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**OXY GRAND JUNCTION EBUSINESS**

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**CC 697-10-59  
GRAND VALLEY  
Garfield County , Colorado**

**Cement Surface Casing  
01-Oct-2010**

**Post Job Summary**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 344034		<b>Ship To #:</b> 2810393		<b>Quote #:</b>		<b>Sales Order #:</b> 7671639							
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS				<b>Customer Rep:</b> Dillion, Pat									
<b>Well Name:</b> CC			<b>Well #:</b> 697-10-59		<b>API/UWI #:</b> 05-045-18023								
<b>Field:</b> GRAND VALLEY		<b>City (SAP):</b> PARACHUTE		<b>County/Parish:</b> Garfield		<b>State:</b> Colorado							
<b>Lat:</b> N 39.53 deg. OR N 39 deg. 31 min. 46.438 secs.				<b>Long:</b> W 108.213 deg. OR W -109 deg. 47 min. 12.923 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>			<b>Srvc Supervisor:</b> PHILLIPS, MARK		<b>MBU ID Emp #:</b> 445272								
<b>Job Personnel</b>													
<b>HES Emp Name</b>	<b>Exp Hrs</b>	<b>Emp #</b>	<b>HES Emp Name</b>	<b>Exp Hrs</b>	<b>Emp #</b>	<b>HES Emp Name</b>	<b>Exp Hrs</b>	<b>Emp #</b>					
HAYES, JESSE Doug	15	403601	HUGENTOBLE, LOGAN Mark	15	447333	KUKUS, CHRISTOPHER A	15	413952					
KUKUS, CRAIG A	15	369124	PHILLIPS, MARK Bejar	15	445272								
<b>Equipment</b>													
<b>HES Unit #</b>	<i>Distance-1 way</i>	<b>HES Unit #</b>	<i>Distance-1 way</i>	<b>HES Unit #</b>	<i>Distance-1 way</i>	<b>HES Unit #</b>	<i>Distance-1 way</i>						
10784080	120 mile	10804579	120 mile	10822535	120 mile	10867094	120 mile						
10897925	120 mile	10951250	120 mile	11360871	120 mile	11542767	120 mile						
<b>Job Hours</b>													
<b>Date</b>	<i>On Location Hours</i>	<b>Operating Hours</b>	<b>Date</b>	<i>On Location Hours</i>	<b>Operating Hours</b>	<b>Date</b>	<i>On Location Hours</i>	<b>Operating Hours</b>					
10-1-10	15	3											
<b>TOTAL</b>			<i>Total is the sum of each column separately</i>										
<b>Job</b>				<b>Job Times</b>									
<b>Formation Name</b>				<b>Date</b>		<b>Time</b>		<b>Time Zone</b>					
<b>Formation Depth (MD)</b>		<b>Top</b>	<b>Bottom</b>	<b>Called Out</b>		30 - Sep - 2010		18:30		CST			
<b>Form Type</b>		BHST		<b>On Location</b>		01 - Oct - 2010		03:00		CST			
<b>Job depth MD</b>		2770. ft		<b>Job Depth TVD</b>		2770. ft		<b>Job Started</b>		01 - Oct - 2010	11:00	CST	
<b>Water Depth</b>				<b>Wk Ht Above Floor</b>		6. ft		<b>Job Completed</b>		01 - Oct - 2010	14:39	CST	
<b>Perforation Depth (MD)</b>		<b>From</b>	<b>To</b>	<b>Departed Loc</b>		01 - Oct - 2010		17:30		CST			
<b>Well Data</b>													
<i>Description</i>	<b>New / Used</b>	<b>Max pressure psig</b>	<b>Size in</b>	<b>ID in</b>	<b>Weight lbm/ft</b>	<b>Thread</b>	<b>Grade</b>	<b>Top MD ft</b>	<b>Bottom MD ft</b>	<b>Top TVD ft</b>	<b>Bottom TVD ft</b>		
<b>Sales/Rental/3<sup>rd</sup> Party (HES)</b>													
<b>Description</b>						<b>Qty</b>	<b>Qty uom</b>	<b>Depth</b>	<b>Supplier</b>				
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						
<b>Tools and Accessories</b>													
<b>Type</b>	<b>Size</b>	<b>Qty</b>	<b>Make</b>	<b>Depth</b>	<b>Type</b>	<b>Size</b>	<b>Qty</b>	<b>Make</b>	<b>Depth</b>	<b>Type</b>	<b>Size</b>	<b>Qty</b>	<b>Make</b>
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		
Stage Tool										Centralizers			
<b>Miscellaneous Materials</b>													
<b>Gelling Agt</b>		<b>Conc</b>		<b>Surfactant</b>		<b>Conc</b>		<b>Acid Type</b>		<b>Qty</b>		<b>Conc</b>	<b>%</b>
<b>Treatment Fld</b>		<b>Conc</b>		<b>Inhibitor</b>		<b>Conc</b>		<b>Sand Type</b>		<b>Size</b>		<b>Qty</b>	

