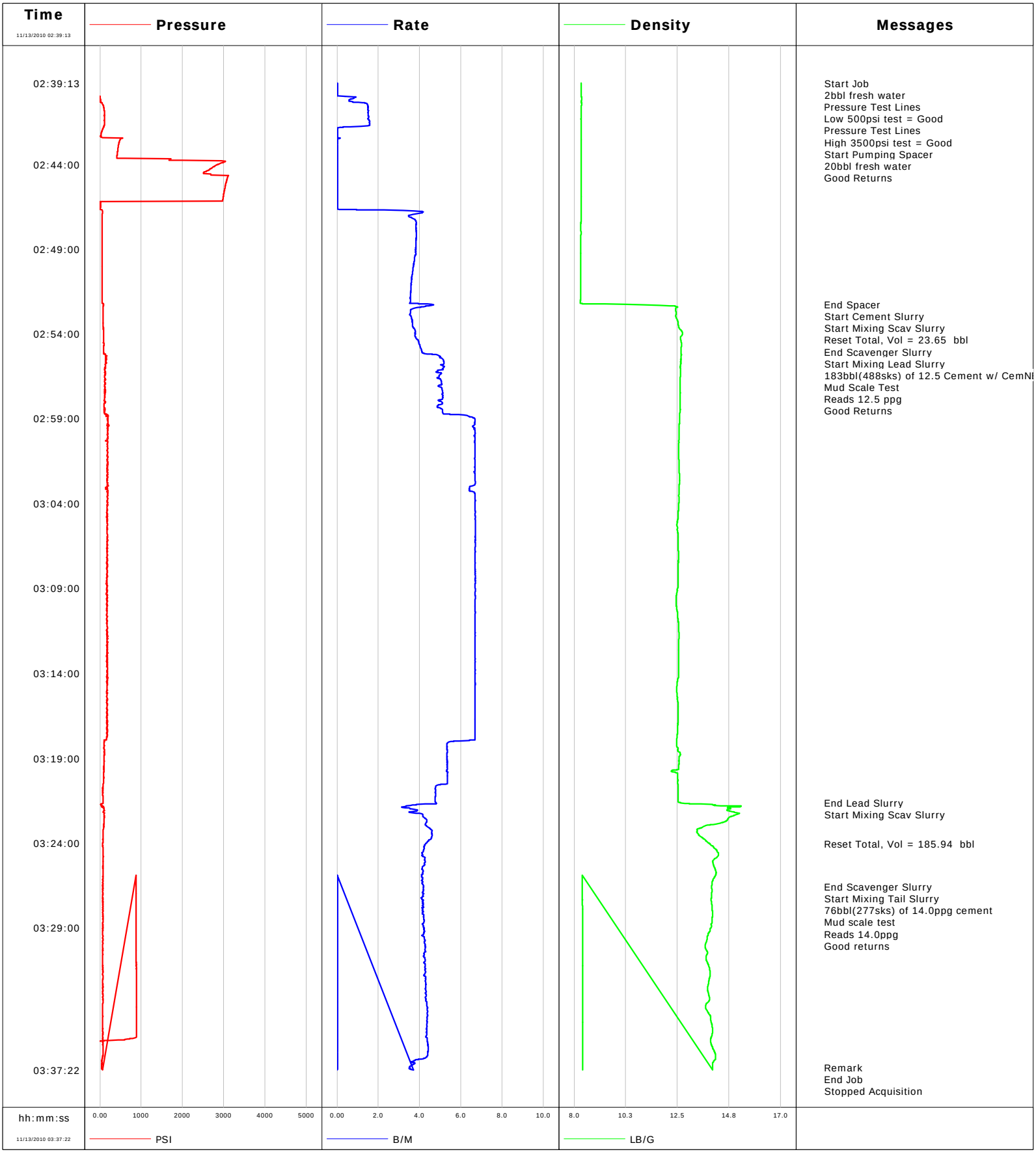
Schlumberger

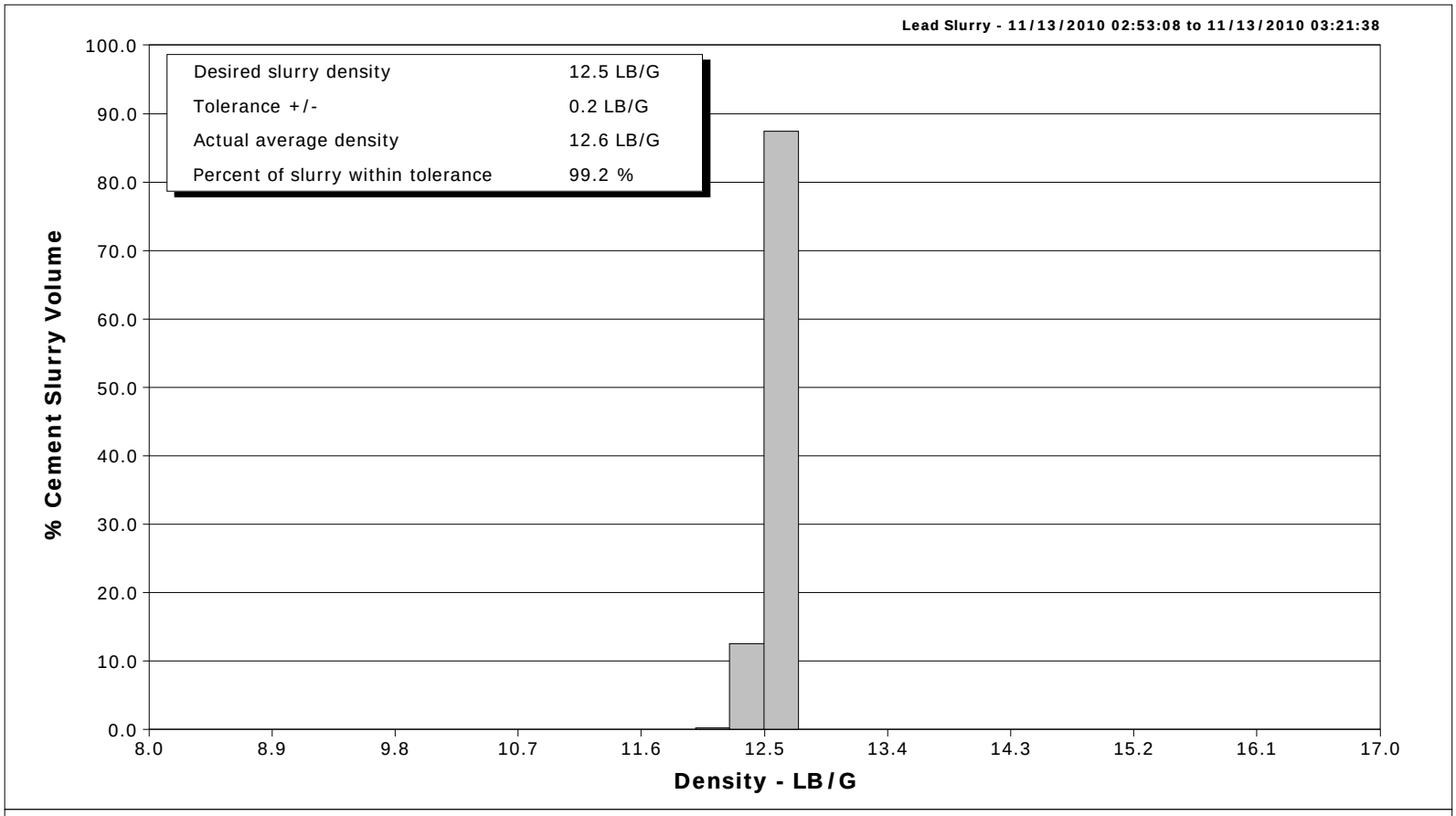
Cementing Job Report

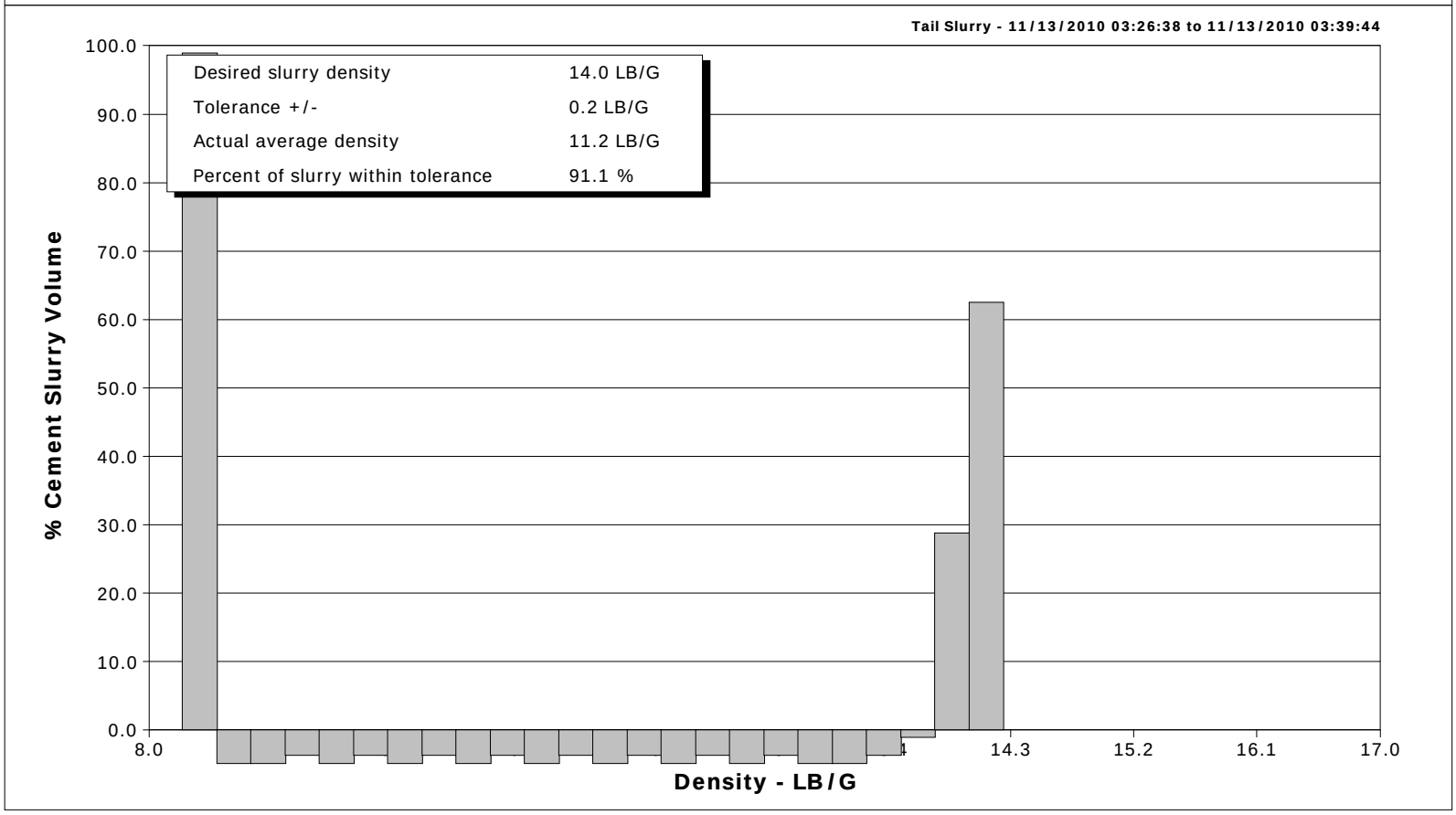
Well	Kimball Mtn DH02-6 B07 799	**Client**	Encana
Field	N. DeBeque	**SIR No.**	446144
Engineer	Dustin Cyrus Krueger	**Job Type**	10 3/4 Surface
Country	United States	**Job Date**	11-13-2010



Schlumberger Cementing Qa/Qc Density Report

Well	Kimball Mtn DH02-6 B07 799	**Client**	Encana
Field	N. DeBeque	**SIR No.**	446144
Engineer	Dustin Cyrus Krueger	**Job Type**	10 3/4 Surface
Country	United States	**Job Date**	11-13-2010





Cementing Service Report

Customer	Job Number
Encana	446144

Well	Location (legal)	Schlumberger Location	Job Start
Kimball Mtn DH02-6 B07 799 Kimball Mtn DH02-6 B07 799	B07 799	Grand Junction	Nov/13/2010

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
N. DeBeque	Shale	0 deg	14.8 in	1850.0 ft	1829.0 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Garfield	Colorado		115 degF	89 degF	

Well Master	API/UWI
0631224461	

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	8.70 lb/gal	11.000 cP

Service Line	Job Type
Cementing	10 3/4 Surface

Max. Allowed Tub. Press	Max. Allowed Ann. Press	WH Connection
2000 psi	500 psi	10 3/4

Service Instructions

Cement 10 3/4" Surface Casing

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
120.0	20.000	94.0	N/A	N/A
1829.0	10.750	40.5	K55	BUSC

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	175.3 bbl		

Tubing Vol.	Casing Vol.	Annular Vol.	Openhole Vol.
	179.4 bbl	198.0 bbl	395.0 bbl

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

Lift Pressure	Pipe Rotated	Pipe Reciprocated
816 psi	☐	☐

No. Centralizers	Top Plugs	Bottom Plugs
23	1	

Cement Head Type
Single

Job Scheduled For	Arrived on Location	Leave Location
Nov/13/2010 00:00	Nov/13/2010 00:00	Nov/13/2010 04:30

Casing Tools		Squeeze Job	
Shoe Type	Guide	Squeeze Type	
Shoe Depth	1829.0 ft	Tool Type	
Stage Tool Type		Tool Depth	
Stage Tool Depth		Tail Pipe Size	
Collar Type	Diff-Fill	Tail Pipe Depth	
Collar Depth	1787.0 ft	Sqz. Total Vol.	

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
11/13/2010	02:07:11					Started Acquisition
11/13/2010	02:39:11					Pre Job Safty Meeting
11/13/2010	02:39:13	-16	0.0	8.32	0.0	
11/13/2010	02:39:14					Start Job
11/13/2010	02:39:14	-16	0.0	8.32	0.0	
11/13/2010	02:39:18					2bbl fresh water
11/13/2010	02:39:18	-16	0.0	8.32	0.0	
11/13/2010	02:39:37					Pressure Test Lines
11/13/2010	02:39:37	-16	0.0	8.32	0.0	
11/13/2010	02:39:39					Low 500psi test = Good
11/13/2010	02:39:39	-16	0.0	8.32	0.0	
11/13/2010	02:39:41	-16	0.0	8.32	0.0	
11/13/2010	02:39:43					Pressure Test Lines
11/13/2010	02:39:43	-16	0.0	8.32	0.0	
11/13/2010	02:39:45					High 3500psi test = Good
11/13/2010	02:39:45	-16	0.0	8.32	0.0	
11/13/2010	02:39:52					Start Pumping Spacer
11/13/2010	02:39:52	-17	0.0	8.32	0.0	
11/13/2010	02:39:54					20bbl fresh water
11/13/2010	02:39:54					Good Returns
11/13/2010	02:39:54	-17	0.0	8.32	0.0	

Well	Field	Job Start	Customer	Job Number
all Mtn DH02-6 B07 799 Kimball Mtn DH02-6 B07 799	N. DeBeque	Nov/13/2010	Encana	446144

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
11/13/2010	02:44:41	3105	0.0	8.30	2.4	
11/13/2010	02:47:11	57	3.6	8.30	4.2	
11/13/2010	02:49:41	58	3.7	8.28	13.7	
11/13/2010	02:52:11	52	3.5	8.28	22.8	
11/13/2010	02:52:16					End Spacer
11/13/2010	02:52:16	89	4.6	10.23	23.1	
11/13/2010	02:52:19					Start Cement Slurry
11/13/2010	02:52:19	83	4.6	11.71	23.4	
11/13/2010	02:52:20					Start Mixing Scav Slurry
11/13/2010	02:52:20	87	4.6	11.71	23.4	
11/13/2010	02:52:23					Reset Total, Vol = 23.65 bbl
11/13/2010	02:52:23	83	4.3	12.39	23.7	
11/13/2010	02:53:06					End Scavenger Slurry
11/13/2010	02:53:06	82	3.6	12.46	26.3	
11/13/2010	02:53:08					Start Mixing Lead Slurry
11/13/2010	02:53:08	82	3.6	12.48	26.4	
11/13/2010	02:53:12					183bbl(488sks) of 12.5 Cement w/ CemNET
11/13/2010	02:53:12					Mud Scale Test
11/13/2010	02:53:12	81	3.6	12.50	26.6	
11/13/2010	02:53:13					Reads 12.5 ppg
11/13/2010	02:53:13	81	3.6	12.51	26.7	
11/13/2010	02:53:14					Good Returns
11/13/2010	02:53:14	81	3.6	12.51	26.7	
11/13/2010	02:54:41	96	4.0	12.68	32.2	
11/13/2010	02:57:11	124	5.1	12.62	44.3	
11/13/2010	02:59:41	184	6.7	12.57	58.4	
11/13/2010	03:02:11	197	6.7	12.58	75.1	
11/13/2010	03:04:41	179	6.7	12.53	91.7	
11/13/2010	03:07:11	171	6.7	12.55	108.4	
11/13/2010	03:09:41	164	6.7	12.45	125.2	
11/13/2010	03:12:11	193	6.7	12.55	141.9	
11/13/2010	03:14:41	185	6.7	12.49	158.6	
11/13/2010	03:17:11	176	6.7	12.52	175.3	
11/13/2010	03:19:41	90	5.3	12.48	189.7	
11/13/2010	03:21:38					End Lead Slurry
11/13/2010	03:21:38	75	4.8	12.64	199.5	
11/13/2010	03:21:39					Start Mixing Scav Slurry
11/13/2010	03:21:39	75	4.8	12.64	199.6	
11/13/2010	03:22:11	83	3.5	14.97	201.6	
11/13/2010	03:24:01					Reset Total, Vol = 185.94 bbl
11/13/2010	03:24:01	71	4.3	13.86	209.6	
11/13/2010	03:24:41	81	4.2	14.29	212.4	
11/13/2010	03:26:35					End Scavenger Slurry
11/13/2010	03:26:35	70	4.2	14.00	220.3	
11/13/2010	03:26:38					Start Mixing Tail Slurry
11/13/2010	03:26:38	69	4.2	14.00	220.5	
11/13/2010	03:26:42					76bbl(277sks) of 14.0ppg cement
11/13/2010	03:26:42					Mud scale test
11/13/2010	03:26:42	70	4.2	14.00	220.8	
11/13/2010	03:26:43					Reads 14.0ppg
11/13/2010	03:26:43	70	4.2	14.00	220.9	
11/13/2010	03:26:44					Good returns
11/13/2010	03:26:44	74	4.2	14.00	220.9	
11/13/2010	03:27:11	69	4.1	13.98	222.8	

Well	Field	Job Start	Customer	Job Number
all Mtn DH02-6 B07 799 Kimball Mtn DH02-6 B07 799	N. DeBeque	Nov/13/2010	Encana	446144

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
11/13/2010	03:32:11	71	4.3	13.87	243.9	
11/13/2010	03:34:41	70	4.3	14.00	254.7	
11/13/2010	03:37:11	39	3.5	14.03	265.3	
11/13/2010	03:37:14					Remark
11/13/2010	03:37:14	36	3.5	14.03	265.5	
11/13/2010	03:37:18					End Job
11/13/2010	03:37:18	39	3.5	14.03	265.8	
11/13/2010	03:27:11	875	0.0	8.36	455.3	
11/13/2010	03:29:41	879	0.0	8.37	455.3	
11/13/2010	03:32:11	882	0.0	8.37	455.3	
11/13/2010	03:34:41	885	0.0	8.37	455.3	
11/13/2010	03:37:11	-37	0.0	8.37	455.3	
11/13/2010	03:37:24					Stopped Acquisition
11/13/2010	03:39:44					End Tail Slurry
11/13/2010	03:39:45					End Cement Slurry
11/13/2010	03:39:51					Drop Top Plug
11/13/2010	03:39:54					Start Displacement
11/13/2010	03:39:56					175bbl of fresh water
11/13/2010	03:39:56					Good returns
11/13/2010	04:16:49					Cement to surface at 115bbl away
11/13/2010	04:16:52					60bbl cement to surface
11/13/2010	04:23:38					Bump Top Plug
11/13/2010	04:23:40					End Displacement
11/13/2010	04:23:44					held for 10min

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	6.9	259.0	0.0	20.0	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
3500	400	105	863		FreshWater	484.0 bbl	8.34 lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	Volume
	259.0 bbl	175.0 bbl	85 degF	[X]	60.0 bbl
				Washed Thru Perfs [ ]	To

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
Cody Huseby	Dustin Cyrus Krueger	-	[X] -