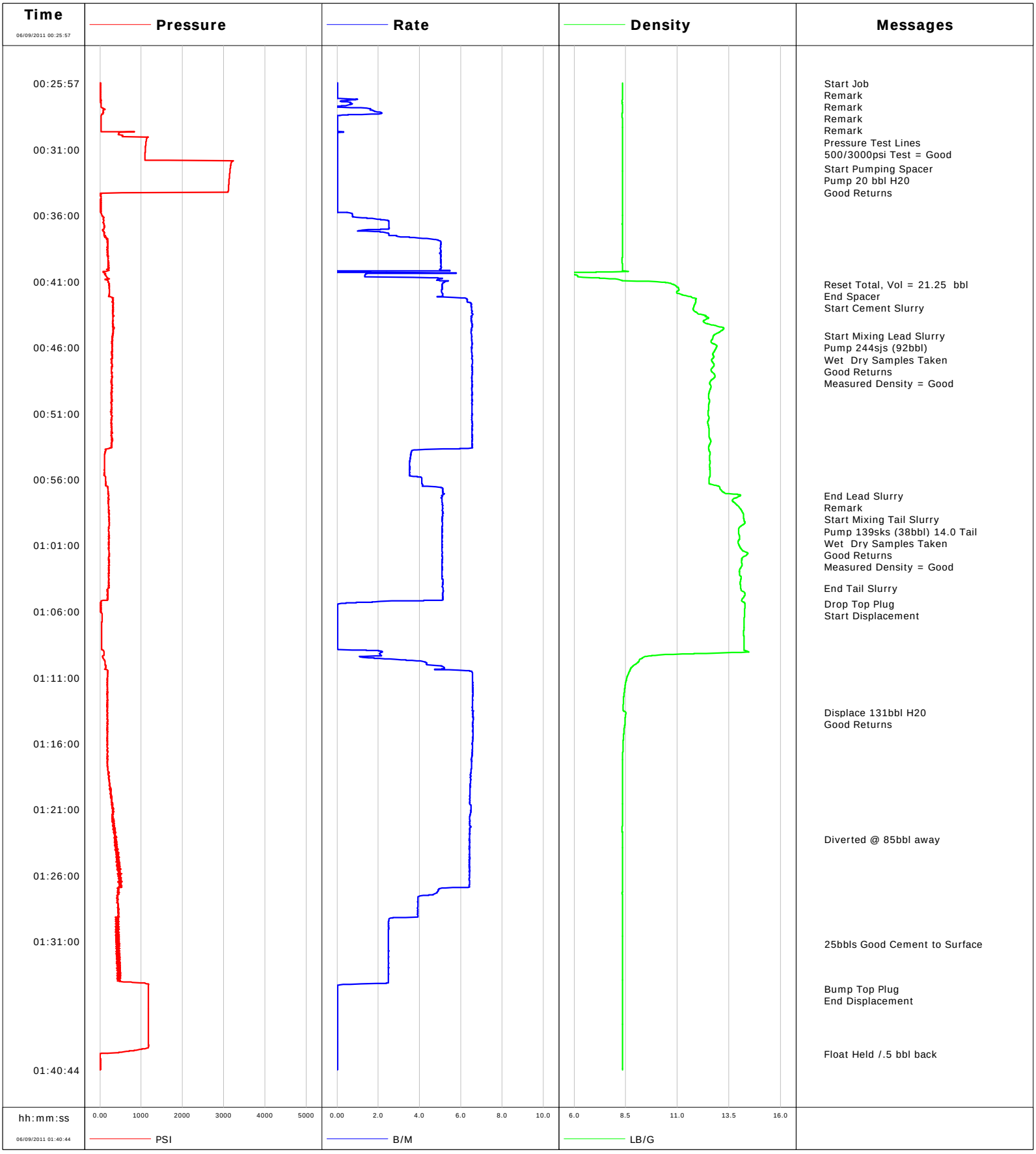
Schlumberger

Cementing Job Report

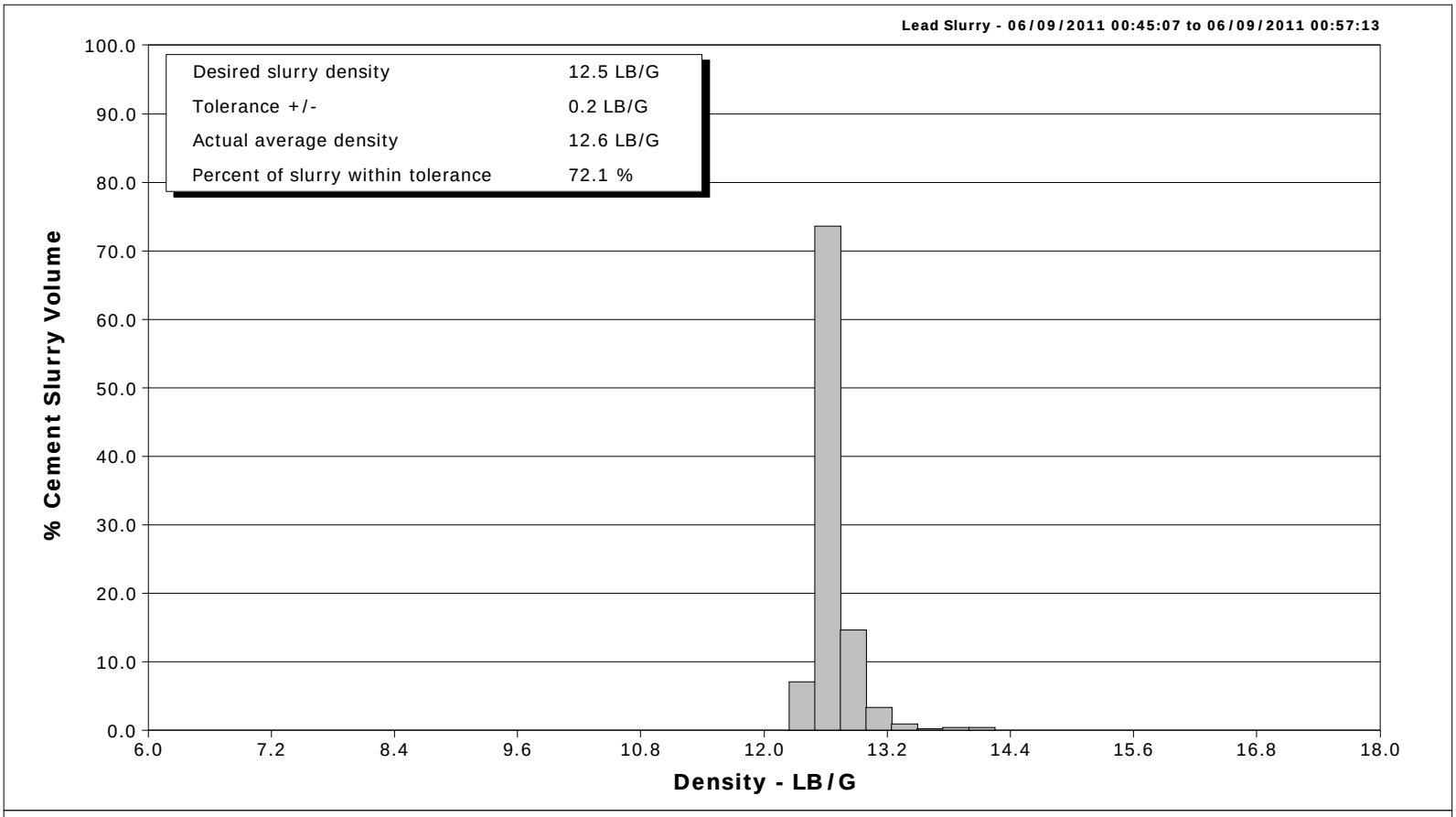
Well	WF13C-H26	**Client**	Encana
Field	N. Parachute	**SIR No.**	573539
Engineer	B. Farnham	**Job Type**	9 5/8" Surface
Country	United States	**Job Date**	6-8-2011

