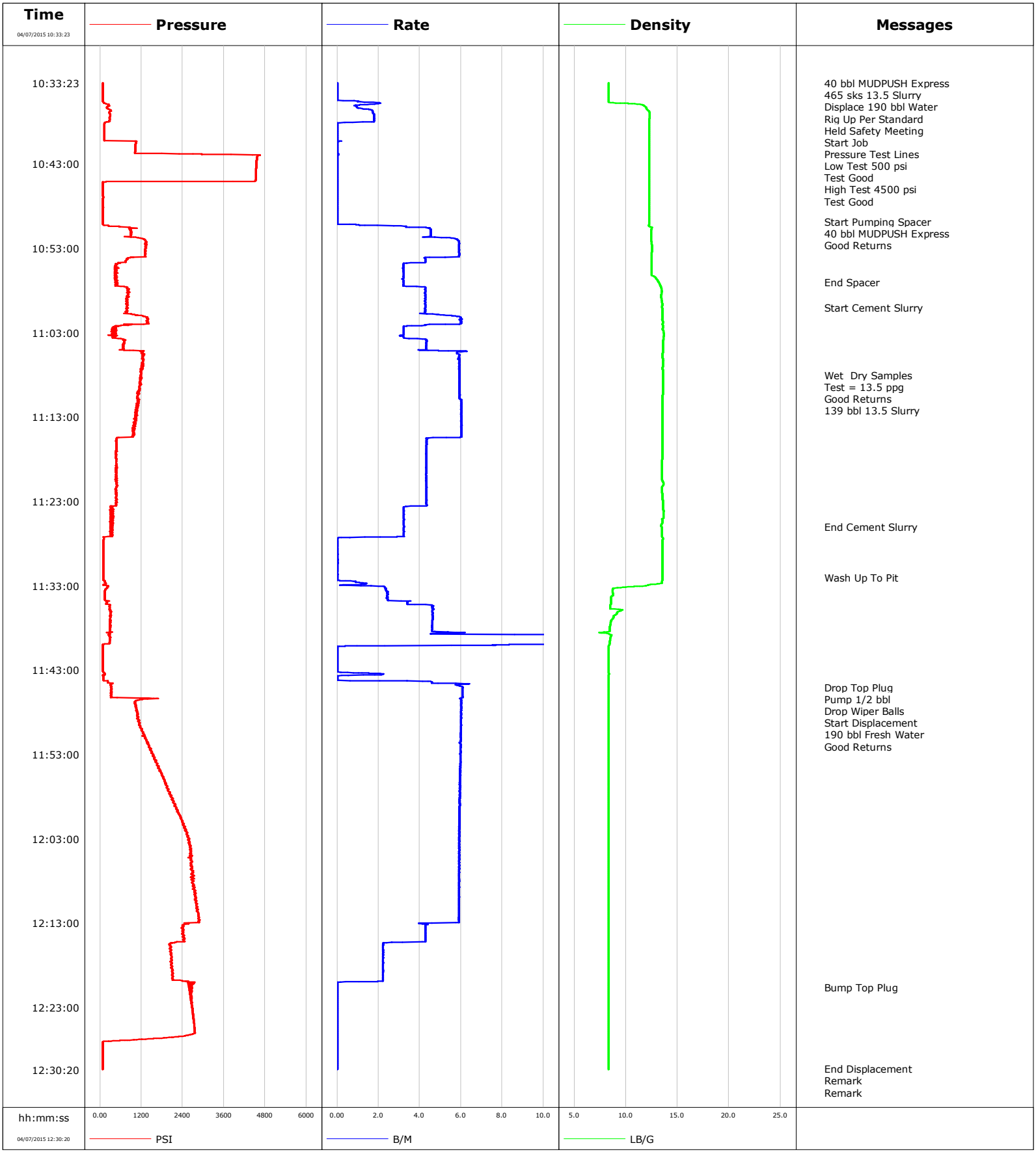
Schlumberger

Cementing Job Report

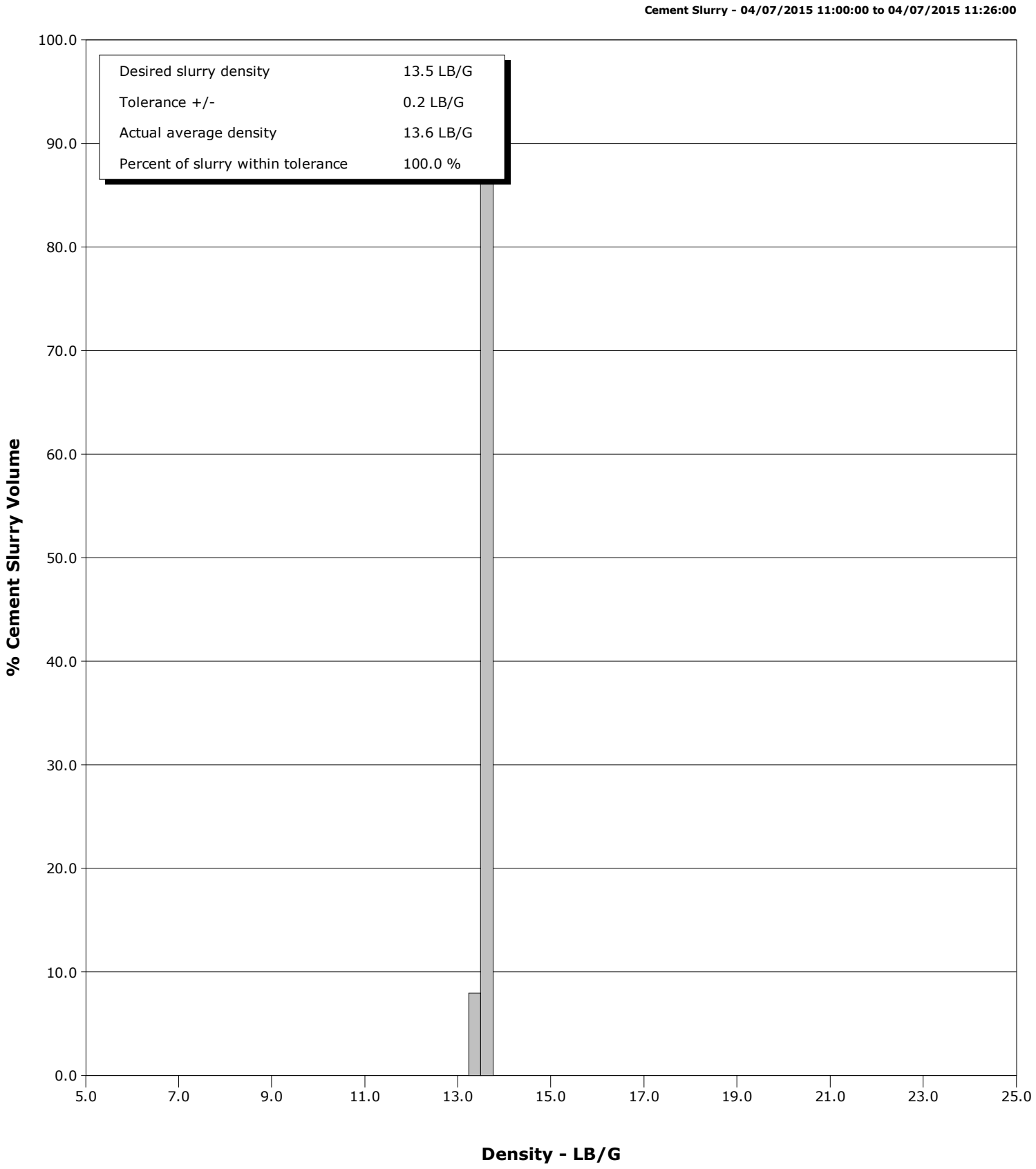
Well	Sprague 3G-9H	**Client**	Encana
Field	DJ	**SIR No.**	DAXH-00049
Engineer	Jordan Moreland/ Stacy Terry	**Job Type**	4 1/2 Production
Country	United States	**Job Date**	04-07-2015



Schlumberger

Cementing Qa/Qc Density Report

Well	Sprague 3G-9H	**Client**	Encana
Field	DJ	**SIR No.**	DAXH-00049
Engineer	Jordan Moreland/ Stacy Terry	**Job Type**	4 1/2 Production
Country	United States	**Job Date**	04-07-2015



Schlumberger Cementing Service Report

Customer	Job Number
Encana	DAXH-00049

Well	Location (legal)	Schlumberger Location	Job Start
Sprague 3G-9H		CWY	Apr/07/2015

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
DJ		deg	6.1 in	ft	ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Weld	Colorado	psi	215 degF	215 degF	lb/gal

Well Master	API/UWI
0631548282	05123392700000

Rig Name	Drilled For	Service Via
Patterson 272	Oil	Land

Offshore Zone	Well Class	Well Type
	New	Development

Drilling Fluid Type	Max. Density	Plastic Viscosity
	11.70 lb/gal	cP

Service Line	Job Type
Cementing	4 1/2 Production

Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection
psi	psi	Single Cement head

Service Instructions

Rate And Density Checked
40 bbl MUDPUSH Express
465 sks 13.5 slurry - 1.68 yield
Diplace 190 bbl Water

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
12740.0	4.5	13.5	P110	8RD
0.0	0.0	0.0		

Tubing/Drill Pipe

T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread

Perforations/Open Hole

Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval
ft	ft			ft
ft	ft			Diameter
ft	ft			in

Treat Down	Displacement	Packer Type	Packer Depth
Casing	190.0 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	190.0 bbl	119.0 bbl	732.0 bbl

[X] Casing/Tubing Secured	[X] 1 Hole Vol. Circulated prior to Cement	Casing Tools	Squeeze Job
Lift Pressure: 10814 psi		Shoe Type: Float	Squeeze Type:
Pipe Rotated: [X]	Pipe Reciprocated: [ ]	Shoe Depth: 12740.0 ft	Tool Type:
	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: Apr/07/2015	Arrived on Location: Apr/07/2015	Collar Type: Float	Tail Pipe Depth: ft
Leave Location: Apr/07/2015		Collar Depth: 12734.0 ft	Sqz. Total Vol.: bbl

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
04/07/2015	10:33:23	72	0.0	8.34	0.0	Started Acquisition
04/07/2015	10:33:25	73	0.0	8.34	0.0	40 bbl MUDPUSH Express
04/07/2015	10:33:27	73	0.0	8.34	0.0	Start Job
04/07/2015	10:33:31	72	0.0	8.34	0.0	Pressure Test Lines
04/07/2015	10:33:32	72	0.0	8.34	0.0	Low Test 500 psi
04/07/2015	10:33:33	73	0.0	8.34	0.0	Test Good
04/07/2015	10:35:23	78	0.0	8.34	0.0	
04/07/2015	10:37:23	280	1.8	12.29	2.8	
04/07/2015	10:39:23	120	0.0	12.26	4.0	
04/07/2015	10:41:23	1021	0.0	12.26	4.0	
04/07/2015	10:43:23	4537	0.0	12.25	4.1	
04/07/2015	10:45:23	86	0.0	12.24	4.1	
04/07/2015	10:47:23	81	0.0	12.24	4.1	
04/07/2015	10:49:23	80	0.0	12.24	4.1	
04/07/2015	10:49:50	80	0.0	12.24	4.1	Start Pumping Spacer
04/07/2015	10:49:51	80	0.0	12.24	4.1	40 bbl MUDPUSH Express
04/07/2015	10:49:52	80	0.0	12.24	4.1	Good Returns
04/07/2015	10:51:23	908	4.5	12.45	8.7	
04/07/2015	10:53:23	1313	5.9	12.52	20.0	
04/07/2015	10:55:23	454	3.2	12.50	29.0	
04/07/2015	10:57:00	463	3.2	13.16	34.2	End Spacer

Well	Field	Job Start	Customer	Job Number
Sprague 3G-9H	DJ	Apr/07/2015	Encana	DAXH-00049

