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TO: W. M. SIROLA
FROM: F. CHOW
SUBJECT: Glenlyon Project Progress Report,
Period Ending August 21, 1969.

During the past two weeks the three field parties spent eight days in the Lynda Creek area staking claims and taking soil and silt samples. After the staking and sampling program was completed they were sent back to their respective areas to continue with the season's project.

About 90% of the abbreviated program for the Tay River area is expected to be completed before the three crew chiefs leave here on August 28th. The three juniors will remain here to finish up whatever is most urgent. These three will have to leave camp not later than September 12th to return to university.

Lynda Creek Area (105-K-3/5 $\frac{1}{2}$)

Eighty mineral claims were staked in one block and another eight claims were staked adjoining the northwest boundary (central Portion).

Soil and/or silt samples were taken at 400-foot centres along each of the five location lines and at 700-foot centres along two, 2-mile lines heading N60W of the claim block. Sampling was also carried out at 700-foot centres along two, 2-mile lines running N30E, located $\frac{1}{2}$ and 1 mile N60W of the northwest boundary of the claim block.

Sampling plans for this latest work are enclosed with this report. Also enclosed are geological plans showing rock outcrops along or near claim location lines and creeks. Both plans are prepared by Dave Morley, who with his partner Tom Neelands did all the recent geochemical sampling of the area.

The first shipment of samples from this program should have arrived at Barringer's lab on August 13th and the last (2nd) shipment on Aug. 18th. No report received as yet. (Must have somehow missed today's truck)

Tay River Map Area:

1) Geology:

Within the areas investigated, the rocks seen so far are mainly quartz-biotite schist, micaceous quartzite, altered sediments with minor volcanics, and limestone. Much of the rock contains carbonates.

2) Mineralization:

Compared to the Glenlyon Range, this area shows more sulphide mineralization. So far, only scattered quartz veins with minor Pb, Zn, Cu has been found. Most widespread sulphide found is magnetic pyrrhotite. This is the main cause of most magnetic anomalies. They occur mainly in sediments and as disseminations. One location showed pyrrhotite in basalt.

3) Geochemistry:

From assays received to date, the immediate areas of magnetic anomalies usually show higher than average values in one or all three of

the elements assayed. These higher values are 2 to 3 times the average lower readings. Since most of the geochemical sampling has been done within the magnetic anomalies, the true background values may be different than the assumed.

At present, two locations are wanting of further sampling. One or maybe both could be done before the seniors leave camp.

Weather:

Lousy! Mixed rain and snow prevail. Fog and low-lying clouds are not unusual. Snow level is at 4500 - 5000 feet elevation.

Creeks and low-lying areas are as wet as that during spring. Little Salmon Lake water level has risen to that of the spring run-off high water mark.

Exploration By Others:

- 1) Cypress backed team appear to have left this area. They are the team of 2 prospectors which were seen earlier in this area. They sampled Lynda Creek first. When I last (week ago) met them they said that they were going into Whitehorse to analyse the sampling with Cypress engineers.
- 2) Atlas field party/s have moved into this area with their camp located next to the road, about 20 miles east of Little Salmon Lake. Party is supported by both helicopter and vehicles.

Party #1 met one of their geologists who went by their camp. He was silting the creek that Party #1 was camped on. According to Dave Morley's communication, Atlas has three M.A. degree geologists in this

camp and that Atlas has been working the Trench from Dawson City towards the southeast. The three men are at odds with one another and they are dissatisfied with the way Atlas is conducting the project. (?)

Students:

All three seniors; Reid, Morley and Thorburn, have to leave for university at the end of August. The three juniors can stay till the 12th of ~~August~~ ^{September}.

In view of this, I am sending the three seniors out by plane on August 28th evening so that they can record their claims before the long week-end of Labour Day. Also sending one junior out to record his claims and return with a U-Drive. This is being done to avoid being caught by bad flying weather and miss out on recording the claims. The junior can stay in camp while the rest of the crew go to Whitehorse on or about September 4th to record. Latest day to record the claims is September 15th.

Camp:

There are several buyers for our tent frames. As we will not know till all the results are returned and further assessment made, I shall simply say that we will be re-using the tent frames.

Radio:

Reception between base camp and field parties was Nil between August 9th and 20th. This is partly due to the common Canadian north radio blackout problem and partly due to radio and antenna system and layout.

PRT-20 field radios are generally fair to good, except for minor ailments and difficulty of laying out the antenna in the most optimum position.

Base Camp 2768 kc antenna has been re-located again and changed. Presently using the one made up for the Tatlayoko Lake Project. Communication with field parties now okay.

End:

Much work to do and "little" time, so end of report.

(signed)

F. Chow.

FC/lk