N.B.C. SYNDICATE

PROPOSAL FOR A SEPCIAL PROJECT TP CLAIM GROUP WILLOW RIVER AREA 93G

November 1st, 1968

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TP CLAIM GROUP

SUMMARY:

Prospecting on the TP claim group indicated an area of basic intrusive rock with local chalcopyrite mineralization. Soil sampling of a reconnaissance nature has outlined a number of areas with anomalous copper content. An attempt at geological mapping of the claim group was unsuccessful due to the inexperience of the geologist.and the difficult ground conditions. This proposal presents the current information, together with cost estimates for further work to include line cutting, magnetometor surveying, further soil sampling and geological mapping. Estimated cost of this program is \$8,850.

INTRODUCTION:

Presence of a strong aeromagnetic anomaly in an area underlain by Triassic formations and cut by major faulting, prompted investigation by prospecting and soil sampling, early in July 1968. Figure I shows the outline of the aeromagnetic anomaly, and the TP claim group.

LOCATION & ACCESS:

The claim group lies south of the Willow River approximately forty miles south east of Prince George. It can be reached by following the Buckhorn Lake road easterly from Highway 97. The area of interest lies about two miles south of the end of present logging roads.

Rock exposures and anomalous areas occur on a heavily wooded hillside, at elevations ranging from 3,500 to 4,700 feet. The access road along the Willow River is at the 3,000 foot elevation.

GEOLOGY AND GEOPHYSICS:

The area is shown on geology map 49-1960 Prince George 93G to be underlain by Triassic formations. Prospecting indicates a 'hornblindite' intrusive of somewhat variable composition surrounded by sediments and minor volcanics. Some of these surrounding rocks are altered to hornfels near the intrusive contact.

Outcrop is relatively sparse.

Mineralization so far encountered consists of desseminated pyrite and/or chalcopyrite in the hornblindite. Specimen <u>A</u> is from rubble in the vicinity of geochemical anamaly 2. A specimen of this material assoyed 0.38% Cu.

No outcrop has been observed in the vicinity of anomalies 4, 5 or 6.

No ground geophysics have been done as yet. Aero-

GEOLOGY AND GEOPHISICS (continued)

of the claim group. This has not been investigated.

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The sharp eastern termination of the magnetic anomaly together with a north south trending magnetic low, suggests a major fault zone. See Figures I and II. It is along this zone at the eastern end of the hornblindite intrusive that the best geochemical results have been found.

GEOCHEMISTRY:

Soil samples were taken on an irregular grid pattern by pace and compass using claim lines as base lines. Samples were tested in the field for copper content by the rubcanic acid method and were then submitted to Bondar-Clegg & Co. Ltd. for determination of copper content by Lot HNO_3 - HCl extraction. Results are plotted on Figure III. Soil sample spacing varies from 200' x 200' to 200' x 800'. A number of anomalous zomes are indicated as listed below.

		50.			
Zone	Dimensions	Number of Soil	Trend of Zone		
1	600° x 300°	5	Northeast		
2	600° x 400°	4	North		
2A	700° x 200°	2	North		
3	1500° x 200°	3	North		
4	900' x 500'	3	North		
5	3000' x 600'	20	North		
6	1800' x 300'	5	Northerly		

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After spring break up, these lines should be used for a more thorough geochemical survey and for geological mapping.

COST ESTIMATES:

Winter Program

	Base 1	ines	11,600'	0	\$240/mile	=	\$ 530		
	Picket	lines	82,800'	0	\$180/mile	-	\$2820		
							\$3350	1	ŧ
	Rental	- magne	tometer				300		
	Food s	ision and AT Localdo upplies zation an	CAMP @	\$7/		y	750 -500 -500 		
1	Stakin - Total	g and ree	cording 2	20	claims		<u>150</u> 5700 \$5850		
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			14	27	21 -	4	6270	>	

COST ESTIMATES (Continued)

Summer Program

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Mobilization and transportation	\$ 500		
Soil sampling	600		
Geological mapping	550		
Sample determination 900 x \$1.50	1350		
Total	\$3000		
Conmencines	300		
	\$3300		

Respectfully submitted,

J.C. Stephen

JCS/cb