



Pele Mountain Advances Eco Ridge Mine Project

Extensive Drill Program Returns Positive Results

Symbol: **GEM**

Listing: TSX Venture Exchange

Common Shares Outstanding: 90,900,278

FOR IMMEDIATE RELEASE

January 9, 2009 – Toronto – **Pele Mountain Resources Inc. (TSX Venture: GEM)** (“**Pele**” or the “**Company**”) today announced drill results from its Eco Ridge Mine Project in the historic Elliot Lake uranium mining camp of Northern Ontario. Since its last drilling update in March 2008, Pele has completed an additional 84 holes, totaling nearly 15,000 metres. The program included both in-fill and step-out drilling, along with additional drilling to acquire core for metallurgical testing, to identify a site for a bulk sample, to test ground conditions beneath an area proposed for processing facilities, and to acquire hydro-geological data required for the mine permitting process.

With its excellent regional infrastructure, well-understood geology, and politically-stable and mining-friendly jurisdiction, Elliot Lake is an ideal location for the development of a long-term uranium supply. Pele’s 100-percent owned Eco Ridge Mine property contains a NI 43-101 compliant resource of 6.4 million pounds of “indicated” U₃O₈ (5.68 million tonnes grading 0.051 percent U₃O₈) and 36.1 million pounds of “inferred” U₃O₈ (37.26 tonnes grading 0.044 percent U₃O₈) with the potential for significant expansion. More than 300 million pounds of U₃O₈ were mined from similar deposits near Elliot Lake by Rio Algom and Denison Mines from 1956 to 1996.

Pele commenced the permitting process for the Eco Ridge Mine by filing a Project Description (see Pele website at www.pelemountain.net) with the Canadian Nuclear Safety Commission and the Federal Government’s Major Project Management Office. (See Pele press release dated September 8, 2008.) The document details Pele’s approach to the sustainable development of uranium operations at Eco Ridge. Since the release of that document, Pele also announced the postponement of its pre-feasibility study and certain components of the permitting process as cost-cutting measures, in response to difficult market conditions. (See Pele press release dated October 28, 2008.) Other aspects of development continue to advance at the project.

Most of the newly-reported holes are from in-fill drilling within the Adit Block, a near-surface area of relatively higher-grade mineralization within the Main Conglomerate Bed (“MCB”) that presents a favorable location for initial mining and areas to the north and east of the Adit Block. The MCB, which contains the higher grade uranium mineralization outcrops on the property and extends over a strike length of 6,000 meters. The uranium mineralization has been intersected in holes at a depth of 1,000 meters and over a dip length of about 3,800 meters. The drilling provided further confirmation of uranium mineralization continuity and delineated relatively higher-grade trends that run from southeast to northwest and which remain open. The in-fill drill program was designed by SRK Consulting to create a block model for mine design purposes.

Drill holes PM08-100, 101 and 108 were step-outs that successfully intersected the projected northwest trend of relatively higher grade uranium mineralization. This trend extends out from the region of higher density drilling of the Adit Block. PM08-108, located beyond the boundaries of the NI 43-101 compliant resource, returned 0.072% U₃O₈ over 2.48 metres, once again confirming outstanding potential for resource expansion downdip and towards the north-west.

Drill holes PM08-105, 106, 107, 109-115, and 117-119 provided approximately 200 kilograms of core for metallurgical testing by SGS Lakefield Research for processing circuit design and by MIRARCO for closure study purposes. Drill holes PM08-165 and 166 were located near the deposit outcrop to identify a site for the extraction of a 35-tonne bulk sample for additional metallurgical testing.

Drill Results – Main Conglomerate Bed- Adit Block & Extensions to North & East

Hole ID	From (m)	Length (m)	Est. True Width (m)	U ₃ O ₈ (%)
PM08-83	240.07	2.85	2.47	0.056
PM08-84	234.69	2.36	2.19	0.025
PM08-85	207.22	2.59	2.50	0.037
PM08-86	192.65	1.56	1.51	0.035
PM08-87	198.39	2.58	2.49	0.043
PM08-89*	237.48	2.52	2.49	0.112
PM08-90*	317.80	1.75	1.72	0.010
PM08-100	299.28	2.82	2.72	0.059
PM08-101	309.62	2.58	2.50	0.056
PM08-105	22.30	2.80	2.54	0.045
PM08-106	21.80	2.56	2.55	0.040
PM08-107	24.12	2.54	2.45	0.035
PM08-108*	335.33	2.59	2.48	0.072
PM08-109	42.70	5.25	2.46	0.052
PM08-110	41.96	7.94	3.72	0.058
PM08-111	138.80	4.60	2.51	0.062
PM08-112	143.40	9.30	5.07	0.048
PM08-113	113.30	5.10	2.78	0.061
PM08-114	111.00	6.40	3.49	0.046
PM08-115	110.76	5.16	2.81	0.068
PM08-116	105.63	4.38	2.39	0.041
PM08-117	70.30	5.70	2.67	0.082

