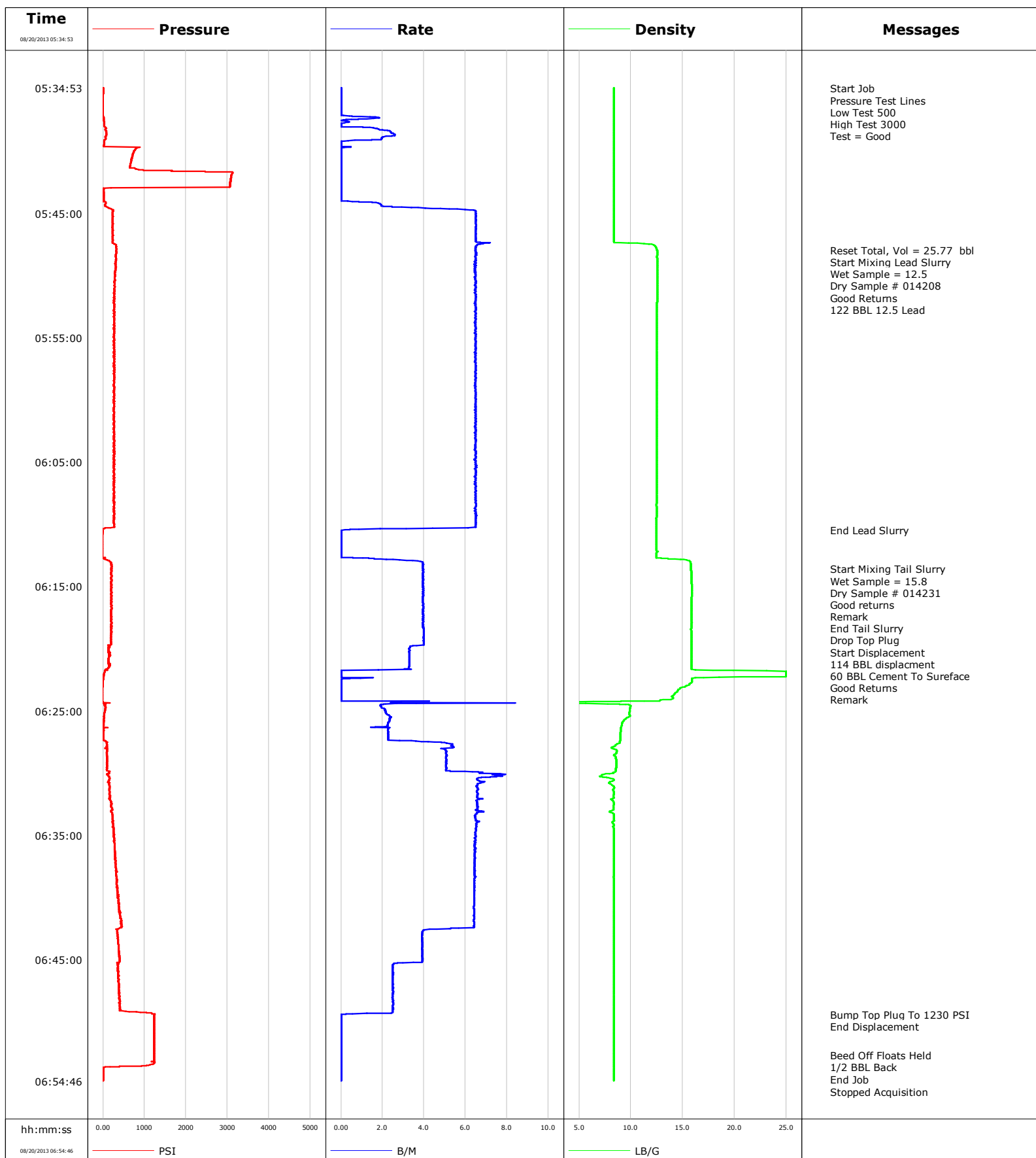


Well Hagen Federal 22-1A
Field Parachute
Engineer Cole Fairbrook/Travis Willardson
Country United States

