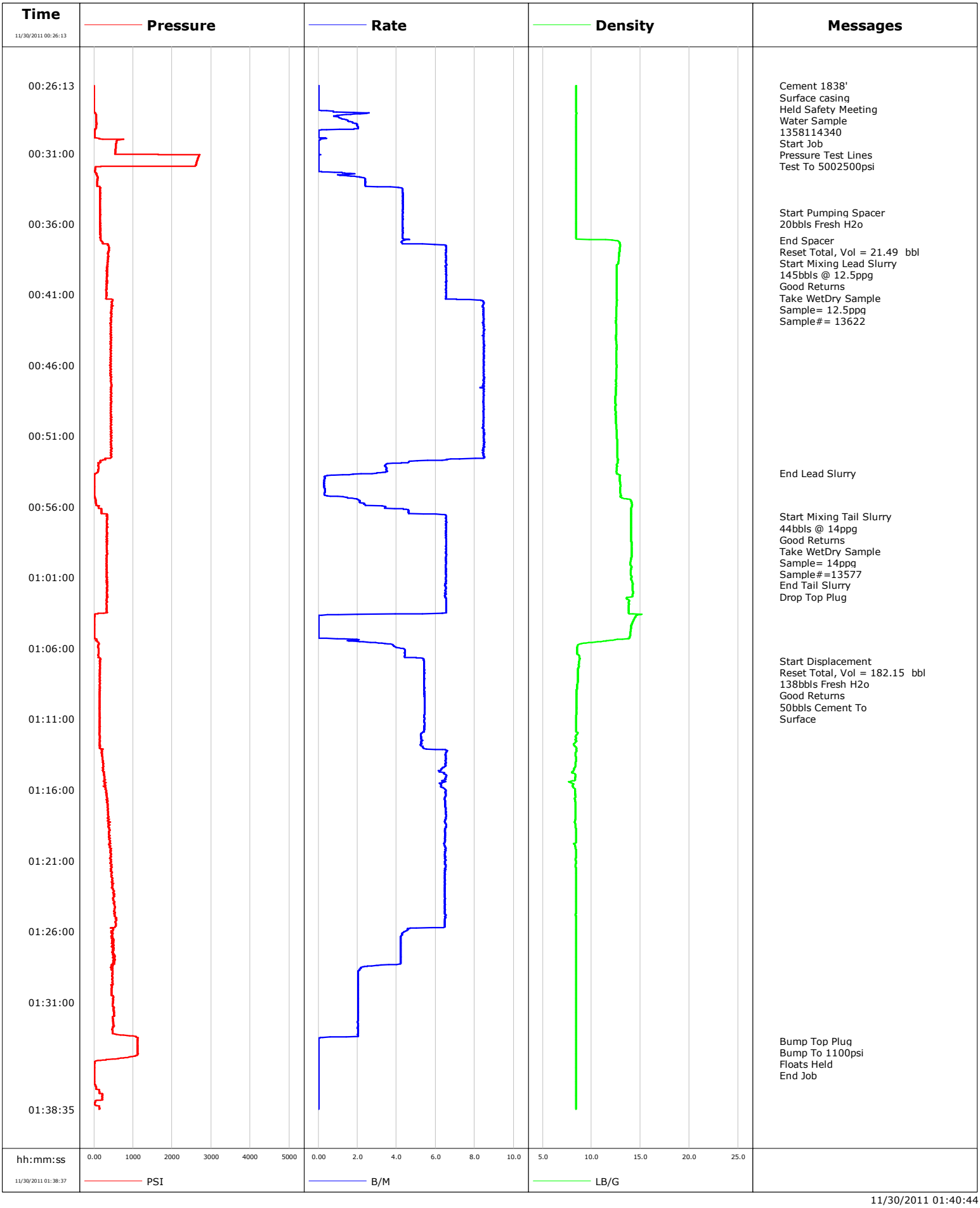
Schlumberger Cementing Job Report

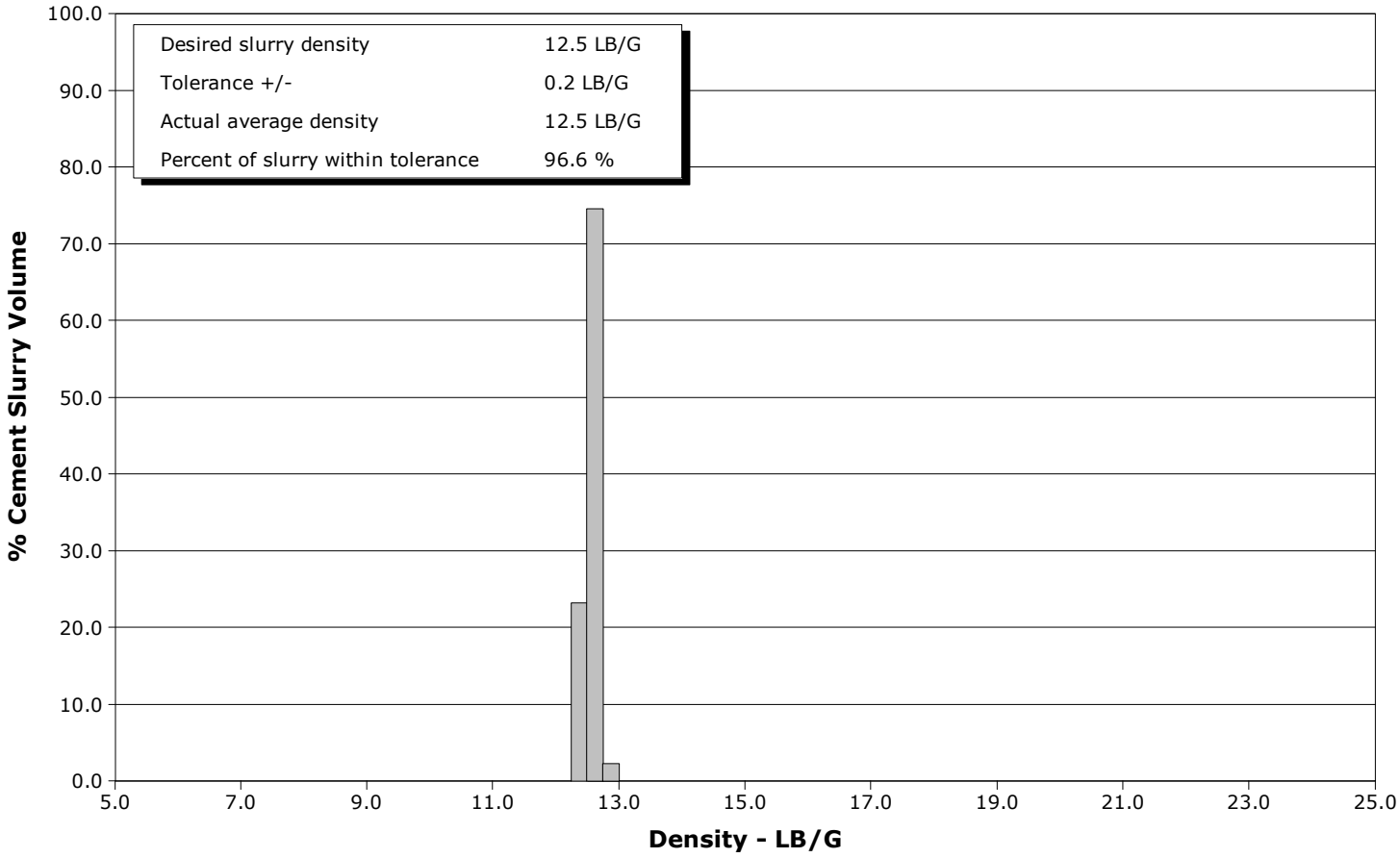
Well	EF08E-34P	**Client**	ENCANA
Field	N PARACHUTE	**SIR No.**	BUNM-00479
Engineer		**Job Type**	SURFACE
Country	United States	**Job Date**	11-29-2011



