

ENCANA OIL & GAS (USA) INC. - EBUS

Melbon Ranch 3B-17H

Ensign/135

Post Job Summary

Cement Intermediate Casing

Date Prepared: 3/9/12
Version: 1

Service Supervisor: WHEELER, JUSTIN

Submitted by: PLIENESS, WHEELER

HALLIBURTON

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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	4.00	20.0 bbl	20.0 bbl
1	2	Spacer	TUNED SPACER III	10.50	5.00	30.0 bbl	30.0 bbl
1	3	Cement Slurry	Tuned Light 10#	10.00	5.00	250.0 sacks	250.0 sacks
1	4	Cement Slurry	Varicem 12#	12.00	5.00	135.0 sacks	135.0 sacks
1	5	Cement Slurry	Varicem 13#	13.00	5.00	240.0 sacks	240.0 sacks
1	6	Spacer	ClayWeb III	8.34	5.00	455.0 bbl	455.0 bbl

Job Summary

Job Information

Job Start Date	3/24/2012 6:24:00 AM	Mud Type	Water Based Mud
Job MD	7,510.0 ft	Actual Mud Density	10 lbm/gal
Job TVD	7,510.0 ft		

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
03/23/2012 19:30		Depart from Service Center or Other Site						
03/23/2012 20:30		Arrive At Loc						
03/24/2012 04:30		Safety Meeting - Pre Rig-Up						Water Provided By Rig, Tested Ok for Mixing Cement
03/24/2012 06:25		Test Lines					3500.0	Pressure Test Lines to 4000 PSI
03/24/2012 06:39		Pump Spacer	2	30			125.0	Mix and Pump 30 bbls Tuned Spacer @ 10.5 lb/gal (All Densities Verified By Pressurized Scales)
03/24/2012 06:51		Drop Bottom Plug	2				85.0	2 Bottom Plugs Loaded in Plug Container Prior to Starting Job (Witnessed By Customer Rep.)
03/24/2012 06:54		Pump Lead Cement	6	102			550.0	Mix and Pump 250 sks Tuned Light Cement @ 10 lb/gal (Mixed on Batch Mixer in 2 Batches) Density Verified By Pressurized Scales, Total Volume Correct)
03/24/2012 07:13		Drop Bottom Plug	1.5				190.0	Drop Bottom Plug on the Fly
03/24/2012 07:14		Pump Cement	5	59.9			485.0	Mix and Pump 135 sks VariCem Cement @ 12 lb/gal (Mixed on Pump Truck)
03/24/2012 07:29		Pump Tail Cement	5	83.8			350.0	Mix and Pump 240 sks VariCem Cement @ 13 lb/gal (Mixed on Pump Truck)
03/24/2012 07:50		Drop Top Plug						Shut-Down, Drop Top Plug By Hand
03/24/2012 07:55		Pump Displacement - Start	2	0			.0	Pump 10 bbls Fresh Water Displacement, Wash-Up on Top of Plug
03/24/2012 08:02		Pump Displacement - Start	7	0			455.0	Pump Remainder Mud Displacement
03/24/2012 08:31		Shutdown						Shut-Down, Divert Returns to Catch Tank for Spacer and Cement Returns
03/24/2012 08:32		Spacer Returns to Surface						30 bbls Tuned Spacer Returns to Surface
03/24/2012 08:36		Cement Returns to Surface						33 bbls Cement Returns to Surface
03/24/2012 08:51		Pump Displacement - End	3	273.4			655.0	Good Returns Throughout Job
03/24/2012 08:51		Bump Plug	3	283.4			1205.0	Bump Plug, Hold For 5 Minutes
03/24/2012 08:56		Check Floats						Floats Not Holding
03/24/2012 09:01		Pressure Up					1135.0	Pressure Up
03/24/2012 09:03		Check Floats						Check Floats, Floats Not Holding
03/24/2012 09:05		Pressure Up					1315.0	Pressure Up
03/24/2012 09:06		Check Floats						Check Floats, Floats Holding
03/24/2012 09:07		End Job						
03/24/2012 10:00		Safety Meeting - Pre Rig-Down						Wet and Dry Samples of Cement Left On Location
03/24/2012 10:00		Safety Meeting - Departing Location						