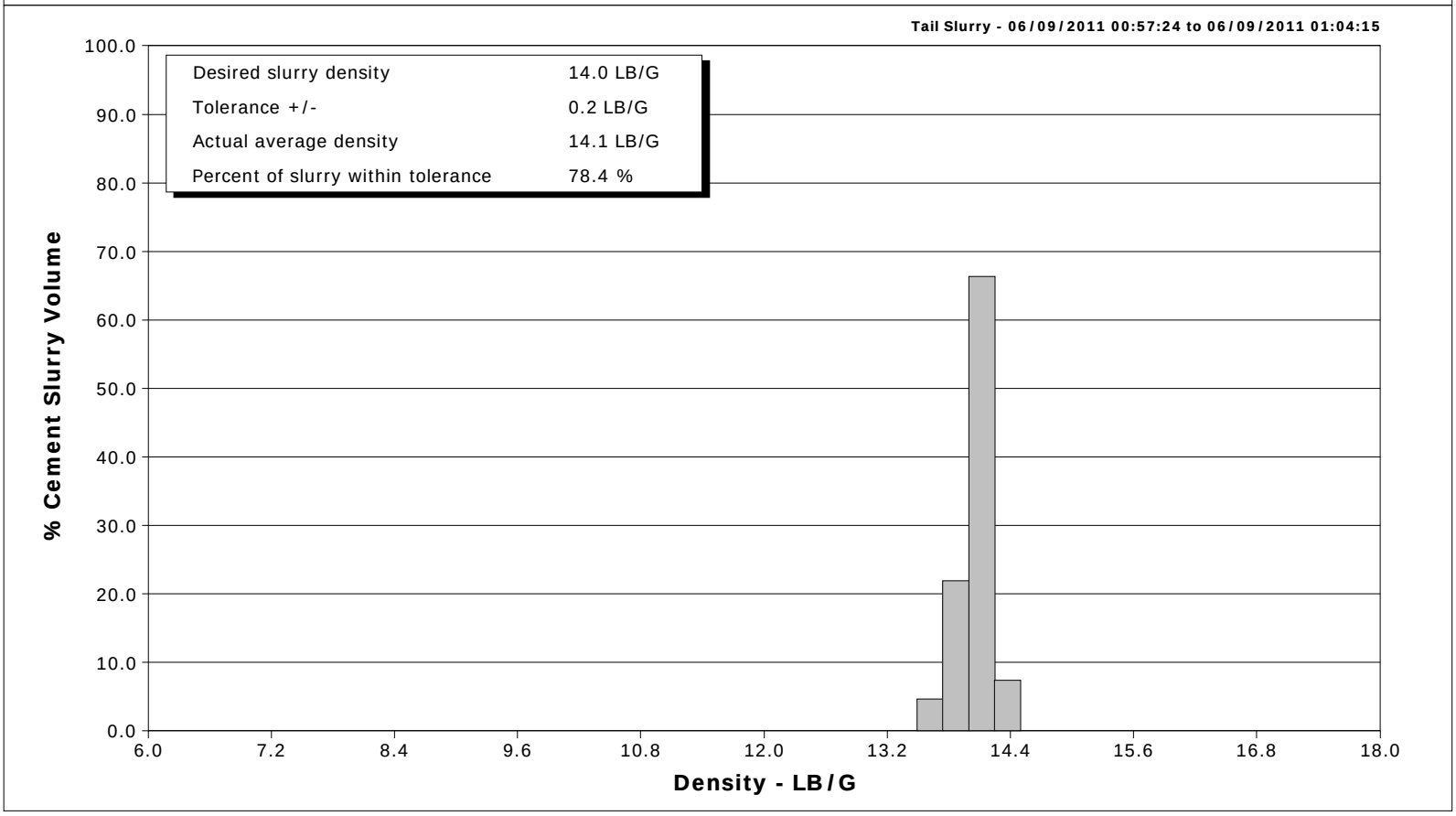


Schlumberger

Cementing Qa/Qc Density Report

Well	WF13C-H26	**Client**	Encana
Field	N. Parachute	**SIR No.**	573539
Engineer	B. Farnham	**Job Type**	9 5/8" Surface
Country	United States	**Job Date**	6-8-2011





Schlumberger Cementing Service Report

Customer	Job Number
Encana	573539

Well	Location (legal)	Schlumberger Location	Job Start
WF13C-H26 WF13C-H26	Patterson 303	Grand Junction	Jun/08/2011

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
N. Parachute	Shale	deg	in	1736.0 ft	1736.0 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Garfield	Colorado	psi	100 degF	87 degF	lb/gal

Well Master	API/UWI
0631280602	

Rig Name	Drilled For	Service Via
Patterson 303	Gas	Land

Offshore Zone	Well Class	Well Type
	New	New Well Completion

Drilling Fluid Type	Max. Density	Plastic Viscosity
Bentonite	9.60 lb/gal	22.000 cP

Service Line	Job Type
Cementing	9 5/8" Surface

Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection
3000 psi	1500 psi	Single Cement head

Service Instructions

20bbl H20
244sks (92bbl) 12.5 Lead - Surface
139sks (38bbl) 14.0 Tail - 1230'
Disp. w/ H20

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
120.0	16.0	65.0		
1736.0	9.6	36.0		

Tubing/Drill Pipe

T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
		0.0	0.0		
		0.0	0.0		

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	131.0 bbl		ft

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
bbl	131.0 bbl	126.0 bbl	251.0 bbl

Casing/Tubing Secured	1 Hole Vol. Circulated prior to Cement
X	X

Lift Pressure	824 psi

Pipe Rotated	Pipe Reciprocated
☐	☐

No. Centralizers	Top Plugs	Bottom Plugs
	1	0

Cement Head Type	Single

Job Scheduled For	Arrived on Location	Leave Location
Jun/08/2011 19:00	Jun/08/2011 19:00	Jun/08/2011 02:00

Casing Tools		Squeeze Job	
Shoe Type	Guide	Squeeze Type	
Shoe Depth	1736.0 ft	Tool Type	
Stage Tool Type		Tool Depth	ft
Stage Tool Depth	ft	Tail Pipe Size	in
Collar Type	Float	Tail Pipe Depth	ft
Collar Depth	1691.0 ft	Sqz. Total Vol.	bbl

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
06/09/2011	00:25:57	9	0.0	8.34	0.0	Started Acquisition
06/09/2011	00:25:59	8	0.0	8.34	0.0	Start Job
06/09/2011	00:26:01	9	0.0	8.34	0.0	Remark
06/09/2011	00:26:02	9	0.0	8.34	0.0	Remark
06/09/2011	00:26:27	6	0.0	8.34	0.0	
06/09/2011	00:26:57	5	0.0	8.34	0.0	
06/09/2011	00:27:27	23	0.7	8.33	0.2	
06/09/2011	00:27:57	122	1.6	8.34	0.5	
06/09/2011	00:28:27	32	0.0	8.33	1.3	
06/09/2011	00:28:57	28	0.0	8.34	1.3	
06/09/2011	00:29:27	28	0.0	8.34	1.3	
06/09/2011	00:29:30	28	0.0	8.34	1.3	Pressure Test Lines
06/09/2011	00:29:36	27	0.0	8.34	1.3	500/3000psi Test = Good
06/09/2011	00:29:57	550	0.0	8.34	1.3	
06/09/2011	00:30:27	1116	0.0	8.34	1.3	
06/09/2011	00:30:57	1101	0.0	8.34	1.3	
06/09/2011	00:31:27	1091	0.0	8.34	1.3	
06/09/2011	00:31:57	3190	0.0	8.34	1.3	
06/09/2011	00:32:27	3155	0.0	8.34	1.3	Start Pumping Spacer
06/09/2011	00:32:28	3155	0.0	8.34	1.3	Pump 20 bbl H20
06/09/2011	00:32:29	3153	0.0	8.34	1.3	Good Returns