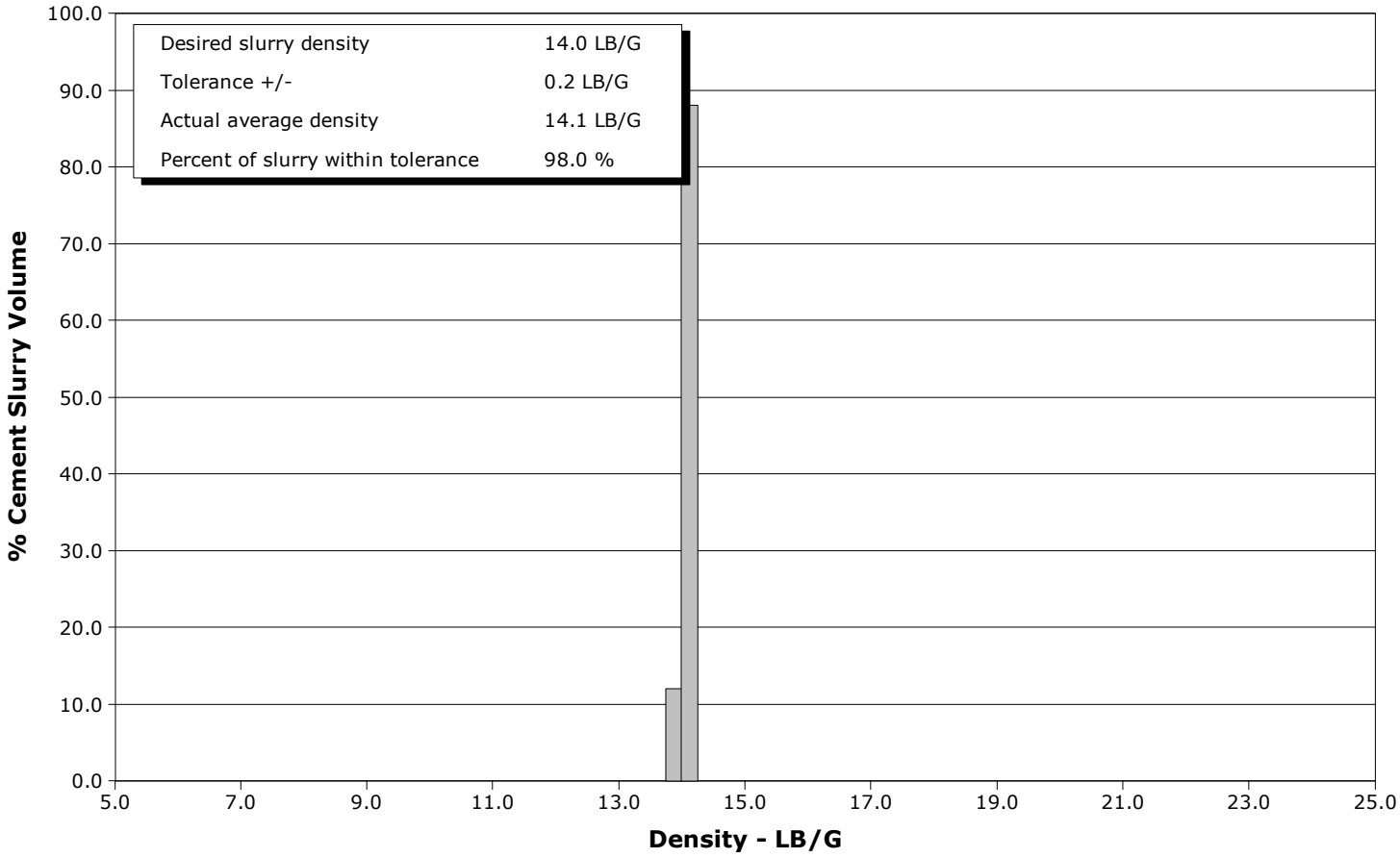
Schlumberger Cementing Qa/Qc Density Report

Well	EF08E-34P	**Client**	ENCANA
Field	N PARACHUTE	**SIR No.**	BUNM-00479
Engineer		**Job Type**	SURFACE
Country	United States	**Job Date**	11-29-2011

Lead Slurry - 11/30/2011 00:38:14 to 11/30/2011 00:53:39



Tail Slurry - 11/30/2011 00:56:41 to 11/30/2011 01:01:33



Cementing Service Report

Customer	Job Number
ENCANA	BUNM-00479

Well	Location (legal)	Schlumberger Location	Job Start
EF08E-34P	N PARACHUTE	GCO	Nov/29/2011

