

ENCANA OIL & GAS (USA) INC. - EBUS

Elmquist 4-2-23

Ensign/122

Post Job Summary

Cement Surface Casing

Date Prepared: 12/29/2011
Version: 1

Service Supervisor: NIELSON, BRANDON

Submitted by: PLIENESS, RYAN

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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		12.250		0.00	840.00	0.00	0.00	0.00	
Casing	Surface Casing	8.63	7.725	40.00	0.00	827.80	0.00	0.00	35.00	45.00

Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	Water Spacer	8.34	0.00	30.0 bbl	30.0 bbl
1	2	Cement Slurry	SwiftCem 14.2#	14.20		310.0 sacks	310.0 sacks

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Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
12/27/2011 05:31		Test Lines						PRESSURE TEST TO 2000 PSI NO VISIBLE LEAKS
12/27/2011 05:33		Pump Spacer 1	5	20			50.0	RIG WATER
12/27/2011 05:43		Pump Spacer 2	6	10			50.0	RIG WATER WITH 2 BOTTLES OF DYE
12/27/2011 05:43		Pump Cement	6	85.5			76.0	310 SKS SWIFTCEM MIXED @ 14.2 PPG WITH RIG WATER
12/27/2011 05:59		Shutdown						
12/27/2011 06:06		Drop Top Plug						PLUG PRE LOADED WITNESSED BY COMPANY REP
12/27/2011 06:07		Pump Displacement	6	50			200.0	RIG WATER MIXED WITH CLAY WEB. CMT RETURNED TO SURFACE 39 BBL INTO DISPLACEMENT. 11 BBL BACK
12/27/2011 06:18		Bump Plug	3				294.0	CALCULATED PRESSURE TO LAND WAS 240 PSI
12/27/2011 06:20		Shut In Well					250.0	SHUT IN @ 250 PSI LEAVE SWAGE AND VALVE ON FOR 2 HOURS
12/27/2011 06:22		End Job						

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The Road to Excellence Starts with Safety

Sold To #:	Ship To #:	Quote #:	Sales Order #: 9164768
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep: .., ROY	
Well Name: Elmquist		Well #: 4-2-23	API/UWI #: 05-123-32009
Field:	City (SAP):	County/Parish: Weld	State: Colorado
Contractor: Ensign		Rig/Platform Name/Num: 122	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: FLING, MATTHEW		Srvc Supervisor: NIELSON, BRANDON	MBU ID Emp #: 479703

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANUELOS, GUADALUPE		372277	HINKEL, BRADLEY		512123	NIELSON, BRANDON K		479703
VIGIL, NICHOLAS		443481						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10824253C	16 mile	10951212	16 mile	10977079C	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

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	27 - Dec - 2011	03:30	CST
Form Type		BHST	Job Started	27 - Dec - 2011	05:30	CST
Job depth MD	840. ft	Job Depth TVD	Job Completed	20 - Dec - 2011	06:22	CST
Water Depth		Wk Ht Above Floor	Departed Loc	27 - Dec - 2011	07:30	CST
Perforation Depth (MD)	From	To				

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				.	840.	.	.
Surface Casing	Unknown		8.625	7.725	40.		N-80	.	827.8	.	.

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	Water Spacer		30.00	bbl	8.34	.0	.0	.0	
2	SwiftCem 14.2#	SWIFTCM (TM) SYSTEM (452990)	310.0	sacks	14.2	1.55	7.69		7.69
7.69 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					