Well	Field	Job Start	Customer	Job Number
WF13C-H26 WF13C-H26	N. Parachute	Jun/08/2011	Encana	573539

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
06/09/2011	00:33:27	3125	0.0	8.34	1.3	
06/09/2011	00:33:57	3112	0.0	8.34	1.3	
06/09/2011	00:34:27	11	0.0	8.34	1.3	
06/09/2011	00:34:57	23	0.0	8.34	1.3	
06/09/2011	00:35:27	22	0.0	8.34	1.3	
06/09/2011	00:35:57	44	0.7	8.34	1.4	
06/09/2011	00:36:27	85	2.5	8.34	2.2	
06/09/2011	00:36:57	100	2.5	8.34	3.4	
06/09/2011	00:37:27	98	2.5	8.34	4.5	
06/09/2011	00:37:57	178	5.0	8.34	6.4	
06/09/2011	00:38:27	179	5.0	8.34	8.9	
06/09/2011	00:38:57	189	5.0	8.34	11.4	
06/09/2011	00:39:27	191	5.0	8.33	13.9	
06/09/2011	00:39:57	195	5.1	8.33	16.4	
06/09/2011	00:40:27	137	1.4	5.82	18.2	
06/09/2011	00:40:57	197	5.4	8.40	19.9	
06/09/2011	00:41:13	232	5.1	10.80	21.2	Reset Total, Vol = 21.25 bbl
06/09/2011	00:41:15	224	5.1	10.84	21.4	End Spacer
06/09/2011	00:41:17	223	5.1	10.86	21.6	Start Cement Slurry
06/09/2011	00:41:27	223	5.1	11.03	22.4	
06/09/2011	00:41:57	224	5.1	11.13	25.0	
06/09/2011	00:42:27	302	6.3	11.88	27.8	
06/09/2011	00:42:57	311	6.5	11.79	31.0	
06/09/2011	00:43:27	313	6.6	11.98	34.3	
06/09/2011	00:43:57	322	6.5	12.31	37.5	
06/09/2011	00:44:27	324	6.5	13.13	40.8	
06/09/2011	00:44:57	330	6.5	12.89	44.1	
06/09/2011	00:45:07	302	6.5	12.74	45.1	Start Mixing Lead Slurry
06/09/2011	00:45:09	314	6.5	12.74	45.4	Pump 244sjs (92bbl)
06/09/2011	00:45:10	296	6.5	12.73	45.5	Wet Dry Samples Taken
06/09/2011	00:45:11	308	6.5	12.73	45.6	Measured Density = Good
06/09/2011	00:45:27	314	6.5	12.67	47.3	
06/09/2011	00:45:57	303	6.5	12.91	50.6	
06/09/2011	00:46:27	281	6.5	12.73	53.8	
06/09/2011	00:46:57	294	6.5	12.65	57.1	
06/09/2011	00:47:27	302	6.5	12.74	60.4	
06/09/2011	00:47:57	279	6.5	12.75	63.7	
06/09/2011	00:48:27	283	6.5	12.65	66.9	
06/09/2011	00:48:57	290	6.5	12.63	70.2	
06/09/2011	00:49:27	270	6.5	12.54	73.5	
06/09/2011	00:49:57	281	6.5	12.55	76.7	
06/09/2011	00:50:27	281	6.5	12.51	80.0	
06/09/2011	00:50:57	276	6.5	12.48	83.3	
06/09/2011	00:51:27	282	6.5	12.51	86.5	
06/09/2011	00:51:57	274	6.5	12.51	89.8	
06/09/2011	00:52:27	281	6.5	12.53	93.1	
06/09/2011	00:52:57	286	6.6	12.58	96.3	
06/09/2011	00:53:27	278	6.5	12.53	99.6	
06/09/2011	00:53:57	128	3.6	12.59	102.2	
06/09/2011	00:54:27	114	3.5	12.57	103.9	
06/09/2011	00:54:57	113	3.5	12.57	105.7	
06/09/2011	00:55:27	108	3.5	12.57	107.5	
06/09/2011	00:55:57	134	4.1	12.54	109.3	
06/09/2011	00:56:27	140	4.2	12.88	111.4	

