

ENCANA OIL & GAS (USA) INC. - EBUS

Liberty 2E-21H

Ensign 135

Post Job Summary **Cement Surface Casing**

Date Prepared: 1/6/2014
Version: 1

Service Supervisor: MCBRIDE, NATHAN

Submitted by: ESTENSSORO, SEBASTIAN

HALLIBURTON

HALLIBURTON

Wellbore Geometry

Job Tubulars					MD		Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	
Casing	9 5/8" Surface Casing	9.63	8.835	40.00	0.00	909.00	42.0
Open Hole Section	12 1/4" Open Hole Section		12.250		0.00	910.00	0.00

HALLIBURTON

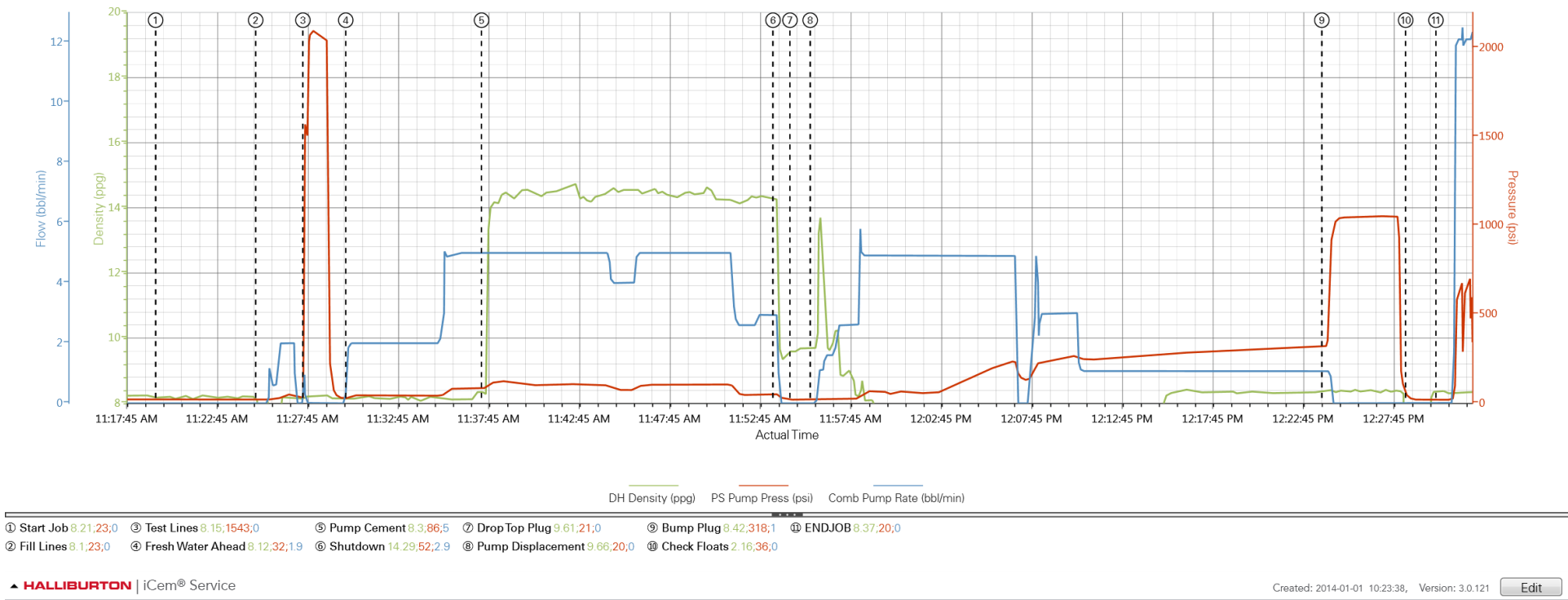
Pumping Schedule

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	5.00	20.0 bbl	20.0 bbl
1	2	Cement Slurry	SWIFTCEM	14.20	5.00	275.0 sacks	275.0 sacks
1	3	Spacer	DISPLACEMENT	8.34	5.00	65.4 bbl	65.4 bbl

HALLIBURTON

Data Acquisition

Custom Results



Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
01/01/2014 09:30		Arrive at Location from Service Center						Rig still running casing
01/01/2014 09:35		Pre-Rig Up Safety Meeting						Wait on Rig UP till casing crew clears out of area needed to spot HES equipment
01/01/2014 09:40		Assessment Of Location Safety Meeting						Review Third party activities, Hazard Hunt and review JSA
01/01/2014 09:45		Rig-Up Equipment						Full Rig up start after casing crew cleared out. Rig up Started at 1020
01/01/2014 10:09		Cement Returns to Surface						57bbls Displaced 8bbls to Pit
01/01/2014 10:30		Casing on Bottom						
01/01/2014 10:32		Circulate Well						Circulate with Swedge
01/01/2014 10:56		Rig-Up Completed						
01/01/2014 11:00		Pre-Job Safety Meeting						With Customer and 3rd Parties involved with Job
01/01/2014 11:19		Start Job						
01/01/2014 11:24		Pump Water	2	2			30.0	Fill Lines
01/01/2014 11:27		Test Lines					2104.0	
01/01/2014 11:29		Pump Water	5	20			80.0	Fresh Water
01/01/2014 11:37		Pump Lead Cement	5	75.4			125.0	275sks @ 14.2ppg, 1.54yield, 7.66 gal/sk
01/01/2014 11:53		Shutdown						
01/01/2014 11:54		Drop Top Plug						
01/01/2014 11:56		Pump Displacement	5	65.4			301.0	Fresh Water
01/01/2014 12:23		Bump Plug					1054.0	500psi Over
01/01/2014 12:28		Check Floats						Floats Good
01/01/2014 12:30		End Job						Thanks McBride and Crew

The Road to Excellence Starts with Safety

Sold To #: 340078	Ship To #: 3117101	Quote #:	Sales Order #: 901011920
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep: Elrod, Dennis	
Well Name: Liberty		Well #: 2E-21H	API/UWI #:
Field: WATTEBERG	City (SAP): MEAD	County/Parish: Weld	State: Colorado
Contractor: Ensign		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: MCBRIDE, NATHAN	MBU ID Emp #: 313810

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ALVARADO, JOSE Angel	4.0	505918	MARKOVICH, STEVEN Michael	4.0	502964	MCBRIDE, NATHAN Charles	4.0	313810

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

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							
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Job

Formation Name					Job Times			
Formation Depth (MD)	Top	Bottom			Called Out	Date	Time	Time Zone
Form Type	BHST				On Location	01 - Jan - 2014	09:30	MST
Job depth MD	909. ft		Job Depth TVD	909. ft	Job Started	01 - Jan - 2014	11:19	MST
Water Depth	. ft		Wk Ht Above Floor	5. ft	Job Completed	01 - Jan - 2014	12:30	MST
Perforation Depth (MD)	From	To			Departed Loc	01 - Jan - 2014	13:30	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
12 1/4" Open Hole Section				12.25				.	910.		
9 5/8" Surface Casing	Unknown		9.625	8.835	40.		N-80	.	909.		

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		20.00	bbl	8.34			5.0	
2	SWIFTCEM	SWIFTCEM (TM) SYSTEM (452990)	275.0	sacks	14.2	1.54	7.66	5.0	7.66
	7.66 Gal	FRESH WATER							
3	DISPLACEMENT		65.4	bbl	8.34			5.0	
The Information Stated Herein Is Correct			Customer Representative Signature						

