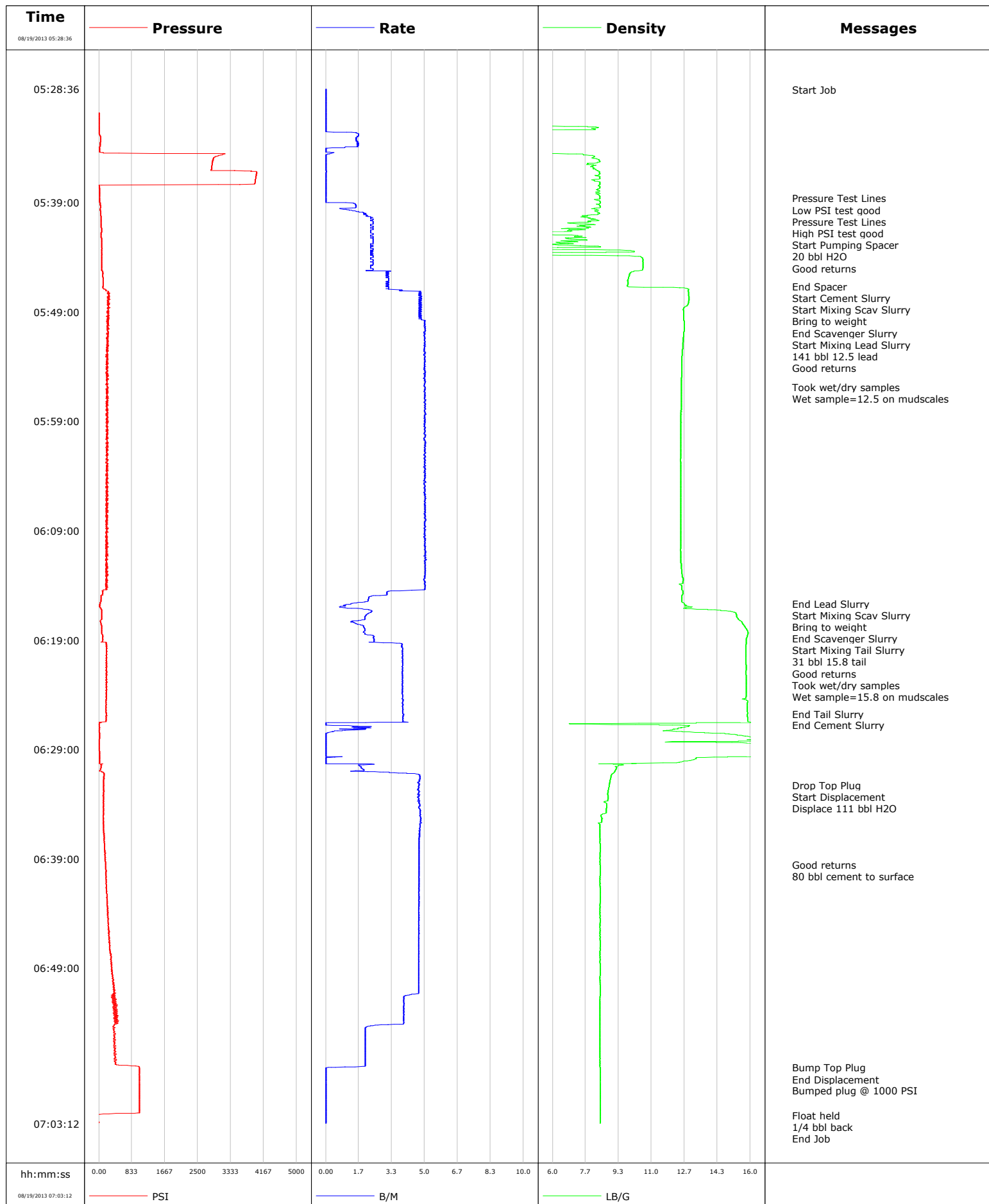


Well	Hagen Federal 15-16C	Client	Encana
Field	Parachute	SIR No.	C567-00014
Engineer	Matt Fair/Mike Reedy	Job Type	9 5/8" Surface
Country	United States	Job Date	08-19-2013



