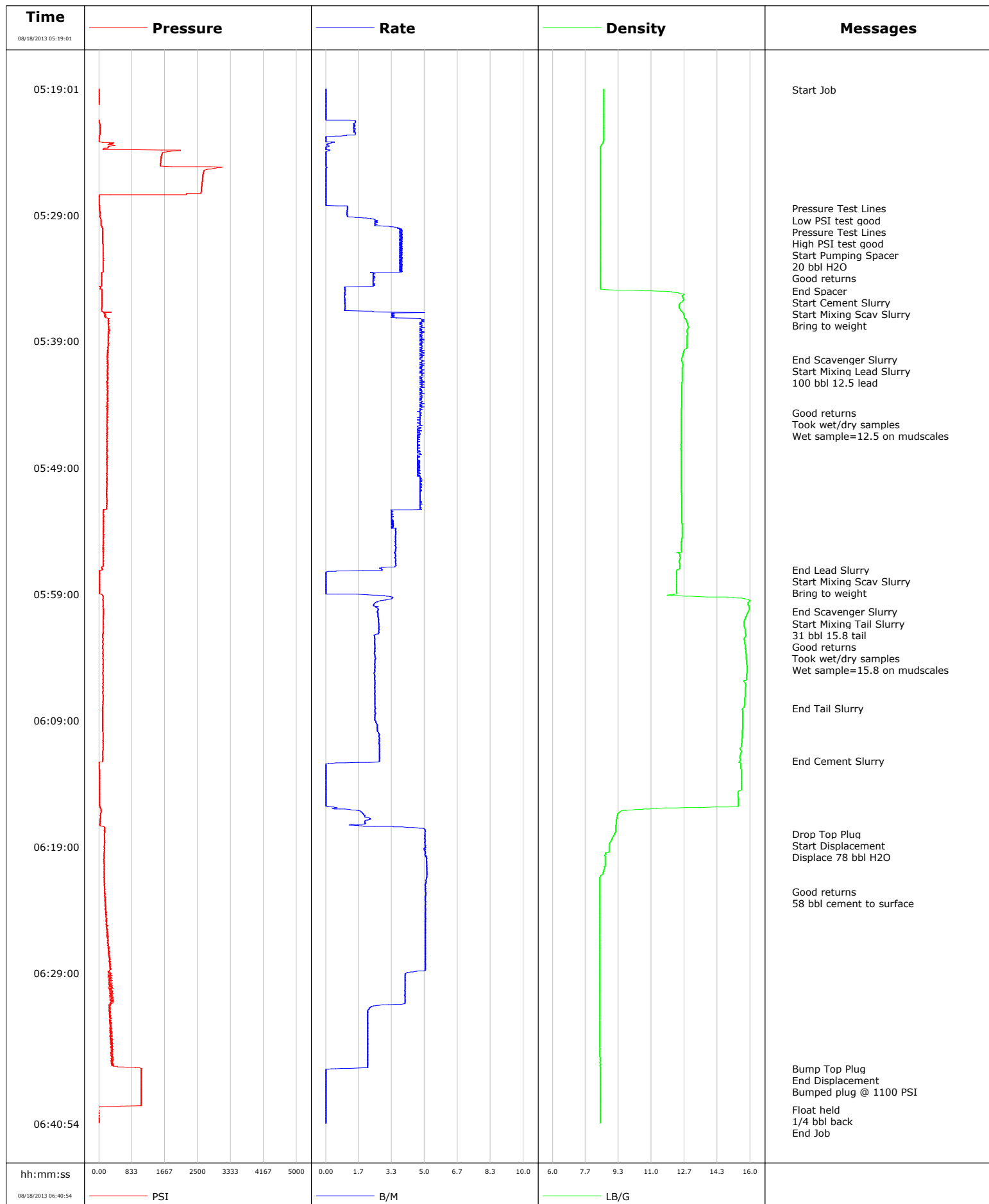


<b>Well</b>	Hagen Federal 22-5AA	<b>Client</b>	Encana
<b>Field</b>	Parachute	<b>SIR No.</b>	C567-00013
<b>Engineer</b>	Matt Fair/Mike Reedy	<b>Job Type</b>	9 5/8" Surface
<b>Country</b>	United States	<b>Job Date</b>	08-18-2013



					Customer Encana		Job Number C567-00013		
Well Hagen Federal 22-5AA			Location (legal)		Schlumberger Location			Job Start Aug/18/2013	
Field Parachute		Formation Name/Type Shale		Deviation deg		Bit Size 12.3 in		Well MD 1051.0 ft	
County Garfield		State/Province Colorado		BHP psi		BHST 94 degF		BHCT 85 degF	
Well Master 0631462960		API/UWI						Pore Press. Gradient lb/gal	
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		1051.0		9.6	
						36.0		K55	
						0.0		8RD	
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	
						ft		ft	
						Diameter in			
						Treat Down Casing		Displacement 78.0 bbl	
						Packer Type		Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. 82.0 bbl	
						Annular Vol. 68.0 bbl		Openhole Vol. 152.0 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 520 psi				Shoe Type Float		Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 1051.0 ft		Tool Type			
No. Centralizers		Top Plugs 1		Bottom Plugs 0		Stage Tool Type		Tool Depth ft	
Cement Head Type Triple				Stage Tool Depth ft		Tail Pipe Size in			
Job Scheduled For Aug/18/2013 03:00		Arrived on Location Aug/18/2013 03:00		Leave Location Aug/18/2013 08:00		Collar Type Float		Tail Pipe Depth ft	
						Collar Depth 1006.0 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		
08/18/2013	05:19:01	8.60	0	0.0	0.4	0.4	Started Acquisition		
08/18/2013	05:19:04	8.60	1	0.0	0.4	0.4	Start Job		
08/18/2013	05:21:31	8.59	1	1.5	0.4	0.4			
08/18/2013	05:24:01	8.41	1688	0.0	2.2	2.2			
08/18/2013	05:26:31	8.41	2606	0.0	2.3	2.3			
08/18/2013	05:28:28	8.41	19	1.1	2.5	2.5	Pressure Test Lines		
08/18/2013	05:28:29	8.41	20	1.1	2.5	2.5	Low PSI test good		
08/18/2013	05:28:30	8.41	20	1.1	2.5	2.5	Pressure Test Lines		
08/18/2013	05:28:31	8.41	20	1.1	2.5	2.5	High PSI test good		
08/18/2013	05:28:50	8.41	27	1.1	2.9	2.9	Start Pumping Spacer		
08/18/2013	05:28:51	8.41	27	1.1	2.9	2.9	20 bbl H2O		
08/18/2013	05:29:01	8.41	25	1.1	3.1	3.1			
08/18/2013	05:31:21	8.41	104	3.9	10.5	10.5	Good returns		
08/18/2013	05:31:31	8.41	105	3.9	11.1	11.1			
08/18/2013	05:34:01	8.41	66	2.5	19.9	19.9			
08/18/2013	05:35:00	11.02	84	1.0	0.0	21.8	End Spacer		
08/18/2013	05:35:03	11.69	85	1.0	0.0	21.9	Start Cement Slurry		
08/18/2013	05:35:04	11.89	84	1.0	0.1	21.9	Start Mixing Scav Slurry		
08/18/2013	05:36:31	12.48	63	1.0	1.5	23.3			
08/18/2013	05:39:01	12.80	228	4.9	12.4	34.2			
08/18/2013	05:40:25	12.52	213	4.8	19.2	41.0	End Scavenger Slurry		

Well Hagen Federal 22-5AA			Field Parachute		Job Start Aug/18/2013		Customer Encana	Job Number C567-00013
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	
08/18/2013	05:40:28	12.53	231	4.9	19.3	41.2	100 bbl 12.5 lead	
08/18/2013	05:41:31	12.55	212	4.8	24.5	46.3		
08/18/2013	05:44:01	12.53	215	4.8	36.6	58.4		
08/18/2013	05:44:37	12.52	216	4.8	39.5	61.3	Good returns	
08/18/2013	05:44:52	12.52	208	4.8	40.7	62.5	Took wet/dry samples	
08/18/2013	05:44:59	12.51	196	4.8	41.2	63.1	Wet sample=12.5 on mudscales	
08/18/2013	05:46:31	12.51	206	4.6	48.5	70.3		
08/18/2013	05:49:01	12.50	215	4.8	60.2	82.0		
08/18/2013	05:51:31	12.53	197	4.8	72.1	93.9		
08/18/2013	05:54:01	12.56	110	3.5	81.6	103.5		
08/18/2013	05:56:31	12.42	103	3.5	90.5	112.3		
08/18/2013	05:57:04	12.33	86	2.9	92.3	114.1	End Lead Slurry	
08/18/2013	05:57:11	12.27	15	0.5	92.5	114.4	Start Mixing Scav Slurry	
08/18/2013	05:57:15	12.26	13	0.0	92.6	114.4	Bring to weight	
08/18/2013	05:59:01	12.27	73	0.6	0.0	114.4		
08/18/2013	06:00:23	15.91	112	2.6	3.7	118.1	End Scavenger Slurry	
08/18/2013	06:00:24	15.90	110	2.6	3.8	118.2	Start Mixing Tail Slurry	
08/18/2013	06:00:25	15.90	112	2.6	3.8	118.2	31 bbl 15.8 tail	
08/18/2013	06:01:31	15.70	109	2.7	6.7	121.1	Good returns	
08/18/2013	06:02:07	15.75	110	2.7	8.3	122.7	Took wet/dry samples	
08/18/2013	06:02:15	15.77	98	2.4	8.7	123.1	Wet sample=15.8 on mudscales	
08/18/2013	06:04:01	15.80	102	2.5	13.1	127.5		
08/18/2013	06:06:31	15.75	100	2.5	19.3	133.7		
08/18/2013	06:08:01	15.65	100	2.5	23.0	137.4	End Tail Slurry	
08/18/2013	06:09:01	15.62	92	2.5	25.5	139.9		
08/18/2013	06:11:31	15.54	99	2.7	32.1	146.5		
08/18/2013	06:12:14	15.47	98	2.7	34.1	148.5	End Cement Slurry	
08/18/2013	06:14:01	15.54	21	0.0	0.0	148.8		
08/18/2013	06:16:31	9.27	41	2.0	0.9	149.7		
08/18/2013	06:17:59	9.12	141	5.0	5.5	154.3	Drop Top Plug	
08/18/2013	06:18:00	9.11	141	5.0	5.5	154.4	Start Displacement	
08/18/2013	06:18:01	9.11	141	5.0	5.6	154.4	Displace 78 bbl H2O	
08/18/2013	06:19:01	8.85	130	5.1	10.6	159.5		
08/18/2013	06:21:31	8.40	130	5.1	23.4	172.2		
08/18/2013	06:22:32	8.40	141	5.1	28.5	177.3	Good returns	
08/18/2013	06:22:55	8.40	143	5.1	30.4	179.3	58 bbl cement to surface	
08/18/2013	06:24:01	8.40	183	5.1	36.0	184.8		
08/18/2013	06:26:31	8.40	226	5.0	48.6	197.4		
08/18/2013	06:29:01	8.40	249	4.1	61.1	209.9		
08/18/2013	06:31:31	8.40	256	3.2	71.1	219.9		
08/18/2013	06:34:01	8.40	338	2.1	76.5	225.3		
08/18/2013	06:36:31	8.40	1031	1.9	81.7	230.6		
08/18/2013	06:36:32	8.40	1077	1.3	81.8	230.6	Bump Top Plug	
08/18/2013	06:36:34	8.40	1095	0.5	81.8	230.6	End Displacement	
08/18/2013	06:36:35	8.40	1078	0.5	81.8	230.6	Bumped plug @ 1100 PSI	
08/18/2013	06:39:01	8.40	1069	0.0	81.8	230.6		
08/18/2013	06:39:49	8.40	-1	0.0	81.8	230.6	Float held	
08/18/2013	06:39:56	8.40	0	0.0	81.8	230.6	1/4 bbl back	

<b>Well</b> Hagen Federal 22-5AA	<b>Field</b> Parachute	<b>Job Start</b> Aug/18/2013	<b>Customer</b> Encana	<b>Job Number</b> C567-00013
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 3.5	N2	Mud	Maximum Rate 5.1		Total Slurry 131.0	Mud 0.0	Spacer 21.5	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3127	Final 0	Average 273	Bump Plug to 1100	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 131.0 bbl	Displacement 76.3 bbl	Mix Water Temp 68 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 58.0 bbl		
					Washed Thru Perfs <input type="checkbox"/>	To ft		
Customer or Authorized Representative Erasmus 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 22-5AA
Service Line:	Cementing
Job Type:	9 5/8" Surface

Service Order #:	
Date:	Aug/18/2013
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 succesfully	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 succesfully	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 - 010118, 010184 lead - 009536 tail - 010197
Client Signature:	Schlumberger Signature: