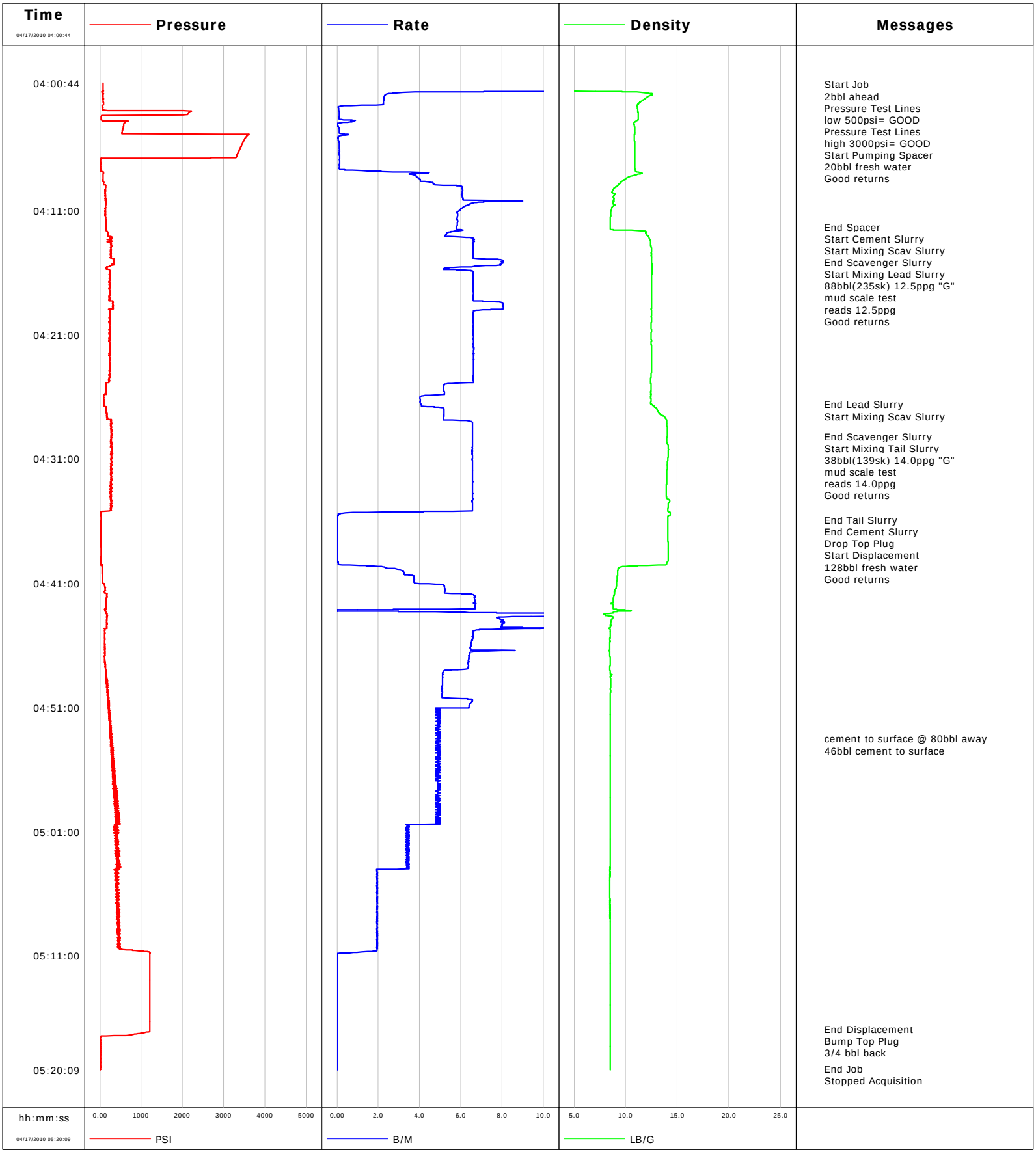
Schlumberger

Cementing Job Report

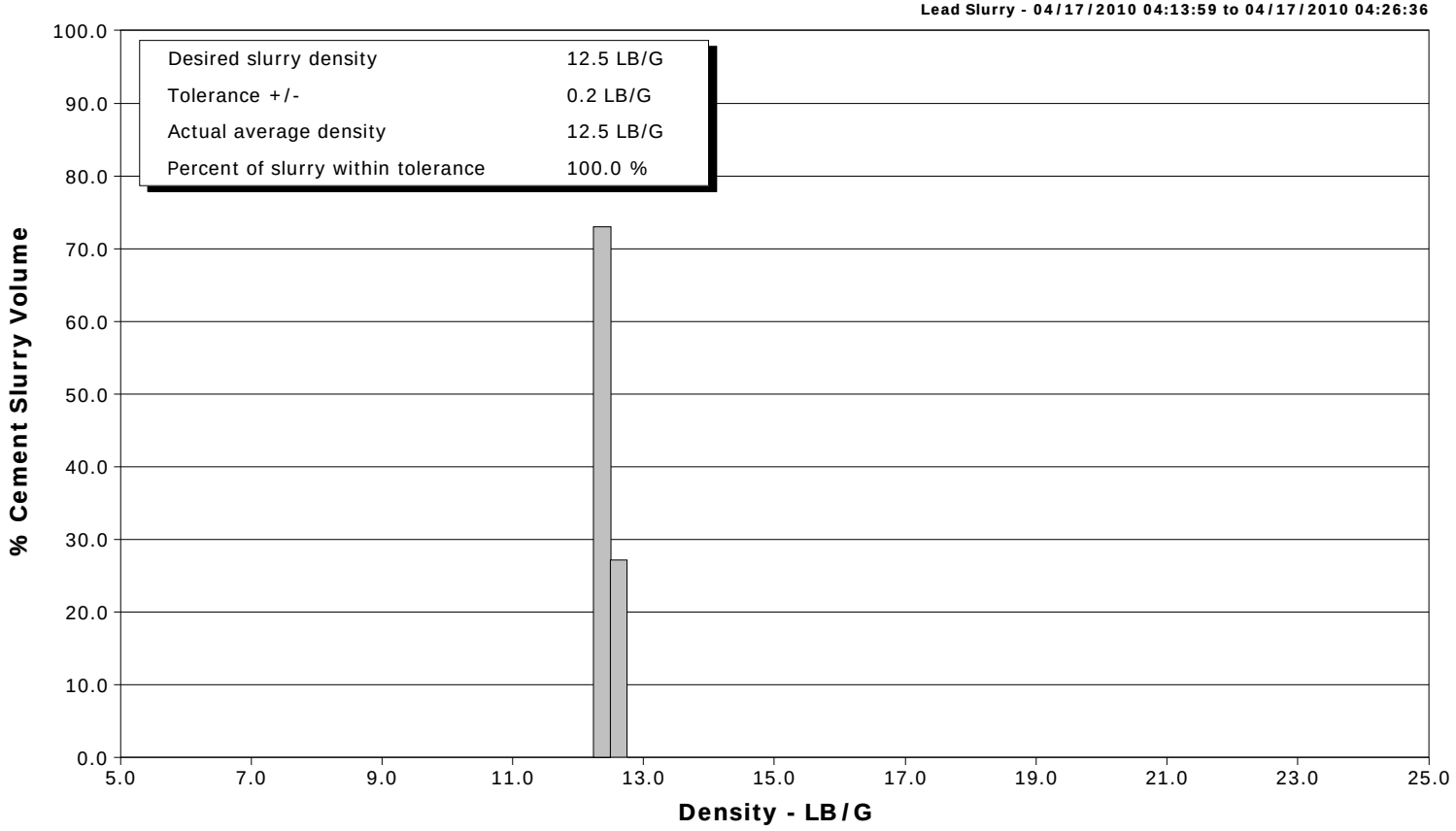
Well	WF14C-22 K22 596	**Client**	ENCANA OIL GAS
Field	N. PARACHUTE	**SIR No.**	000347421
Engineer	Dustin Krueger	**Job Type**	9 5/8 SURFACE
Country	United States	**Job Date**	04-17-2010



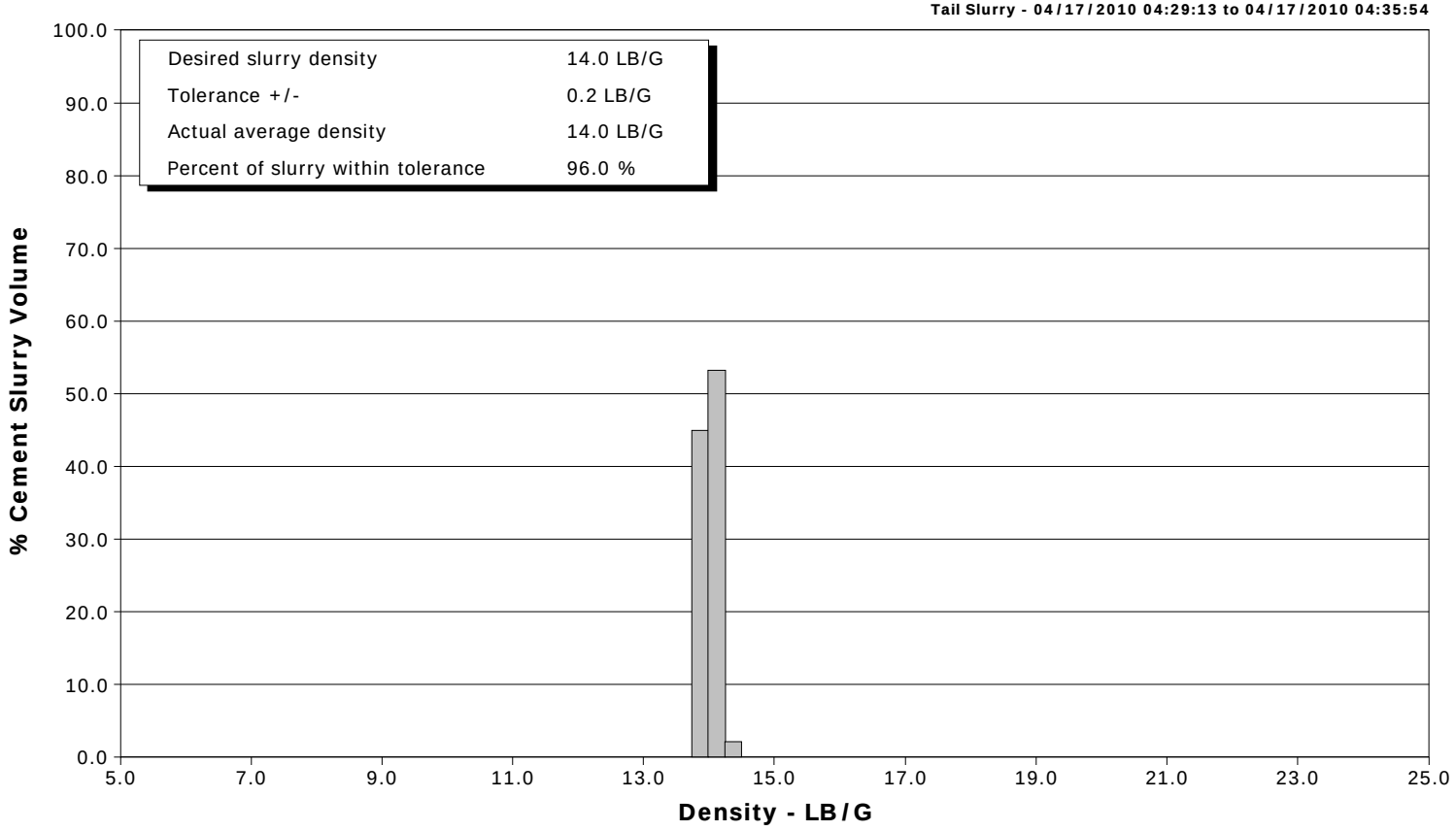
Schlumberger Cementing Qa/Qc Density Report

Well	WF14C-22 K22 596	**Client**	ENCANA OIL GAS
Field	N. PARACHUTE	**SIR No.**	000347421
Engineer	Dustin Krueger	**Job Type**	9 5/8 SURFACE
Country	United States	**Job Date**	04-17-2010

Lead Slurry - 04/17/2010 04:13:59 to 04/17/2010 04:26:36



Tail Slurry - 04/17/2010 04:29:13 to 04/17/2010 04:35:54



Cementing Service Report

Customer	Job Number
ENCANA OIL & GAS	000347421

Well	Location (legal)	Schlumberger Location	Job Start
WF14C-22 K22 596 WF14C-22	K22 596	GRAND-JUNCTION	Apr/17/2010

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
N. PARACHUTE	Clean-Sandstone	0 deg	12.3 in	1710.0 ft	1710.0 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
GARFIELD	Colorado		100 degF	84 degF	

Well Master	API/UWI
0631174684	

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
Bentonite	9.15 lb/gal	20.000 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

Cement 1800 ft of 9 5/8" Surface Casing 25% Excess
20bbls Water
235sks 12.5ppg G (TOL @ surface)
139 sks 14.0ppg G (TOT @ 1150ft)
Displace with water

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
120.0	16.000	94.5	N/A	N/A
1672.0	9.630	36.0	J55	LTC

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	128.0 bbl		

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
	132.0 bbl	104.0 bbl	244.0 bbl

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

Lift Pressure		Shoe Type	Guide	Squeeze Type	
Pipe Rotated	☐	Shoe Depth	1710.0 ft	Tool Type	
Pipe Reciprocated	☐	Stage Tool Type		Tool Depth	
No. Centralizers	23	Stage Tool Depth		Tail Pipe Size	
Top Plugs	1	Collar Type	Float	Tail Pipe Depth	
Bottom Plugs	0	Collar Depth	1710.0 ft	Sqz. Total Vol.	
Cement Head Type	Single				

Job Scheduled For	Arrived on Location	Leave Location
Apr/17/2010 01:00	Apr/17/2010 01:00	Apr/17/2010 04:00

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
04/17/2010	03:14:57					Started Acquisition
04/17/2010	03:14:59					PRE JOB SAFTY MEETING
04/17/2010	04:00:44	78	25.0	0.01	0.4	
04/17/2010	04:00:50					Start Job
04/17/2010	04:00:50	80	25.0	0.01	2.9	
04/17/2010	04:00:53					2bbl ahead
04/17/2010	04:00:53	80	25.0	0.01	4.2	
04/17/2010	04:01:16					Pressure Test Lines
04/17/2010	04:01:16	79	25.0	0.01	13.8	
04/17/2010	04:01:19					low 500psi= GOOD
04/17/2010	04:01:19	79	25.0	0.01	15.0	
04/17/2010	04:01:25					Pressure Test Lines
04/17/2010	04:01:25	64	11.6	7.07	17.3	
04/17/2010	04:01:31					high 3000psi= GOOD
04/17/2010	04:01:31	55	3.2	11.54	17.9	
04/17/2010	04:01:37					Start Pumping Spacer
04/17/2010	04:01:37	78	2.5	12.55	18.1	
04/17/2010	04:01:40					20bbl fresh water
04/17/2010	04:01:40					Good returns
04/17/2010	04:01:40	70	2.3	12.59	18.3	
04/17/2010	04:04:57	3573	0.4	10.84	20.6	

Well	Field	Job Start	Customer	Job Number
WF14C-22 K22 596 WF14C-22	N. PARACHUTE	Apr/17/2010	ENCANA OIL & GAS	000347421

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
04/17/2010	04:12:18					End Spacer
04/17/2010	04:12:18	150	5.8	8.49	45.8	
04/17/2010	04:12:20					Start Cement Slurry
04/17/2010	04:12:20	139	5.8	8.49	46.0	
04/17/2010	04:12:21					Start Mixing Scav Slurry
04/17/2010	04:12:21	146	5.8	8.49	46.1	
04/17/2010	04:13:58					End Scavenger Slurry
04/17/2010	04:13:58	268	6.6	12.47	55.9	
04/17/2010	04:13:59					Start Mixing Lead Slurry
04/17/2010	04:13:59	259	6.6	12.47	56.0	
04/17/2010	04:14:02					88bbl(235sk) 12.5ppg "G"
04/17/2010	04:14:02					mud scale test
04/17/2010	04:14:02	269	6.6	12.48	56.4	
04/17/2010	04:14:03					reads 12.5ppg
04/17/2010	04:14:03					Good returns
04/17/2010	04:14:03	264	6.6	12.49	56.5	
04/17/2010	04:14:57	345	7.8	12.50	62.5	
04/17/2010	04:19:57	246	6.6	12.49	96.8	
04/17/2010	04:24:57	151	5.4	12.43	129.7	
04/17/2010	04:26:36					End Lead Slurry
04/17/2010	04:26:36	104	4.1	12.51	137.4	
04/17/2010	04:26:38					Start Mixing Scav Slurry
04/17/2010	04:26:38	104	4.1	12.55	137.6	
04/17/2010	04:29:11					End Scavenger Slurry
04/17/2010	04:29:11	293	6.5	14.01	152.3	
04/17/2010	04:29:13					Start Mixing Tail Slurry
04/17/2010	04:29:13	274	6.6	14.01	152.5	
04/17/2010	04:29:16					38bbl(139sk) 14.0ppg "G"
04/17/2010	04:29:16	271	6.6	14.00	152.9	
04/17/2010	04:29:17					mud scale test
04/17/2010	04:29:17					reads 14.0ppg
04/17/2010	04:29:17	291	6.6	14.00	153.0	
04/17/2010	04:29:18					Good returns
04/17/2010	04:29:18	291	6.6	14.00	153.1	
04/17/2010	04:29:57	283	6.5	14.11	157.3	
04/17/2010	04:34:57	250	6.5	14.10	190.1	
04/17/2010	04:35:54					End Tail Slurry
04/17/2010	04:35:54	29	0.0	14.08	192.2	
04/17/2010	04:35:57					End Cement Slurry
04/17/2010	04:35:57	28	0.0	14.08	192.2	
04/17/2010	04:36:00					Drop Top Plug
04/17/2010	04:36:00	13	0.0	14.08	192.2	
04/17/2010	04:36:04					Start Displacement
04/17/2010	04:36:04	13	0.0	14.08	192.2	
04/17/2010	04:36:06					128bbl fresh water
04/17/2010	04:36:06	13	0.0	14.08	192.2	
04/17/2010	04:36:07					Good returns
04/17/2010	04:36:07	13	0.0	14.08	192.2	
04/17/2010	04:39:57	54	3.1	9.24	193.1	
04/17/2010	04:44:57	116	6.6	8.50	224.8	
04/17/2010	04:49:57	181	5.1	8.52	254.5	
04/17/2010	04:53:31					cement to surface @ 80bbl away
04/17/2010	04:53:31	262	4.9	8.48	273.2	
04/17/2010	04:53:32					46bbl cement to surface

Well	Field	Job Start	Customer	Job Number
WF14C-22 K22 596 WF14C-22	N. PARACHUTE	Apr/17/2010	ENCANA OIL & GAS	000347421

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
04/17/2010	04:54:57	274	4.9	8.48	280.3	
04/17/2010	04:59:57	413	4.9	8.48	304.7	
04/17/2010	05:04:57	445	1.9	8.48	321.1	
04/17/2010	05:09:57	458	2.0	8.48	330.8	
04/17/2010	05:14:57	1210	0.0	8.48	332.3	
04/17/2010	05:16:52					End Displacement
04/17/2010	05:16:52					Bump Top Plug
04/17/2010	05:16:52	1212	0.0	8.48	332.3	
04/17/2010	05:17:00					3/4 bbl back
04/17/2010	05:17:00	1212	0.0	8.48	332.3	
04/17/2010	05:19:57	6	0.0	8.48	332.3	
04/17/2010	05:20:05					End Job
04/17/2010	05:20:05	6	0.0	8.48	332.3	

Post Job Summary

Average Pump Rates,				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
				126.0		20.0	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
3000	1100	250	1100	200	FreshWater	299.0 bbl	8.34 lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume
	128.0 bbl	128.3 bbl	60 degF	[x]	46.0 bbl
				Washed Thru Perfs [ ]	To

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
FLOYD ROBERTS	Dustin Krueger	[ ] -	[x] -