

**ENSIGN UNITED STATES DRILLING EBUSI
PO BOX 17805 - DO NOT MAIL
DENVER, Colorado**

PHELPS 12-32CHZ

Ensign 17

Post Job Summary **Cement Intermediate Casing**

Date Prepared: 3/26/2014
Version: 1

Service Supervisor: BULINSKI, MATTHEW

Submitted by: PRUDHOMME, JOSHUA

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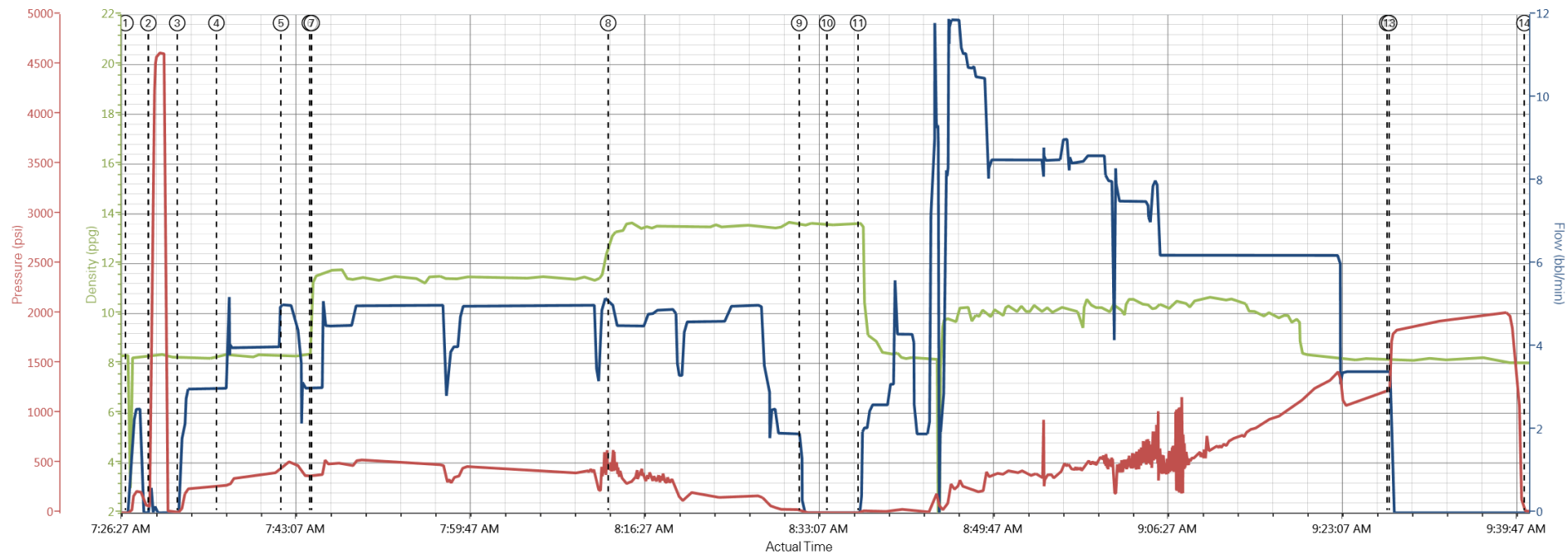
Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	Water Spacer	8.33	3.0	10.0 bbl	10.0 bbl
1	2	Spacer	MUD FLUSH III	8.40	4.0	24.0 bbl	24.0 bbl
1	3	Spacer	Water Spacer	8.33	4.0	10.0 bbl	10.0 bbl
1	4	Cement Slurry	ExtendaCem B2	11.50	5.0	338.0 sacks	338.0 sacks
1	5	Cement Slurry	FracCem B2	13.50	5.0	246.0 sacks	246.0 sacks

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Data Acquisition

Ensign United States Drilling // Phelps #12-32CHZ Intermediate 3-10-14



DH Density (ppg) Comb Pump Rate (bb/min) PS Pump Press (psi)

① Start Job 8:3;0;-1 ④ Pump Spacer 2 8:27;3;265 ⑦ Pump Lead Cement 11:49;3;379 ⑩ Drop Top Plug 13:57;0;0 ⑬ Other 8:19;0;1770
 ② Test Lines 8:27;0;61 ⑤ Pump Spacer 1 8:29;5;477 ⑧ Pump Tail Cement 13:5;506 ⑪ Pump Displacement 13:63;0;0 ⑭ End Job 8:06;0;8
 ③ Pump Spacer 1 8:22;0;1;4 ⑥ Drop Bottom Plug 11:13;3;375 ⑨ Shutdown 13:58;1;9;31 ⑫ Bump Plug 8:15;3;4;1264

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Created: 2014-03-10 05:04:13, Version: 3.0.121

