

ENCANA OIL & GAS (USA) INC. - EBUS

Cosslett 4-0-22

Ensign/135

## **Post Job Summary** **Cement Surface Casing**

Date Prepared: 12/10/2011  
Version: 1

Service Supervisor: SIPNEFSKI, ROBERT

Submitted by: PLIENESS, RYAN

**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
Open Hole Section	Open Hole		12.250		0.00	1,010.00	0.00	0.00	0.00	
Casing	Surface Casing	8.63	7.725	40.00	0.00	1,010.00	0.00	0.00	100.00	45.00

# HALLIBURTON

## Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	Water Spacer	8.34	0.00	30.0 bbl	30.0 bbl
1	2	Cement Slurry	SwiftCem 14.2#	14.20		700.0 sacks	700.0 sacks

## Fluids Pumped

**Stage/Plug # 1      Fluid 1:**      Water Spacer  
DUMMY MUD / FLUSH / SPACER SBC MATERIAL

Fluid Density: 8.34 lbm/gal  
Fluid Volume: 30.00 bbl  
Pump Rate: 0.00 bbl/min

**Stage/Plug # 1      Fluid 2:**      SwiftCem 14.2#  
SWIFTCM (TM) SYSTEM

Fluid Weight: 14.20 lbm/gal  
Slurry Yield: 1.52 ft<sup>3</sup>/sack  
Total Mixing Fluid: 7.57 Gal  
Surface Volume: 700.0 sacks  
Sacks: 700.0 sacks  
Estimated Top of Fluid:

## Service Supervisor Reports

### Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
12/07/2011 06:30		Arrive at Location from Service Center					
12/07/2011 06:40		Assessment Of Location Safety Meeting					HELD PRE-RIG UP SAFETY MEETING. ASSESS LOCATION FOR HAZARDS.
12/07/2011 08:30		Safety Meeting					HELD SAFETY MEETING WITH ALL 3RD PARTY PERSONNEL.
12/07/2011 09:08		Start Job					
12/07/2011 09:11		Test Lines				2115.0	
12/07/2011 09:13		Pump Spacer 1	5	30		76.0	PUMPED 30BBL OF WATER, SUPPLIED BY RIG.
12/07/2011 09:19		Pump Cement	5	189		138.0	PUMPED 700SKS OF SWIFTCM CMT. @ 14.2PPG MIXED WITH WATER SUPPLIED BY RIG.
12/07/2011 10:00		Shutdown					CUSTOMER REQUEST TO WASH UP ON TOP OF PLUG.
12/07/2011 10:03		Drop Top Plug					
12/07/2011 10:04		Pump Displacement	5	56		42.0	PUMPED 56BBL OF WATER SUPPLIED BY RIG. DURING ENTIRE JOB SAW NO RETURNS.

# HALLIBURTON

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)		Comments
12/07/2011 10:19		Other							CHECK FLOATS, DID NOT HOLD.
12/07/2011 10:20		Bump Plug	2.5					77.0	
12/07/2011 10:22		End Job							HELD PRE-RIG DOWN SAFETY MEETING. PREPARE FOR DEPARTURE.

## The Road to Excellence Starts with Safety

Sold To #: 340078	Ship To #: 2895601	Quote #:	Sales Order #: 9120677
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep:	
Well Name: Cosslett		Well #: 4-0-22	API/UWI #: 05-123-32706
Field:	City (SAP): ERIE	County/Parish: Weld	State: Colorado
Contractor: Ensign		Rig/Platform Name/Num: 135	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: FLING, MATTHEW	Srvc Supervisor: SIPNEFSKI, ROBERT		MBU ID Emp #: 419391

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BRICKER, DANIEL Z		475710	HALE, ROBERT E		470588	SIPNEFSKI, ROBERT Anthony		419391
TAYLOR, JOSHUA Lin		485939						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10951208	16 mile	10982754C	16 mile	11341988C	16 mile	11398319	16 mile
11562562	16 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	07 - Dec - 2011	03:00 MST
Form Type	BHST				On Location	07 - Dec - 2011	06:30 MST
Job depth MD	1010. ft	Job Depth TVD	1010. ft	Job Started	07 - Dec - 2011	09:08	MST
Water Depth		Wk Ht Above Floor	4. ft	Job Completed	07 - Dec - 2011	10:22	GMT
Perforation Depth (MD)	From		To	Departed Loc	07 - Dec - 2011	11:30	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				12.25				.	1010.	.	.
Surface Casing	Unknown		8.625	7.725	40.		N-80	.	1010.	.	.

## 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	Water Spacer		30.00	bbl	8.34	.0	.0	.0	
2	SwiftCem 14.2#	SWIFTCEN (TM) SYSTEM (452990)	700.0	sacks	14.2	1.52	7.57		7.57
7.57 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	45 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					

