

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

Ione 1B-2H

Ensign 135

Post Job Summary **Cement Intermediate Casing**

Date Prepared: 12/29/2012
Version: 1

Service Supervisor: VIGIL, NICHOLAS

Submitted by: KENNEDY, HERRON

HALLIBURTON

Wellbore Geometry

Job Tubulars					MD		Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	
Open Hole Section	Open Hole Section		8.750		873.00	7,545.00	
Casing	Intermediate Casing	7.00	6.276	26.00	0.00	7,530.00	47.00
Casing	Surface Casing	9.63	8.921	36.00	0.00	1,046.00	

HALLIBURTON

Pumping Schedule

Stage / Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Surface Volume	Downhole Volume
1	1	Spacer	TUNED SPACER III	10.00	40.0 bbl	40.0 bbl
1	2	Cement Slurry	Tuned Light 10#	10.00	280.0 sacks	280.0 sacks
1	3	Cement Slurry	Varicem 12#	12.00	170.0 sacks	170.0 sacks
1	4	Cement Slurry	Varicem 13#	13.00	120.0 sacks	120.0 sacks
1	5	Spacer	ClayWeb III	8.34		120.0 sacks

Fluids Pumped

Stage/Plug # 1 Fluid 1: TUNED SPACER III
TUNED SPACER III - SBM (483826)
30.27 Barite
lbm/bbl

Fluid Density: 10.00 lbm/gal
Fluid Volume: 40.00 bbl
Pump Rate: 4.00 bbl/min

Stage/Plug # 1 Fluid 2: Tuned Light 10#
TUNED LIGHT (TM) SYSTEM

Fluid Weight: 10.00 lbm/gal
Slurry Yield: 2.33 ft³/sack
Total Mixing Fluid: 8.84 Gal
Surface Volume: 280.0 sacks
Sacks: 280.0 sacks
Estimated Top of Fluid:
Pump Rate: 4.00 bbl/min

Stage/Plug # 1 Fluid 3: Varicem 12#
VARICEM (TM) CEMENT

Fluid Weight: 12.00 lbm/gal
Slurry Yield: 2.49 ft³/sack
Total Mixing Fluid: 13.92 Gal
Surface Volume: 170.0 sacks
Sacks: 170.0 sacks
Estimated Top of Fluid:
Pump Rate: 4.00 bbl/min

Stage/Plug # 1 Fluid 4: Varicem 13#
VARICEM (TM) CEMENT

HALLIBURTON

Fluid Weight: 13.00 lbm/gal
Slurry Yield: 1.96 ft³/sack

Total Mixing Fluid: 11.92 Gal
Surface Volume: 120.0 sacks
Sacks: 120.0 sacks
Estimated Top of Fluid:
Pump Rate: 4.00 bbl/min

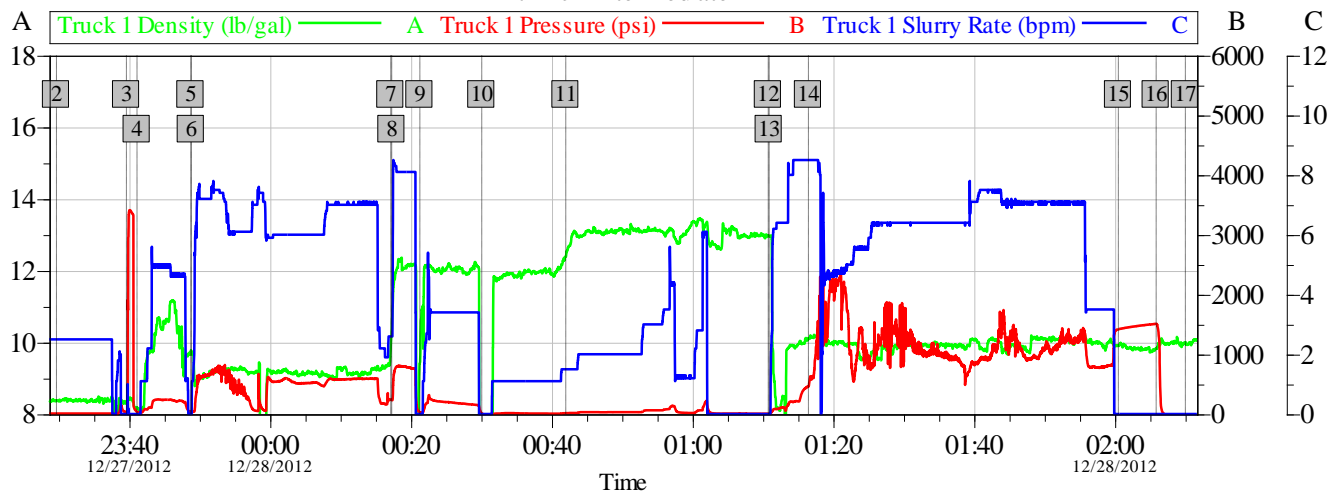
Stage/Plug # 1 Fluid 5: ClayWeb III

0.2 gal/Mgal CLA-Web

Fluid Density: 8.34 lbm/gal

Data Acquisition

Encana Ione1B-2H 7 Inch Intermediate



Global Event Log

2	Start Job	12/27/2012 23:29:41	3	Test Lines	12/27/2012 23:39:38
4	10 ppg Tuned Spacer	12/27/2012 23:41:08	5	Drop Bottom Plug	12/27/2012 23:48:46
6	10 ppg Tuned light	12/27/2012 23:48:50	7	Drop Bottom Plug	12/28/2012 00:17:10
8	12 ppg Varicem	12/28/2012 00:17:19	9	Shutdown	12/28/2012 00:21:17
10	Shutdown	12/28/2012 00:30:05	11	13 ppg Varicem	12/28/2012 00:42:01
12	Drop Top Plug	12/28/2012 01:10:47	13	Pump Displacement	12/28/2012 01:10:55
14	Displ Reached Cmmt	12/28/2012 01:16:29	15	Bump Plug	12/28/2012 02:00:30
16	Check Floats	12/28/2012 02:05:52	17	End Job	12/28/2012 02:10:01

Customer:	Job Date: 27-Dec-2012	Sales Order #: 900105451
Well Description:	UWI:	

OptiCem v6.4.10
28-Dec-12 02:35

HALLIBURTON

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
12/27/2012 18:45		Arrive At Loc						WELL SITE ASSESMENT,HAZARD HUNT,WATER TEST.RIG UP SAFETY MEETING, WAITED FOR RIG TO FINISH RUNNING CASING
12/27/2012 23:29		Start Job						PRE JOB SAFETY MEETNG
12/27/2012 23:39		Test Lines						PRESSURE TESTED LINES TO 3500 PSI
12/27/2012 23:41		Pump Spacer 1	4.6	40			200.0	10 PPG TUNED SPACER
12/27/2012 23:48		Drop Bottom Plug						PRE LOADED
12/27/2012 23:48		Pump Cement	7	116			589.0	10 PPG TUNED LIGHT MIXED AT SURFACE 9.3 PPG VERIFIED BY SCALE (280 SKS)
12/28/2012 00:17		Drop Bottom Plug						PRE LOADED
12/28/2012 00:17		Pump Lead Cement	3.4	75			159.0	12 PPG VARICEM (170 SKS) , HAD TO SHUT DOWN TWICE WHILE PUMPING LEAD BEACAUSE RIG WAS HAVING PROBLEMS TRANSFERING MUD
12/28/2012 00:42		Pump Tail Cement	2	44.8			56.0	13 PPG VERICEM (120SKS)
12/28/2012 01:03		Shutdown						
12/28/2012 01:10		Drop Top Plug						LOADED TOP PLUG WHILE SHUT DOWN
12/28/2012 01:10		Pump Displacement	7	170			841.0	10 PPG RIG MUD
12/28/2012 02:00		Bump Plug	3.5	286			856.0	CALCULATED PRESSURE TO LAND WAS 518 PSI
12/28/2012 02:05		Check Floats						FLOATS HELD
12/28/2012 02:10		End Job						RIG DOWN SAFETY MEETING

The Road to Excellence Starts with Safety

Sold To #: 340078	Ship To #: 2967497	Quote #:	Sales Order #: 900105451
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep:	
Well Name: lone		Well #: 1B-2H	API/UWI #: 05-123-36110
Field: Wattenberg	City (SAP): PLATTEVILLE	County/Parish: Weld	State: Colorado
Lat: N 40.173 deg. OR N 40 deg. 10 min. 24.384 secs.		Long: W 104.74 deg. OR W -105 deg. 15 min. 36.54 secs.	
Contractor: Ensign		Rig/Platform Name/Num: 135	
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: AARON, WESLEY	Srvc Supervisor: VIGIL, NICHOLAS		MBU ID Emp #: 443481

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANUELOS, GUADALUPE	0.0	372277	BARNES, BRIAN L	0.0	485204	CHAVEZ, JEROME Christophe	0.0	458298
DODSON, RICHARD Bryan	0.0	518192	LANGE, TIMOTHY Paul	0.0	520811	SIMS, DENNIS A	0.0	158880
VIGIL, NICHOLAS	0.0	443481						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10246780C	22 mile	10248062C	22 mile	10822531C	22 mile	10857080	22 mile
10988836C	22 mile	11360865C	22 mile	11542577	22 mile	11633848	22 mile
11667703C	22 mile	11764054C	22 mile	12010168	22 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

Job Times

Formation Name					Date	Time	Time Zone
Formation Depth (MD)	Top		Bottom		Called Out	27 - Dec - 2012	15:00 MST
Form Type	BHST				On Location	27 - Dec - 2012	18:45 MST
Job depth MD	7545. ft		Job Depth TVD		Job Started	27 - Dec - 2012	00:00 MST
Water Depth			Wk Ht Above Floor	6. ft	Job Completed	28 - Dec - 2012	00:00 MST
Perforation Depth (MD)	From		To		Departed Loc	28 - Dec - 2012	00:00 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
Open Hole Section				8.75				873.	7545.	.	.
Intermediate Casing	Unknown		7.	6.276	26.		P-110	.	7530.	.	.
Surface Casing	Used		9.625	8.921	36.		K-55	.	1046.	.	.

Fluid Data

Summit
Version:

Saturday, December 29, 2012 10:31:00

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	TUNED SPACER III	TUNED SPACER III - SBM (483826)	40.00	bbl	10.	207.2	11703.97	4.0	
	39.07 gal/bbl	FRESH WATER							
	30.27 lbm/bbl	BARITE, 100 LB SK (100003680)							
2	Tuned Light 10#	TUNED LIGHT (TM) SYSTEM (452984)	280.0	sacks	10.	2.33	8.84	4.0	8.84
	8.84 Gal	FRESH WATER							
3	Varicem 12#	VARICEM (TM) CEMENT (452009)	170.0	sacks	12.	2.49	13.92	4.0	13.92
	13.92 Gal	FRESH WATER							
4	Varicem 13#	VARICEM (TM) CEMENT (452009)	120.0	sacks	13.	1.96	11.92	4.0	11.92
	11.92 Gal	FRESH WATER							
5	ClayWeb III			bbl	8.34	.0	.0		
	0.2 gal/Mgal	CLA-WEB - TOTE (101985045)							
The Information Stated Herein Is Correct			Customer Representative Signature						