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
N PARACHUTE					

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
GARFILED	Colorado				

Well Master	API/UWI
0631244217	

Rig Name	Drilled For	Service Via
PATTERSON 303	Gas	Land

Offshore Zone	Well Class	Well Type
	New	Development

Drilling Fluid Type	Max. Density	Plastic Viscosity

Service Line	Job Type
Cementing	SURFACE

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

Service Instructions

274sks 12.5ppg lead 2.11ft3/sk
160sks 14ppg tail 1.54ft3/sk
water test= good

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
1838.0	9.630	36.0	J55	8RD
0.0	0.000	0.0		

Tubing/Drill Pipe

Depth,	Size,	Weight,	Grade	Thread

Perforations/Open Hole

Top,	Bottom,		No. of Shots	Total Interval
				Diameter

Treat Down	Displacement	Packer Type	Packer Depth
Casing	139.0 bbl		

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
	143.0 bbl	103.0 bbl	245.0 bbl

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

Lift Pressure	909 psi	Shoe Type	Guide	Squeeze Type	
Pipe Rotated	☐	Pipe Reciprocated	☐	Shoe Depth	1838.0 ft	Tool Type	
No. Centralizers		Top Plugs	1	Bottom Plugs	Stage Tool Type		Tool Depth	
Cement Head Type	Single				Stage Tool Depth		Tail Pipe Size	
Job Scheduled For	Arrived on Location	Leave Location			Collar Type	Diff-Fill	Tail Pipe Depth	
Nov/29/2011	Nov/29/2011	Nov/29/2011			Collar Depth	1791.0 ft	Sqz. Total Vol.	

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
11/29/2011	23:53:58					Started Acquisition
11/30/2011	00:26:13	-3	0.0	8.42	0.0	
11/30/2011	00:26:14					Cement 1838'
11/30/2011	00:26:14					Surface casing
11/30/2011	00:26:14					Held Safety Meeting
11/30/2011	00:26:14	-3	0.0	8.42	0.0	
11/30/2011	00:26:15					Water Sample
11/30/2011	00:26:15					1358114340
11/30/2011	00:26:15	-3	0.0	8.42	0.0	
11/30/2011	00:26:16					Start Job
11/30/2011	00:26:16	-3	0.0	8.42	0.0	
11/30/2011	00:26:20					Pressure Test Lines
11/30/2011	00:26:20	-3	0.0	8.42	0.0	
11/30/2011	00:26:21					Test To 5002500psi
11/30/2011	00:26:21	-3	0.0	8.42	0.0	
11/30/2011	00:27:58	-2	0.0	8.42	0.0	
11/30/2011	00:29:58	139	0.4	8.41	2.2	
11/30/2011	00:31:58	37	0.0	8.41	2.2	
11/30/2011	00:33:58	152	4.3	8.41	6.9	
11/30/2011	00:35:11					Start Pumping Spacer
11/30/2011	00:35:11					20bbls Fresh H2o

Well	Field	Job Start	Customer	Job Number
EF08E-34P	N PARACHUTE	Nov/29/2011	ENCANA	BUNM-00479

