



John Tugak Mineral Exploration Projects in Kivalliq Region

Mineral Claims – Fat Lake, Turquetil Lake, and
Heninga Lake

John & Corrine Tugak Projects

Huckleberry Claims & Tagak Claims

Legend

 Lake

Spi Lake

Turquetil Lake

Heninga Lake

Fat Lake

Whale Cove

Arviat

Google Earth

Image Landsat / Copernicus
Data SIO, NOAA, U.S. Navy, NGA, GEBCO



100 km



Fat Lake Gold Project

- In 2016 prospecting and mapping we retrieved 46 grab samples within 3.5 km of the property. Those samples returned 3.2 grams in gold buttons.
- The highest sample returned 96,524 ppm or 9.6% gold, on the north zone of the property
- Agnico Eagle Mine Ltd. optioned this 507 hectare property from me on June 30, 2017
- AEM to provide assessment report over this property for 2017 & onward

Fat Lake Gold Project – Previous Owner

- Borealis Exploration Ltd worked on this property from 1985 to 1989 and assessment reports are available on the Nunavut Mineral website.
- Description: An 80 metre wide diorite sill hosts 40 quartz carbonate veins. Significant proven reserves on vein 99-103 has 47,600 tons grading 11.14 g/t gold and indicated resources of 184,000 tons grading 10.53 g/t gold. The best drill hole was 1.10 m at 490 g/t, 3.12 m grading 103 g/t and 2.55m grading 40 g/t.



Turquetil Lake Gold Project

- The size of property is 576 hectares. In 2017 during prospecting & mapping we received assays up to 19.7 ppm Au. The visible alteration zone is approximately 100 metres wide containing gold, pyrite and arsenopyrite mineralization.
- Extensive drilling done during the 1980's and gave a measured resource of 500,000 tons grading 6.3 g/t gold and an estimated larger resource of 3.4 million tons grading 2.38 g/t gold. The gold bearing strike length is 940 m on the east side of the river and up to 1200 m on the west side. Gold mineralization is associated with the shear and is open along strike and at depth.

Turquetil Lake Gold Project

- Signed a Mineral Purchase Agreement with Zimtu Capital Corporation on November 23, 2017 over this property.
- Drilling by Essex in 1976 intersected 6.59 g/t Au over 13.1 metres.
- Archean-lode gold deposit with up to 100 metre (width) of alteration.
- Iron carbonate alteration zone here has been traced in mafic to intermediate mafic rocks on the east and west of this property for 13 km southwest, 10 km northward and 12 km southeast.
- In 1988 Dejour Mines Ltd drilled 64 holes totalling 10,500m on this property.



Heninga Lake Base Metal Project

Heninga Lake - Previous Exploration

- Gemex (1974) worked on this property and found three massive to semi massive sulphide zones from geophysical surveying and drilling along an anomaly on the property which extended under the lake. Within the main zone (or central zone) drilling intersected 34.5 feet of 6.84% Zn, 2.91% Cu, 3.09 opt Ag and 1 g/t gold.
- All three sulphide lenses, known as the western zone (copper rich zone), central zone (copper, zinc and silver) and eastern zone (copper and high grade silver), were drilled by Gemex.
- Geophysical surveying by St. Joseph Exploration Ltd (1975) found up to 18 anomalies. Anomaly no. 4 & 11 were found to have massive sulphide lenses.
- Drilling indicated an estimated deposit of 5.5 million tonnes grading 9% zinc, 1.3% copper, 68 g/t silver and 1 g/t gold.

Heninga Lake Property - 135 km northwest from Arviat, NU



Heninga Lake Property – 502 Hectares





Heninga Lake – Exploration 2018



Heninga Lake DDH Cores

- Includes projects for Heninga Lake deposit and nearby AB11 Zone
- DDH cores are stored beside camp area and inside the core shed.
- IN 2018 all core stacks beside the camp site were located on a hand sketched map and listed all DDH cores located.
- The majority of DDH core is neatly stacked while more than half of core, inside the core shed, has toppled over.
- Verification on some of the core sample intervals returned highest assays of up to 13% Cu, 7% Zn, 92ppm Ag, 0.48% Pb.

Assessment Reports on my Properties

- 2017 & 2018 Fat Lake assessment report by Agnico Eagle Mines Ltd.
- 2017 Turquetil Lake assessment report by John Tugak
- 2018 Turquetil Lake assessment report by Zimtu Capital Corporation
- 2017 & 2018 Heninga Lake assessment report by John Tugak

- Electronic copies available upon request at: jtugak@hotmail.com

Spi Lake Project



Spi Lake Base Metal Project by Corrine Tugak

- Assay results from grab samples in 2017 ran as high as 27.2% zinc, 11.95% copper, 10.50% lead, 44.10% iron and 57 ppm gold.
- 12,000 ft long anomaly 22 within property. They tried drilling but unable to reach bedrock due to quicksand, depth of overburden and boulders. Drilling tried within two spots with no luck down to 115 feet (report 017065). Giant Yellowknife Mines Ltd worked on this property on 1961.
- Approved MEA by NTI of up to 1201 hectares that includes anomaly 22.

Summary

Reading historical assessment reports, are both interesting and full of targets to re-explore and prospect.

My knowledge of the land has made me more interested in mineral resources.

The NPP program helped to educate me, motivate me and to fund my projects.

My opportunity to work with exploration companies has been both exciting and a good business opportunity.

Learning on legal issues and paperwork has been challenging but very educational.

Going forward

- I plan to keep working my projects and to support my daughter Corrine Tugak on her projects. The Nunavut Prospecting Program has helped to shape and support our work; and it is my hope to encourage and motivate young people to pursue prospecting and to get involved. Prospecting can lead to business opportunity and jobs for the communities.
- I would like to thank the organizers of the NMS for inviting me to present and speak.

Thank you, Nunavut Mining Symposium 2019