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
04/07/2015	10:59:23	793	4.3	13.51	43.8	
04/07/2015	11:00:00	774	4.3	13.52	46.4	Start Cement Slurry
04/07/2015	11:01:23	1369	6.1	13.52	53.1	
04/07/2015	11:03:23	437	3.0	13.66	61.5	
04/07/2015	11:05:23	1246	5.8	13.57	70.1	
04/07/2015	11:07:23	1221	5.9	13.56	81.9	
04/07/2015	11:08:02	1167	5.9	13.58	85.8	Wet Dry Samples
04/07/2015	11:08:03	1167	5.9	13.59	85.9	139 bbl 13.5 Slurry
04/07/2015	11:09:23	1144	5.9	13.59	93.7	
04/07/2015	11:11:23	1092	6.0	13.56	105.6	
04/07/2015	11:13:23	1040	6.0	13.54	117.7	
04/07/2015	11:15:23	969	6.0	13.53	129.7	
04/07/2015	11:17:23	456	4.3	13.52	138.5	
04/07/2015	11:19:23	466	4.3	13.50	147.1	
04/07/2015	11:21:23	463	4.3	13.48	155.7	
04/07/2015	11:23:23	467	4.3	13.59	164.3	
04/07/2015	11:25:23	301	3.2	13.56	171.0	
04/07/2015	11:26:00	294	3.2	13.44	173.0	End Cement Slurry
04/07/2015	11:27:23	105	0.0	13.57	177.0	
04/07/2015	11:29:23	92	0.0	13.56	177.1	
04/07/2015	11:31:23	91	0.0	13.55	177.1	
04/07/2015	11:32:00	91	0.0	13.55	177.1	Wash Up To Pit
04/07/2015	11:33:23	165	2.3	8.73	178.5	
04/07/2015	11:35:23	287	4.6	8.47	184.1	
04/07/2015	11:37:23	292	4.6	8.53	193.3	
04/07/2015	11:39:23	281	20.6	8.47	212.3	
04/07/2015	11:41:23	86	0.0	8.33	225.4	
04/07/2015	11:43:23	133	1.9	8.35	225.5	
04/07/2015	11:45:00	321	6.1	8.33	229.9	Drop Top Plug
04/07/2015	11:45:01	336	6.1	8.34	230.0	Drop Wiper Balls
04/07/2015	11:45:23	315	6.1	8.34	232.3	
04/07/2015	11:46:00	322	6.1	8.34	236.0	Start Displacement
04/07/2015	11:46:02	328	6.1	8.34	236.2	190 bbl Fresh Water
04/07/2015	11:46:03	312	6.1	8.34	236.3	Good Returns
04/07/2015	11:47:23	1059	6.0	8.33	244.3	
04/07/2015	11:49:23	1139	6.0	8.33	256.3	
04/07/2015	11:51:23	1338	6.0	8.33	268.3	
04/07/2015	11:53:23	1596	6.0	8.33	280.2	
04/07/2015	11:55:23	1806	6.0	8.33	292.2	
04/07/2015	11:57:23	2015	5.9	8.33	304.1	
04/07/2015	11:59:23	2205	5.9	8.33	315.9	
04/07/2015	12:01:23	2404	5.9	8.33	327.8	
04/07/2015	12:03:23	2611	5.9	8.33	339.6	
04/07/2015	12:05:23	2665	5.9	8.33	351.4	
04/07/2015	12:07:23	2717	5.9	8.33	363.2	
04/07/2015	12:09:23	2770	5.9	8.33	375.0	
04/07/2015	12:11:23	2831	5.9	8.33	386.8	
04/07/2015	12:13:23	2415	4.3	8.33	397.9	
04/07/2015	12:15:23	2048	2.2	8.33	406.2	
04/07/2015	12:17:23	2089	2.2	8.33	410.7	
04/07/2015	12:19:23	2105	2.2	8.33	415.1	
04/07/2015	12:20:32	2583	0.0	8.33	416.3	Bump Top Plug
04/07/2015	12:21:23	2654	0.0	8.33	416.3	
04/07/2015	12:23:23	2681	0.0	8.33	416.3	

Well	Field	Job Start	Customer	Job Number
Sprague 3G-9H	DJ	Apr/07/2015	Encana	DAXH-00049

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
04/07/2015	12:27:23	76	0.0	8.33	416.3	
04/07/2015	12:29:23	78	0.0	8.33	416.3	
04/07/2015	12:30:14	79	0.0	8.33	416.3	End Displacement
04/07/2015	12:30:15	79	0.0	8.33	416.3	Remark
04/07/2015	12:30:16	79	0.0	8.33	416.3	Remark

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
4.4			21.0	140.0	0.0	85.6	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
4651	79	1192				bbl	lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume
%	0.0 bbl	180.3 bbl	66 degF	☐	bbl
				Washed Thru Perfs ☐	To ft

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
	Jordan Moreland/ Stacy Terry	☐ -	☒ -