Client Encana
SIR No. C567-00015
Job Type 9 5/8 Surface
Job Date 08-20-2013





Cementing Service Report

				Customer Encana		Job Number C567-00015		
Well Hagen Federal 22-1A 22-1A			Location (legal) P22		Schlumberger Location Grand Junction		Job Start Aug/20/2013	
Field Parachute		Formation Name/Type Dirty-Sandstone		Deviation	Bit Size 12.3 in	Well MD 1523.0 ft		Well TVD 1523.0 ft
County Garfield		State/Province Colorado		BHP	BHST 94 degF	BHCT 85 degF	Pore Press. Gradient	
Well Master		API/UWI						
Rig Name Patterson 303	Drilled For Gas	Service Via Land	Casing/Liner					
			Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Offshore Zone	Well Class New	Well Type	40.0	16.000	65.0	N/A	N/A	
			1523.0	9.630	36.0	J55	N/A	
Drilling Fluid Type Bentonite		Max. Density	Plastic Viscosity	Tubing/Drill Pipe				
				Depth,	Size,	Weight,	Grade	Thread
Service Line Cementing	Job Type 9 5/8 Surface							
Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection Single Cement head	Perforations/Open Hole					
			Top,	Bottom,		No. of Shots	Total Interval	
							Diameter	
			Treat Down Casing	Displacement 114.0 bbl	Packer Type	Packer Depth		
			Tubing Vol.	Casing Vol. 114.0 bbl	Annular Vol. 88.0 bbl	Openhole Vol. 209.0 bbl		
Casing/Tubing Secured <input checked="" type="checkbox"/>	1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>	Casing Tools				Squeeze Job		
Lift Pressure			Shoe Type Guide			Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1523.0 ft		Tool Type		
No. Centralizers		Top Plugs	Bottom Plugs	Stage Tool Type		Tool Depth		
Cement Head Type Single			Stage Tool Depth		Tail Pipe Size			
Job Scheduled For Aug/20/2013		Arrived on Location Aug/20/2013	Leave Location Aug/20/2013	Collar Type Float		Tail Pipe Depth		
				Collar Depth 1477.0 ft		Sqz. Total Vol.		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message		
08/20/2013	05:22:10					Started Acquisition		
08/20/2013	05:34:53	2	0.0	8.37	0.0			
08/20/2013	05:34:56					Start Job		
08/20/2013	05:34:56	2	0.0	8.37	0.0			
08/20/2013	05:35:02					Pressure Test Lines		
08/20/2013	05:35:02	2	0.0	8.37	0.0			
08/20/2013	05:35:04					Low Test 500		
08/20/2013	05:35:04					High Test 3000		
08/20/2013	05:35:04					Test = Good		
08/20/2013	05:35:04	2	0.0	8.37	0.0			
08/20/2013	05:37:10	-1	0.4	8.37	0.0			
08/20/2013	05:42:10	3084	0.0	8.37	2.8			
08/20/2013	05:47:10	241	6.5	8.37	20.5			
08/20/2013	05:47:58					Reset Total, Vol = 25.77 bbl		
08/20/2013	05:47:58	320	6.5	12.52	25.8			
08/20/2013	05:48:12					Start Mixing Lead Slurry		
08/20/2013	05:48:12	335	6.5	12.53	27.3			
08/20/2013	05:48:15					Wet Sample = 12.5		
08/20/2013	05:48:15					Dry Sample # 014208		
08/20/2013	05:48:15					Good Returns		
08/20/2013	05:48:15	313	6.5	12.53	27.6			