Edit

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
03/09/2014 23:00		Call Out					
03/10/2014 03:00		Depart Yard Safety Meeting					JSA on Job materials, Pre-tripping trucks, and Driving to location
03/10/2014 03:45		Arrive at Location from Service Center					Arrived 45mins early to location, Rig is on schedule.. Finished running Csg at 05:00/// Csg crew rigged down by 05:30...
03/10/2014 04:30		Assessment Of Location Safety Meeting					Hazard Hunt on location before spotting in trucks
03/10/2014 05:00		Safety Meeting - Pre Rig-Up					JSA on rigging up bulk trucks and iron to rig
03/10/2014 05:30		Rig-Up Equipment					
03/10/2014 06:00		Rig-Up Completed					Finished rigging up and had to wait on rig for right mud visc
03/10/2014 07:00		Safety Meeting - Pre Job					JSA with Company Man, Rig hands, and HES hands on pump schedule
03/10/2014 07:27		Start Job					
03/10/2014 07:29		Test Lines					4500psi Pressure Test Lines to rig floor
03/10/2014 07:32		Pump Spacer 1	3	10		210.0	10bbls H2O spacer
03/10/2014 07:35		Pump Spacer 2	4	24		370.0	24bbls Mud Flush spacer
03/10/2014 07:41		Pump Spacer 1	4	10		510.0	10bbls H2O spacer
03/10/2014 07:44		Drop Bottom Plug					Pre-Loaded
03/10/2014 07:44		Pump Lead Cement	5	139		530.0	338sks Extendacem, 11.5ppg, 2.31yield, 12.99gal/sk, Mixed with rig water and # verify by pressurized mud scales
03/10/2014 08:13		Pump Tail Cement	5	76		393.0	246sks FracCem, 13.5ppg, 1.74yield, 8.29gal/sk, Mixed with rig water and # verify by pressurized mud scales
03/10/2014 08:31		Shutdown					
03/10/2014 08:34		Drop Top Plug					Pre-Loaded
03/10/2014 08:37		Pump Displacement	8	306		630.0	Mud Displacement, Good returns throughout... 20bbls spacer back to surface
03/10/2014 09:27		Bump Plug	3			1220.0	Slowed down last 20bbls to bump.. Plug landed at 1220psi and brought up to 1815psi
03/10/2014 09:27		Other				1850.0	Csg Test 500psi over land at 1815psi for 15mins
03/10/2014 09:40		Check Floats					Floats Held
03/10/2014 09:40		End Job					
03/10/2014 09:42		Safety Meeting - Pre Rig-Down					JSA on rigging down bulk trucks and iron from rig
03/10/2014 09:50		Rig-Down Equipment					
03/10/2014 10:50		Rig-Down Completed					
03/10/2014 10:51		Safety Meeting - Departing Location					JSA on Location walk around, pre-tripping trucks, and driving back to Brighton yard

The Road to Excellence Starts with Safety

Sold To #: 301256		Ship To #: 3117315		Quote #:		Sales Order #: 901179210				
Customer: ENSIGN UNITED STATES DRILLING EBUSI				Customer Rep: Gentry, Ron						
Well Name: PHELPS			Well #: 12-32CHZ		API/UWI #: 05-123-37683					
Field: WATTENBERG		City (SAP): LOCHBUIE		County/Parish: Weld		State: Colorado				
Lat: N 40.01 deg. OR N 40 deg. 0 min. 36.205 secs.				Long: W 104.793 deg. OR W -105 deg. 12 min. 26.885 secs.						
Contractor: Ensign			Rig/Platform Name/Num: Ensign 17							
Job Purpose: Cement Intermediate Casing										
Well Type: Development Well			Job Type: Cement Intermediate Casing							
Sales Person: PLIENESS, RYAN			Srvc Supervisor: BULINSKI, MATTHEW			MBU ID Emp #: 483865				
Job Personnel										
HES Emp Name		Exp Hrs	Emp #	HES Emp Name		Exp Hrs	Emp #			
BULINSKI, MATTHEW J		0.0	483865	GLEESON, JAY Christophe		0.0	560216			
VIATOR, JASON R.		0.0	550394							
Equipment										
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way			
10866493C	40 mile	11542778	40 mile	11605598	40 mile	11645063	40 mile			
11764739	40 mile									
Job				Job Times						
Formation Name				Date		Time	Time Zone			
Formation Depth (MD)		Top	Bottom	Called Out		09 - Mar - 2014	23:00 MST			
Form Type		BHST		On Location		10 - Mar - 2014	03:45 MST			
Job depth MD		8048. ft		Job Started		10 - Mar - 2014	07:27 MST			
Water Depth		Wk Ht Above Floor		Job Completed		10 - Mar - 2014	09:40 MST			
Perforation Depth (MD)		From	To	Departed Loc		10 - Mar - 2014	11:00 MST			
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			10.0	bbl	8.33			3.0	
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)		24.0	bbl	8.4			4.0	
3	Water Spacer			10.0	bbl	8.33			4.0	
4	ExtendaCem B2	EXTENDACEM (TM) SYSTEM (452981)		338.0	sacks	11.5	2.31	12.99	5.0	12.99
12.99 Gal		FRESH WATER								
5	FracCem B2	FRACCEN (TM) SYSTEM (452963)		246.0	sacks	13.5	1.74	8.29	5.0	8.29
8.29 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		306		Treatment
Frac Gradient		15 Min		Spacers		20.0		Load and Breakdown		Total Job

Rates																							
Circulating				Mixing				Displacement				Avg. Job											
Cement Left In Pipe				Amount		0 ft		Reason		Shoe Joint													
Frac Ring # 1 @				ID				Frac ring # 2 @				ID				Frac Ring # 4 @				ID			
The Information Stated Herein Is Correct										Customer Representative Signature													

