HALLIBURTON

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

Sheley
Sheley 3A-4H

Ensign/124

Post Job Summary
Cement Intermediate Casing

Date Prepared: 10/16/2012
Version: 1

Service Supervisor: FANTASIA, JOSEPH

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
Casing	Surface Casing	9.63	8.921	36.00	0.00	1,324.00	0.00	1,324.00		
Open Hole Section	Open Hole Section		8.750		1,324.00	7,700.00	1,324.00	7,700.00		
Casing	Intermediate Casing	7.00	6.276	26.00	0.00	7,700.00	0.00	7,700.00		96.00

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	9.80	4.00	40.0 bbl	40.0 bbl
1	2	Cement Slurry	Tuned Light 10.0#	10.00	2.00	355.0 sacks	355.0 sacks
1	3	Cement Slurry	Varicem 12#	12.00	4.00	145.0 sacks	145.0 sacks
1	4	Cement Slurry	Varicem 13#	13.00	6.00	105.0 sacks	105.0 sacks

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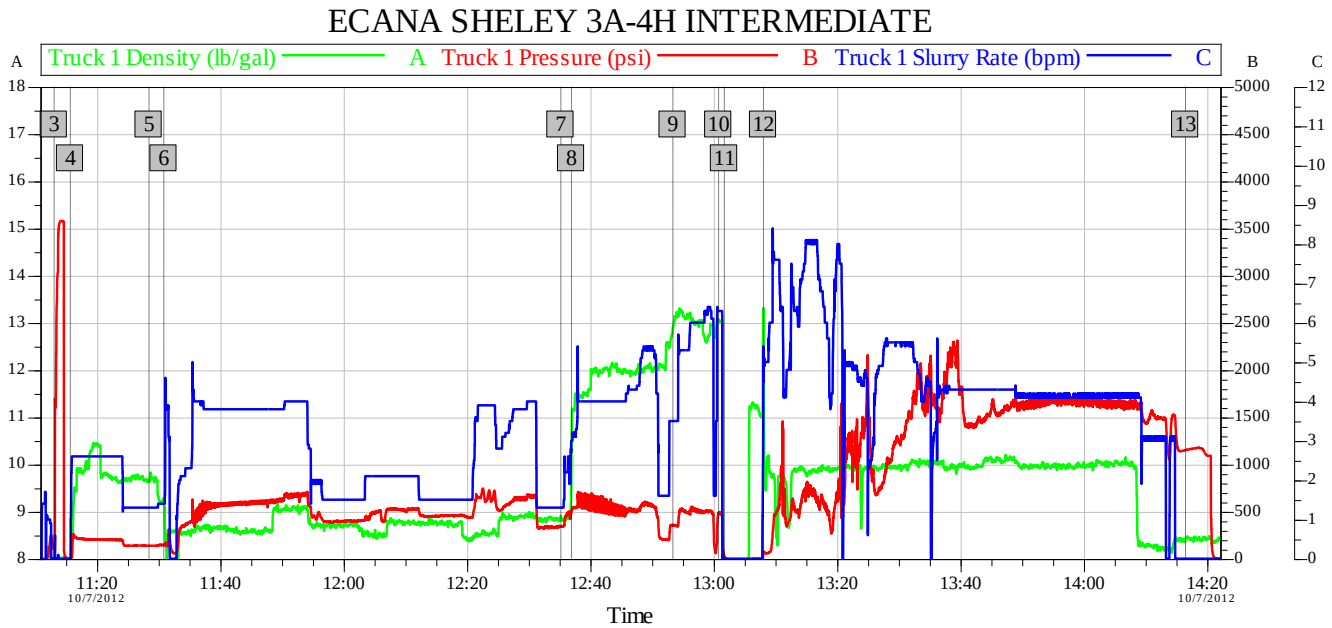
Data Acquisition



Global Event Log

	Intersection		T1P		Intersection		T1P		Intersection		T1P
1	Starting Job	09:49:51	24.00	2	Start Job	11:07:22	0.000	3	Test Lines	11:13:06	95.73
4	Pump Spacer 1	11:15:44	1.000	5	Drop Bottom Plug	11:28:29	138.4	6	Pump Cement	11:30:53	143.0
7	Drop Bottom Plug	12:35:15	344.6	8	Pump Lead Cement	12:36:58	507.9	9	Pump Tail Cement	12:53:26	353.0
10	Shutdown	13:00:50	477.9	11	Drop Top Plug	13:01:46	30.80	12	Pump Displacement	13:08:06	66.47
13	Shutdown	14:16:32	1150	14	End Job	14:24:48	0.000	15	Ending Job	14:29:29	-3.000

Customer: ECANA Well Description: INTERMEDIATE	Job Date: 07-Oct-2012 UWI: 05-123-34750-00	Sales Order #: 9865844