Well Hagen Federal 22-1A 22-1A			Field Parachute		Job Start Aug/20/2013	Customer Encana	Job Number C567-00015
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
08/20/2013	05:48:16	321	6.5	12.53	27.7		
08/20/2013	05:52:10	259	6.5	12.52	53.0		
08/20/2013	05:57:10	267	6.5	12.51	85.4		
08/20/2013	06:02:10	269	6.5	12.51	117.8		
08/20/2013	06:07:10	259	6.5	12.51	150.2		
08/20/2013	06:10:27					End Lead Slurry	
08/20/2013	06:10:27	-12	0.2	12.46	170.9		
08/20/2013	06:12:10	-14	0.0	12.49	170.9		
08/20/2013	06:13:35					Start Mixing Tail Slurry	
08/20/2013	06:13:35	203	4.0	15.80	174.0		
08/20/2013	06:13:40					Wet Sample = 15.8	
08/20/2013	06:13:40					Dry Sample # 014231	
08/20/2013	06:13:40					Good returns	
08/20/2013	06:13:40	197	4.0	15.81	174.3		
08/20/2013	06:13:42					Remark	
08/20/2013	06:13:42	203	3.9	15.81	174.4		
08/20/2013	06:17:10	200	3.9	15.83	188.2		
08/20/2013	06:17:13					End Tail Slurry	
08/20/2013	06:17:13	201	4.0	15.83	188.3		
08/20/2013	06:17:24					Drop Top Plug	
08/20/2013	06:17:24	202	4.0	15.83	189.1		
08/20/2013	06:17:27					Start Displacement	
08/20/2013	06:17:27	206	3.9	15.83	189.3		
08/20/2013	06:17:30					114 BBL displacment	
08/20/2013	06:17:30					60 BBL Cement To Sureface	
08/20/2013	06:17:30					Good Returns	
08/20/2013	06:17:30					Remark	
08/20/2013	06:17:30	206	4.0	15.83	189.5		
08/20/2013	06:22:10	16	0.0	25.00	204.9		
08/20/2013	06:27:10	7	2.3	8.97	211.8		
08/20/2013	06:32:10	187	6.5	8.16	240.3		
08/20/2013	06:37:10	310	6.4	8.36	272.8		
08/20/2013	06:42:10	443	6.4	8.37	304.9		
08/20/2013	06:47:10	387	2.5	8.36	322.7		
08/20/2013	06:49:25					Bump Top Plug To 1230 PSI	
08/20/2013	06:49:25	1245	0.0	8.37	328.1		
08/20/2013	06:49:26					End Displacement	
08/20/2013	06:49:26	1241	0.0	8.37	328.1		
08/20/2013	06:52:10	1230	0.0	8.37	328.1		
08/20/2013	06:52:41					Beed Off Floats Held	
08/20/2013	06:52:41	1230	0.0	8.37	328.1		
08/20/2013	06:52:42					1/2 BBL Back	
08/20/2013	06:52:42	1230	0.0	8.37	328.1		
08/20/2013	06:54:41					End Job	
08/20/2013	06:54:41	3	0.0	8.37	328.1		

Well Hagen Federal 22-1A 22-1A	Field Parachute	Job Start Aug/20/2013	Customer Encana	Job Number C567-00015
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Post Job Summary

Average Pump Rates,					Volume of Fluid Injected,			
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2
Treating Pressure Summary,					Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume		Density
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume	
					Washed Thru Perfs	<input type="checkbox"/>	To	
Customer or Authorized Representative			Schlumberger Supervisor			Circulation Lost	<input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>
Erasmio Parras			Cole Fairbrook/Travis Willardson			-	-	



Service Order #:	2
Date:	Aug/20/2013
Operating Time:	0.0
Client Rep:	Encana
Schlumberger Engineer:	Cole Fairbrook/Travis Willardson
Schlumberger FSM:	

To be completed by Company Rep. Please answer Y (Yes) or N (No) and add any comments below.

2	Design / Preparation					
2a	Program incl. job simulation (CemCADE) & pump schedule / tool hydraulic calcs	3	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>		0
2b	Equipment maintenance schedule completed / Green tagged	2	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>		0
2c	All materials and equipment required for job/contingency checked & on location	2	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>		0
2d	Safety / pre-job meeting conducted with all involved present	2	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>		0
					Sub-total	0%

4	Evaluation					
4a	Main job objective achieved with no consequential non-productive time	10	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>		0
					Sub-total	0%

Comments: (Please include a brief explanation for a "NO" response and summarize any innovations attempted on this well.)

Client:	Schlumberger:
Client Signature:	Schlumberger Signature: