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**OXY GRAND JUNCTION EBUSINESS**

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Shell 797-03-16  
GRAND VALLEY  
Garfield County , Colorado

**Cement Surface Casing**  
16-May-2012

**Post Job Summary**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 344034	<b>Ship To #:</b> 344034	<b>Quote #:</b>	<b>Sales Order #:</b> 9487268
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Customer Rep:</b> Benevides, Victor	
<b>Well Name:</b> Shelll		<b>Well #:</b> 797-03-16	<b>API/UWI #:</b> 05-045-21278
<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b> ADDISON	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.48 deg. OR N 39 deg. 28 min. 46.596 secs.		<b>Long:</b> W 108.202 deg. OR W -109 deg. 47 min. 52.98 secs.	
<b>Contractor:</b> H&P 330		<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> HIMES, JEFFREY		<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 #
ENGBERG, KEVIN W	10.0	454218	KEANE, JOHN Donovan	10.0	486519	SMITH, CHRISTOPHER Scott	10.0	452619
WALPOLE, DARREN Livingston	10.0	485294						

**Equipment**

HES Unit #	Distance-1 way						
10025118	120 mile	10616651C	120 mile	10969711	120 mile	11259885	120 mile
11808827	120 mile						

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
05.15.2012	2	0	05.16.2012	8	3			

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

**Job**

**Job Times**

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
	0	1020		15 - May - 2012	17:00	MST
<b>Form Type</b>	<b>BHST</b>		<b>On Location</b>	15 - May - 2012	22:00	MST
<b>Job depth MD</b>	1020. m	<b>Job Depth TVD</b>	1020. m	<b>Job Started</b>	16 - May - 2012	04:24
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>	. m	<b>Job Completed</b>	16 - May - 2012	06:07
<b>Perforation Depth (MD)</b>	<i>From</i>	<i>To</i>	<b>Departed Loc</b>	16 - May - 2012	07:45	MST

**Well Data**

Description	New / Used	Max pressure MPa	Size mm	ID mm	Weight kg/m	Thread	Grade	Top MD m	Bottom MD m	Top TVD m	Bottom TVD m

**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 kg/m3	Yield m3/sk	Mix Fluid m3/tonne	Rate m3/min	Total Mix Fluid m3/tonne
1	Fresh Water Spacer		10.00	bbl	8.33	.0	.0	4.0	
2	Gel Water Spacer		20.00	bbl	8.34	.0	.0	4.0	
0.25 gal/bbl		LGC-36 UC, BULK (101582749)							
3	Fresh Water Spacer		10.00	bbl	8.33	.0	.0	4.0	
4	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	158.0	sacks	12.3	2.38	13.77	6.0	13.77
13.77 Gal		FRESH WATER							
5	SwiftCem Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	126.0	sacks	14.2	1.43	6.85	6.0	6.85
6.85 Gal		FRESH WATER							
6	Fresh Water Displacement		71.00	bbl	8.34	.0	.0	6.0	
Calculated Values		Pressures		Volumes					
Displacement	71	Shut In: Instant		Lost Returns		Cement Slurry	99	Pad	
Top Of Cement	0	5 Min		Cement Returns	30	Actual Displacement	71	Treatment	
Frac Gradient		15 Min		Spacers	40	Load and Breakdown		Total Job	213
Rates									
Circulating	6	Mixing	6	Displacement	6	Avg. Job	6		
Cement Left In Pipe	Amount	44.17 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>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> HIMES, JEFFREY		<b>Srvc Supervisor:</b> SMITH, CHRISTOPHER	<b>MBU ID Emp #:</b> 452619

Activity Description	Date/Time	Cht #	Rate m3/min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Pre-Convoy Safety Meeting	05/15/2012 19:30							ALL HES PERSONEL
Crew Leave Yard	05/15/2012 19:45							
Arrive At Loc	05/15/2012 22:00							RIG RUNNING CASEING.
Assessment Of Location Safety Meeting	05/15/2012 22:15							ALL HES PERSONEL
Rig-Up Equipment	05/15/2012 22:45							
Pre-Job Safety Meeting	05/16/2012 04:10							ALL HES PERSONEL AND RIG CREW
Start Job	05/16/2012 04:24							TD 1020', TP 999', SJ 44.17', LJ 35' OH 12.25", CSG 9.625" 36# J-55 , MUD 8.8 PPG. PUMPED JOB OFF LINE.
Other	05/16/2012 04:25		2	2			30.0	FILL LINES
Pressure Test	05/16/2012 04:28		0.5	0.5				ALL LINES HELD PRESSURE @ 1200 PSI
Pressure Test	05/16/2012 04:33		0.5	0.5				ALL LINES HELD PRESSURE @ 2200 PSI
Pump Spacer 1	05/16/2012 04:37		4	10			60.0	FRESH WATER
Pump Spacer 2	05/16/2012 04:41		4	20			60.0	LGC SPACER
Pump Spacer 1	05/16/2012 04:49		4	10			90.0	FRESH WATER
Activity Description	Date/Time	Cht #	Rate m3/min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	

