



10 May 2010

**FRONTIER MINING LTD**  
 (“Frontier” or the “Company”)

**New Infill Drilling Results at the Benkala Copper Project**

Frontier Mining Ltd (AIM: FML), the AIM listed gold and copper exploration and development company focused on Kazakhstan, is pleased to announce an update of results from its infill drilling programme at its 50% owned Benkala Copper development project in north-western Kazakhstan. Benkala is managed by KazCopper LLP (“KazCopper”), the joint-venture company.

As previously announced in 2009 and early 2010, KazCopper undertook a 54 hole (approximately 6,700 meters) drilling program primarily designed to confirm the oxide zone of the Benkala deposit, which will enable KazCopper to utilise conventional SX-EW processing technology. Of the 54 holes, 48 holes were drilled to depths of 33 to 200 meters (with approximately 4,800 meters drilled in oxide ore) and six holes were drilled to depths of 230 – 350 meters (with approximately 1,800 meters drilled in primary ore).

Over 4,500 assay samples were collected during the drilling program and sent to the Geoplazma laboratory in Kazakhstan. Independent sampling checks are being carried out by the Alex Stewart laboratory in Kyrgyzstan. As of 4 May, 2010, KazCopper has received assay results for 8 holes. The results are summarised below, based on a 0.25% cut off grade. Full assay results are presented in the table at the end of this release.

Drill Hole	Interval (Meters)	% Copper
111-4	19.5	0.74
115-3	6.0	0.58
115-5	44.0	0.60
115-8	10.5	0.33
116-6	31.0	0.55
117-5	45.5	0.92
117-5	27.0	0.59
117-6	33.5	0.52
Total	227.0	
Average Grade		0.63

Note: % M\* = Interval meters x % copper

As shown in the table below, the results from the first eight holes indicate slightly higher (0.63%) copper grades compared to the historical (Soviet 1976-1980) drilling data which indicated an average copper content for the Benkala deposit of 0.55%.

	Avg. Interval (Meters)	Avg. Copper %
8 New Frontier Drill Holes	28.38	0.63
Comparable Historical Soviet (1976-1980) Results	25.54	0.55

Erlan Sagadiev, CEO of Frontier Mining commented: "Now that we are entering the production phase, we are pleased to see that these positive results continue to demonstrate the quality of the Benkala deposit. With 63% recovery in the lab tests, the ability to process the oxide cap of the deposit through conventional SX/EW processing reinforces our decision to use this technology and further supports our overall business strategy for initial production in 2011."

The Company will continue to provide updates on its drilling results and development activities at Benkala as they become available.

### Qualified Person's Declaration

The information in this announcement that relates to drilling results is based on information compiled by and reviewed by Brian Savage, Director. Mr. Savage has a BSc in Mining Engineering and MSc in Mineral Economics from the Colorado School of Mines. He has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration, and to the type of activity which he is undertaking to qualify as a Qualified Person as defined in the March 2006 Edition of the AIM Guidance Note for Mining, Oil and Gas Companies. He consents to the inclusion in the announcement of the matters based on his information in the form and context in which they appear and confirms that this information is accurate and not false or misleading.

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### Notes to Editors:

Full Assay results are presented in the following table:

Drill Hole	Sample	Interval (Meters)		Cut off grade 0.25%		
		From	to	Length, meters	Cu, (%)	M*%
111-4	3622	40.50	42.00	1.50	0.29	0.44
111-4	3623	42.00	43.50	1.50	0.67	1.00
111-4	3624	43.50	45.00	1.50	1.08	1.62
111-4	3625	45.00	46.50	1.50	1.05	1.58
111-4	3627	46.50	48.00	1.50	1.21	1.82
111-4	3628	48.00	49.50	1.50	1.76	2.64
111-4	3629	49.50	51.00	1.50	0.74	1.11
111-4	3630	51.00	52.50	1.50	0.63	0.94
111-4	3631	52.50	54.00	1.50	0.32	0.49
111-4	3632	54.00	55.50	1.50	0.78	1.17
111-4	3633	55.50	57.00	1.50	0.43	0.64
111-4	3634	57.00	58.50	1.50	0.34	0.51
111-4	3635	58.50	60.00	1.50	0.31	0.46
<b>Total</b>				<b>19.50</b>		<b>14.41</b>
<b>Average</b>					<b>0.74</b>	
115-3	2955	33.00	34.50	1.50	0.59	0.89
115-3	2956	34.50	36.00	1.50	0.49	0.74
115-3	2957	36.00	37.50	1.50	0.92	1.37
115-3	2958	37.50	39.00	1.50	0.32	0.47
<b>Total</b>				<b>6.00</b>		<b>3.48</b>
<b>Average</b>					<b>0.58</b>	

115-5	2703	38.00	39.50	1.50	0.45	0.67
115-5	2704	39.50	41.00	1.50	0.66	0.99
115-5	2705	41.00	42.50	1.50	1.01	1.52
115-5	2706	42.50	44.00	1.50	1.17	1.76
115-5	2707	44.00	45.50	1.50	1.56	2.34
115-5	2709	45.50	47.00	1.50	0.78	1.17
115-5	2710	47.00	48.50	1.50	0.76	1.14
115-5	2711	48.50	50.00	1.50	0.73	1.09
115-5	2712	50.00	51.50	1.50	0.73	1.10
115-5	2713	51.50	53.00	1.50	0.84	1.26
115-5	2714	53.00	54.50	1.50	0.72	1.08
115-5	2715	54.50	56.00	1.50	0.69	1.04
115-5	2716	56.00	57.50	1.50	1.15	1.73
115-5	2717	57.50	59.00	1.50	0.84	1.26
115-5	2719	59.00	60.50	1.50	0.70	1.04
115-5	2720	60.50	62.00	1.50	0.50	0.75
115-5	2721	62.00	63.50	1.50	0.26	0.39
115-5	2722	63.50	65.00	1.50	0.17	0.25
115-5	2723	65.00	66.50	1.50	0.31	0.46
115-5	2724	66.50	68.00	1.50	0.22	0.33
115-5	2725	68.00	69.50	1.50	0.37	0.55
115-5	2726	69.50	71.00	1.50	0.34	0.50
115-5	2727	71.00	72.50	1.50	0.28	0.43
115-5	2729	72.50	74.00	1.50	0.32	0.48
115-5	2730	74.00	75.50	1.50	0.31	0.47
115-5	2731	75.50	77.00	1.50	0.57	0.86
115-5	2732	77.00	78.50	1.50	0.49	0.74
115-5	2733	78.50	80.00	1.50	0.23	0.35
115-5	2734	80.00	82.00	2.00	0.26	0.52
<b>Total</b>				<b>44.00</b>	<b>26.27</b>	
<b>Average</b>					<b>0.60</b>	
115-8	2351	32.50	34.00	1.50	0.34	0.51
115-8	2352	34.00	35.50	1.50	0.32	0.48
115-8	2353	35.50	37.00	1.50	0.44	0.66
115-8	2354	37.00	38.50	1.50	0.33	0.49
115-8	2355	38.50	40.00	1.50	0.31	0.46
115-8	2357	40.00	41.50	1.50	0.32	0.48
115-8	2358	41.50	43.00	1.50	0.28	0.43
<b>Total</b>				<b>10.50</b>	<b>3.50</b>	
<b>Average</b>					<b>0.33</b>	
116-5	1181	26.00	28.00	2.00	0.37	0.74
116-5	1182	28.00	30.00	2.00	0.48	0.96
116-5	1183	30.00	32.00	2.00	0.51	1.02
116-5	1184	32.00	34.00	2.00	0.24	0.48
116-5	1185	34.00	36.00	2.00	0.36	0.73
<b>Total</b>				<b>10.00</b>	<b>3.93</b>	
<b>Average</b>					<b>0.39</b>	
116-6	1021	38.00	39.50	1.50	0.46	0.69
116-6	1022	39.50	41.00	1.50	0.22	0.34
116-6	1023	41.00	42.50	1.50	0.11	0.16
116-6	1024	42.50	44.00	1.50	0.36	0.54
116-6	1025	44.00	45.70	1.70	0.60	1.01
116-6	1026	45.70	47.00	1.30	0.65	0.84
116-6	1027	47.00	48.50	1.50	0.99	1.49
116-6	1028	48.50	50.00	1.50	0.71	1.06

