



## **Drilling started on Dempster Lake Gold Property in the Meen-Dempster Greenstone Belt, 19km SE of Golden Patricia Mine, Northwestern Ontario**

*Kirkland lake, Ontario, February 22, 2011 - RJK Explorations Ltd., (RJX.A: TSV) ("RJK") announces that drilling has now begun at the Dempster Lake Gold property in Northwestern Ontario, located southwest of Pickle Lake and just 19km southeast of Barrick's Golden Patricia Mine, whose output was 1.14 million tons grading 0.58 ounces/ton (19.8 g/t Au) producing 635,000 oz Au.*

### **RJK's Dempster Lake Gold property has two initial target areas:**

#### **Lower Dempster Lake Target**

(1) a lake-covered zone of strong iron carbonate alteration, the Dempster Lake Shear Zone ("DLSZ") at Lower Dempster Lake, with massive replacement ferroan dolomite outcrops on the lake shore. The DLSZ as a zone of intensive shearing runs E-NE through the center of this small lake. This is the same iron-carbonate that is associated as veining with the Pickle Crow mine mineralization at Pickle Lake and that occurs as a pervasive zone of iron carbonate within the mine trend that encloses the prolific Campbell and Red Lake (Dickenson) mines at Red Lake. The DLSZ is structurally similar to the Bear Head Fault in central Uchi subprovince that hosts the Golden Patricia mine deposit, according to the Ontario Geological Survey's regional report,

(2) there is a transpressional dilational bend on the DLSZ (similar to the Hemlo transpressional bend) in the area of the iron carbonate which is within the target area. Interestingly, the sinistral transpressional shear zone or restraining bend at Hemlo is a 20-degree dogleg bend compared with about a 20 to 25-degree dogleg bend at Lower Dempster Lake. Such structures are ideal for the transmission of hydrothermal gold in carbonate-rich fluids in permeable dilation zones from great depths during the late Archean period of gold deposition in Ontario.

(3) there is carbonate alteration in the mafic volcanics extending 1,600 m across strike in this target area and ferrodolomite hydrothermal rock being proximal to the DLSZ over an interpreted width of 220 m suggesting a target like the "Mine Trend" at Red lake or the Eskay Creek deposit,

(4) there are 52 anomalous humus gold sample sites immediately on the southern side of this target zone extending over 1,600 m on strike and 250-300 m across strike on the south side of Lower Dempster Lake with values up to 140 ppb gold.

#### **Arrowhead Lake Target**

(5) some 2.4 kilometers to the west-northwest of this target zone is a second target zone called the Arrowhead Lake zone. This drill target is defined by a second humus gold target overlying a swamp with high anomalous gold values ranging from 10 to 55 ppb gold over a 100-meter width coincident with a magnetic low and HLEM conductor. The peak gold in humus values of 50 and 55 ppb gold are as high as the peak 55 ppb gold value in humus reported over the Page Williams mine's ore body at Hemlo as reported by Fortescue of the Ontario Geological Survey. Both the Ontario Gold Joint Venture during the 1980's and Cochenour Willans Gold Mines Ltd. during the 1970's recommended drilling this Arrowhead Lake EM target and gold anomalous area in their Assessment File Reports, but they did not conduct the drilling as was first recommended.

Both the Lower Dempster Lake and Arrowhead Lake targets will be tested in this current drilling.

Dempster Lake Gold Property maps can be viewed at: [http://www.rjkexplorations.com/pj\\_Dempster.html](http://www.rjkexplorations.com/pj_Dempster.html)

**Update on RJK's Blackwater Gold Project, BC:** Currently, the heli-borne survey data is undergoing final interpretation to determine areas on RJK's two claim blocks for further exploration and drilling later this year.

Maps of the Blackwater Gold District can be viewed at: [http://www.rjkexplorations.com/pj\\_blackwater.htm](http://www.rjkexplorations.com/pj_blackwater.htm)

Donald Brown, Ph.D., P.Geo., is a qualified person as defined by National Instrument 43-101 and has reviewed the content of this press release.

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