

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

Sheley 3B-4H

Ensign/124

## **Post Job Summary** **Cement Intermediate Casing**

Date Prepared: 11/02/2012  
Version: 1

Service Supervisor: BULINSKI, MATTHEW

Submitted by: MCKAY, ADAM

**HALLIBURTON**

# HALLIBURTON

## 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	807.00	0.00	7,615.00		
Open Hole Section	Open Hole Section		8.750		807.00	7,615.00	807.00	7,615.00		
Casing	Intermediate Casing	7.00	6.276	26.00	0.00	7,598.00	0.00	7,598.00		96.00

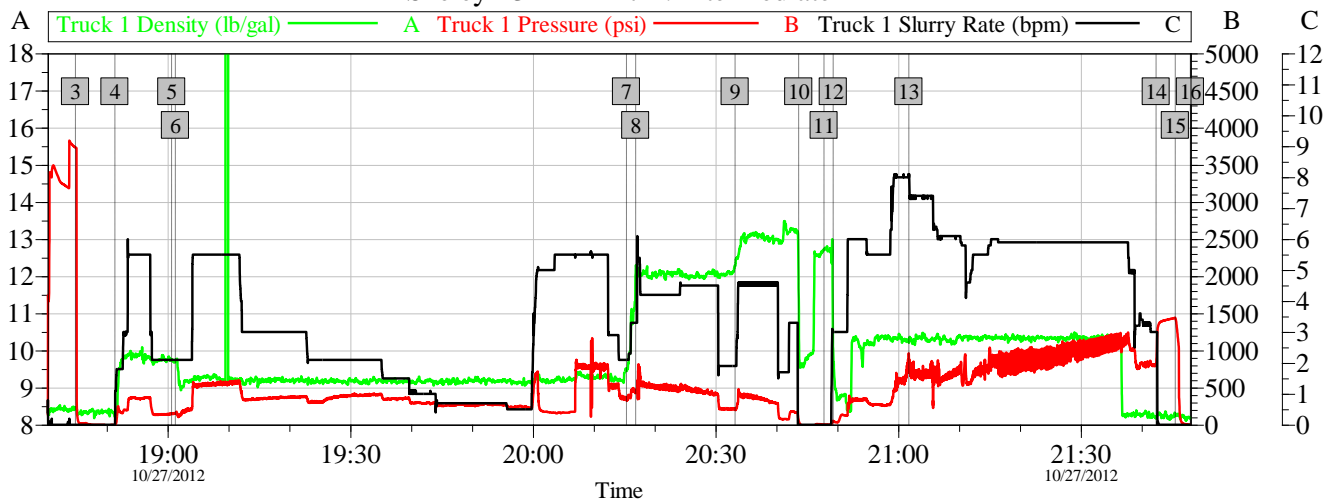
## Pumping Schedule

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	350.0 sacks	350.0 sacks
1	3	Cement Slurry	Varicem 12#	12.00	5.00	145.0 sacks	145.0 sacks
1	4	Cement Slurry	Varicem 13#	13.00	5.00	100.0 sacks	100.0 sacks

## Data Acquisition

### Encana Oil & Gas (USA) Inc.-Ebus

Sheley 3B-4H 7in. Intermediate



#### Global Event Log

Intersection		TID	TIP	TISR	Intersection		TID	TIP	TISR
3	Test Lines	18:44:50	8.453	3735	0.000	4	9.8ppg Tuned Spacer III	18:51:19	8.210 -1.000 0.000
5	Drop Bottom Plug	19:00:38	9.750	156.9	2.100	6	10ppg Tuned Light	19:01:15	9.690 151.6 2.100
7	Drop Bottom Plug	20:15:20	9.470	343.5	2.100	8	12ppg VariCem	20:16:51	12.09 452.5 3.300
9	13ppg VariCem	20:33:11	12.28	214.6	1.900	10	Shutdown	20:43:38	11.61 59.66 0.000
11	Drop Top Plug	20:47:48	12.73	6.000	0.000	12	Pump Displacement	20:49:18	10.01 52.00 3.000
13	Displ Reached Cmmt	21:01:44	10.22	951.6	8.000	14	Bump Plug	21:42:21	8.204 802.3 3.000
15	Check floats	21:45:30	8.272	1440	0.000	16	End Job	21:47:58	8.200 5.000 0.000

Customer: Encana  
Well Description: Sheley 3B-4H

Job Date: 27-Oct-2012  
UWI: 05-123-34751-00

Sales Order #: 9912550

OptiCem v6.4.9  
27-Oct-12 22:04

## Service Supervisor Reports

### Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
10/27/2012 12:00		Arrive at Location from Service Center						ARRIVED AT LOCATION 30MINS BEFORE REQUEST TIME
10/27/2012 16:00		Assessment Of Location Safety Meeting						HAZARD HUNT WALK AROUND LOCATION AND TALK ABOUT SPOTTING IN TRUCKS
10/27/2012 18:40		Start Job						
10/27/2012 18:44		Test Lines	1				3735.0	NO VISIBLE LEAKS ON SURFACE
10/27/2012 18:51		Pump Spacer 1	5.5	40			365.0	40BBL TUNED SPACER MIXED AT 9.8PPG USING RIG WATER
10/27/2012 19:00		Drop Bottom Plug					157.0	PRE-LOADED IN HEAD WITH COMPANY MAN
10/27/2012 19:01		Pump Lead Cement	4.5	145			581.0	350SKS TUNED LITE MIXED AT 10PPG USING RIG WATER
10/27/2012 20:15		Drop Bottom Plug					344.0	PRE-LOADED IN HEAD WITH COMPANY MAN
10/27/2012 20:16		Pump Cement	4.5	64			457.0	145SKS VARICEM B-1 MIXED AT 12PPG USING RIG WATER
10/27/2012 20:33		Pump Tail Cement	4.5	35			424.0	100SKS VARICEM B-1 MIXED AT 13PPG USING RIG WATER
10/27/2012 20:43		Shutdown						
10/27/2012 20:46		Check Floats					1440.0	RELEASED PSI WITH 1BBL BACK TO TRUCK FLOATS HELD
10/27/2012 20:48		Drop Top Plug						BREAK OFF CAP ON TOP OF HEAD AND DROP TOP PLUG
10/27/2012 20:49		Pump Displacement	8	287			877.0	287BBLS OF DISPLACEMENT WITH GOOD RETURNS THROUGHOUT 40BBLS SPACER AND 7BBLS TUNED LIGHT CMT TO SURFACE
10/27/2012 21:42		Bump Plug	3				802.0	LAST 10BBL OF DISPLACEMENT SLOWED DOWN TO 3 BBL TO BUMP, PLUG LANDED AT 802PSI PRESSURED UP TO 1387PSI
10/27/2012 21:47		End Job						

### The Road to Excellence Starts with Safety

<b>Sold To #:</b> 340078	<b>Ship To #:</b> 2959236	<b>Quote #:</b>	<b>Sales Order #:</b> 9912550
<b>Customer:</b> ENCANA OIL & GAS (USA) INC. - EBUS		<b>Customer Rep:</b> Clarke, Leonard	
<b>Well Name:</b> Sheley		<b>Well #:</b> 3B-4H	<b>API/UWI #:</b> 05-123-34751-00
<b>Field:</b> WATTENBERG	<b>City (SAP):</b> FIRESTONE	<b>County/Parish:</b> Weld	<b>State:</b> Colorado
<b>Contractor:</b> Ensign		<b>Rig/Platform Name/Num:</b> 124	
<b>Job Purpose:</b> Cement Intermediate Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Intermediate Casing	
<b>Sales Person:</b> AARON, WESLEY		<b>Srv Supervisor:</b> BULINSKI, MATTHEW	<b>MBU ID Emp #:</b> 483865

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BULINSKI, MATTHEW J	11.5	483865	CHISLUM, DENNIS	9.5	512130	CONGDON, RICHARD S.	11.0	320306
DODSON, RICHARD Bryan	11.5	518192	HALE, ROBERT B	11.5	512467	HOLLOWAY, DUSTIN Craig	11.5	504032
HOLMES, ANDREW Malcom	9.5	520802	SINCLAIR, RICHARD	11.5	368195	WILEY, JAMES A	11.0	440080

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10246780C	15 mile	10248053C	15 mile	10829457	15 mile	10857080C	15 mile
10866497C	15 mile	10977079C	15 mile	10982754C	15 mile	11064535	15 mile
11362287C	15 mile	11542577	15 mile	11562570C	15 mile	11605598	15 mile
11606995	15 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	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To	Called Out	On Location	Job Started	Job Completed	Departed Loc
				BHST	7808. ft	7808. ft					27 - Oct - 2012	27 - Oct - 2012	27 - Oct - 2012	27 - Oct - 2012	27 - Oct - 2012
							8. ft								

### 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				807.	7615.	807.	7615.
Intermediate Casing	Unknown		7.	6.276	26.		D	.	7598.	.	7598.
Surface Casing	Unknown		9.625	8.921	36.			.	807.	.	7615.

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 ft <sup>3</sup> /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)	350.0	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)	100.0	sacks	13.	1.96	11.92	4.0	11.92
	11.92 Gal	FRESH WATER							
5	ClayWeb III		7.00	bbl	8.34				
	0.2 gal/Mgal	CLA-WEB - TOTE (101985045)							

Calculated Values		Pressures		Volumes			
Displacement		Shut In: Instant		Lost Returns		Cement Slurry	
Top Of Cement		5 Min		Cement Returns		Actual Displacement	
Frac Gradient		15 Min		Spacers		Load and Breakdown	

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
--	-----------------------------------