Well	Field	Job Start	Customer	Job Number
WF13C-H26 WF13C-H26	N. Parachute	Jun/08/2011	Encana	573539

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
06/09/2011	00:57:13	209	5.1	14.05	115.2	End Lead Slurry
06/09/2011	00:57:15	208	5.1	14.03	115.4	Remark
06/09/2011	00:57:24	202	5.0	13.85	116.1	Start Mixing Tail Slurry
06/09/2011	00:57:26	211	5.1	13.76	116.3	Pump 139sks (38bbl) 14.0 Tail
06/09/2011	00:57:27	205	5.1	13.76	116.4	Good Returns
06/09/2011	00:57:57	208	5.1	13.90	118.9	
06/09/2011	00:58:27	214	5.1	14.14	121.5	
06/09/2011	00:58:57	223	5.1	14.21	124.1	
06/09/2011	00:59:27	237	5.1	14.15	126.6	
06/09/2011	00:59:57	211	5.1	13.96	129.2	
06/09/2011	01:00:27	226	5.1	14.02	131.7	
06/09/2011	01:00:57	209	5.1	13.97	134.2	
06/09/2011	01:01:27	218	5.1	14.22	136.8	
06/09/2011	01:01:57	212	5.1	14.14	139.3	
06/09/2011	01:02:27	225	5.1	14.14	141.9	
06/09/2011	01:02:57	207	5.1	14.00	144.4	
06/09/2011	01:03:27	209	5.1	14.08	147.0	
06/09/2011	01:03:57	209	5.1	14.05	149.5	
06/09/2011	01:04:15	214	5.1	14.07	151.1	End Tail Slurry
06/09/2011	01:04:27	179	5.1	14.13	152.1	
06/09/2011	01:04:57	193	5.1	14.20	154.7	
06/09/2011	01:05:25	15	0.1	14.27	156.2	Drop Top Plug
06/09/2011	01:05:26	15	0.1	14.27	156.2	Start Displacement
06/09/2011	01:05:27	14	0.0	14.27	156.2	
06/09/2011	01:05:57	24	0.0	14.26	156.2	
06/09/2011	01:06:27	55	0.0	14.24	156.2	
06/09/2011	01:06:57	43	0.0	14.23	156.2	
06/09/2011	01:07:27	43	0.0	14.21	156.2	
06/09/2011	01:07:57	45	0.0	14.22	156.2	
06/09/2011	01:08:27	45	0.0	14.23	156.2	
06/09/2011	01:08:57	87	1.4	14.23	156.3	
06/09/2011	01:09:27	66	1.1	9.39	157.3	
06/09/2011	01:09:57	126	4.3	9.05	158.8	
06/09/2011	01:10:27	181	5.9	8.71	161.3	
06/09/2011	01:10:57	188	6.6	8.57	164.5	
06/09/2011	01:11:27	185	6.6	8.49	167.8	
06/09/2011	01:11:57	177	6.6	8.44	171.1	
06/09/2011	01:12:27	187	6.6	8.41	174.4	
06/09/2011	01:12:57	179	6.5	8.38	177.7	
06/09/2011	01:13:27	177	6.5	8.37	180.9	
06/09/2011	01:13:38	179	6.6	8.49	182.1	Displace 131bbl H20
06/09/2011	01:13:57	180	6.6	8.48	184.2	
06/09/2011	01:14:27	184	6.6	8.46	187.5	
06/09/2011	01:14:57	184	6.6	8.42	190.8	
06/09/2011	01:15:27	187	6.6	8.40	194.1	
06/09/2011	01:15:57	183	6.5	8.37	197.4	
06/09/2011	01:16:27	178	6.5	8.36	200.6	
06/09/2011	01:16:57	190	6.5	8.35	203.9	
06/09/2011	01:17:27	182	6.5	8.35	207.2	
06/09/2011	01:17:57	199	6.5	8.34	210.4	
06/09/2011	01:18:27	214	6.5	8.34	213.7	
06/09/2011	01:18:57	233	6.5	8.34	216.9	
06/09/2011	01:19:27	264	6.4	8.34	220.1	
06/09/2011	01:19:57	264	6.4	8.34	223.4	