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		10.00	bbl	8.33	.0	.0	4		
2	Super Flush 101	SUPER FLUSH 101 - SBM (12199)	20.00	bbl	10.	.0	.0	4		
3	Water Spacer		10.00	bbl	.	.0	.0	4		
4	Lead Cement	VERSACEM (TM) SYSTEM (452010)	1065.0	sacks	12.3	2.33	12.62	6	12.62	
		12.62 Gal FRESH WATER								
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	106.0	sacks	12.8	2.07	10.67	6	10.67	
		10.67 Gal FRESH WATER								
6	Displacement			bbl	.	.0	.0	6		
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	208	Shut In: Instant		Lost Returns	0	Cement Slurry	501	Pad		
Top Of Cement	SURFACE	5 Min		Cement Returns	230	Actual Displacement	208	Treatment		
Frac Gradient		15 Min		Spacers	40	Load and Breakdown		Total Job	769	
Rates										
Circulating	2	Mixing		6	Displacement		6	Avg. Job	6	
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						

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<b>Job Purpose:</b> Cement Surface Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
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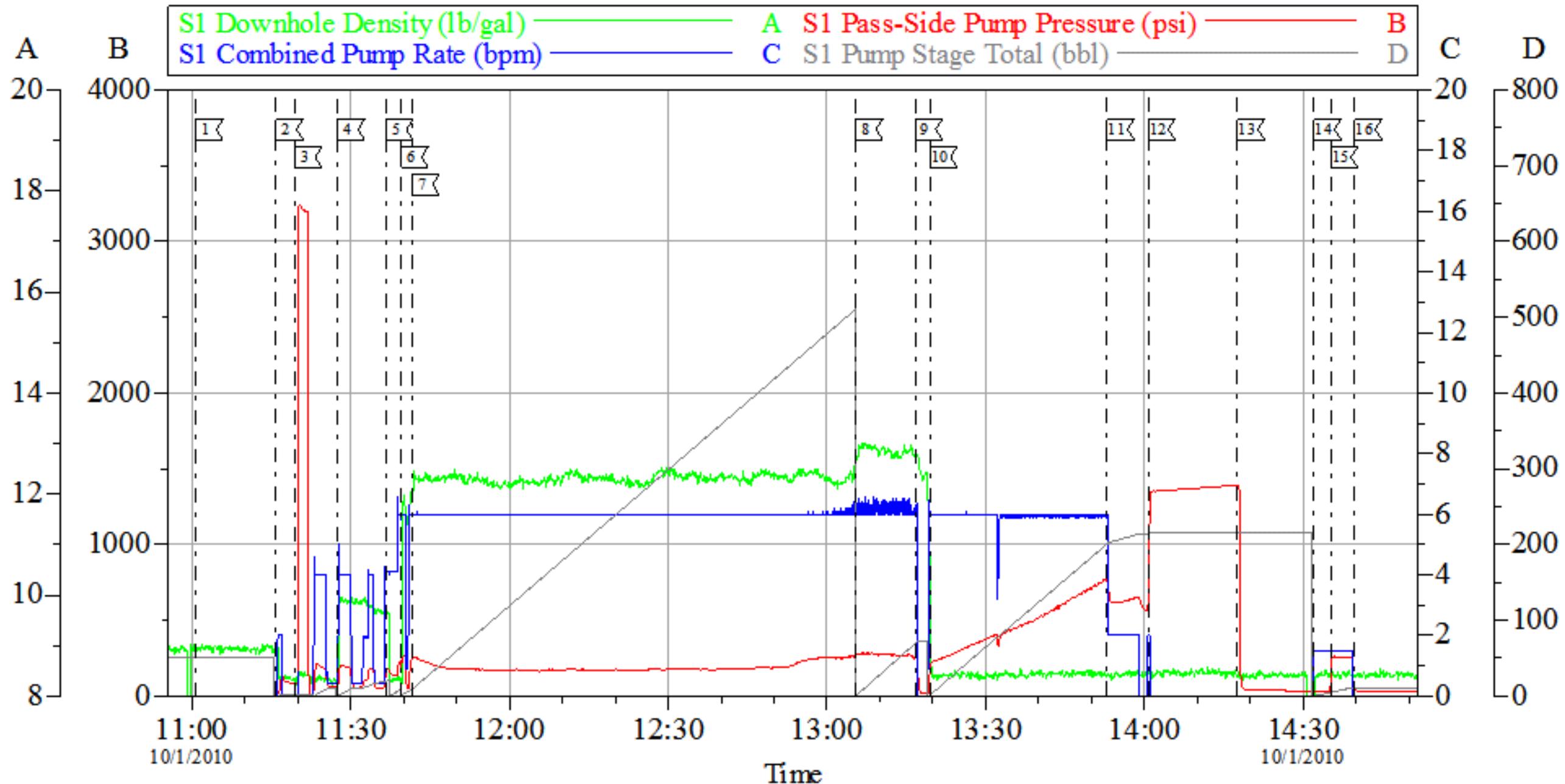
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/30/2010 18:30							
Pre-Convoy Safety Meeting	09/30/2010 20:30							ALL HES EMPLOYEES
Arrive At Loc	10/01/2010 02:30							RIG STILL RUNNING CASING
Assessment Of Location Safety Meeting	10/01/2010 02:45							ALL HES EMPLOYEES
Rig-Up Equipment	10/01/2010 03:00							1 HT-400 PUMP TRUCK, 2 660 BULK TRUCK, 1 F-450 P/U, 1 QUICK LATCH PLUG CONTAINER, 1 1600 FEILD BIN, 1 SUPER FLUSH TRANSPORT. TIME STARTS FOR TRANSPORT AT 0400
Pre-Job Safety Meeting	10/01/2010 11:00							ALL HES EMPLOYEES, RIG CREW, CO REP AND ANY 3RD PARTY VENDORS
Start Job	10/01/2010 11:15							SP 2746 FT, TD 2770 FT, FC 2693 FT, HOLE 14.75", MUD WT 9.2 PPG, RATE WILL BE 6-6-2, WILL BUMP 500 PSI OVER LAND PSI, RIG CIRCULATED HOLE FOR 1 HRS.SJ 53 FT. HES TO PUMP DOWN PARASITE AT END OF JOB USING SUGAR WATER
Pump Water	10/01/2010 11:16		2	2			89.0	FILL LINES PRIOR TO PRESSURE TESTING LINES

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pressure Test	10/01/2010 11:21		0.5			3000. 0		NO LEAKS, KICK OUTS SET TO 3000 PSI FOR TEST.
Pump Spacer 1	10/01/2010 11:25		4	10			210.0	FRESH WATER
Pump Spacer 1	10/01/2010 11:28		4	20			200.0	SUPER FLUSH
Pump Spacer 1	10/01/2010 11:32		6	10			200.0	FRESH WATER
Pump Lead Cement	10/01/2010 11:45		6	442			180.0	1665 SKS VERSACEM CMT TO BE MIXED AT 12.3 PPG, 2.33 YIELD, 12.62 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES WET AND DRY SAMPLES SUBMITTED.THESE ARE CALCULATED VALUES, TTL PUMPED PER BBL COUNTER WAS 510 BBLS CMT.
Pump Tail Cement	10/01/2010 13:01		6	59			280.0	160 SKS VERSACEM CMT TO BE MIXED AT 12.8 PPG, 2.07 YIELD, 10.67 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES, WET AND DRY SAMPLES SUBMITTED, ACCORDING TO BBL COUNTER WE PUMPED 10 BBLS MORE THAN WHAT WAS CALCULATED.
Cement Returns to Surface	10/01/2010 13:11		6					230 BBLS TO SURFACE CALCULATED IS 164 BBLS.
Shutdown	10/01/2010 13:19							
Drop Plug	10/01/2010 13:20							PLUG LAUNCHED
Pump Displacement	10/01/2010 13:21		6	208.2			510.0	FRESH WATER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Slow Rate	10/01/2010 13:54		2	198.2			640.0	10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	10/01/2010 14:02		2	208.2			640.0	PLUG LANDED
Check Floats	10/01/2010 14:18						1500.0	FLOATS HOLDING, 1.5 BBLS BACK.
End Job	10/01/2010 14:20							THANK YOU FOR USING HES FROM LOGAN HUGENTOBLE AND CREW
Other	10/01/2010 14:28		1.5	12		250.0		PUMP SUGAR WATER THROUGH PARASITE
Post-Job Safety Meeting (Pre Rig-Down)	10/01/2010 14:38							ALL HES EMPLOYEES
Rig-Down Equipment	10/01/2010 14:40							
Pre-Convoy Safety Meeting	10/01/2010 15:40							ALL HES EMPLOYEES
Crew Leave Location	10/01/2010 15:50							LOCATION CLEAN

# OXY

## CC 697-10-59 SURFACE



Local Event Log			
[1] START JOB	11:00:47	[2] FILL LINES	11:15:55
[3] PRESSURE TEST	11:19:28	[4] H2O SPACER	11:27:33
[5] SUPER FLUSH	11:36:43	[6] H2O SPACER	11:39:33
[7] LEAD CEMENT	11:41:39	[8] TAIL CEMENT	13:05:26
[9] SHUTDOWN/DROP PLUG	13:16:43	[10] START DISPLACEMENT	13:19:30
[11] SLOWRATE	13:52:58	[12] BUMP PLUG	14:00:41
[13] CHECK FLOATS	14:17:35	[14] PUMP THROUGH PARASITE	14:32:03
[15] PRESSURE THROUGH GREASE PLUG	14:35:11	[16] END JOB	14:39:46

Customer: OXY	Job Date: 01-Oct-2010	Sales Order #: 7671639
Well Description: CC 679-10-59	Job Type: SURFACE	ADC USED YES
Company Rep: PAT DILLON	Cement Supervisor: LOGAN HUGENTOBLER	Elite #:1 CHRIS KUKAS