

**ENCANA OIL & GAS (USA) INC. - EBUS
DO NOT MAIL - 370 17TH ST STE 1700
DENVER, Colorado**

Vogl-McCoy 2G-5 H-F267

H&P Drilling 278

Post Job Summary **Cement Intermediate Casing**

Date Prepared: 3/26/2014
Version: 1

Service Supervisor: ASHBY, ANDREW

Submitted by: ONUORAH, THEODORE

HALLIBURTON

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Wellbore Geometry

Job Tubulars					MD	
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft
Open Hole Section	8 3/4 Open Hole		8.750		952.00	7,170.00
Casing	7" CSG	7.00	6.276	26.00	952.00	7,166.00

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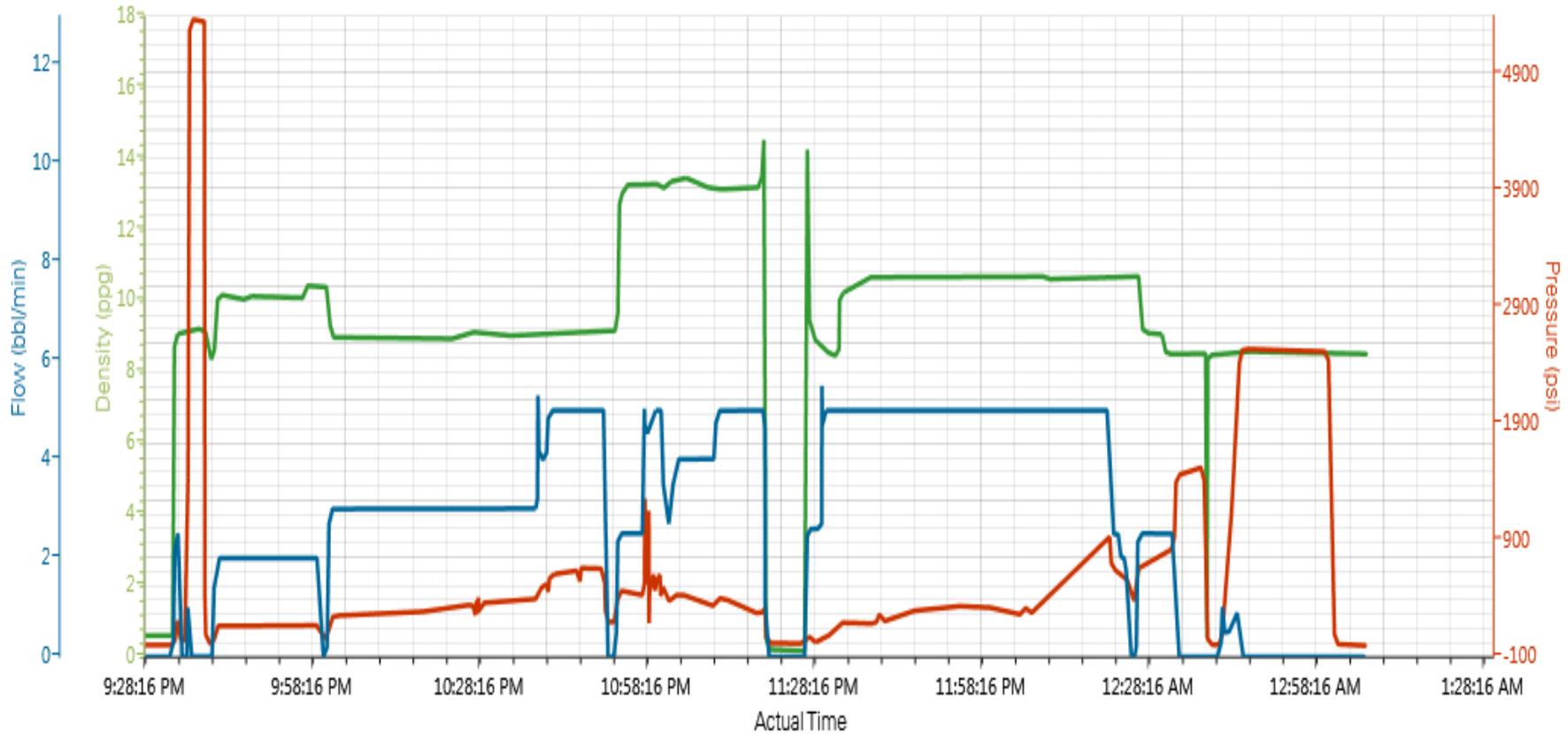
Pumping Schedule