Well	Field	Job Start	Customer	Job Number
WF13C-H26 WF13C-H26	N. Parachute	Jun/08/2011	Encana	573539

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
06/09/2011	01:20:57	334	6.5	8.35	229.8	
06/09/2011	01:21:27	315	6.4	8.35	233.0	
06/09/2011	01:21:57	304	6.4	8.34	236.3	
06/09/2011	01:22:27	352	6.4	8.33	239.5	
06/09/2011	01:22:57	381	6.4	8.34	242.7	
06/09/2011	01:23:15	389	6.4	8.34	244.6	Diverted @ 85bbl away
06/09/2011	01:23:27	347	6.4	8.34	245.9	
06/09/2011	01:23:57	371	6.4	8.34	249.1	
06/09/2011	01:24:27	382	6.4	8.34	252.3	
06/09/2011	01:24:57	474	6.4	8.34	255.5	
06/09/2011	01:25:27	459	6.4	8.34	258.7	
06/09/2011	01:25:57	433	6.4	8.34	261.9	
06/09/2011	01:26:27	502	6.4	8.34	265.1	
06/09/2011	01:26:57	420	5.3	8.34	268.3	
06/09/2011	01:27:27	458	4.7	8.33	270.7	
06/09/2011	01:27:57	431	3.9	8.34	272.8	
06/09/2011	01:28:27	424	3.9	8.34	274.7	
06/09/2011	01:28:57	450	3.9	8.34	276.7	
06/09/2011	01:29:27	395	2.5	8.33	278.3	
06/09/2011	01:29:57	413	2.5	8.34	279.5	
06/09/2011	01:30:27	456	2.5	8.34	280.8	
06/09/2011	01:30:57	431	2.5	8.34	282.0	
06/09/2011	01:31:12	392	2.5	8.34	282.6	25bbls Good Cement to Surface
06/09/2011	01:31:27	401	2.5	8.34	283.3	
06/09/2011	01:31:57	391	2.5	8.34	284.5	
06/09/2011	01:32:27	432	2.5	8.34	285.7	
06/09/2011	01:32:57	491	2.5	8.34	287.0	
06/09/2011	01:33:27	471	2.5	8.34	288.2	
06/09/2011	01:33:57	436	2.5	8.34	289.5	
06/09/2011	01:34:27	1177	0.0	8.34	290.2	
06/09/2011	01:34:37	1175	0.0	8.34	290.2	Bump Top Plug
06/09/2011	01:34:57	1174	0.0	8.34	290.2	
06/09/2011	01:35:27	1173	0.0	8.34	290.2	
06/09/2011	01:35:57	1173	0.0	8.34	290.2	
06/09/2011	01:36:27	1174	0.0	8.34	290.2	
06/09/2011	01:36:57	1175	0.0	8.35	290.2	
06/09/2011	01:37:27	1176	0.0	8.35	290.2	
06/09/2011	01:37:57	1177	0.0	8.35	290.2	
06/09/2011	01:38:27	1178	0.0	8.35	290.2	
06/09/2011	01:38:57	1179	0.0	8.35	290.2	
06/09/2011	01:39:27	397	0.0	8.35	290.2	
06/09/2011	01:39:31	2	0.0	8.35	290.2	Float Held /.5 bbl back
06/09/2011	01:39:57	1	0.0	8.35	290.2	

Well	Field	Job Start	Customer	Job Number
WF13C-H26 WF13C-H26	N. Parachute	Jun/08/2011	Encana	573539

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
5.2		0.0	6.6	290.2	0.0	21.4	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
3237	1	404	1200		FreshWater	325.0 bbl	8.34 lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume
%	130.0 bbl	134.0 bbl	70 degF	[X]	25.0 bbl
				Washed Thru Perfs [ ]	To ft

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
Floyd Roberts	B. Farnham	-	[X] -