

HALLIBURTON

iCem® Service

Post Job Report

ENCANA OIL & GAS (USA) INC

Date: Wednesday, June 18, 2014

Vogl McCoy 2F-5H-F267

Sincerely,
ONUORAH, THEODORE

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1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Vogl McCoy 2F-5H-F267** cement **Intermediate** casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

Halliburton [Brighton District]

Job Times

	Date	Time	Time Zone
Requested Time On Location			MTN
Called Out			
On Location	04/21/14	06:30	
Job Started	04/21/14	13:35	
Job Completed	04/21/14	16:37	
Departed Location	04/21/14	17:30	

1.2 Cementing Job Summary

Sold To #: 340078		Ship To #: 3191320		Quote #:		Sales Order #: 0901278181							
Customer: ENCANA OIL & GAS (USA) INC. - EBUS				Customer Rep: Chris Hite									
Well Name: VOGL-MCCOY		Well #: 2F-5 H-F267		API/UWI #: 05-123-37779-00									
Field: WATTENBERG	City (SAP): FIR	County/Parish: WELD		State: COLORADO									
Legal Description: SE NW-5-2N-67W-2597FNL-2363FWL													
Contractor: Kevin Haul				Rig/Platform Name/Num: H&P 278									
Job BOM: 7522													
Well Type: HORIZONTAL OIL													
Sales Person: HALAMERICA\HB50180				Srvc Supervisor: Nicholas Vigil									
Job													
Formation Name													
Formation Depth (MD)		Top		Bottom									
Form Type				BHST									
Job depth MD		7625ft		Job Depth TVD									
Water Depth				Wk Ht Above Floor									
Perforation Depth (MD)		2.0	rom	To									
Well Data													
3.0	Descripti on	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft		
	Casing		9.625	8.835	40		N-80	0	850	0	850		
	Casing		7	6.276	26		N-80	0	7612	0	0		
	Open Hole Section			8.75				850	7625	0	7382		
Tools and Accessories													
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make				
Guide Shoe	7					Top Plug	7	1	HES				
Float Shoe	7	1		7510		Bottom Plug	7	2	HES				
Float Collar	7	1		7419		SSR plug set	7		HES				
Insert Float	7					Plug Container	7	1	HES				
4.0 Stage Tool	7					Centralizers	7		HES				
Miscellaneous Materials													
Gelling Agt	5.0	Conc	6.0	Surfactant	7.0	Conc	8.0	Acid Type	9.0	Qty	10.0	11.0 onc	12.0
Treatment Fld	13.0	Conc	14.0	15.0 Inhibi tor	16.0	17.0 onc	18.0	Sand Type	19.0	20.0 ize	21.0	22.0 ty	23.0
Fluid Data													
Stage/Plug #: 1													
Fluid #	Stage Type	Fluid Name			Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal		

1	10 lb/gal Tuned Spacer III	Tuned Spacer III	40	bbl	10				
61.01 lbm/bbl		24.0 BARITE, 100 LB SK (100003680)							
38 gal/bbl		25.0 FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	Tuned Light B1	TUNED LIGHT (TM) SYSTEM	285	sack	10	2.32		5	8.73
8.73 Gal		26.0 FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VariCem B1	VARICEM (TM) CEMENT	327	sack	13	1.95		5	9.83
9.81 Gal		27.0 FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Displacement		283.4	bbl	10.5				
28.0	Cement Left In Pipe	Amount	ft		29.0	Reason	30.0	Shoe Joint	
Comment 30 bbl of cement to surface									

30.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	PS Pump Rate (bbl/min)	PS Pump Press (psi)	Comment
Event	1	Arrive At Loc	Arrive At Loc	4/21/2014	06:30:00	USER				On location time was 0730, Rig had around 1300' of casing left to run.
Event	2	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	4/21/2014	06:40:00	USER				Hazard hunt, Rig up Safety Meeting, Water test
Event	3	Rig-Up Equipment	Rig-Up Equipment	4/21/2014	06:50:00	USER				
Event	4	Rig-Up Completed	Rig-Up Completed	4/21/2014	07:50:00	USER				
Event	5	Pre-Job Safety Meeting	Pre-Job Safety Meeting	4/21/2014	13:00:00	USER	8.30	0.00	1.00	Held safety meeting with all personnel involved in job.
Event	6	Start Job	Start Job	4/21/2014	13:35:04	COM1	7.61	0.00	82.00	
Event	7	Test Lines	Test Lines	4/21/2014	13:35:16	COM1	7.65	0.00	75.00	Pressure tested lines to 4000 psi
Event	8	Pump Spacer 1	10 ppg Tuned Spacer	4/21/2014	13:45:18	COM1	8.27	0.00	-1.00	40 bbls, weight verified by scale
Event	9	Drop Bottom Plug	Drop Bottom Plug	4/21/2014	13:52:36	COM1	10.53	4.00	156.00	Plug was pre loaded
Event	10	Pump Lead Cement	10 ppg Tuned Light	4/21/2014	13:53:44	COM1	10.60	5.00	192.00	285 sks, weight was verified by scale
Event	11	Drop Bottom Plug	Drop Bottom Plug	4/21/2014	14:48:58	COM1	8.95	6.40	325.00	Plug was pre loaded
Event	12	Pump Tail Cement	13 ppg Varicem	4/21/2014	14:49:29	COM1	9.09	6.40	246.00	327 sks, weight was verified by scale
Event	13	Shutdown	Shutdown	4/21/2014	15:06:42	COM1	12.76	0.00	9.00	
Event	14	Drop Top Plug	Drop Top Plug	4/21/2014	15:08:38	COM1				Dropped plug while we were shut down
Event	15	Pump Displacement	Pump Displacement	4/21/2014	15:08:43	COM1				Displaced using 10 ppg mud
Event	16	Bump Plug	Bump Plug	4/21/2014	15:50:42	COM1				Bumped plug 500 psi over final lift bringing our pressure to 1240 psi.
Event	17	Other	Check Floats	4/21/2014	15:52:15	COM1				Floats held

Event	18	Pressure Up Well	Casing Test	4/21/2014	15:55:38	COM1	7.72	0.70	1995.00	Pressured up casing to 2500 psi and held for 15 minutes
Event	19	End Job	End Job	4/21/2014	16:17:06	COM1				Rig down safety meeting
Event	20	Rig-Down Equipment	Rig-Down Equipment	4/21/2014	16:25:00	USER				
Event	21	Rig-Down Completed	Rig-Down Completed	4/21/2014	17:30:00	USER				

31.0 Attachments

31.1 Encana Vogyl McCoy 2F-5H-F267.png