					Customer Encana			Job Number C567-00014									
Well Hagen Federal 15-16C				Location (legal)			Schlumberger Location			Job Start Aug/19/2013							
Field Parachute		Formation Name/Type Shale			Deviation deg		Bit Size 12.5 in		Well MD 1475.0 ft		Well TVD 1475.0 ft						
County Garfield		State/Province Colorado			BHP psi		BHST 94 degF		BHCT 85 degF		Pore Press. Gradient lb/gal						
Well Master 0631462951		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 Development		1475.0		9.6		36.0		K55		8RD			
						0.0		0.0		0.0							
Drilling Fluid Type Bentonite		Max. Density lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe											
						T/D		Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
Service Line Cementing		Job Type 9 5/8" Surface															
Max. Allowed Tub. Press 3520 psi		Max. Allowed Ann. Press 2030 psi		WH Connection Single Cement head		Perforations/Open Hole											
						Top, ft		Bottom, ft		shot/ft		No. of Shots		Total Interval ft			
						ft		ft						Diameter in			
						ft		ft									
						Treat Down Casing		Displacement 111.0 bbl		Packer Type		Packer Depth ft					
						Tubing Vol. bbl		Casing Vol. 113.0 bbl		Annular Vol. 94.0 bbl		Openhole Vol. 211.0 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 730 psi				Shoe Type Float				Squeeze Type									
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1475.0 ft				Tool Type									
No. Centralizers		Top Plugs 1		Bottom Plugs 0		Stage Tool Type				Tool Depth ft							
Cement Head Type Single				Stage Tool Depth ft				Tail Pipe Size in									
Job Scheduled For Aug/19/2013 04:00		Arrived on Location Aug/19/2013 04:00		Leave Location Aug/19/2013 08:00		Collar Type Float				Tail Pipe Depth ft							
						Collar Depth 1431.0 ft				Sqz. Total Vol. bbl							
Date	Time 24-hr clock	CPF1_DENSITY LB/G	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	CPF1_TTL_STAGE BBL	CPF1_TTL_VOLUME BBL	Message										
08/19/2013	05:28:36	0.01	-1	0.0	0.0	0.0	Started Acquisition										
08/19/2013	05:28:40	0.01	-0	0.0	0.0	0.0	Start Job										
08/19/2013	05:31:06	0.01	1	0.0	0.0	0.0											
08/19/2013	05:33:36	1.08	35	1.6	1.7	1.7											
08/19/2013	05:36:06	8.28	3691	0.0	2.3	2.3											
08/19/2013	05:38:35	8.38	14	0.0	2.3	2.3	Pressure Test Lines										
08/19/2013	05:38:36	8.39	14	0.0	2.3	2.3	Low PSI test good										
08/19/2013	05:38:37	8.40	14	0.0	2.3	2.3	Pressure Test Lines										
08/19/2013	05:38:55	8.40	13	0.0	2.3	2.3	Start Pumping Spacer										
08/19/2013	05:41:06	7.38	55	2.3	6.2	6.2											
08/19/2013	05:41:07	7.38	56	2.3	6.2	6.2	Good returns										
08/19/2013	05:43:36	4.17	73	2.3	12.0	12.0											
08/19/2013	05:46:06	9.82	101	3.2	18.5	18.5											
08/19/2013	05:46:39	9.79	100	3.1	20.3	20.3	End Spacer										
08/19/2013	05:46:40	9.79	101	3.2	20.3	20.3	Start Cement Slurry										
08/19/2013	05:46:41	9.79	88	3.2	20.4	20.4	Start Mixing Scav Slurry										
08/19/2013	05:48:36	12.65	210	4.7	8.2	29.0											
08/19/2013	05:49:09	12.64	249	4.8	10.8	31.6	End Scavenger Slurry										
08/19/2013	05:49:10	12.64	225	4.8	10.9	31.7	141 bbl 12.5 lead										
08/19/2013	05:51:06	12.62	223	5.0	20.4	41.2											
08/19/2013	05:52:23	12.57	193	5.0	26.8	47.6	Good returns										