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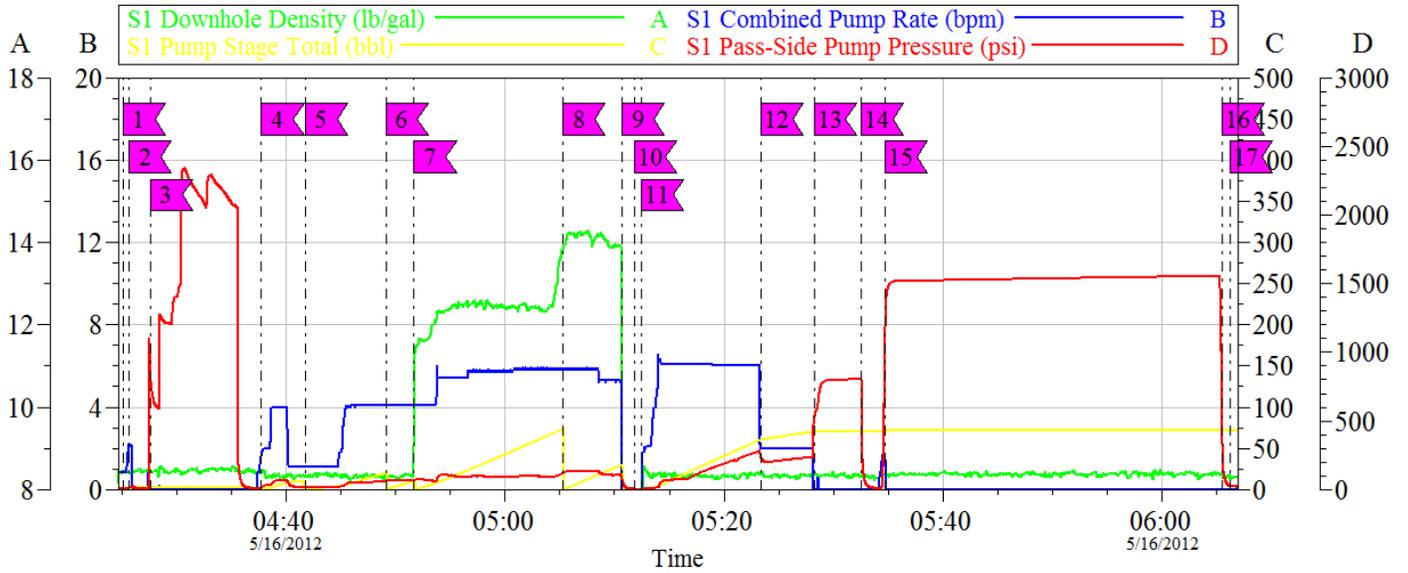
Quote # :

Sales Order # : 9487268

Pump Lead Cement	05/16/2012 04:51		6	67			124.0	158 SKS, 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK, SET UP TIME 3:05 @ 70 BC.
Pump Tail Cement	05/16/2012 05:05		6	32.1			130.0	126 SKS, 14.2 PPG, 1.43 FT3/ SK, 6.85 GAL/SK, SET UP TIME 3:07 @ 70 BC
Drop Top Plug	05/16/2012 05:11							
Pump Displacement	05/16/2012 05:12		6	61.1			298.0	FRESH WATER
Slow Rate	05/16/2012 05:23		2	10			256.0	
Bump Plug	05/16/2012 05:28						845.0	PLUG BUMPED
Check Floats	05/16/2012 05:32							FLOATS HELD
Other	05/16/2012 05:34		0.5	0.5			1580. 0	PRESSURE TEST CASEING
Shutdown	05/16/2012 05:51							
End Job	05/16/2012 06:05							GOOD CIRCULATION THROUGHOUT JOB, 30 BBLs OF CEMENT TO SURFACE, JOB WAS PUMPED OFF LINE.
Post-Job Safety Meeting (Pre Rig-Down)	05/16/2012 06:10							ALL HES PERSONEL
Rig-Down Completed	05/16/2012 07:00							
Depart Location Safety Meeting	05/16/2012 07:30							ALL HES PERSONEL
Crew Leave Location	05/16/2012 07:45							
Other	05/16/2012 07:46							THANK YOU FOR CHOOSING HALLIBURTON, CHRIS SMITH AND CREW