Stage/ Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume
1	1	Spacer	WATER SPACER	8.3	2	20 bbl.
1	2	Spacer	TUNED SPACER III	10.0	2	30 bbl.
1	3	Cement Slurry	TUNED LIGHT (TM) B1	10.0	4	292 sacks
1	4	Cement Slurry	VARICEM B1	13.0	5	316 sacks
1	5	Mud	DISPLACEMENT	10.5	5	280 bbl.

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Data Acquisition

Custom Results



DH Density (ppg) PS Pump Press (psi) Comb Pump Rate (bbbl/min)

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Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
03/18/2014 13:00		Call Out					Crew Called out for Job. 7" Double Plug Container.
03/18/2014 14:45		Pre-Convoy Safety Meeting					Met w/crew to discuss safety and hazards of travel to location
03/18/2014 15:00		Depart from Service Center or Other Site					Entered into Journey Management.
03/18/2014 15:30		Arrive At Loc					Ended Journey Management - Crew to arrive later.
03/18/2014 16:00		Assessment Of Location Safety Meeting					Met w/crew to discuss hazards of site, location of materials and safety precautions.
03/18/2014 18:00		Other					Spot Equipment
03/18/2014 18:20		Pre-Rig Up Safety Meeting					Met w/crew to discuss the best way to rig up, safety and hazards involved.
03/18/2014 18:30		Rig-Up Equipment					Rig up Ground & Standpipe
03/18/2014 20:45		Pre-Job Safety Meeting					Met w/Rig Crew, Co. Rep, and our crew to discuss job procedures, contingencies, and safety measures.
03/18/2014 21:10		Rig-Up Equipment					Rig up floor and plug container.
03/18/2014 21:33		Other	2.7	1.5		260.0	Fill Lines w/fresh water.
03/18/2014 21:35		Test Lines				5369.0	Lost 19 psi over 3 min - test good.
03/18/2014 21:40		Pump Spacer 1	2	30		160.0	30 bbls Tuned Spacer @ 10.0 lbm/gal - getting good returns
03/18/2014 21:58		Shutdown					Shutdown - Drop bottom Plug #1 - witnessed by co. rep.
03/18/2014 22:00		Pump Lead Cement	4	120		285.0	292 sks Tuned Light lead Cement @ 10.0 lbm/gal, 2.32 cuft/sk, 8.73 gal/sk
03/18/2014 22:38		Other	5			515.0	Increase rate to finish up the Lead cement.
03/18/2014 22:50		Shutdown					Shutdown / Drop Bottom plug #2 - witnessed by driller.
03/18/2014 22:52		Pump Tail Cement	5	110		450.0	316 sks VariCem tail cement @ 13.0 lbm/gal, 1.95 cuft/sk, 9.83 gal/sk
03/18/2014 22:57		Other	5				Increase Rate
03/18/2014 23:01		Slow Rate	4			400.0	Slow rate because of trouble getting water.
03/18/2014 23:20		Shutdown					Shutdown / Drop Top Plug - witnessed by driller.
03/18/2014 23:25		Pump Displacement	5	280		200.0	Displacement = 20 bbls water, 240 bbls mud, 20 bbls mud. Still getting good returns.
03/19/2014 00:12		Comment					Starting to see traces of spacer to surface.
03/19/2014 00:15		Spacer Returns to Surface	5				Tuned Spacer to surface.
03/19/2014 00:21		Cement Returns to Surface					Cement returns to surface.
03/19/2014 00:22		Slow Rate	2.5				
03/19/2014 00:24		Shutdown					Shutdown to swap hose from mud line to the water tank.
03/19/2014 00:26		Pump Displacement	2.5				Resume pumping displacement
03/19/2014 00:32		Bump Plug	2.5			850.0	Pressured up to 1300 psi - hold for 5 min per Co. Rep.
03/19/2014 00:37		Check Floats					Floats held - 2 bbls back - approx 22 bbls cement to surface.
03/19/2014 00:41		Comment					Pressure test casing per co rep = 2500 psi for 15 min.
03/19/2014 00:45		Pressure Up Well				2542.0	
03/19/2014 01:00		Bleeding Tubing Or Casing					Test good - lost 20 psi over 15 min.
03/19/2014 01:05		End Job					Job Complete
03/19/2014 01:10		Post-Job Safety Meeting (Pre Rig-Down)					Met w/crew to discuss rigging down safely.