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
11/30/2011	00:35:58	163	4.3	8.40	15.5	
11/30/2011	00:37:09					End Spacer
11/30/2011	00:37:09	168	4.4	12.10	20.6	
11/30/2011	00:37:21					Reset Total, Vol = 21.49 bbl
11/30/2011	00:37:21	227	4.3	12.86	21.5	
11/30/2011	00:37:58	374	6.5	12.84	25.3	
11/30/2011	00:38:14					Start Mixing Lead Slurry
11/30/2011	00:38:14	357	6.5	12.80	27.0	
11/30/2011	00:38:16					145bbls @ 12.5ppg
11/30/2011	00:38:16					Good Returns
11/30/2011	00:38:16	358	6.5	12.80	27.3	
11/30/2011	00:38:17					Take WetDry Sample
11/30/2011	00:38:17					Sample= 12.5ppg
11/30/2011	00:38:17					Sample#= 13622
11/30/2011	00:38:17	362	6.5	12.80	27.4	
11/30/2011	00:39:58	330	6.5	12.58	38.3	
11/30/2011	00:41:58	442	8.4	12.54	52.6	
11/30/2011	00:43:58	429	8.5	12.50	69.5	
11/30/2011	00:45:58	429	8.5	12.56	86.4	
11/30/2011	00:47:58	446	8.4	12.46	103.3	
11/30/2011	00:49:58	433	8.4	12.50	120.2	
11/30/2011	00:51:58	440	8.4	12.64	137.1	
11/30/2011	00:53:39					End Lead Slurry
11/30/2011	00:53:39	48	2.9	12.57	146.7	
11/30/2011	00:53:58	9	0.3	12.86	147.0	
11/30/2011	00:55:58	109	3.4	14.12	148.8	
11/30/2011	00:56:41					Start Mixing Tail Slurry
11/30/2011	00:56:41	338	6.5	14.03	152.3	
11/30/2011	00:56:42					44bbls @ 14ppg
11/30/2011	00:56:42					Good Returns
11/30/2011	00:56:42					Take WetDry Sample
11/30/2011	00:56:42					Sample= 14ppg
11/30/2011	00:56:42	334	6.5	14.03	152.4	
11/30/2011	00:56:43					Sample#=13577
11/30/2011	00:56:43	334	6.5	14.03	152.5	
11/30/2011	00:57:58	329	6.5	14.03	160.6	
11/30/2011	00:59:58	330	6.5	13.95	173.7	
11/30/2011	01:01:33					End Tail Slurry
11/30/2011	01:01:33	336	6.5	14.20	184.0	
11/30/2011	01:01:35					Drop Top Plug
11/30/2011	01:01:35	338	6.5	14.20	184.2	
11/30/2011	01:01:58	345	6.5	14.23	186.7	
11/30/2011	01:03:58	9	0.0	14.32	197.3	
11/30/2011	01:05:58	106	4.1	8.50	199.2	
11/30/2011	01:06:54					Start Displacement
11/30/2011	01:06:54	146	5.4	8.73	203.6	
11/30/2011	01:06:55					Reset Total, Vol = 182.15 bbl
11/30/2011	01:06:55	156	5.4	8.73	203.6	
11/30/2011	01:06:56					138bbls Fresh H2o
11/30/2011	01:06:56					Good Returns
11/30/2011	01:06:56					50bbls Cement To
11/30/2011	01:06:56					Surface
11/30/2011	01:06:56	160	5.4	8.72	203.7	
11/30/2011	01:07:58	142	5.4	8.61	209.3	

Well	Field	Job Start	Customer	Job Number
EF08E-34P	N PARACHUTE	Nov/29/2011	ENCANA	BUNM-00479

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
11/30/2011	01:11:58	149	5.3	8.59	231.0	
11/30/2011	01:13:58	221	6.5	8.39	242.6	
11/30/2011	01:15:58	290	6.5	8.31	255.4	
11/30/2011	01:17:58	353	6.5	8.37	268.4	
11/30/2011	01:19:58	426	6.5	8.33	281.3	
11/30/2011	01:21:58	434	6.5	8.39	294.3	
11/30/2011	01:23:58	523	6.5	8.39	307.3	
11/30/2011	01:25:58	479	4.5	8.39	319.8	
11/30/2011	01:27:58	516	4.2	8.39	328.3	
11/30/2011	01:29:58	456	2.0	8.39	333.3	
11/30/2011	01:31:58	514	2.0	8.39	337.4	
11/30/2011	01:33:45					Bump Top Plug
11/30/2011	01:33:45	1105	0.0	8.39	340.4	
11/30/2011	01:33:46					Bump To 1100psi
11/30/2011	01:33:46	1110	0.0	8.39	340.4	
11/30/2011	01:33:58	1110	0.0	8.39	340.4	
11/30/2011	01:34:58					Floats Held
11/30/2011	01:34:58	748	0.0	8.39	340.4	
11/30/2011	01:35:07					End Job
11/30/2011	01:35:07	226	0.0	8.39	340.4	
11/30/2011	01:35:58	3	0.0	8.39	340.4	

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
5.0		0.0	8.5	340.4	0.0	20.6	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
2706	5	354	1100				

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume
	147.0 bbl	156.2 bbl	72 degF	X	50.0 bbl
				Washed Thru Perfs ☐	To

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
FLOYD ROBERTS	JASON CRICK	-	X
			-