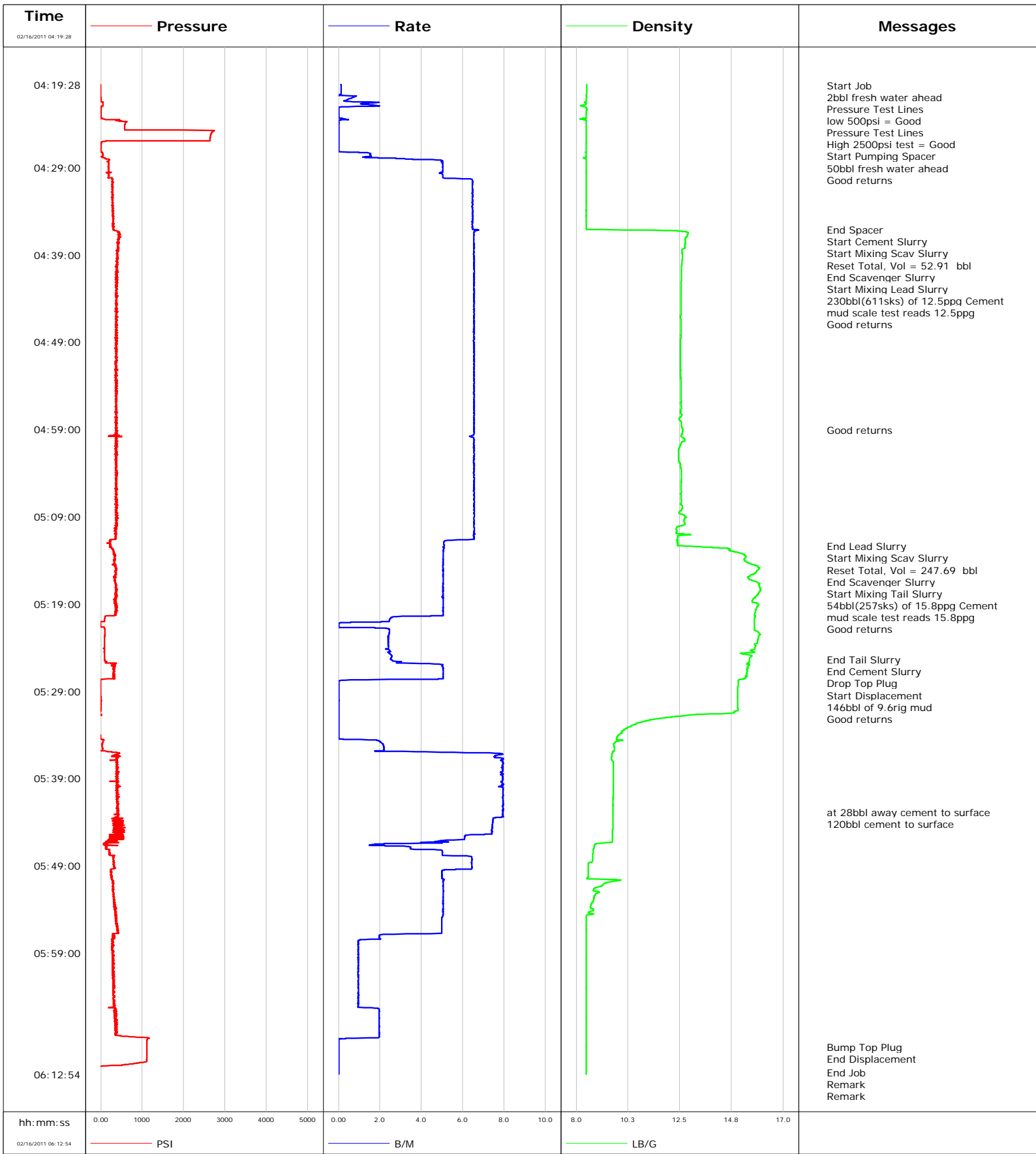


<b>Well</b>	KEINATH FEDERAL 9-14H C100	<b>Client</b>	ENCANA OIL GAS
<b>Field</b>	MAMM CREEK	<b>SIR No.</b>	000494594
<b>Engineer</b>	Dustin C Krueger	<b>Job Type</b>	1532' 10.75" Surface
<b>Country</b>	United States	<b>Job Date</b>	02-15-2011

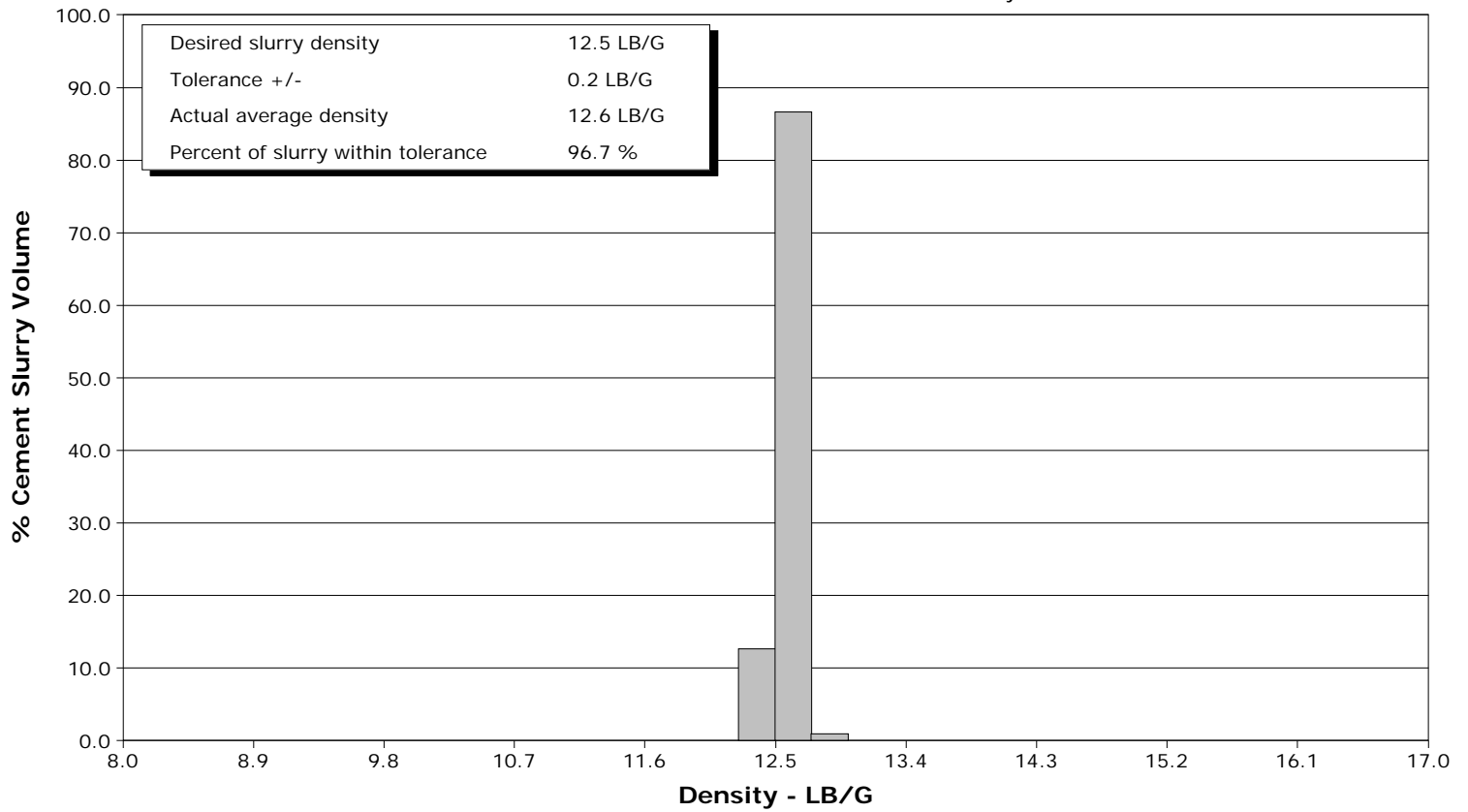


# Schlumberger Cementing Qa/Qc Density Report

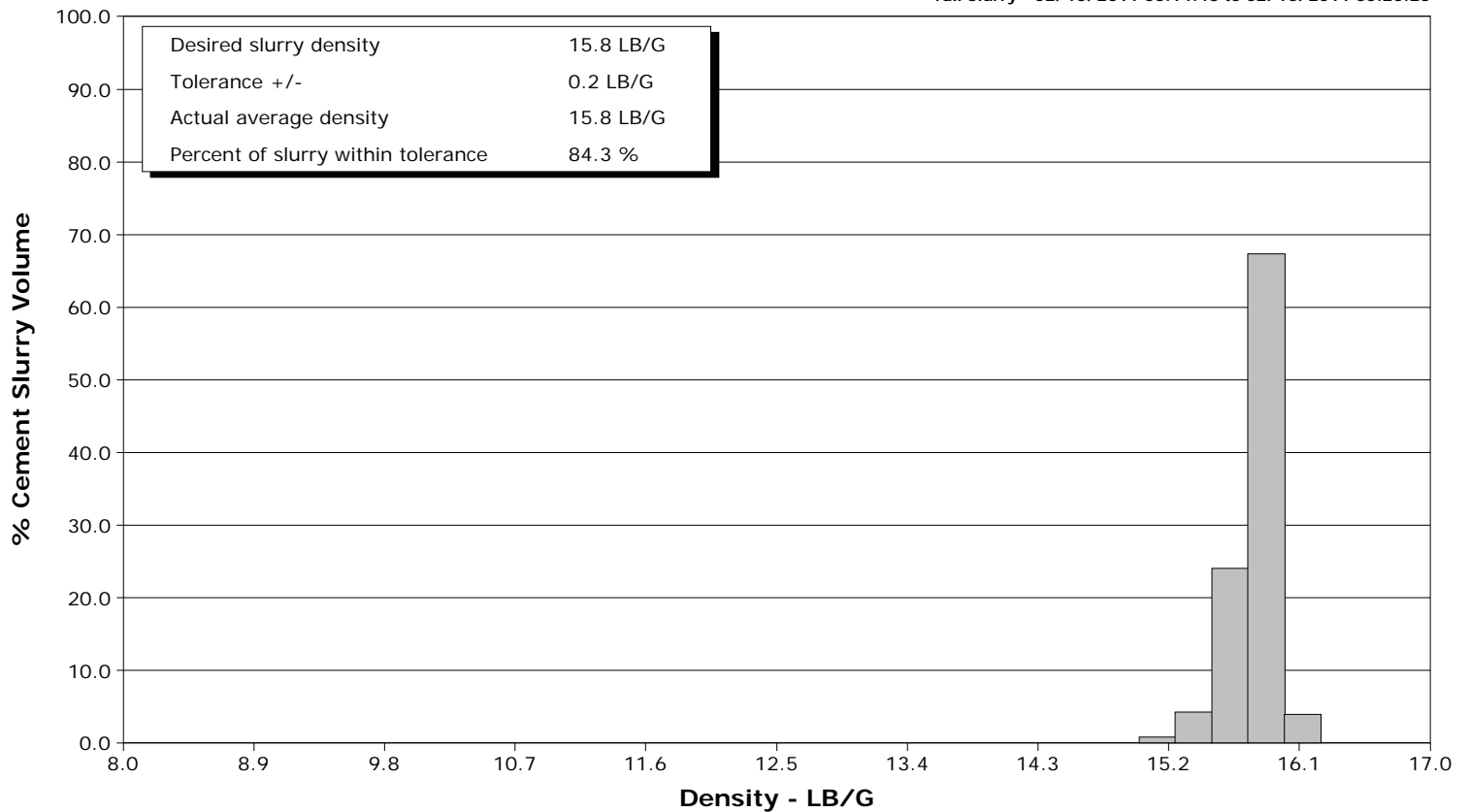
**Well** KEINATH FEDERAL 9-14H C100  
**Field** MAMM CREEK  
**Engineer** Dustin C Krueger  
**Country** United States

**Client** ENCANA OIL GAS  
**SIR No.** 000494594  
**Job Type** 1532' 10.75" Surface  
**Job Date** 02-15-2011

Lead Slurry - 02/16/2011 04:38:24 to 02/16/2011 05:12:25



Tail Slurry - 02/16/2011 05:14:43 to 02/16/2011 05:25:23





# Cementing Service Report

<b>Customer</b> ENCANA OIL & GAS	<b>Job Number</b> 000494594
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<b>Well</b> KEINATH FEDERAL 9-14H C100 KEINATH FEDERAL 9-14H C100	<b>Location (legal)</b> GRASS MESA	<b>Schlumberger Location</b> GRAND-JUNCTION	<b>Job Start</b> Feb/15/2011
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<b>Field</b> MAMM CREEK	<b>Formation Name/Type</b> Clean-Sandstone	<b>Deviation</b>	<b>Bit Size</b> 14.8 in	<b>Well MD</b> 1532.0 ft	<b>Well TVD</b> 1532.0 ft
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<b>County</b> GARFIELD	<b>State/Province</b> Colorado	<b>BHP</b>	<b>BHST</b> 100 degF	<b>BHCT</b> 85 degF	<b>Pore Press. Gradient</b>
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<b>Well Master</b> 0631231666	<b>API/UWI</b>	<b>Rig Name</b> NABORS M-11	<b>Drilled For</b> Gas	<b>Service Via</b> Land	<b>Casing/Liner</b>				
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<b>Offshore Zone</b>	<b>Well Class</b> New	<b>Well Type</b> Development	<b>Depth, ft</b> 40.0	<b>Size, in</b> 20.000	<b>Weight, lb/ft</b> 0.0	<b>Grade</b> N/A	<b>Thread</b> N/A
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<b>Drilling Fluid Type</b> Bentonite	<b>Max. Density</b> 9.60 lb/gal	<b>Plastic Viscosity</b> 12.000 cP	<b>Tubing/Drill Pipe</b>				
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<b>Service Line</b> Cementing	<b>Job Type</b> 1532' 10.75" Surface	<b>Depth,</b>	<b>Size,</b>	<b>Weight,</b>	<b>Grade</b>	<b>Thread</b>
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<b>Max. Allowed Tub. Press</b> 3000 psi	<b>Max. Allowed Ann. Press</b> 1500 psi	<b>WH Connection</b> Single Cement head	<b>Perforations/Open Hole</b>				
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<b>Service Instructions</b> Cement 10 3/4" surface casing @ 1545ft in 14 3/4" OH with 50 bbl water 230bbl(611sks) 12.5 ppq Lead 54bbl(257sks) 15.8 ppq Tail Displace 146bbl with 9.6 RIG MUD 120bbl Cement to surface						
<b>Top,</b>	<b>Bottom,</b>		<b>No. of Shots</b>	<b>Total Interval</b>		
			<b>Diameter</b>			
<b>Treat Down</b>	<b>Displacement</b> 146.1 bbl	<b>Packer Type</b>	<b>Packer Depth</b>			
<b>Tubing Vol.</b>	<b>Casing Vol.</b> 150.3 bbl	<b>Annular Vol.</b> 158.0 bbl	<b>Openhole Vol.</b> 314.0 bbl			

<b>Casing/Tubing Secured</b> <input checked="" type="checkbox"/>	<b>1 Hole Vol. Circulated prior to Cement</b> <input checked="" type="checkbox"/>	<b>Casing Tools</b>	<b>Squeeze Job</b>			
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<b>Lift Pressure</b> 689 psi	<b>Shoe Type</b> Guide	<b>Squeeze Type</b>				
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<b>Pipe Rotated</b> <input type="checkbox"/>	<b>Pipe Reciprocated</b> <input type="checkbox"/>	<b>Shoe Depth</b> 1532.0 ft	<b>Tool Type</b>			
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<b>No. Centralizers</b> 6	<b>Top Plugs</b> 1	<b>Bottom Plugs</b>	<b>Stage Tool Type</b>		<b>Tool Depth</b>	
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<b>Cement Head Type</b> Single			<b>Stage Tool Depth</b>		<b>Tail Pipe Size</b>	
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<b>Job Scheduled For</b> Feb/15/2011 19:00	<b>Arrived on Location</b> Feb/15/2011 18:45	<b>Leave Location</b> Feb/16/2011 07:00	<b>Collar Type</b> Float		<b>Tail Pipe Depth</b>	
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			<b>Collar Depth</b> 1489.0 ft		<b>Sqz. Total Vol.</b>	
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Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
02/16/2011	03:33:52					Started Acquisition
02/16/2011	03:34:18					Pre Job Safety Meeting
02/16/2011	04:19:28	-4	0.1	8.46	0.0	
02/16/2011	04:19:34					Start Job
02/16/2011	04:19:34	-5	0.1	8.46	0.0	
02/16/2011	04:19:41					2bbl fresh water ahead
02/16/2011	04:19:41	-5	0.1	8.46	0.0	
02/16/2011	04:19:47					Pressure Test Lines
02/16/2011	04:19:47	-5	0.1	8.46	0.0	
02/16/2011	04:19:49					low 500psi = Good
02/16/2011	04:19:49	-5	0.1	8.46	0.0	
02/16/2011	04:19:52					Pressure Test Lines
02/16/2011	04:19:52	-5	0.1	8.46	0.1	
02/16/2011	04:19:55					High 2500psi test = Good
02/16/2011	04:19:55	-6	0.1	8.46	0.1	
02/16/2011	04:19:57					Start Pumping Spacer
02/16/2011	04:19:57	-5	0.1	8.46	0.1	
02/16/2011	04:20:01					50bbl fresh water ahead
02/16/2011	04:20:01	-5	0.1	8.46	0.1	
02/16/2011	04:20:02					Good returns
02/16/2011	04:20:02	-6	0.1	8.46	0.1	

Well			Field	Job Start	Customer	Job Number
ATH FEDERAL 9-14H C100 KEINATH FEDERAL 9-14H C			MAMM CREEK	Feb/15/2011	ENCANA OIL & GAS	000494594
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
02/16/2011	04:23:52	598	0.0	8.44	1.4	
02/16/2011	04:26:22	11	0.0	8.44	1.4	
02/16/2011	04:28:52	191	5.0	8.44	6.9	
02/16/2011	04:31:22	287	6.5	8.43	21.1	
02/16/2011	04:33:52	280	6.5	8.43	37.2	
02/16/2011	04:36:05					End Spacer
02/16/2011	04:36:05	291	6.5	8.43	51.6	
02/16/2011	04:36:06					Start Cement Slurry
02/16/2011	04:36:06	291	6.6	8.50	51.7	
02/16/2011	04:36:08					Start Mixing Scav Slurry
02/16/2011	04:36:08	300	6.7	9.13	51.9	
02/16/2011	04:36:17					Reset Total, Vol = 52.91 bbl
02/16/2011	04:36:17	384	6.6	12.52	52.9	
02/16/2011	04:36:22	407	6.6	12.77	53.5	
02/16/2011	04:38:23					End Scavenger Slurry
02/16/2011	04:38:23	423	6.5	12.60	66.6	
02/16/2011	04:38:24					Start Mixing Lead Slurry
02/16/2011	04:38:24	423	6.5	12.59	66.8	
02/16/2011	04:38:26					230bbl(611sks) of 12.5ppg Cement
02/16/2011	04:38:26	392	6.5	12.59	67.0	
02/16/2011	04:38:27					mud scale test reads 12.5ppg
02/16/2011	04:38:27	392	6.5	12.59	67.1	
02/16/2011	04:38:28					Good returns
02/16/2011	04:38:28	412	6.5	12.59	67.2	
02/16/2011	04:38:52	379	6.5	12.61	69.8	
02/16/2011	04:41:22	376	6.5	12.57	86.2	
02/16/2011	04:43:52	373	6.5	12.55	102.5	
02/16/2011	04:46:22	380	6.5	12.54	118.9	
02/16/2011	04:48:52	395	6.5	12.53	135.2	
02/16/2011	04:51:22	375	6.5	12.53	151.6	
02/16/2011	04:53:52	375	6.5	12.55	167.9	
02/16/2011	04:56:22	354	6.5	12.56	184.3	
02/16/2011	04:58:52	351	6.5	12.60	200.7	
02/16/2011	04:59:04					Good returns
02/16/2011	04:59:04	362	6.5	12.63	202.0	
02/16/2011	05:01:22	377	6.5	12.45	217.0	
02/16/2011	05:03:52	375	6.5	12.58	233.3	
02/16/2011	05:06:22	368	6.5	12.54	249.7	
02/16/2011	05:08:52	363	6.5	12.69	266.0	
02/16/2011	05:11:22	350	6.5	12.42	282.4	
02/16/2011	05:12:25					End Lead Slurry
02/16/2011	05:12:25	241	5.1	12.95	288.2	
02/16/2011	05:12:27					Start Mixing Scav Slurry
02/16/2011	05:12:27	249	5.1	13.20	288.4	
02/16/2011	05:13:52	328	5.1	15.30	295.6	
02/16/2011	05:14:41					Reset Total, Vol = 247.69 bbl
02/16/2011	05:14:41	367	5.0	15.87	299.7	
02/16/2011	05:14:42					End Scavenger Slurry
02/16/2011	05:14:42	334	5.0	15.89	299.8	
02/16/2011	05:14:43					Start Mixing Tail Slurry
02/16/2011	05:14:43	334	5.0	15.89	299.8	
02/16/2011	05:14:46					54bbl(257sks) of 15.8ppg Cement
02/16/2011	05:14:46	355	5.0	15.90	300.1	
02/16/2011	05:14:47					mud scale test reads 15.8ppg

Well		Field		Job Start		Customer		Job Number	
ATH FEDERAL 9-14H C100 KEINATH FEDERAL 9-14H C		MAMM CREEK		Feb/15/2011		ENCANA OIL & GAS		000494594	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
02/16/2011	05:14:47	367	5.0	15.89	300.2				
02/16/2011	05:16:22	333	5.1	15.70	308.2				
02/16/2011	05:18:52	362	5.1	15.74	320.8				
02/16/2011	05:21:22	-10	0.0	15.75	330.3				
02/16/2011	05:23:52	86	2.4	15.79	335.5				
02/16/2011	05:25:23					End Tail Slurry			
02/16/2011	05:25:23	88	2.5	15.53	339.2				
02/16/2011	05:25:26					End Cement Slurry			
02/16/2011	05:25:26	106	2.6	15.54	339.4				
02/16/2011	05:25:31					Drop Top Plug			
02/16/2011	05:25:31	97	2.6	15.53	339.6				
02/16/2011	05:25:35					Start Displacement			
02/16/2011	05:25:35	95	2.6	15.51	339.7				
02/16/2011	05:25:39					146bbl of 9.6rig mud			
02/16/2011	05:25:39					Good returns			
02/16/2011	05:25:39	118	2.9	15.51	339.9				
02/16/2011	05:26:22	339	5.0	15.44	343.1				
02/16/2011	05:28:52	-10	0.0	15.02	349.8				
02/16/2011	05:31:22	-12	0.0	14.87	349.8				
02/16/2011	05:33:52	-12	0.0	9.92	349.8				
02/16/2011	05:36:22	323	7.6	9.55	355.6				
02/16/2011	05:38:52	391	7.9	9.63	375.3				
02/16/2011	05:41:22	403	8.0	9.61	395.1				
02/16/2011	05:42:53					at 28bbl away cement to surface			
02/16/2011	05:42:53					120bbl cement to surface			
02/16/2011	05:42:53	415	7.9	9.60	407.2				
02/16/2011	05:43:52	542	7.5	9.59	414.8				
02/16/2011	05:46:22	436	4.0	9.47	431.8				
02/16/2011	05:48:52	312	6.5	8.52	444.1				
02/16/2011	05:51:22	304	5.0	9.09	457.5				
02/16/2011	05:53:52	326	5.1	8.63	470.1				
02/16/2011	05:56:22	421	5.0	8.44	482.6				
02/16/2011	05:58:52	316	0.9	8.44	487.6				
02/16/2011	06:01:22	304	1.0	8.44	490.0				
02/16/2011	06:03:52	319	1.0	8.44	492.4				
02/16/2011	06:06:22	376	2.0	8.44	495.8				
02/16/2011	06:08:52	1122	0.0	8.44	500.6				
02/16/2011	06:09:48					Bump Top Plug			
02/16/2011	06:09:48	1112	0.0	8.44	500.6				
02/16/2011	06:09:49					End Displacement			
02/16/2011	06:09:49	1112	0.0	8.44	500.6				
02/16/2011	06:11:22	1109	0.0	8.44	500.6				
02/16/2011	06:12:43					End Job			
02/16/2011	06:12:43	-17	0.0	8.45	500.6				
02/16/2011	06:12:49					Remark			
02/16/2011	06:12:49	-17	0.0	8.45	500.6				
02/16/2011	06:12:50					Remark			
02/16/2011	06:12:50	-17	0.0	8.45	500.6				
02/16/2011	06:14:24					Started Acquisition			

<b>Well</b> MAMM CREEK	<b>Field</b> MAMM CREEK	<b>Job Start</b> Feb/15/2011	<b>Customer</b> ENCANA OIL & GAS	<b>Job Number</b> 000494594
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### Post Job Summary

Average Pump Rates,					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate		Total Slurry 283.0	Mud 86.1	Spacer 50.0	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 3000	Final 700	Average 250	Bump Plug to 1000	Breakdown 251	Type FreshWater	Volume 341.0 bbl	Density 8.34 lb/gal	
Avg. N2 Percent	Designed Slurry Volume 283.0 bbl		Displacement 146.1 bbl	Mix Water Temp 75 degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume 120.0 bbl		
Customer or Authorized Representative Richard Mitchell					Schlumberger Supervisor Dustin C Krueger	Washed Thru Perfs <input type="checkbox"/>	To	Job Completed <input checked="" type="checkbox"/>
					Circulation Lost -		-	