

ENCANA OIL & GAS (USA) INC. - EBUS
DO NOT MAIL-3601 N STAGECOACH RD
LONGMONT, Colorado

Stelling
Stelling 3A-4H

Ensign/135

Post Job Summary

Cement Production Casing

Date Prepared: 07/18/2012
Version: 1

Service Supervisor: WHEELER, JUSTIN

Submitted by: MCKAY, ADAM

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Wellbore Geometry

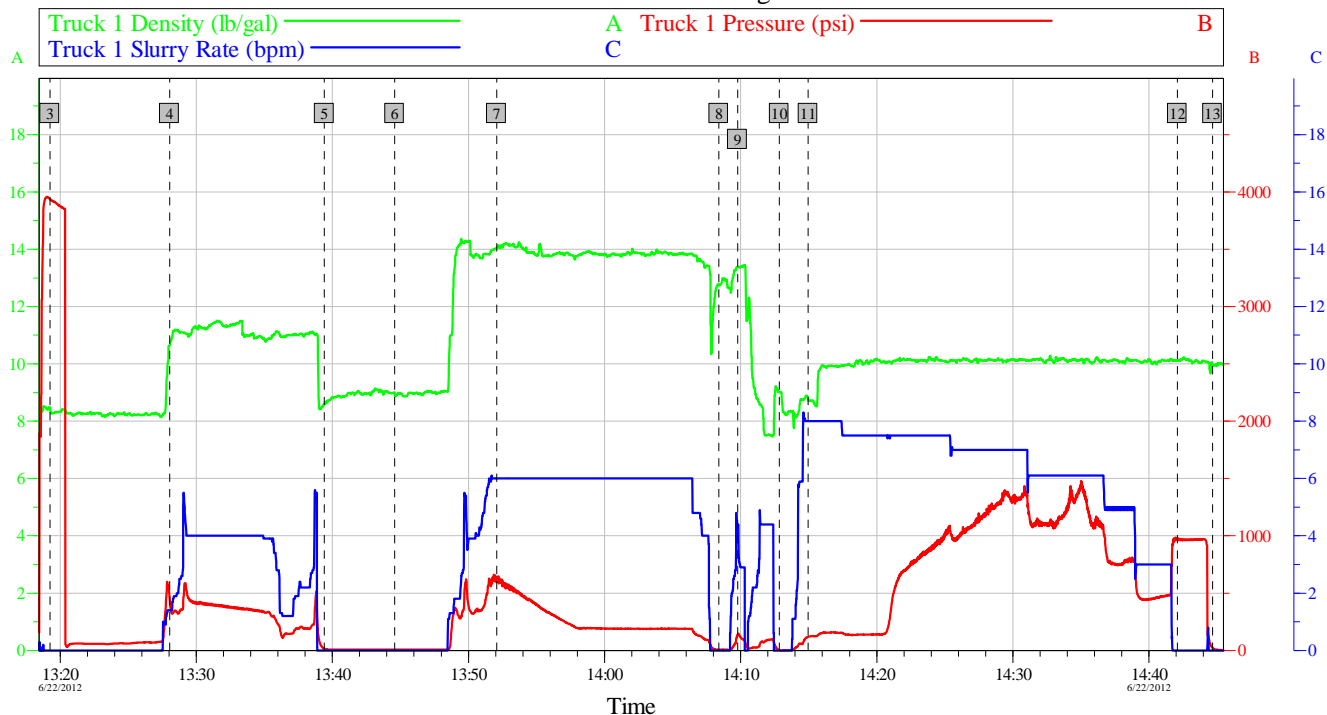
Job Tubulars					MD		TVD		Excess	Shoe Joint Length
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	Top ft	Bottom ft	%	ft
Open Hole Section	Open Hole		8.750		7,400.00	11,664.00	0.00	0.00		
Casing	Intermediate Casing	7.00	6.276	26.00	0.00	7,400.00	0.00			0.00
Casing	Production Casing	4.50	4.026	11.00	0.00	11,664.00	0.00	0.00		

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	6.00	320.0 sacks	320.0 sacks
1	3	Spacer	ClayWeb III	8.34	8.00	-	-

Data Acquisition

Encana - Stelling 3A-4H
4 1/2" Production Casing



Global Event Log											
Intersection		TIP	TISR	Intersection		TIP	TISR	Intersection		TIP	TISR
3 Test Lines	13:19:15	3937	0.000	4 Pump Tuned Spacer	13:28:03	438.2	1.400	5 Shutdown	13:39:25	14.92	0.000
6 Drop Bottom Plug	13:44:34	7.000	0.000	7 Pump Cement	13:52:04	605.4	6.000	8 Shutdown	14:08:24	7.000	0.000
9 Clean Lines	14:09:46	135.8	4.176	10 Drop Plug	14:12:50	3.670	0.000	11 Pump Brine Water Displacement	14:14:58	119.1	8.000
12 Bump Plug	14:42:05	972.1	0.000	13 Check Floats, Floats Holding	14:44:40	21.85	0.000				