# OXY Shell 797-03-16

## Surface

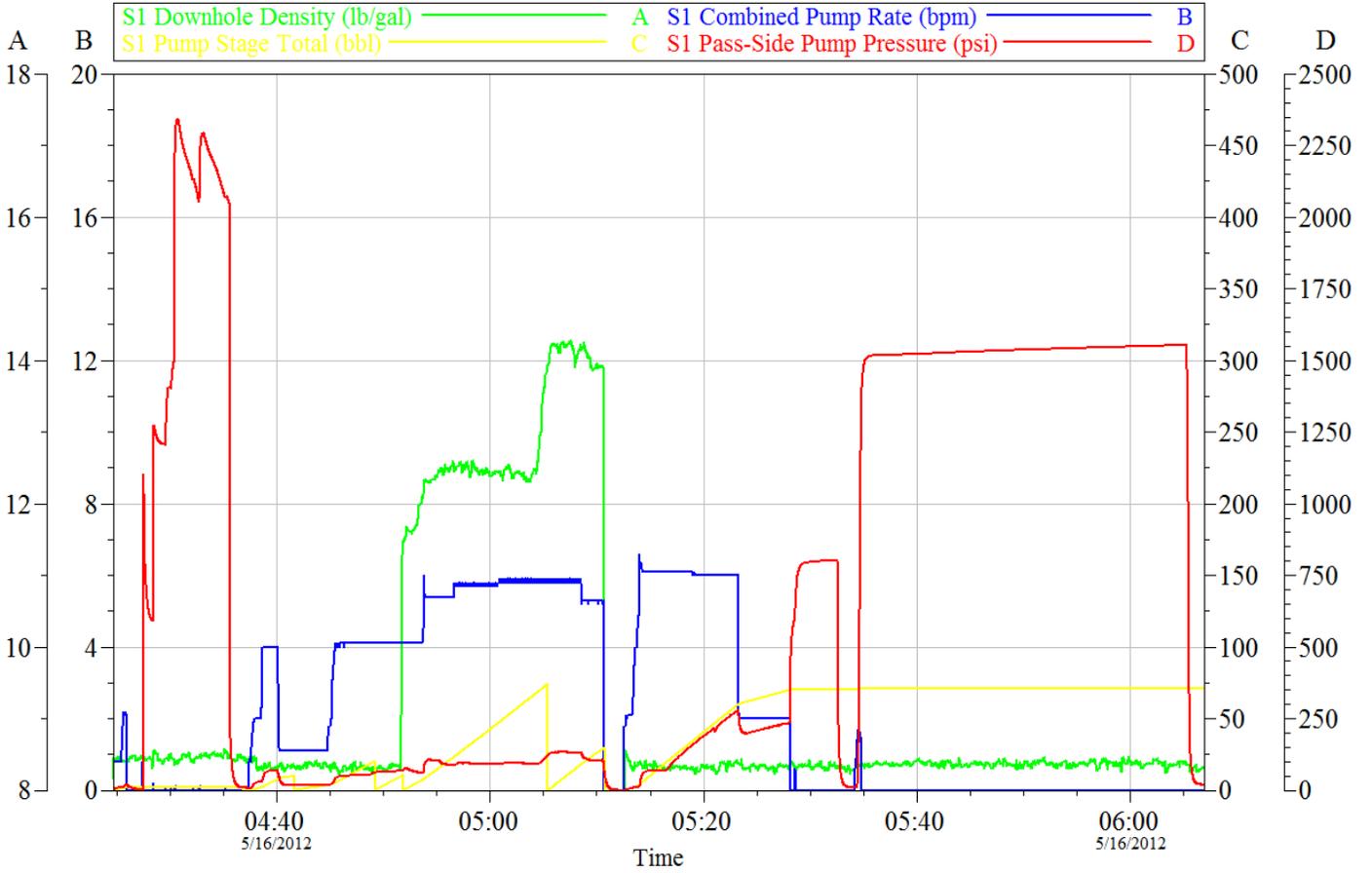


1	Start Job	04:25:08	2	Fill Lines	04:25:40	3	Pressure Test	04:27:37
4	Pump H2O Spacer	04:37:46	5	Pump Gel Spacer	04:41:46	6	Pump H2O Spacer	04:49:07
7	Pump Lead Cement	04:51:42	8	Pump Tail Cement	05:05:19	9	Shut Down	05:10:43
10	Drop Plug	05:11:47	11	Pump Displacement	05:12:27	12	Slow Rate	05:23:21
13	Bump Plug	05:28:13	14	Check Floats	05:32:32	15	Pressure Test Casing	05:34:41
16	Release Pressure	06:05:28	17	End Job	06:06:14			

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16-Jun-12 11:34

# OXY Shell 797-03-16 Surface



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16-Jun-12 11:22