

SEP 23 1963

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KERR-ADDISON GOLD MINES LIMITED

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To..... P.M. KAVANAGH From..... W.M. SIROLA

Subject..... " K " GROUP - NATION RIVER AREA, B.C. (93-0-5) Date..... September 19th, 1963

W.S.R	
K.C.B.	
G.H.M.	
R.D.S.	
S.C.B.	
M.K.	
✓ CKW	✓
E.C.C.	
H.A.P.	
I.S.S.	
G.P.R.	
E.L.B.	
J.B.	
ECJ	
D.V.B.	

Wolfe and McRae were on this property from September 5 - 9, 1963. You may recall that we staked this 20 claim group on May 10th, following an aeromagnetic release. The aeromagnetic anomaly was an elongated thumb print with a residual anomaly of 700 gammas. The size of the anomaly was such as to suggest that we would get approximately 2800 - 3500 gammas on the ground. This would be in keeping with anomalies produced either by a basic rock type, or, by a large mineralized zone with greater than 10 % pyrrhotite. Geologically, the area is favourable, occurring as it does, just west of the Rocky Mountain trench, in area of highly metamorphosed rocks and generally complex geology.

The work done by Wolfe and McRae consisted of :

- (a) Five traverses with the Sharpe magcrometer to accurately determine the extent and position of the magnetic high on the claim group.
- (b) Two E.M. traverses across the magnetic high.
- (c) Testing of 18 silt samples.
- (d) Collecting specimens from the few outcrops seen.

The outcome of this work may be summarized as follows :

The magnetic anomaly has a maximum value of 3164 gammas on the ground. It appears to be caused by a north-west trending mass of serpentinite (I use this term because the original rock type is no longer recognizable). Magnetite and hematite are both

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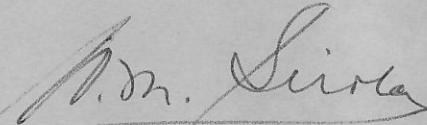
recognizable in the serpentinite and I would guess that the average content of these minerals might be 3 - 4 %. The contact between the serpentinite and the highly altered granitic gneiss ? bisects claims 15 and 16 and the magnetics fall off rapidly at the contact.

The E.M. traverses produced no anomalies and, apparently, the crew were unable to use the potentiometer, which was still dripping moisture on their return.

A total of 18 specimens of stream silt were collected and run for total heavy metals and for leachable copper. One sample, No. ? gave a positive reaction.

Conclusions :

Nothing was seen on the property to justify further work but it is recognized that the examination was anything but thorough. Apparently, only three outcrops were found on the entire claim group and the geophysical coverage was decidedly limited. However, it seems reasonable to conclude that the cause of the magnetic anomaly has been established and no further work is advocated.



William M. Sirola.

WMS/iw.

encls:

- (1) Geophysical Map. (2) Aeromagnetic Map.
- (3) Map showing claim group and outcrops. (4) Magnetic Map.
- (5) E.M. Survey.