

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

Ione
Ione 1B-2H

Ensign/135

Post Job Summary **Cement Production Casing**

Date Prepared: 01/17/2013
Version: 1

Service Supervisor: PICKELL, CHRISTOPHER

Submitted by: MCKAY, ADAM

HALLIBURTON

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Wellbore Geometry

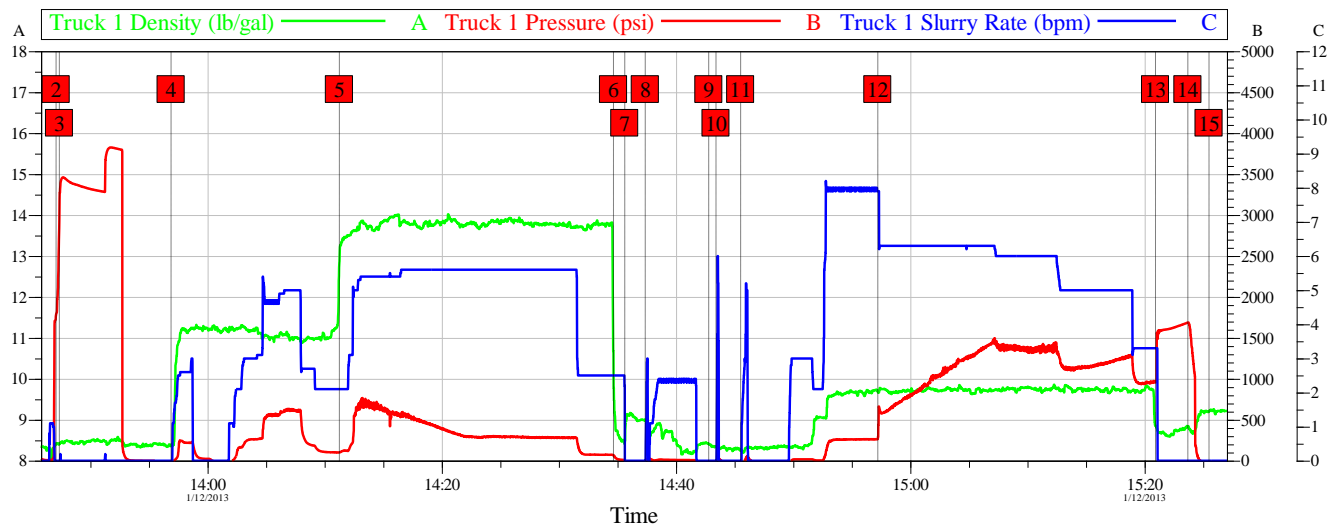
Job Tubulars					MD		Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	
Casing	Production Casing	4.50	4.000	11.60	0.00	11,838.00	5.00
Open Hole Section	Open Hole Section		6.125		7,530.00	11,838.00	
Casing	Intermediate Casing	7.00	6.276	26.00	0.00	7,530.00	

Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	TUNED SPACER III	11.00	4.00	40.0 bbl	40.0 bbl
1	2	Cement Slurry	EXPANDACEM B2	13.80	4.00	390.0 sacks	390.0 sacks

Data Acquisition

IONE 1B-2H ENCANA OIL & GAS



Global Event Log

Intersection	T1P	Intersection	T1P
2 Start Job	13:47:04 1788	3 Test Lines	13:47:21 2962
4 Pump Tuned Spacer 11#	13:56:53 -4.000	5 Pump Expandacem 13.8#	14:11:15 102.0
6 Pump Retarded Water	14:34:39 68.41	7 Shutdown	14:35:36 11.00
8 Clean Lines	14:37:22 -14.00	9 Drop Plug	14:42:47 -15.00
10 Pump Retarded Displacement	14:43:24 -15.00	11 Pump Displacement	14:45:30 -13.00
12 Displ Reached Cmmt	14:57:13 265.0	13 Bump Plug	15:20:55 960.0
14 Check Floats	15:23:41 1687	15 End Job	15:25:29 -14.00

Customer: ENCANA OIL & GAS
Well Description: IONE 1B-2H
SERVICE SUPERVISOR CHRISTOPHER PICKELL