Well			Field		Job Start		Customer		Job Number
Hagen Federal 15-16C			Parachute		Aug/19/2013		Encana		C567-00014
Date	Time 24-hr clock	CPF1_DENSITY LB/G	CPF1_PRESS PSI	CPF1_TTL_RATE B/M	CPF1_TTL_STAGE BBL	CPF1_TTL_VOLUME BBL	Message		
08/19/2013	05:55:50	12.51	227	5.0	44.1	64.9	Took wet/dry samples		
08/19/2013	05:55:58	12.51	228	5.0	44.8	65.6	Wet sample=12.5 on mudscales		
08/19/2013	05:56:06	12.51	228	5.0	45.4	66.2			
08/19/2013	05:58:36	12.49	224	5.0	58.0	78.8			
08/19/2013	06:01:06	12.49	198	5.0	70.5	91.3			
08/19/2013	06:03:36	12.48	185	5.0	83.0	103.8			
08/19/2013	06:06:06	12.49	234	5.0	95.6	116.3			
08/19/2013	06:08:36	12.48	179	5.0	108.1	128.9			
08/19/2013	06:11:06	12.48	173	5.0	120.7	141.4			
08/19/2013	06:13:36	12.59	175	5.0	133.2	154.0			
08/19/2013	06:15:40	12.66	32	1.3	140.5	161.3	End Lead Slurry		
08/19/2013	06:15:43	12.65	29	1.3	140.6	161.4	Start Mixing Scav Slurry		
08/19/2013	06:15:44	12.65	26	1.2	140.6	161.4	Bring to weight		
08/19/2013	06:16:06	12.62	53	1.3	141.0	161.7			
08/19/2013	06:17:54	15.77	69	2.0	0.3	165.2	End Scavenger Slurry		
08/19/2013	06:17:55	15.78	70	2.0	0.3	165.2	Start Mixing Tail Slurry		
08/19/2013	06:17:56	15.79	68	2.0	0.4	165.2	31 bbl 15.8 tail		
08/19/2013	06:18:36	15.85	93	2.4	1.7	166.6			
08/19/2013	06:19:04	15.79	97	2.4	2.8	167.7	Good returns		
08/19/2013	06:19:12	15.79	176	2.2	3.1	168.0	Took wet/dry samples		
08/19/2013	06:19:19	15.78	188	3.8	3.5	168.4	Wet sample=15.8 on mudscales		
08/19/2013	06:21:06	15.77	183	3.9	10.4	175.3			
08/19/2013	06:23:36	15.78	187	3.9	20.1	185.0			
08/19/2013	06:25:47	15.85	194	3.9	28.6	193.5	End Tail Slurry		
08/19/2013	06:26:06	15.85	185	3.9	29.9	194.7			
08/19/2013	06:26:48	12.47	10	0.0	31.6	196.5	End Cement Slurry		
08/19/2013	06:28:36	16.29	10	0.0	32.4	197.3			
08/19/2013	06:31:06	9.13	100	3.2	1.0	198.8			
08/19/2013	06:32:14	8.87	121	4.7	6.2	204.0	Drop Top Plug		
08/19/2013	06:32:16	8.87	123	4.7	6.4	204.2	Displace 111 bbl H2O		
08/19/2013	06:33:36	8.79	121	4.7	12.7	210.4			
08/19/2013	06:36:06	8.39	119	4.8	24.6	222.3			
08/19/2013	06:38:36	8.40	148	4.7	36.4	234.2			
08/19/2013	06:39:33	8.40	162	4.7	40.9	238.6	Good returns		
08/19/2013	06:39:43	8.40	168	4.7	41.7	239.4	80 bbl cement to surface		
08/19/2013	06:41:06	8.40	176	4.7	48.2	245.9			
08/19/2013	06:43:36	8.40	217	4.7	60.0	257.7			
08/19/2013	06:46:06	8.40	257	4.7	71.7	269.5			
08/19/2013	06:48:36	8.40	324	4.7	83.5	281.2			
08/19/2013	06:51:06	8.40	377	4.7	95.2	293.0			
08/19/2013	06:53:36	8.40	370	3.9	105.3	303.1			
08/19/2013	06:56:06	8.40	416	2.0	111.5	309.3			
08/19/2013	06:58:06	8.40	1036	0.1	115.4	313.2	Bump Top Plug		
08/19/2013	06:58:07	8.40	1019	0.0	115.4	313.2	End Displacement		
08/19/2013	06:58:11	8.40	1025	0.0	115.4	313.2	Bumped plug @ 1000 PSI		
08/19/2013	06:58:36	8.40	1018	0.0	115.4	313.2			
08/19/2013	07:01:06	8.40	1018	0.0	115.4	313.2			
08/19/2013	07:02:27	8.40	-2	0.0	115.4	313.2	Float held		
08/19/2013	07:02:55	8.40	-1	0.0	115.4	313.2	1/4 bbl back		

