REPORT
of completed geological and geophysical works on the
No name Cr. tributary Dominion Cr Grant № P 516989
August 20, 2016 to August 22, 2016
Dawson District

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Introduction

Geophysical survey was conducted by using of Ground Penetrating Radar (GPR) on the No name Cr. tributary Dominion Cr Grant № P 516989 August 20, 2016 to August 22, 2016.

RESULTS AND METHODOLOGY OF THE CONDUCTED STUDIES.

Two lines of GPR survey’s were surveyed during the field works. The total length of the lines is 550 m; the distances between lines approx. is 80 m. The actual location of the surveyed lines is presented on the map at the picture #1. (see attachment). The original data of electromagnetic survey are presented on CD (see attachment 2).

The coordinates of the surveyed lines are presented at the Table 1.

<table>
<thead>
<tr>
<th>Lines ##</th>
<th>Points of survey</th>
<th>Coordinates of the “start” and “end” points</th>
<th>Elevation of the points (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Start</td>
<td>63° 47' 53''</td>
<td>138° 35' 12''</td>
</tr>
<tr>
<td></td>
<td>End</td>
<td>63° 47' 47''</td>
<td>138° 35' 04''</td>
</tr>
<tr>
<td>2</td>
<td>Start</td>
<td>63° 47' 56''</td>
<td>138° 34' 58''</td>
</tr>
<tr>
<td></td>
<td>End</td>
<td>63° 47' 50''</td>
<td>138° 34' 53''</td>
</tr>
</tbody>
</table>

The electro-magnetic survey was conducted by using the GPR “EasyRad PRO+” equipped with antenna by working frequency 100 MHz with resolution 0.2m; the results of the survey which was analyzed by using software «Prizm 2.5». The actual depth of the effective survey is estimated up to 11 m.

TESTING.

Three testing pit was completed in the limits of the line 1. The pit are performed up to bedrock and were presented from the top up to the bottom by turf deposits with thickness 0.9-1.8 m, and alluvium with thickness 1.3-1.7m. The bedrock is present by quartz-sandstone at the depth 1.9-3.1m.

The alluvial deposits was tested by the prospector’s pan. Approx 10 litres was washed. The results of testing showed the grades of the Au of 0.9-1.5 g/cub.m. (20 colors per pan).

The results of the conducted surveys are present the strong ability of recognition of the main lithological units at the radar’s-images such as: “turfes”- thickness 0.9-1.8m; “alluvium”- thickness 1.3-4.0m; “weathered bedrock” – thickness 0.6-1.1m; “bedrock surface” – at the depth up to 6.4m.

The results of the final interpretation and analysis of the received data of GPR surveys are presented at the pictures 2.
Pic. 1

The lines map of survey location.

Line 1

Pic. 2

Overburden

deluvium

bedrock
CONCLUSION

The geological-geophysical studies were conducted in the limits of No name Cr. tributary Dominion Cr Grant № P 516989 August 19, 2016 to August 23, 2016. The results of the conducted studies are:

- Actual data of GPR survey;
- Analysis and interpretation of the GPR data;
- The lithological distribution of the Quaternary deposits along the cross-section were analyzed;
- The depth and thickness of the lithological units were corrected with according to information received from testing pits;
- The brief summary of the results was compiled.

Boris Logutov ______________________ 26 August, 2016

Pavel Garyashin ______________________ 26 August, 2016