The Road to Excellence Starts with Safety

Sold To #: 340078	Ship To #: 2915442	Quote #:	Sales Order #: 9379721
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep: Ewing, Chris	
Well Name: Melbon Ranch		Well #: 3B-17H	API/UWI #:
Field:	City (SAP): HUDSON	County/Parish: Weld	State: Colorado
Contractor: Ensign		Rig/Platform Name/Num: 135	
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: FLING, MATTHEW	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 #
BRICKER, DANIEL Z	0.0	475710	Dodson, Richard	0.0	518192	FRY, DOMINIK	0.0	426436
IPSON, TIMOTHY J	0.0	485018	KUNERT, RANDY Joe	0.0	477850	MEADOWS, DANIEL Graham	0.0	500668
MILLER, GEOFFREY Alan	0.0	460232	STOEBER, KEITH A	0.0	486734	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
10248053C	20 mile	10866497C	20 mile	10977079C	20 mile	11338223	20 mile
11542577	20 mile	11542778	20 mile	11562544C	20 mile	11562546C	20 mile
11605599	20 mile	11633846C	20 mile	11645065	20 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	23 - Mar - 2012	17:00	MST
Form Type	BHST			On Location	23 - Mar - 2012	20:30	MST
Job depth MD	7510. ft			Job Started	24 - Mar - 2012	06:24	MST
Water Depth	Wk Ht Above Floor			Job Completed	24 - Mar - 2012	09:07	MST
Perforation Depth (MD)	From	To		Departed Loc	24 - Mar - 2012	10:30	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				926.	7510.	.	.
Intermediate Casing	Unknown		7.	6.276	26.	Unknown	N-80	.	7510.	.	.
Surface Casing	Unknown		9.625	8.835	40.		N-80	.	926.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CMT CASING EQUIPMENT BOM	1	JOB		
PLUG,CMTG,BOT,7,HWE,5.66 MIN/6.54 MAX CS	2	EA		
CLR,FLT,7 DWC/C 26 PPF,P/Q,4-1/4 SSII	1	EA		
Description	Qty	Qty uom	Depth	Supplier

SHOE,FLT,7 DWC/C 26PP,P/Q,4-1/4 SSII	1	EA		
PLUG,CMTG,TOP,7,HWE,5.66 MIN/6.54 MAX CS	1	EA		
KIT,HALL WELD-A	2	EA		
CTRZR ASSY,SPRL BL,LEFT HD,7 CSG X 8	10	EA		
MILEAGE FOR CEMENTING CREW,ZI	40	MI		
ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON	40	MI		

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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	WATER SPACER			bbl	8.34	.0	.0	4.0	
2	TUNED SPACER III	TUNED SPACER III - SBM (483826)	30.00	bbl	9.5	5.57	37.84	4.0	
		39.07 gal/bbl FRESH WATER							
		30.27 lbm/bbl BARITE, 100 LB SK (100003680)							
3	Tuned Light 10#	TUNED LIGHT (TM) SYSTEM (452984)	250.0	sacks	10.	2.29	8.49	4.0	8.49
		8.49 Gal FRESH WATER							
4	Varicem 12#	VARICEM (TM) CEMENT (452009)	135.0	sacks	12.	2.49	13.92	4.0	13.92
		13.92 Gal FRESH WATER							
5	Varicem 13#	VARICEM (TM) CEMENT (452009)	240.0	sacks	13.	1.96	9.92	4.0	9.92
		9.92 Gal FRESH WATER							
6	ClayWeb III		0.00	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