Customer: Encana	Job Date: 22-Jun-2012	Sales Order #: 9610203
Well Description: Stelling 3A-4H	UWI:	

OptiCem v6.4.9
22-Jun-12 15:41

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
06/22/2012 09:30		Depart from Service Center or Other Site					
06/22/2012 10:00		Arrive At Loc					
06/22/2012 11:30		Safety Meeting - Pre Rig-Up					Safety Meeting w/ HES Crew Prior to Rig-Up (Rigged Up Discharge Lines to TESCO CRT/ Rotating Head For Cementing)
06/22/2012 13:19		Test Lines					Pressure Test Lines to 4000 PSI (Water Provided By Rig, Tested Ok for Mixing Cement)
06/22/2012 13:28		Pump Spacer	1.5	40		440.0	Mix and Pump 40 bbls Tuned Spacer @ 11 lb/gal (Density Verified By Pressurized Scales)
06/22/2012 13:39		Shutdown					Shut-Down, Rig Stings-Out of Casing With CRT
06/22/2012 13:44		Drop Bottom Plug					Drop Bottom Plug By Hand
06/22/2012 13:52		Pump Cement	6	95.7		605.0	Mix and Pump 320 sks ExpandaCem Cement @ 13.8 lb/gal (Density Verified By Pressurized Scales)
06/22/2012 14:08		Shutdown					Shut-Down, Rig Stings-Out of Casing With CRT
06/22/2012 14:10		Clean Lines		10			Wash Pumps and Lines to 3-Sided Tank (Added 1 50 lb Bag of Sugar for Cement in Tank, Provided By HES)
06/22/2012 14:12		Drop Top Plug					Drop Top Plug By Hand
06/22/2012 14:14		Pump Displacement - Start	8	0		120.0	Pump 10 lb/gal Brine Water Displacement (Provided By Rig)
06/22/2012 14:42		Pump Displacement - End	3	173		465.0	Good Returns Throughout Job
06/22/2012 14:42		Bump Plug	3	173		970.0	Bump Plug 500 PSI Over Final Lift Pressure, Hold 2 Minutes
06/22/2012 14:45		Check Floats					Floats Holding, Returned 1/2 bbl Back to Truck
06/22/2012 14:46		End Job					Casing Was Rotated Throughout Entire Cement Job
06/22/2012 15:00		Safety Meeting - Pre Rig-Down					Safety Meeting With HES Crew, Prior to Rig-Down, (Wet and Dry Samples of Cement Left on Location)
06/22/2012 15:30		Safety Meeting - Departing Location					Journey Management Meeting With HES Crew Prior to Departing Location

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The Road to Excellence Starts with Safety

Sold To #: 340078		Ship To #: 2933006		Quote #:		Sales Order #: 9610203	
Customer: ENCANA OIL & GAS (USA) INC. - EBUS				Customer Rep: ELROD, DENNIS			
Well Name: Stelling			Well #: 3A-4H			API/UWI #: 05-123-34764	
Field: Wattenberg		City (SAP): HUDSON		County/Parish: Weld		State: Colorado	
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: WHEELER, JUSTIN			MBU ID Emp #: 196470	

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	BURGESS, CODY Alan	0.0	511446	JEWELL, WILLIAM Uris	0.0	503358
ROMERO, JOSEPH M	0.0	512137	WHEELER, JUSTIN W	0.0	196470			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11106651	10 mile	11532305	10 mile	11542778	10 mile	11605599	10 mile
5707C	10 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	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	22 - Jun - 2012	00:00	MST
Form Type		BHST	Job Started	22 - Jun - 2012	10:00	MST
Job depth MD	11664. ft	Job Depth TVD	Job Completed	22 - Jun - 2012	13:18	MST
Water Depth		Wk Ht Above Floor		22 - Jun - 2012	14:46	MST
Perforation Depth (MD)	From	To	Departed Loc	22 - Jun - 2012	15:30	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				8.75				7400.	11664.	.	.
Intermediate Casing	Unknown		7.	6.276	26.	Unknown	N-80	.	7400.	.	.
Production Casing	Unknown		4.5	4.026	11.		P-110	.	11664.	.	.

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

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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	11.	6.74	42.3	4.0	
	39.07 gal/bbl	FRESH WATER							
	30.27 lbm/bbl	BARITE, 100 LB SK (100003680)							
2	EXPANDACEM B2	EXPANDACEM (TM) SYSTEM (452979)	320.0	sacks	13.8	1.68	7.75	4.0	7.75
	7.75 Gal	FRESH WATER							
3	ClayWeb III		9.00	bbl	8.34	.0	.0	.0	
	0.2 gal/Mgal	CLA-WEB - TOTE (101985045)							
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	0 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					