Well Hagen Federal 15-16C	Field Parachute	Job Start Aug/19/2013	Customer Encana	Job Number C567-00014
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 4.0	N2	Mud	Maximum Rate 5.1		Total Slurry 313.2	Mud 0.0	Spacer 20.2	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3997	Final 0	Average 317	Bump Plug to 1000	Breakdown	Type	Volume bbl		Density lb/gal
Avg. N2 Percent %	Designed Slurry Volume 172.0 bbl		Displacement 109.2 bbl	Mix Water Temp 69 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>		Volume 80.0 bbl	
					Washed Thru Perfs <input type="checkbox"/>		To ft	
Customer or Authorized Representative Erasmo Parras			Schlumberger Supervisor Matt Fair/Mike Reedy			Circulation Lost <input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>
						-		-



Service Quality Evaluation

Client:	Encana
Field:	Parachute
Rig:	Patterson 303
Well:	Hagen Federal 15-16C
Service Line:	Cementing
Job Type:	9 5/8" Surface

Service Order #:	
Date:	Aug/19/2013
Operating Time (hh:mm):	00:00
Client Rep:	Erasmus Parras
Schlumberger Engineer:	Matt Fair/Mike Reedy
Schlumberger FSM:	

Main Objective:

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

		Score	Yes / No		Result
1	HSE				
1a	Free of lost time injury and compliance with SLB and loc. spec. HSE practice	5	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	5
1b	Free of environmental spill or non-compliant discharge	5	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	5
1c	Wellsite left clean	4	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	4
Sub-total					100%

2	Design / Preparation				
2a	Program incl. job simulation (CemCADE) & pump schedule / tool hydraulic calcs	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
2b	Equipment maintenance schedule completed / Green tagged	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
2c	All materials and equipment required for job/contingency checked & on location	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
2d	Safety / pre-job meeting conducted with all involved present	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
Sub-total					100%

3	Execution				
3a	Lost time < 30 mins	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
3b	Equipment pressure tested successfully	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
3c	All key parameters monitored and recorded accurately (Pressure, Rate, Density)	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3d	Plugs / darts released and tested successfully	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3e	Density variation met expectations	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3f	Personnel performed as per expectations	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3g	Equipment performed as per expectations	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3h	Job pumped as per design	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
3i	Did job start on time	2	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	2
3j	Free of Operational failures (screen out, Cementing Example, etc.)	3	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	3
Sub-total					100%

4	Evaluation				
4a	Main job objective achieved with no consequential non-productive time	10	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	10
Sub-total					100%

Total 100%

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

Client:	Schlumberger:
	Water - 010200, 010364 lead - 010121 tail - 009537
Client Signature:	Schlumberger Signature: