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TITAN PROJECT

Progress Report No. 1  
May 28, 1963

To: L.D. Adelle - Canex Aerial Exploration  
William Sirola - Kerr-Addison Gold Mines  
B.O. Brynolson - Noranda Exploration  
D.C. Sharpstone - Homestake Mining Company  
C.S. Walker - Silver Titan Mines

Dear Sirs:

The 1963 summer field programme of the Titan Project was started May 10th on the Northlimb and Galena Hill properties.

From May 11 to 15 inclusive I did some reconnaissance mapping of the Northlimb properties, principally on the Shanghai and Cat groups of chimps, laid out a number of bulldozer trenches, and familiarized the geologists, Dirk Tempelman-Kluit and Murray Hampton, with the properties and the programme.

Reconnaissance mapping of the Northlimb area is being continued by Dirk Tempelman-Kluit assisted by John Brock; geochemical sampling, mapping and bulldozer trenching is being carried on on the Shanghai and UR property by Murray Hampton; and geochemical sampling is being tried on the Galena Hill property.

Personnel are as follows:

David Seymour - Project Manager  
Dirk Tempelman-Kluit - Reconnaissance Geologist - *MONTANA DISTRICT*  
John Brock - Assistant Geologist - *4TH YEAR STUDENT*  
Murray Hampton - Assistant Geologist  
Vic Foley - Cook

David Seymour has been familiarized with the project here in Vancouver and has arrived up there May 31. A land rover vehicle has been purchased for the property.

Temporary assistance in geochemical sampling has been given on the Galena Hill property by Thor Skonseng and John French until May 28 and an additional man may be placed temporarily on general labour on the bulldozer trenching which has been started on the Northlimb area.

About a week's resistivity survey has been arranged for with Hunting Survey Corporation to be done on the Galena Hill property in the last week of June.

### Geochemistry

Geochemical survey grids at 200-foot line spacing and 100-foot sample interval have been laid out on the two vein-fault areas on the Galena Hill property, over the main vein zone system on the Shanghai property, and tentatively on the west end of the Shanghai property.

Sampling will be done through surface organic soils down to original underlying mineral soils and samples will be tested by standard dithizone procedure for heavy metals (copper and zinc), with the Lemaire mercury detector for mercury, and with rubeanic acid for copper.

Some results should be available from the geochemical surveys by June 10. On the Galena Hill property, however, complete sampling may not be possible with present equipment due to the extensive cover of overburden (organic muck and silt) over the till that we wish to test.

### Bulldozer Trenching

On the Shanghai property about a dozen bulldozer trenches have been laid out, principally in the mineralized vicinity over which the first geochemical grid has been laid out. These trenches should intersect the vein zones in two or three localities within the next three weeks unless slowed down abnormally by permafrost. Several similar trenches have been laid out on the UR property.

The trenching was started about May 24 by a D-8 caterpillar tractor-dozzer with corner blade rippers, on rental from General Construction Co. with an initial commitment of 200 hours of work over the next month at \$27.00 per hour, including operator, fuel etc. The operator, Roger Fraser, is experienced and keen about prospecting. By June 10 about half to two thirds of the initial work should be completed so it will be possible to see how the work is progressing and to decide on how the balance of it should be done.

A trench bulldozer across the central longitudinal vein fault on the Shanghai property last year was cleaned out when the D-8 cat was first taken over in late April. This trench was found to carry two small branch veins about 50 feet on the north side of the longitudinal zone. One of these, about 4 inches wide, gave an assay of 0.52 oz/ton gold and 717.8 oz/ton silver from a sample collected by Cecil D. Poli, and had given 1.1 oz/ton gold and 790.5 oz/ton silver in a grab sample taken last fall by Ray Weseman, what appeared to me to be the highest grade black oxidized material gave 0.08 oz/ton gold and 2290 oz/ton silver. Another small similar parallel vein or stringer to the north gave Cecil Poli an assay of .32 oz/ton gold and 587.6 oz/ton silver. This second stringer was apparently covered with a sloughed bank of the trench during my visit.

These small veins or stringers are significant because they indicate the possibilities of silver values of Keno Hill type in the stronger unexplored vein systems nearby. They dip south east and converge toward the main longitudinal vein zone and several topographic breaks in the quartzite outcrops along the north side of this zone suggest that there are probably several such "feather veins" branching from this structure. Bulldozer cuts have been marked at these breaks to test for such veins. A 50-foot channel sample across a northerly dipping siderite zone on the nearby north wall of the longitudinal break gave only a trace of gold and silver.

If the northeast veins prove to be more promising than the main longitudinal vein exploration should then be concentrated in the two main northeast breaks on either side of this longitudinal one.

### Geologic Mapping

Geologic reconnaissance has indicated several other nearby northeast breaks visible mainly before the leaves had developed on the trees. Several of these were marked for possible trenching later in the season.

Quartzite and greenstone outcrops were found to the east on the Cat group of claims but not enough was exposed to indicate the extent of these rocks.

It would appear that there is some repetition of quartzite members around the main Shanghai discovery and the Cat group but that only one member continues on to the west end of the Shanghai claims. Some mineralization found in the western end of these claims may warrant work if supported by geochemical and geologic indications. No strong northeast structures were detected but two or three may exist and one longitudinal zone exists where the main Lundquist workings are. Two general samples of siderite vein material, one from the dump of a caved adit (C-1) and one from an inclined shaft about 50 feet to the west (C-2), both gave only traces of gold and silver.

Dirk Tempelman-Kluit and John Brock have continued to map the Shanghai vicinity and are now working westward to the Argent group to start the reconnaissance work on the McQuesten mineral belt.

### Prospect Shafts

Prospect shafts thawed down to test two localities on the Galena Hill property in April encountered badly fractured and altered greenstone in one locality; and fractured, competent quartzite with abundant pyrite, some sphalerite, and minor traces of galena in another locality.

The fractured and mineralized quartzite confirms presence of a strong vein fault zone in favourable rocks, formerly indicated by resistivity surveys as crossing the boundary between the Leo fraction and KPO No. 1 claim.

Respectfully Submitted,

  
Dr. A.E. Aho