

**ENCANA OIL & GAS (USA) INC. - EBUS
DO NOT MAIL - 370 17TH ST STE 1700
DENVER, Colorado**

Frederiksen 1D-28H-A368

Ensign 135

Post Job Summary **Cement Surface Casing**

Date Prepared: 3/11/2014
Version: 1

Service Supervisor: NIELSON, BRANDON

Submitted by: ESTENSSORO, SEBASTIAN

HALLIBURTON

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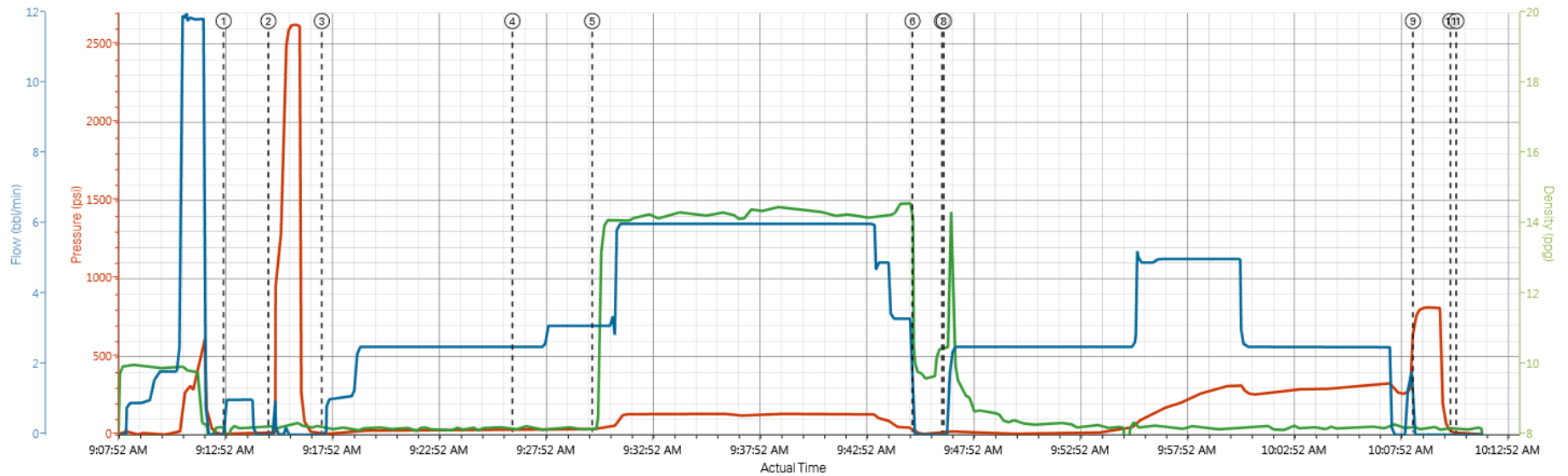
Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	WATER SPACER	8.34	3.00	30.0 bbl	30.0 bbl
1	2	Cement Slurry	SWIFTCEM	14.20	6.00	295.0 sacks	295.0 sacks

HALLIBURTON

Data Acquisition

Halliburton Cement



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

① Start Job 4;4.49;1 ② Pump Spacer 1 5;8.22;0 ③ Pump Cement 36;8.16;3.1 ④ Drop Top Plug 17;10.49;0 ⑤ Bump Plug 744;8.2;0 ⑥ End Job 6;8.17;0
 ⑦ Test Lines 8;8.27;0 ⑧ Pump Spacer 2 28;8.17;2.5 ⑨ Shutdown 23;10.02;0 ⑩ Pump Displacement 18;10.48;0 ⑪ Other 16;8.2;0

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Created: 2014-03-04 06:22:08, Version: 3.0.121

Edit

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Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
03/04/2014 03:30		Call Out						CREW CALLED OUT WITH WITH A 3.5 HOUR ON LOCATION TIME.
03/04/2014 04:45		Crew Leave Yard						
03/04/2014 05:45		Arrive At Loc						
03/04/2014 06:00		Assessment Of Location Safety Meeting						RIG WAS JUST RIGGING UP THE CASING CREW
03/04/2014 06:00		Rig-Up Equipment						
03/04/2014 06:45		Rig-Up Completed						
03/04/2014 08:15		Casing on Bottom						
03/04/2014 08:45		Safety Meeting						JSA WITH ALL INVOLVED PERSONS
03/04/2014 09:12		Start Job						
03/04/2014 09:15		Test Lines						TESTED LINES TO 2500 PSI NO VISIBLE LEAKS
03/04/2014 09:17		Pump Spacer 1	2.5	20			28.0	FRESH WATER
03/04/2014 09:26		Pump Spacer 2	3	10			41.0	DYE WATER
03/04/2014 09:30		Pump Cement	6	80.9			129.0	295 SKS SWIFTCHEM MIXED @ 14.2 PPG WITH FRESH WATER
03/04/2014 09:45		Shutdown						
03/04/2014 09:46		Drop Top Plug						PLUG PRE LOADED WITNESSED BY COMPANY REP
03/04/2014 09:46		Pump Displacement	5	61.3			318.0	FRESH WATER. CEMENT RETURNED TO SURFACE 40 BBL INTO LEAVING US WITH 20 BBL BACK TO SURFACE.
03/04/2014 10:08		Bump Plug	2.5				300.0	CALCULATED PRESSURE TO LAND WAS 282 PSI
03/04/2014 10:10		Check Floats					849.0	FLOATS HELD WITH 1 BBL BACK TO THE TRUCK
03/04/2014 10:11		End Job						

The Road to Excellence Starts with Safety

Sold To #: 340078	Ship To #: 3117312	Quote #:	Sales Order #: 901165890
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep: Elrod, Dennis	
Well Name: Frederiksen		Well #: 1D-28H-A368	API/UWI #: 05-123-37666-00
Field:	City (SAP): LONGMONT	County/Parish: Weld	State: Colorado
Contractor: Ensign Drilling		Rig/Platform Name/Num: Ensign 135	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: GREGORY, JON		Srvc Supervisor: NIELSON, BRANDON	MBU ID Emp #: 479703

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HARRAH, THADDEUS Gregory	5.8	552592	NIELSON, BRANDON K	5.8	479703	ROMERO, JOSEPH M	5.8	512137

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11542778	30 mile	12010172	30 mile	5707C	30 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
TOTAL	Total is the sum of each column separately							

Job

Formation Name					Job Times			
Formation Depth (MD)	Top	Bottom			Called Out	Date	Time	Time Zone
Form Type		BHST			On Location	04 - Mar - 2014	03:30	MST
Job depth MD	866. ft	Job Depth TVD	866. ft		Job Started	04 - Mar - 2014	05:45	MST
Water Depth		Wk Ht Above Floor	3. ft		Job Completed	04 - Mar - 2014	09:12	MST
Perforation Depth (MD)	From	To			Departed Loc	04 - Mar - 2014	10:11	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

Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	WATER SPACER		30.00	bbl	8.34			3.0	
2	SWIFTCEM	SWIFTCEM (TM) SYSTEM (452990)	295.0	sacks	14.2	1.54	7.66	6.0	7.66
7.66 Gal		FRESH WATER							
The Information Stated Herein Is Correct				Customer Representative Signature					