PM08-118	75.20	5.50	2.58	0.065
PM08-119	65.05	5.25	2.46	0.078
PM08-124	83.03	3.64	3.63	0.048
PM08-125	56.98	3.09	3.08	0.076
PM08-126	164.56	2.16	2.15	0.040
PM08-127	146.84	2.46	2.42	0.051
PM08-128	135.74	2.60	2.60	0.047
PM08-130	88.41	2.40	2.39	0.041
PM08-131	98.61	2.58	2.57	0.034
PM08-132	58.40	4.17	3.72	0.046
PM08-133	225.67	2.27	2.26	0.029
PM08-134	126.54	2.17	2.16	0.038
PM08-135	186.45	2.61	2.45	0.033
PM08-136	211.23	2.18	2.05	0.042
PM08-137	63.64	2.45	2.44	0.040
PM08-138	75.40	3.35	3.33	0.043
PM08-139	108.54	3.15	3.13	0.046
PM08-141	191.13	2.17	1.90	0.037
PM08-142	185.50	2.43	2.42	0.045
PM08-143	241.71	3.06	3.05	0.027
PM08-144	185.10	1.33	1.32	0.038
PM08-145	294.42	2.51	2.50	0.035
PM08-146	236.91	2.76	2.75	0.042
PM08-147	150.50	2.53	2.53	0.041
PM08-148	237.24	2.63	2.63	0.037
PM08-149	176.03	2.49	2.48	0.040
PM08-150	242.88	3.37	3.36	0.044
PM08-151	165.50	3.30	3.29	0.046
PM08-152	295.28	2.45	2.43	0.058
PM08-153	192.91	2.86	2.85	0.057
PM08-154	275.89	2.31	2.30	0.050
PM08-155	181.28	2.77	2.76	0.071

PM08-156	232.22	2.66	2.65	0.034
PM08-157	220.38	2.44	2.42	0.062
PM08-158	265.00	2.71	2.70	0.040
PM08-159	188.85	2.66	2.65	0.064
PM08-160	253.40	2.40	2.40	0.053
PM08-161	165.09	2.99	2.98	0.051
PM08-162	208.48	2.55	2.54	0.051
PM08-163	140.05	2.67	2.51	0.027
PM08-164	268.92	2.45	2.44	0.059
PM08-165	1.89	3.14	3.13	0.051
PM08-166	3.47	3.45	3.44	0.050

* designed to test airborne geophysical anomalies

This press release has been reviewed and approved by Fergus Kerr P. Eng., Vice President Uranium Operations for the Company and a Qualified Person under NI 43-101.

About Pele Mountain Resources

Pele Mountain Resources is focused on the sustainable development of its Eco Ridge Mine uranium project in the historic Elliot Lake mining camp. The Company is developing a safe, secure, and reliable long-term source of uranium in order to deliver lasting benefits to local communities and its shareholders. Pele also holds a diverse portfolio of gold, diamond, and base metal projects in Northern Ontario. Pele stock is listed on the TSX Venture Exchange under the symbol "GEM".

For further information please contact Al Shefsky, President, at (800) 315-7353, or visit the Pele website at www.pelemountain.com.

The TSX-V has not reviewed and does not accept responsibility for the adequacy or accuracy of this release. Some of the statements contained in this release are forward-looking statements, such as estimates and statements that describe Pele's future plans, objectives or goals, including words to the effect that Pele or management expects a stated condition or result to occur. Since forward-looking statements address future events and conditions, by their very nature, they involve inherent risks and uncertainties. Actual results in each case could differ materially from those currently anticipated in such statements. The economic viability of the 43-101 mineral resource at Pele's Eco Ridge Mine Project has not yet been demonstrated by a pre feasibility study.