OptiCem v6.4.10
07-Oct-12 14:32

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Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)		Comments
10/07/2012 05:00		Arrive at Location from Service Center							
10/07/2012 05:15		Assessment Of Location Safety Meeting							
10/07/2012 11:07		Start Job							
10/07/2012 11:14		Test Lines						3578.0	
10/07/2012 11:15		Pump Spacer 1	5	40				275.0	40 BBLS TUNED SPACER MIXED AT 9.8 PPG USING SUPPLIED WATER
10/07/2012 11:30		Drop Bottom Plug							PLUG PRELOADED
10/07/2012 11:30		Pump Cement	5	147				400.0	355 SKS TUNED LIGHT MIXED AT 9.3 PPG TO SET UP AT 10 PPG. MIXED USING SUPPLIED WATER
10/07/2012 12:35		Drop Bottom Plug						345.0	PLUG PRELOADED
10/07/2012 12:36		Pump Lead Cement	5	64				508.0	145 SKS VARICEM MIXED AT 12 PPG USING SUPPLIED WATER
10/07/2012 12:53		Pump Tail Cement	5	36				532.0	105 SKS VARICEM MIXED AT 13 PPG USING SUPPLIED WATER
10/07/2012 13:00		Shutdown							
10/07/2012 13:01		Drop Top Plug							REMOVED CAP TO DROP
10/07/2012 13:08		Pump Displacement	4	284				1700.0	GOOD RETURNS THROUGH OUT. SPACER TO SURFACE AT 215 BBLS INTO DISPLACEMENT. CEMENT TO SURFACE AT 255 BBLS INTO DISPLACEMENT. APPROX 30 BBLS CEMENT BACK.
10/07/2012 14:20		Check Floats							FLOATS HELD
10/07/2012 14:24		End Job							

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The Road to Excellence Starts with Safety

Sold To #: 340078	**Ship To #:** 2955368	**Quote #:**	**Sales Order #:** 9865844
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		**Customer Rep:** Clarke, Leonard	
Well Name: Sheley	**Well #:** 3A-4H		**API/UWI #:** 05-123-34750-00
Field: WATTENBERG	**City (SAP):** FIRESTONE	**County/Parish:** Weld	**State:** Colorado
Contractor: Ensign	**Rig/Platform Name/Num:** 124		
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well	**Job Type:** Cement Intermediate Casing		
Sales Person: AARON, WESLEY	**Srvc Supervisor:** FANTASIA, JOSEPH	**MBU ID Emp #:** 485445	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BAMMER, JORDAN Blaine	10.5	526575	BANUELOS, GUADALUPE	10.5	372277	BELL, ROBERT Preston	10.5	437060
BULINSKI, MATTHEW J	10.5	483865	CONGDON, RICHARD S.	9.5	320306	FANTASIA, JOSEPH Brandon	10.5	485445
HOLMES, ANDREW Malcom	9.0	520802	IPSON, TIMOTHY J	10.5	485018	JEWELL, WILLIAM Uris	10.5	503358

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*
10025030	25 mile	10804557C	25 mile	10867419C	25 mile	11036298	25 mile
11142998	25 mile	11398319	25 mile	11410470C	25 mile	11526488	25 mile
11527041C	25 mile	11532299	25 mile	11562562	25 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			
Formation Depth (MD)	**Top**	**Bottom**	
Form Type		**BHST**	
Job depth MD	7700. ft	**Job Depth TVD**	7700. ft
Water Depth		**Wk Ht Above Floor**	
Perforation Depth (MD)	*From*	**To**	

Job Times

	Date	Time	Time Zone
Called Out	07 - Oct - 2012	01:30	MST
On Location	07 - Oct - 2012	05:00	MST
Job Started	07 - Oct - 2012	09:50	MST
Job Completed	07 - Oct - 2012	14:30	MST
Departed Loc	07 - Oct - 2012	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				8.75				1324.	7700.	1324.	7700.
Intermediate Casing	Unknown		7.	6.276	26.		D	.	7700.	.	7700.
Surface Casing	Unknown		9.625	8.921	36.			.	1324.	.	1324.

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**			

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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**	**9.8**	**5.78**	**36.62**	**4.0**	
	39.07 gal/bbl	FRESH WATER							
	30.27 lbm/bbl	BARITE, 100 LB SK (100003680)							
2	**Tuned Light 10.0#**	**TUNED LIGHT (TM) SYSTEM (452984)**	**355.0**	**sacks**	**10.**	**2.33**	**8.84**	**4.0**	**8.84**
	8.84 Gal	FRESH WATER							
3	**Varicem 12#**	**VARICEM (TM) CEMENT (452009)**	**145.0**	**sacks**	**12.**	**2.49**	**13.92**	**4.0**	**13.92**
	13.92 Gal	FRESH WATER							
4	**Varicem 13#**	**VARICEM (TM) CEMENT (452009)**	**105.0**	**sacks**	**13.**	**1.96**	**11.92**	**4.0**	**11.92**
	11.92 Gal	FRESH WATER							
5	**ClayWeb III**			**bbl**	**8.34**				
	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**	***96 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***