Excalibur Resources Ltd. - Sturgeon Lake Property - Overview - Tue May 17, 2016

STURGEON LAKE PROPERTY

STURGEON LAKE MINING CAMP DISTRICT
NORTHWESTERN ONTARIO, CANADA

UPDATE

"Excalibur Resources Ltd. ("Excalibur" or the "Company") is pleased to announce that it has added to its web-site (www.excaliburresources.ca) a report on its Sturgeon Lake Property written by Dr. James Franklin, a distinguished geologist and recognized expert on volcanogenic massive sulfide-type (VMS) deposits. The western boundary of the Northwestern Ontario property is located approximately 10 km east of 5 past-producing VMS deposits within the Sturgeon Lake Mining Camp. This camp was active during the 1970s through to the 1990s, producing approximately 19 million tons of high-grade zinc-copper-lead-silver-gold ore.

James Franklin, PhD, FRSC, P Geo. is a "Qualified Person" for the purpose of National Instrument 43-101, and has reviewed and verified the contents of this news release....."

Click here to see news release
**Land Position**

- Staking 107 square kilometers
- The Sturgeon Lake region has good road access and infrastructure
- Located approximately 25 km east of the Sturgeon Lake mining camp district
- Sturgeon Lake is approximately 60 km north of the Trans Canada Hwy 17 at Ignace, Ontario, Canada

**History**

- District known for its Volcanogenic Massive Sulphide (VMS) ore deposits
- The site of six known high grade zinc-copper-silver ore deposits with associated lead and gold - producers until the early 1990’s
- The best known producers were the Mattabi and Sturgeon Lake Mines
- Little corporate exploration conducted in the district after 1992
- A Provincial Government geophysical survey in the early 1990’s identified extensive zones of multiple sub-parallel and stacked sulphide-bearing conductors
- Many of these sulphide-bearing conductors extend into the Company’s 8,816 hectare property as massive sulphide lenses that cumulatively exceed 100 km of strike length on the property
Overlooked in the past due to minimal outcrop exposure, and absence of modern highly effective geophysical and geochemical survey techniques

As a result past drilling is minimal to non-existent over most of the property

**Exploration Plan**

- Conduct a high-resolution VTEM ("Versatile Time-Domain Electromagnetic") survey at 100 meter line spacing, for a total of up to 1,000 line kilometers
- VTEM will be used to isolate zones of maximum sulphide accumulation along an approximately 27 kilometer belt within the property
- The best VTEM targets will be followed up with detailed ground geological work and state-of-the-art geochemical surveys
- Excalibur will review the results of exploration and drill the optimum targets

Excalibur began staking the Sturgeon Lake property after recognizing that the majority of significant geophysical conductors identified in the Sturgeon Lake camp in a 1990's government survey are located on the property being staked and that the area was never thoroughly explored. Past drilling is minimal to non-existent over most of the property. The Company has determined from historical data that surveys undertaken on the west side of the property confirm that identified geophysical conductors are sulphide rich, including the presence of massive sulphide lenses. The Excalibur property contains numerous extensive zones of multiple sub-parallel and stacked sulphide-bearing conductors that cumulatively exceed 100 km of strike length.

In addition, the identified geophysical conductors are located along strike of six mined VMS (Volcanogenic Massive Sulphide) deposits in this mineral belt. The most notable former mines in the area included operations containing high-grade zinc-copper-silver with associated lead and gold. The well-known Mattabi, Lyon Lake and Sturgeon Lake mines operated in proximity and along strike of the Company’s current property location. Due to a cyclical downturn in metal prices, the mines terminated production in the 1980's and early 1990's.

**Exploration Results**

Toronto; Excalibur Resources Ltd. (the "Company") has received positive results from a VTEM survey of its 88 km² Sturgeon Lake property in north western Ontario performed by Geotech Ltd. of Aurora, Ontario. Geotech offers full-service airborne geophysical surveys worldwide using their proprietary low frequency and large dipole moment VTEM (Versatile Time-Domain ElectroMagnetics) system, which can penetrate over 300 meters below surface. The VTEM survey of the Sturgeon Lake property has detected areas that are both high conductance and magnetic anomalies. Results of this type are similar to the electromagnetic characteristics of Volcanogenic Massive Sulphide (VMS) deposits. The Company, with the assistance of Geotech, is further analyzing the VTEM data to help identify targets to be drilled in the 2010 exploration campaign. Excalibur's Sturgeon Lake property is directly along strike and to the east of 6 VMS deposits that were mined between 1970 and 1990.

Jean Legault, Manager Data Processing and Interpretation, Geotech Ltd. of Aurora, Ontario commented: "The VTEM analysis that Geotech performed at Sturgeon Lake for Excalibur Resources identified targets with apparent size and conductance that are consistent with massive sulphide signatures. Maxwell modeling will be done on areas where the sulphides appear to be thickest and most conductive." The Maxwell modeling provides an estimate of the size, shape and dip of the conductive body, which will be used to help guide the drill program.

Dr. Hamid Mumin, Professor of Geology at Brandon University, and consultant for the project, said that "Significant geophysical targets have been identified for drilling within Excalibur's claim along strike from past-producing mines. These geophysical targets are comparable to the geophysical signatures of VMS deposits in other camps, and accentuate the high prospectivity of the property."
Sturgeon Lake Property VTEM Plots

Glitter Lake Block of Properties (Western part of property)
1. 9053_10k_2HDTMI_West: Second Horizontal Derivative of Total Magnetic Intensity with Z-Component dB/dt Calculated Time Constant (Tau) Contours
2. 9053_10k_Bfieldz_West: B-Field Z Component Profiles Time Gates 0.234ms to 6.578ms over a Total Magnetic Intensity Colour Image
3. 9053_10k_CVG_West: Calculated Vertical Magnetic Gradient (CVG)

Grid Iron Lake Block of Properties (Eastern part of property)
4. 9053_10k_2HDTMI_East: Second Horizontal Derivative of Total Magnetic Intensity with Z-Component dB/dt Calculated Time Constant (Tau) Contours
5. 9053_10k_Bfieldz_East: B-Field Z Component Profiles Time Gates 0.234ms to 6.578ms over a Total Magnetic Intensity Colour Image
6. 9053_10k_CVG_East: Calculated Vertical Magnetic Gradient (CVG)