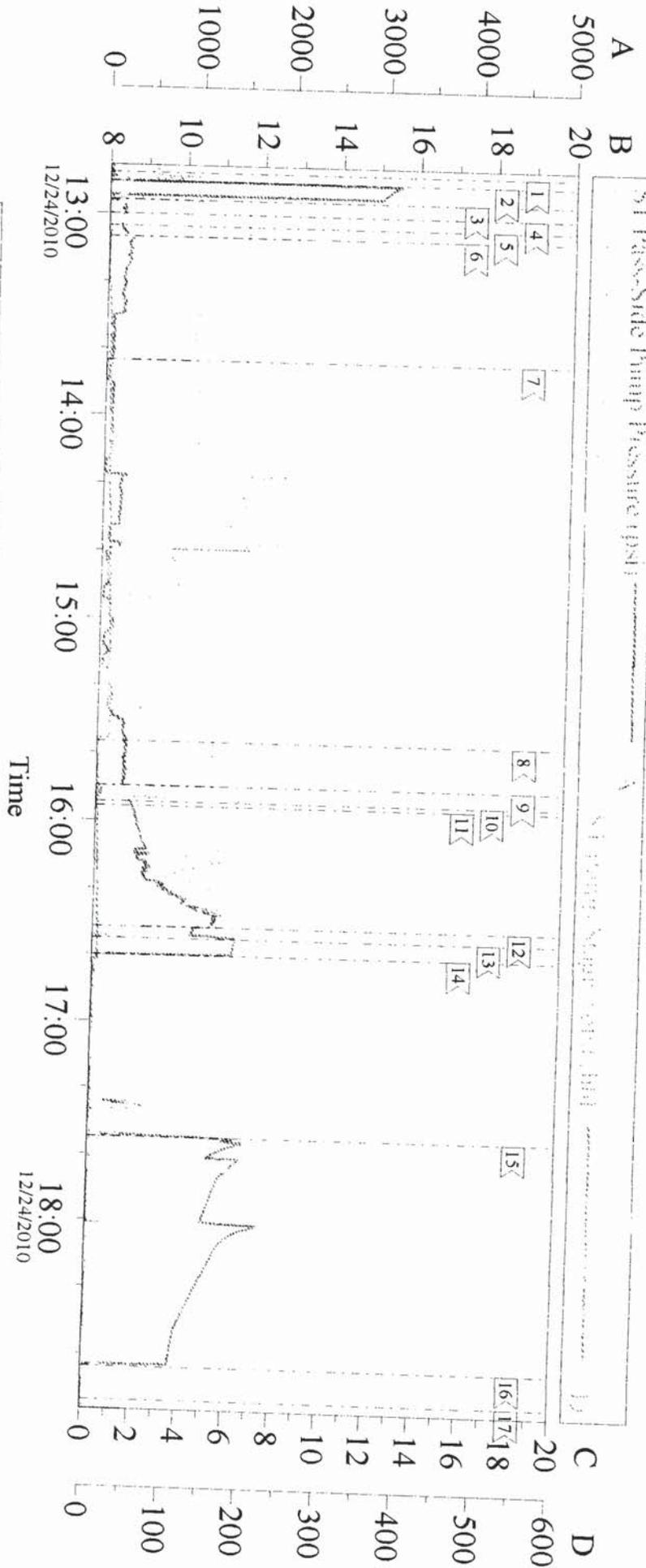
SUMMIT Version: 7.20.130

XXX.XXX 00.0000 00:00:00

## Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	12/24/2010 15:36		6	59			300.0	160 SACKS MIXED @ 12.8, 2.07 YIELD, 10.47 GAL/SACK
Shutdown	12/24/2010 15:49							
Drop Top Plug	12/24/2010 15:54							
Pump Displacement	12/24/2010 15:55		6	205.4			1311.0	
Slow Rate	12/24/2010 16:31		2	195.4			1040.0	SLOWED RATE LAST 10BBLS OF DISPLACEMENT
Bump Plug	12/24/2010 16:35		2	205.4			1070.0	BUMP PLUG AND WENT 500PSI OVER TO 1570PSI
Check Floats	12/24/2010 16:39							FLOATS HELD
Pressure Test	12/24/2010 17:34						1800.0	PRESSURE TEST CASING TO 1800 PSI
Release Tubing Pressure	12/24/2010 18:43						920.0	RELEASE CASING PRESSURE, PRESSURE DROPPED 900 PSI COMPANY MAN WAS OKAY WITH IT AND SAID IT COULD BE CAUSE DO TO AIR BUBBLE
End Job	12/24/2010 18:53							HAD NO RETURNS TILL 376 OF LEAD GONE, GOT CEMENT BACK WITH 1 BBL OF TAIL GONE. GOT A TOTAL OF 255 BBLS OF CEMENT BACK TO SURFACE
Post-Job Safety Meeting (Pre Rig-Down)	12/24/2010 19:00							
Rig-Down Equipment	12/24/2010 19:15							
Pre-Convoy Safety Meeting	12/24/2010 20:15							
Crew Leave Location	12/24/2010 20:30							THANKS FOR USING HALLIBURTON MIKE TRIPLETT AND CREW

# OXY SURFACE CC 697-15-26



## Local Event Log

1 <	START JOB	12:47:57	2 <	PRESSURE TEST	12:50:39
3 <	START FRESH WATER SPACER 1	12:56:02	4 <	START FRESH WATER W/ GEL 2	13:00:04
5 <	START FRESH WATER SPACER 3	13:03:36	6 <	START LEAD	13:06:53
7 <	SHUTDOWN THROAT PACKED OFF LOSING DENSITY	13:43:33	8 <	START TAIL	15:36:31
9 <	SHUTDOWN	15:49:41	10 <	DROP PLUG	15:54:20
11 <	START DISPLACEMENT	15:55:33	12 <	SLOW RATE	16:31:36
13 <	BUMP PLUG	16:35:01	14 <	SHUTDOWN	16:39:58
15 <	CASING PRESSURE TEST	17:34:41	16 <	RELEASE PRESSURE	18:43:32
17 <	END JOB	18:53:30			

Customer: OXY Well Description: CC 697-15-26 ADC USED: YES	Job Date: 24-Dec-2010 JOB TYPE: SURFACE FLITE #: 2
Sales Order #: 7840783 COMPANY REP. OPERATER ED ARNOLD	