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Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
03/19/2014 01:15		Rig-Down Equipment					Rig everything down.
03/19/2014 03:25		Pre-Convoy Safety Meeting					Met w/crew to discuss fit-for-duty, safety and hazards of travel back.
03/19/2014 03:30		Depart Location for Service Center or Other Site					Entered into Journey Management.
03/19/2014 03:30		Other					Thanks for using Halliburton!!!

The Road to Excellence Starts with Safety

Sold To #: 340078	Ship To #: 3191319	Quote #:	Sales Order #: 901193164
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep: Hyde, Chris	
Well Name: Vogl-McCoy		Well #: 2G-5 H-F267	API/UWI #: 05-123-37782
Field:	City (SAP): FIRESTONE	County/Parish: Weld	State: Colorado
Contractor: H&P Drilling		Rig/Platform Name/Num: H&P 278	
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: CORMIER, ALLISON		Srvc Supervisor: ASHBY, ANDREW	MBU ID Emp #: 450544

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ALVARADO, JOSE Angel	11.5	505918	ASHBY, ANDREW A	11.5	450544	BROOM, KENDALL L	11.5	524682
EAVES, WESTON	11.5	539193	TAULIILI, SAIAIGA	11.5	545471			

Equipment

HES Unit #	Distance-1 way						
10025030	20 mile	10951248	20 mile	11019824C	20 mile	11338223	20 mile
11501021	20 mile	11542577	20 mile	11764739	20 mile		

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
					18 - Mar - 2014	13:00	MST
Form Type			BHST	On Location	18 - Mar - 2014	16:00	MST
Job depth MD	7508. ft		Job Depth TVD	7166. ft	Job Started	18 - Mar - 2014	21:30
Water Depth			Wk Ht Above Floor	3. ft	Job Completed	19 - Mar - 2014	01:00
Perforation Depth (MD)	<i>From</i>		<i>To</i>		Departed Loc	18 - Mar - 2014	03:30

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
8 3/4 Open Hole				8.75				952.	7170.		
7" CSG	Unknown		7.	6.276	26.		K-55	952.	7166.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CMT CASING EQUIPMENT BOM	1	JOB		
SHOE,FLT,7 8RD,2-3/4 SS II VLV	1	EA		
CLR,FLT,7 8RD 17-26PPF,2-3/4SSII	1	EA		
CTRZR ASSY,API,7 CSG X 8 3/4HOLE,HNGD	40	EA		
CTRZR ASSY,SPRL BL,LEFT HD,7 CSG X 8	20	EA		
CLAMP - LIMIT - 7 - HINGED -	1	EA		
Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG,TOP,7,HWE,5.66 MIN/6.54 MAX CS	1	EA		
PLUG,CMTG,BOT,7,HWE,5.66 MIN/6.54 MAX CS	1	EA		
KIT,HALL WELD-A	2	EA		

Tools and Accessories

Fluid Data									
Stage/Plug #: 1									
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	SPACER	20	Bbl.	8.34	.0	.0	2	
2	TUNED SPACER III	TUNED SPACER III - SBM (483826)	30	Bbl.	10.	5.86	38.0	2	
	61.01 lbm/bbl	BARITE, BULK (100003681)							
	39.07 gal/bbl	FRESH WATER							
3	TUNED LIGHT (TM) B1	TUNED LIGHT (TM) SYSTEM (452984)	292	sacks	10.	2.32	8.73	4	8.73
	8.73 Gal	FRESH WATER							
4	VARICEM B1	VARICEM (TM) CEMENT (452009)	316	sacks	13.	1.95	9.83	5	9.83
	9.83 Gal	FRESH WATER							
5	DISPLACEMENT	MUD	280	Bbl.	10.5			5	
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	0 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					