116-6	1029	50.00	51.50	1.50	0.61	0.92
116-6	1030	51.50	53.00	1.50	0.60	0.89
116-6	1031	53.00	54.50	1.50	0.60	0.89
116-6	1032	54.50	56.00	1.50	0.85	1.27
116-6	1033	56.00	57.50	1.50	0.54	0.80
116-6	1034	57.50	59.00	1.50	0.50	0.75
116-6	1035	59.00	60.50	1.50	0.60	0.90
116-6	1036	60.50	62.00	1.50	0.50	0.75
116-6	1037	62.00	63.50	1.50	0.59	0.88
116-6	1038	63.50	65.00	1.50	0.50	0.76
116-6	1039	65.00	66.50	1.50	0.55	0.83
116-6	1040	66.50	68.00	1.50	0.46	0.69
116-6	1041	68.00	69.00	1.00	0.51	0.51
<b>Total</b>				<b>31.00</b>	<b>16.97</b>	
<b>Average</b>					<b>0.55</b>	
117-5	2107	38.50	40.00	1,50	0.70	1.05
117-5	2108	40.00	41.50	1,50	1.36	2.04
117-5	2109	41.50	43.00	1,50	0.87	1.30
117-5	2110	43.00	44.50	1,50	0.98	1.47
117-5	2111	44.50	46.00	1,50	1.38	2.07
117-5	2113	46.00	47.50	1,50	1.30	1.95
117-5	2114	47.50	49.00	1,50	1.62	2.43
117-5	2115	49.00	50.50	1,50	2.01	3.02
117-5	2116	50.50	52.00	1,50	1.71	2.57
117-5	2117	52.00	53.50	1,50	1.25	1.88
117-5	2118	53.50	55.00	1,50	1.26	1.89
117-5	2119	55.00	56.50	1,50	1.54	2.31
117-5	2120	56.50	58.00	1,50	1.07	1.61
117-5	2121	58.00	59.50	1,50	1.43	2.15
117-5	2123	59.50	61.00	1,50	1.44	2.16
117-5	2124	61.00	62.50	1,50	1.02	1.53
117-5	2125	62.50	64.00	1,50	0.58	0.87
117-5	2126	64.00	65.50	1,50	0.49	0.73
117-5	2127	65.50	67.00	1,50	0.54	0.81
117-5	2128	67.00	68.50	1,50	0.43	0.65
117-5	2129	68.50	70.80	2,30	0.47	1.08
117-5	2130	70.80	72.00	1,20	0.80	0.95
117-5	2131	72.00	73.50	1,50	1.10	1.65
117-5	2133	73.50	75.00	1,50	0.62	0.94
117-5	2134	75.00	76.50	1,50	0.49	0.74
117-5	2135	76.50	78.00	1,50	0.26	0.39
117-5	2136	78.00	79.50	1,50	0.23	0.34
117-5	2137	79.50	81.00	1,50	0.21	0.32
117-5	2138	81.00	82.50	1,50	0.30	0.44
117-5	2139	82.50	84.00	1,50	0.44	0.66
<b>Total</b>				<b>45.50</b>	<b>41.97</b>	
<b>Average</b>					<b>0.92</b>	
117-5	2209	177.00	178.50	1.50	0.31	0.47
117-5	2210	178.50	180.00	1.50	0.64	0.97
117-5	2211	180.00	181.50	1.50	0.51	0.76
117-5	2213	181.50	183.00	1.50	0.61	0.92

117-5	2214	183.00	184.50	1.50	0.55	0.82
117-5	2215	184.50	186.00	1.50	0.51	0.77
117-5	2216	186.00	187.50	1.50	0.66	0.99
117-5	2217	187.50	189.00	1.50	0.57	0.85
117-5	2218	189.00	190.50	1.50	0.47	0.70
117-5	2219	190.50	192.00	1.50	0.52	0.78
117-5	2220	192.00	193.50	1.50	0.84	1.27
117-5	2221	193.50	195.00	1.50	0.71	1.06
117-5	2223	195.00	196.50	1.50	0.63	0.95
117-5	2224	196.50	198.00	1.50	0.59	0.88
117-5	2225	198.00	199.50	1.50	0.59	0.89
117-5	2226	199.50	201.00	1.50	0.48	0.72
117-5	2227	201.00	202.50	1.50	0.78	1.17
117-5	2228	202.50	204.00	1.50	0.60	0.90
<b>Total</b>				<b>27.00</b>	<b>15.86</b>	
<b>Average</b>					<b>0.59</b>	
117-6	3526	42.50	44.00	1,50	0.28	0.41
117-6	3527	44.00	45.50	1,50	0.37	0.56
117-6	3529	45.50	47.00	1,50	0.41	0.62
117-6	3530	47.00	48.50	1,50	0.70	1.04
117-6	3531	48.50	50.00	1,50	0.92	1.37
117-6	3532	50.00	51.50	1,50	0.62	0.92
117-6	3533	51.50	53.00	1,50	0.46	0.68
117-6	3534	53.00	54.50	1,50	0.51	0.76
117-6	3535	54.50	56.00	1,50	0.48	0.72
117-6	3536	56.00	57.50	1,50	0.66	0.99
117-6	3537	57.50	59.00	1,50	0.75	1.13
117-6	3539	59.00	60.50	1,50	0.41	0.62
117-6	3540	60.50	62.00	1,50	0.53	0.80
117-6	3541	62.00	63.50	1,50	0.59	0.88
117-6	3542	63.50	65.00	1,50	0.31	0.47
117-6	3543	65.00	66.50	1,50	0.32	0.49
117-6	3544	66.50	68.00	1,50	0.46	0.70
117-6	3545	68.00	69.50	1,50	0.60	0.90
117-6	3546	69.50	71.30	1,80	0.62	1.12
117-6	3547	71.30	73.00	1,70	0.57	0.96
117-6	3549	73.00	74.50	1,50	0.49	0.73
117-6	3550	74.50	76.00	1,50	0.38	0.56
<b>Total</b>				<b>33.50</b>	<b>17.42</b>	
<b>Average</b>					<b>0.52</b>	

Note: % M\* = Interval meters x % copper

### About Frontier Mining Ltd:

Frontier Mining Ltd. is a mineral exploration and development Company that was incorporated in the state of Delaware, USA, on 5 August 1998 for the purpose of exploring and developing gold and copper deposits in the Republic of Kazakhstan. Through its subsidiaries and affiliates, Frontier locates, evaluates, acquires, explores and develops mineral properties.

Frontier currently owns two licenses in Kazakhstan. They are the Naimanjal exploration and mining licence, held by FML Kazakhstan, and, 50% of U.S. Megatech BVI which holds the Benkala licence. FML Kazakhstan is a wholly-owned subsidiary of Frontier Mining Ltd. Frontier has one producing

gold mine, Naimanjal; one pre-feasibility stage gold project, Koskuduk; and the recently acquired 50% interest in the Benkala copper mine.

Frontier also has a potential copper porphyry deposit with associated gold and molybdenum, Baitimir; and several copper/gold prospects along a 25-km trend including both VMS and porphyry types. Metallurgical tests on its Beschoku and Yubileiny copper projects confirm the oxide copper ore is amenable to extraction using low cost SX-EW technology.

Frontier owns a 50% interest in KazCopper LLP, the joint venture company that owns the Benkala copper-molybdenum-gold deposit located in north-western Kazakhstan within the Urals gold/copper ore belt. A Competent Persons Report ("CPR") on the Benkala project completed by Wardell Armstrong International ("WAI") in March 2007 estimated 47.75 Mt at an average grade of 0.36% Copper ("Cu") for the oxide mineralization, and 873.75 Mt at an average grade of 0.30% Cu for the sulphide mineralisation, representing some 2.8 million tonnes of contained copper, and at a 10% Discount Rate and a \$1.5/lb Cu price, the Benkala Project has an NPV approaching \$500M. A conceptual study team and advisory team have both been appointed to fast track the development of this project forward towards a pre- feasibility study, with a view to beginning production in 2011.

### **Issued Share Capital**

Frontier Mining's shares are traded on the AIM market of the London Stock Exchange.

Frontier now has 917,336,219 issued and 21,812,009 reserved options giving 939,148,228 fully diluted ordinary shares.

For further information please visit; [www.frontiermining.com](http://www.frontiermining.com)