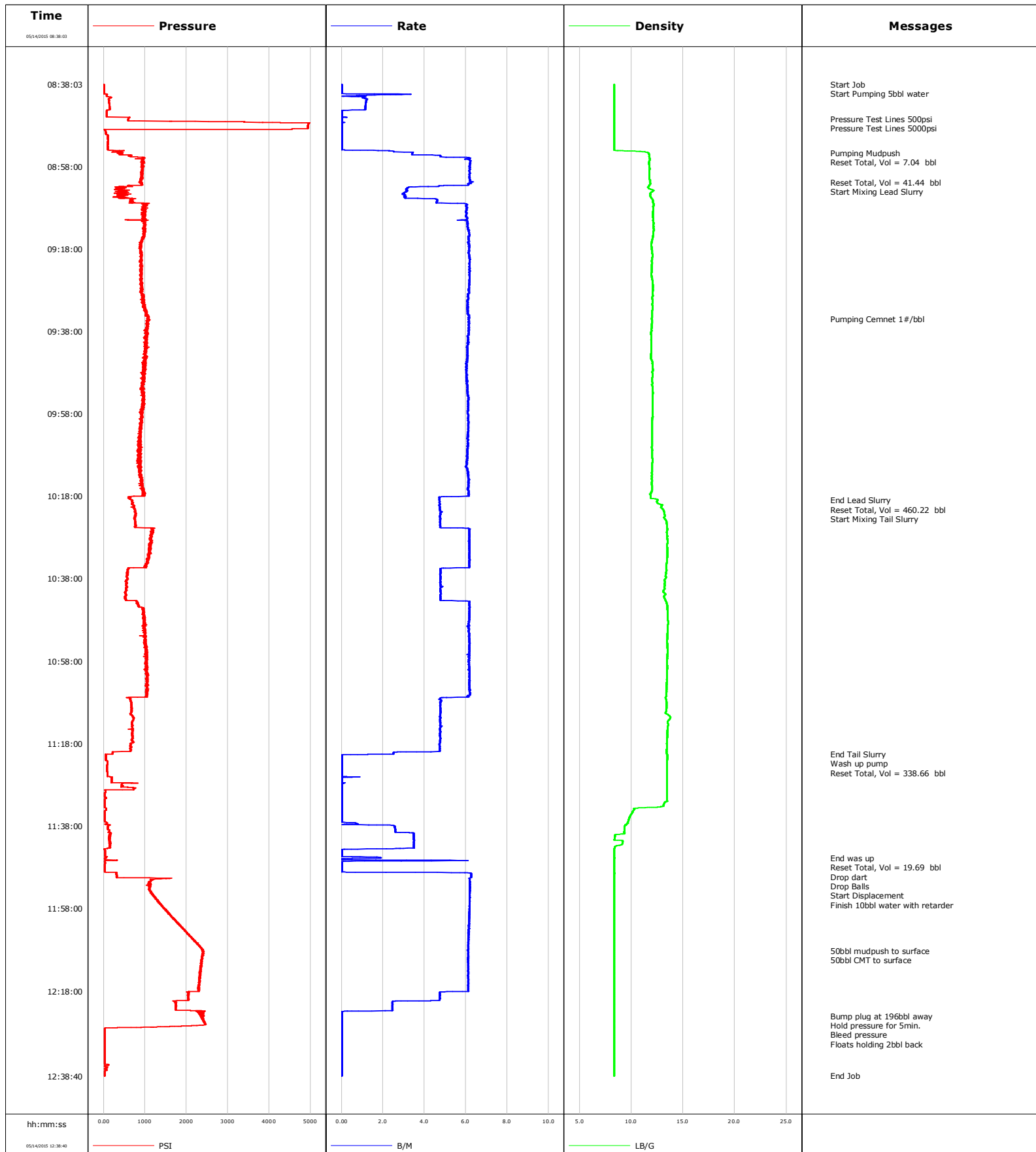


Well	Sprague	Client	Encana
Field	Wattenberg	SIR No.	D5VO-00480
Engineer	Chris Valerio/Scott Heizer	Job Type	Production
Country	United States	Job Date	05-14-2015





Cementing Service Report

				Customer Encana			Job Number D5VO-00480			
Well Sprague 3J-9H			Location (legal)		Schlumberger Location			Job Start May/14/2015		
Field Wattenberg		Formation Name/Type Shale		Deviation 90 deg	Bit Size 8.5 in	Well MD 13187.0 ft		Well TVD 7511.0 ft		
County Weld		State/Province Colorado		BHP psi	BHST 230 degF	BHCT 225 degF	Pore Press. Gradient lb/gal			
Well Master 0631548287		API/UWI 05123392750000								
Rig Name Patterson #272	Drilled For Oil	Service Via Land	Casing/Liner							
			Depth, ft	Size, in	Weight, lb/ft	Grade	Thread			
Offshore Zone	Well Class New	Well Type Development	863.0	9.6	36.0	J55	8RD			
			13187.0	4.5	13.5	P110	8RD			
Drilling Fluid Type Other		Max. Density 11.50 lb/gal	Plastic Viscosity cP	Tubing/Drill Pipe						
				T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
Service Line Cementing	Job Type Production									
Max. Allowed Tub. Press 4500 psi	Max. Allowed Ann. Press psi	WH Connection Blackhawk CMT head	Perforations/Open Hole							
			Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval			
Service Instructions 5bbl Water 50bbl Mudpush @ 11.7# 463bbl 1443sk Lead CMT @ 12# 1.8 Yield 10 gal/sk water 327bbl 1093sk Tail CMT @ 13.5# 1.68 Yield 8.1 gal/sk water			ft	ft			ft			
			ft	ft			Diameter			
			ft	ft			in			
			Treat Down Casing		Displacement 196.3 bbl		Packer Type		Packer Depth	
			ft		ft		ft		ft	
			Tubing Vol. bbl		Casing Vol. 196.4 bbl		Annular Vol. 689.0 bbl		Openhole Vol. 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 psi			Shoe Type Float			Squeeze Type				
Pipe Rotated <input checked="" type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth 13187.0 ft			Tool Type			
No. Centralizers		Top Plugs 1	Bottom Plugs	Stage Tool Type			Tool Depth ft			
Cement Head Type Single			Stage Tool Depth ft			Tail Pipe Size in				
Job Scheduled For May/14/2015 06:00		Arrived on Location May/14/2015 06:00		Leave Location May/14/2015 14:00	Collar Type Float			Tail Pipe Depth ft		
					Collar Depth 13182.0 ft			Sqz. Total Vol. bbl		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
05/14/2015	08:38:03	8	0.0	8.33	0.0	Started Acquisition				
05/14/2015	08:38:06	8	0.0	8.33	0.0	Start Job				
05/14/2015	08:40:20	8	0.2	8.33	0.0	Start Pumping 5bbl water				
05/14/2015	08:43:03	134	1.2	8.33	3.3					
05/14/2015	08:46:24	597	0.0	8.33	4.8	Pressure Test Lines 500psi				
05/14/2015	08:47:28	4971	0.0	8.33	4.8	Pressure Test Lines 5000psi				
05/14/2015	08:48:03	4941	0.0	8.33	4.8					
05/14/2015	08:53:03	96	0.0	8.33	4.8					
05/14/2015	08:54:41	344	3.4	11.65	6.5	Pumping Mudpush				
05/14/2015	08:54:50	385	3.4	11.69	7.0	Reset Total, Vol = 7.04 bbl				
05/14/2015	08:58:03	966	6.2	11.75	25.2					
05/14/2015	09:01:48	856	6.3	11.82	48.5	Reset Total, Vol = 41.44 bbl				
05/14/2015	09:01:53	877	6.2	11.83	49.0	Start Mixing Lead Slurry				
05/14/2015	09:03:03	427	3.2	11.61	55.2					
05/14/2015	09:08:03	1076	6.1	12.12	75.9					
05/14/2015	09:13:03	944	6.1	12.16	106.1					
05/14/2015	09:18:03	888	6.2	11.98	136.9					
05/14/2015	09:23:03	895	6.2	11.97	167.8					
05/14/2015	09:28:03	934	6.2	12.10	198.7					
05/14/2015	09:33:03	1044	6.1	12.02	229.2					
05/14/2015	09:35:07	1092	6.1	11.99	241.9	Pumping Cemnet 1#/bbl				

Well			Field	Job Start		Customer	Job Number
Sprague 3J-9H			Wattenberg	May/14/2015		Encana	D5VO-00480
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
05/14/2015	09:43:03	1027	6.1	11.92	290.5		
05/14/2015	09:48:03	952	6.0	12.03	320.8		
05/14/2015	09:53:03	949	6.1	12.08	351.1		
05/14/2015	09:58:03	932	6.1	12.06	381.7		
05/14/2015	10:03:03	903	6.1	12.01	412.3		
05/14/2015	10:08:03	863	6.1	12.02	442.8		
05/14/2015	10:13:03	861	6.1	11.99	473.2		
05/14/2015	10:18:03	624	5.1	11.86	503.9		
05/14/2015	10:18:53	678	4.7	12.55	507.8	End Lead Slurry	
05/14/2015	10:19:04	697	4.7	12.52	508.7	Reset Total, Vol = 460.22 bbl	
05/14/2015	10:19:37	705	4.7	12.54	511.3	Start Mixing Tail Slurry	
05/14/2015	10:23:03	758	4.8	13.17	527.7		
05/14/2015	10:28:03	1150	6.2	13.46	554.9		
05/14/2015	10:33:03	1049	6.2	13.45	585.7		
05/14/2015	10:38:03	574	4.8	13.28	612.9		
05/14/2015	10:43:03	526	4.8	13.27	636.8		
05/14/2015	10:48:03	994	6.2	13.54	667.3		
05/14/2015	10:53:03	1011	6.2	13.46	698.1		
05/14/2015	10:58:03	1049	6.2	13.46	728.9		
05/14/2015	11:03:03	1049	6.2	13.43	759.8		
05/14/2015	11:08:03	675	4.8	13.41	788.9		
05/14/2015	11:13:03	685	4.8	13.53	812.7		
05/14/2015	11:18:03	665	4.7	13.43	836.6		
05/14/2015	11:20:34	101	2.3	13.43	847.2	End Tail Slurry	
05/14/2015	11:21:16	51	0.0	13.47	847.4	Wash up pump	
05/14/2015	11:21:21	52	0.0	13.47	847.4	Reset Total, Vol = 338.66 bbl	
05/14/2015	11:23:03	87	0.0	13.47	847.4		
05/14/2015	11:28:03	431	0.0	13.46	847.5		
05/14/2015	11:33:03	27	0.0	13.10	847.5		
05/14/2015	11:38:03	102	2.6	9.35	848.7		
05/14/2015	11:43:03	146	3.5	8.41	864.8		
05/14/2015	11:45:49	27	0.9	8.37	867.0	End was up	
05/14/2015	11:45:51	26	0.5	8.37	867.1	Reset Total, Vol = 19.69 bbl	
05/14/2015	11:45:59	29	0.0	8.36	867.1	Drop dart	
05/14/2015	11:46:05	31	0.0	8.36	867.1	Drop Balls	
05/14/2015	11:46:14	274	1.7	8.36	867.1	Start Displacement	
05/14/2015	11:48:03	24	0.0	8.36	868.2		
05/14/2015	11:49:56	306	6.3	8.36	872.6	Finish 10bbl water with retarder	
05/14/2015	11:53:03	1123	6.2	8.34	892.0		
05/14/2015	11:58:03	1483	6.2	8.34	923.0		
05/14/2015	12:03:03	1949	6.1	8.34	953.8		
05/14/2015	12:08:03	2401	6.1	8.34	984.5		
05/14/2015	12:08:14	2406	6.1	8.34	985.6	50bbl mudpush to surface	
05/14/2015	12:08:24	2410	6.1	8.34	986.6	50bbl CMT to surface	
05/14/2015	12:13:03	2331	6.1	8.34	1015.1		
05/14/2015	12:18:03	2289	6.1	8.34	1045.7		
05/14/2015	12:23:03	2428	0.0	8.34	1063.0		
05/14/2015	12:24:09	2403	0.0	8.34	1063.0	Bump plug at 196bbl away	
05/14/2015	12:24:21	2418	0.0	8.34	1063.0	Hold pressure for 5min.	
05/14/2015	12:25:44	2452	0.0	8.34	1063.0	Bleed pressure	
05/14/2015	12:27:25	23	0.0	8.34	1063.0	Floats holding 2bbl back	
05/14/2015	12:28:03	24	0.0	8.34	1063.0		
05/14/2015	12:33:03	24	0.0	8.34	1063.0		
05/14/2015	12:38:03	22	0.0	8.34	1063.0		

Well Sprague 3J-9H	Field Wattenberg	Job Start May/14/2015	Customer Encana	Job Number D5VO-00480
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 5.4	N2	Mud	Maximum Rate 6.4	Total Slurry 792.0	Mud 0.0	Spacer 50.0	N2			
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 2452	Final 2452	Average 895	Bump Plug to 2403	Breakdown	Type	Volume bbl	Density lb/gal			
Avg. N2 Percent %	Designed Slurry Volume 792.0 bbl		Displacement 196.0 bbl	Mix Water Temp 59 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 50.0 bbl				
					Washed Thru Perfs <input type="checkbox"/>	To ft				
Customer or Authorized Representative Norm McCreary			Schlumberger Supervisor Chris Valerio/Scott Heizer			Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>			
						-	-			