

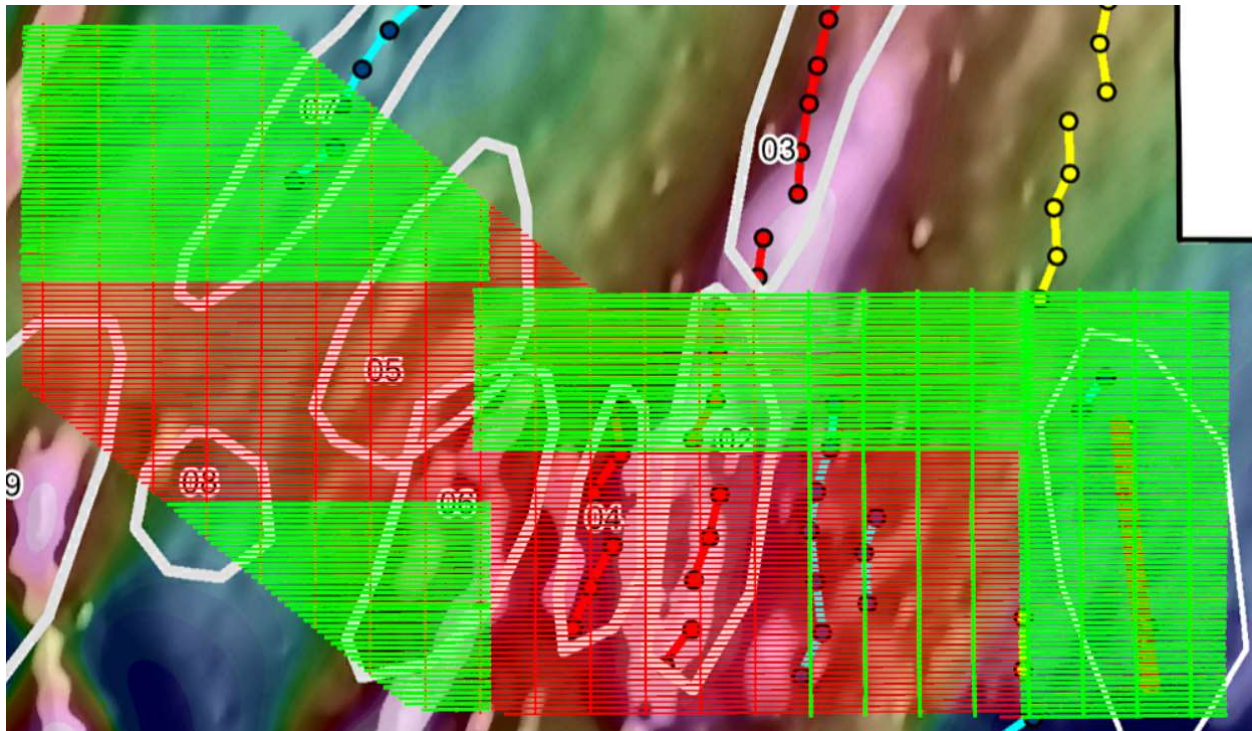


**THISTLE RESOURCES CORP.  
ANNOUNCES  
An Update @ Middle River Gold-VMS Project**

**\*\*\*\*\* FOR IMMEDIATE RELEASE \*\*\*\*\***

**BATHURST, New Brunswick, Canada – (Thursday May 13<sup>th</sup> , 2021)**

Thistle Resources Corp. ("TRC" or the "Company") is pleased to announce that the 2021 field season has underway at Middle River, Bathurst, New Brunswick. The EarthEX Geophysical Solutions crew has arrived and commenced surveying on May 3<sup>rd</sup>. There is a 4-person crew, with 2 members conducting the high definition, UAV (Drone) magnetic survey while the second team is focused on the ground-based Time Domain Electro-Magnetic Survey (TDEM) over the defined VMS targets. To date, EarthEx has completed 300+ line kilometers of high-resolution magnetics and 10+ line kilometers of TDEM. The images below are up to May 9<sup>th</sup>, the green showing the completed magnetics. In the background are the priority targets identified by EarthEx.



***Figure 1: Completed UAV Magnetics.***

The image below shows the completed TDEM coverage. As of yesterday, the crew was moving the transmitting loop to the north to cover priority Target 2.



**Figure 2: TDEM coverage to May 11<sup>th</sup>**

**UAV (Drone) Magnetic Survey:**

Due to the scale of the overall survey, the UAV team selects numerous landing zones for the drone that also serve as a flight base. At these locations, the flight crew has their computers, flight controls and a transmitter on a boom lift. A magnetic base station is also established to continually collect data and identify diurnal changes in the magnetics.

In addition to the magnetometer, the Drone is equipped with redundant GPSs for flight control and a LIDAR (Light Detection and Ranging) laser imaging system that provides real time data for collision avoidance, allowing the drone to fly as low as possible. With a maximum 3km range, the Drone fly's its pre-planned survey lines, each flight taking approximately 20 minutes. After landing, the batteries are quickly swapped out and the unit is airborne again.



**Figure 2: UAV Drone**



## TDEM Survey:

On the ground, the second team is conducting a TDEM survey which is designed specifically to identify subsurface conductors such as a massive sulphide body. At Middle River, there are 4 survey blocks that cover the priority targets identified by EarthEx. Along the perimeter of the survey block, a 3.6 kilometer loop is laid out with the wires connected to a base transmitter. The transmitter provides a continual current to loop while the team surveys the lines within the survey block.



**Figure 3: Ground Base Station, Transmitter, TDEM Survey**

At the end of each day, the survey data from both surveys are uploaded to head office for QA / QC checks and preliminary interpretation. This process not only confirms the quality of the data, as targets are identified, modifications to the survey parameters, such as line spacing or the inclusion of infill lines for the TDEM survey can be made to ensure the target is constrained as much as possible for modeling and drill targeting.

When both surveys are complete, the data is processed and presented as a 3D model. The high-resolution magnetics will assist in the geological interpretation while the TDEM is used specifically to identify subsurface conductors. For the VMS targets, the conductors are then plate modeled, the resultant images showing the subsurface dimensions of the body including its depth, width, length and trend. With this information, optimal drill collar coordinates are provided along with the drill hole azimuth, drill hole angle and depth to target.

Thistle Resources Corp. (TRC) is a private Canadian Junior Exploration Company focused on Gold-VMS exploration opportunities in the famous Bathurst Mining Camp (BMC) in Bathurst, New Brunswick.

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