Job Date: 12-Jan-2013
UWI: 05-123-36110
SERVICE OPERATOR JAMES WILEY

Sales Order #: 900113169

OptiCem v6.4.10
12-Jan-13 15:58

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)		Comments
01/12/2013 13:47		Start Job							BLACKHAWK ROTATING CEMENT HEAD WAS USED FOR THE JOB. WE HAD TO GO IN THE AIR ONCE TO CONNECT FLEX HOSE AND ONCE TO REMOVE IT
01/12/2013 13:47		Test Lines	1	1				3500.0	PRESSURE TEST LINES TO 3500 PSI. CHECK FOR VISIBLE LEAKS AND PRESSURE LOSS
01/12/2013 13:56		Pump Spacer 1	5.5	40				500.0	PUMP TUNED SPACER 11 PPG 6.74 CUFT/SK 50.43 GAL/SK MIXED WITH RIG WATER. SHUTDOWN AT THE START DO TO WHAT WE THOUGHT WAS A POSSIBLE LEAK. WAS ACTUALLY SNOW MELTING OFF IRON.
01/12/2013 14:11		Pump Cement	5.5	117				250.0	PUMP EXPANDACEM CEMENT 390 SKS 13.8 PPG 1.68 CUFT/SK 7.74 GAL/SK MIXED WITH RIG WATER
01/12/2013 14:34		Pump Spacer 1	2.5	3				50.0	PUMP 3 BBL OF WATER RETARDED WITH 150 POUNDS OF SUGAR
01/12/2013 14:35		Shutdown							
01/12/2013 14:37		Clean Lines							WASH PUMPS AND LINES
01/12/2013 14:42		Drop Top Plug							PLUG PRELOADED IN BLACKHAWK ROTATING HEAD. VERIFIED BY INDICATOR LIGHT.
01/12/2013 14:43		Pump Displacement	8	176.3				1500.0	PUMP DISPLACEMENT USING THE FIRST 7 BBL WITH RETARDED WATER THEN 10 PPG BRINE WATER. 2 WIPER BALLS DROPPED IMMEDIATELY AFTER DROPPING PLUG. WE SHUTDOWN AFTER PUMPING 2.5 BBL, BLACKHAWK HAND OPENED SIGHT PORT AND VERIFIED WIPER BALLS HAD DROPPED
01/12/2013 14:57		Displ Reached Cmmt	6						DISPLACEMENT REACHED CEMENT WITH 45 BBL AWAY
01/12/2013 15:20		Bump Plug	3					960.0	CALCUALTED PRESSURE TO LAND WAS 1253. PLUG LANDED WITH 960 PSI GOING 500 PSI OVER FINAL LIFT PRESSURE
01/12/2013 15:23		Check Floats						1687.0	PRESSURE WAS HELD FOR 2 MINUTES THEN RELEASED. FLOATS HELD. 1 BBL BACK TO TANKS
01/12/2013 15:25		End Job							

The Road to Excellence Starts with Safety

Sold To #: 340078		Ship To #: 2967497		Quote #:		Sales Order #: 900113169	
Customer: ENCANA OIL & GAS (USA) INC. - EBUS				Customer Rep: ELROD, DENNIS			
Well Name: lone			Well #: 1B-2H		API/UWI #: 05-123-36110-00		
Field: Wattenberg		City (SAP): PLATTEVILLE		County/Parish: Weld		State: Colorado	
Legal Description: Section NWNE2 Township 2N Range 66W							
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 Production Casing							
Well Type: Development Well				Job Type: Cement Production Casing			
Sales Person: AARON, WESLEY			Srvc Supervisor: PICKELL, CHRISTOPHER			MBU ID Emp #: 396838	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
JEWELL, WILLIAM Uris	0.0	503358	LANGE, TIMOTHY Paul	0.0	520811	PICKELL, CHRISTOPHER Lee	0.0	396838
WILEY, JAMES A	0.0	440080						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10246780C	14 mile	10988836C	14 mile	11019824C	14 mile	11605597	14 mile
11667703C	14 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							
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Job

Formation Name	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Wk Ht Above Floor	Perforation Depth (MD)	From	To	Called Out	Date	Time	Time Zone
			BHST	11838. ft	7000. ft		20. ft					12 - Jan - 2013	05:00	MST
											On Location	12 - Jan - 2013	08:45	MST
											Job Started	12 - Jan - 2013	13:47	MST
											Job Completed	12 - Jan - 2013	15:25	MST
											Departed Loc	12 - Jan - 2013	16:30	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
Open Hole Section				6.125				7530.	11838.	.	.
Intermediate Casing	Unknown		7.	6.276	26.			.	7530.	.	.
Production Casing	Unknown		4.5	4.	11.6			.	11838.	.	.

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Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
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 lbm/gal	Yield ft3/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	11.	6.74	50.43	4.0	
		30.27 lbm/bbl	BARITE, 100 LB SK (100003680)						
		39.07 gal/bbl	FRESH WATER						
2	EXPANDACEM B2	EXPANDACEM (TM) SYSTEM (452979)	390.0	sacks	13.8	1.68	7.75	4.0	7.75
		7.75 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		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	

Rates

Circulating		Mixing		Displacement		Avg. Job	
Cement Left In Pipe	Amount	5 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