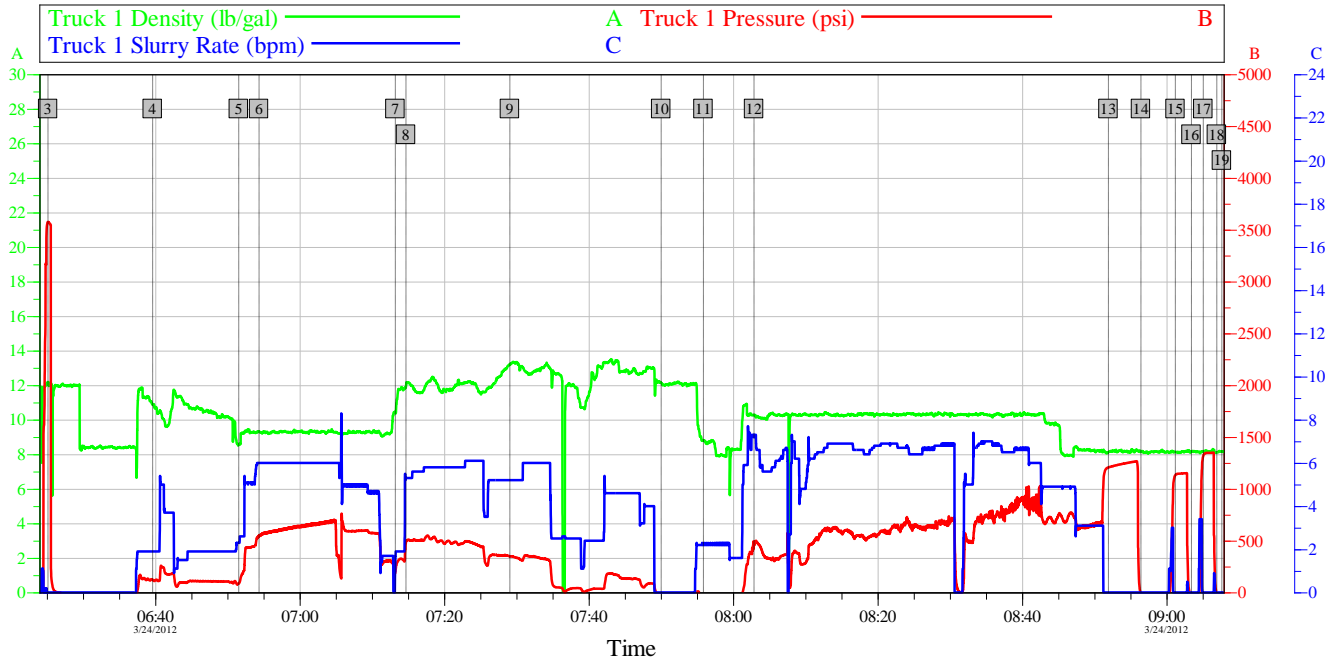
Circulating		Mixing		Displacement		Avg. Job	
Cement Left In Pipe	Amount	91 ft	Reason	Shoe Joint			
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID

The Information Stated Herein Is Correct	Customer Representative Signature
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HALLIBURTON

Data Acquisition

Encana - Melbon Ranch 3B-17H
7" Intermediate Casing



Global Event Log														
Intersection		TIP	TISR	Intersection		TIP	TISR	Intersection		TIP	TISR			
3	Test Lines	06:25:10	3576	0.000	4	Pump Tuned Spacer	06:39:39	122.3	1.900	5	Drop Bottom Plug	06:51:33	84.98	2.300
6	Pump Lead Cement	06:54:22	549.3	6.000	7	Drop Bottom Plug	07:13:14	190.5	1.363	8	Pump Cement	07:14:42	486.3	5.300
9	Pump Tail Cement	07:29:05	350.1	5.200	10	Drop Top Plug	07:50:02	-19.00	0.000	11	Pump Fresh Water Displacement	07:55:52	-8.000	2.200
12	Pump Mud Displacement	08:02:53	457.0	7.298	13	Bump Plug	08:51:57	1207	0.000	14	Check Floats, Floats Not Holding	08:56:26	-13.04	0.000
15	Pressure Up	09:01:13	1134	0.000	16	Check Floats, Floats Not Holding	09:03:26	-34.00	0.000	17	Pressure Up	09:05:04	1317	0.000
18	Check Floats, Floats Holding	09:06:57	-13.41	0.000	19	End Job	09:07:39	-44.52	0.000					

Customer: Encana
Well Description: Melbon Ranch 3B-17H

Job Date: 24-Mar-2012
UWI:

Sales Order #: 9379721

OptiCem v6.4.9
24-Mar-12 11:03