

MEMORANDUM

To: M.O. Hampton  
From: J. Gondi  
Date: May 6, 1969  
Subject: TRENCHING ON KAY CLAIMS

The area comprised by Kay claims 19, 20, 21, 22, 23, 24, 25 and 26 is investigated through trenching and removing surface overburden during the period of 25 April, 1969 to 29 April, 1969. The purpose of above work is stressed upon study of bed rock and to uncover favourable host rocks, any possible mineralization and to correlate the geology of the area.

Forty-two and one-half hours of Caterpillar tractor D-8 were spread over walking the cat to property and return to Faro and trenching. Seven trenches were dug and bed rock is uncovered in four trenches. The details of the trenches are given in the subsequent pages under Trench Logs.

The area investigated is still overlain by snow of 2-3 feet thick and the ground is under frozen conditions. Permanently frozen ground is encountered in trench K-2-1969 located in Kay Claim 25, at a depth of 6 feet. The northwestern claims 23, 24, 25 and 26 are extensively covered by glacial and stream deposits and no bed rock could be exposed at a reasonable depth.

The geology of the area is quite similar to Swim Lakes area in general and consists of extensive greenstones and local metasedimentary rock unit is graphitic chloritic phyllite, shaly in places, interbedded with limestone. The limestone is recrystallized during metamorphism of the area and occurs mainly as calcite and is marbled in places, still conformable to bedding. The phyllite is highly contorted and in general strikes 10° with a dip of 18° N.W.

The greenstones are fine grained, equigranular and greenish grey to olive green in colour and suggests Andesitic in composition. The fractures in greenstones are filled with limestone and calcite. This volcanic unit forms a competent unit in this area and occupies ridges while phyllite having been eroded by glaciers form valleys, in general. This greenstone unit can be correlated to the greenstone unit of Faro area on similar mineralogical and physical characteristics and probably belong to the same time unit and of the same origin. However, the greenstones in Kay group of claims are subjected to less degree of metamorphism and remain intact and show intrusive relation.

Further, let me mention that the volcanic ash in this area is fairly extensive and occurs on the top of alluvium and directly below undecomposed organic matter. It varies in thickness from 2" - 4" and is acidic in composition and consists of microscopic needle like black crystals (Hornblende or tourmaline).

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TIME LOG

25 April 1969

7:00 - 9:00 Supplies and repair work on hose  
9:00 - 20:30 Walking the cat to Kay claims and plowing snow  
20:30 - 22:00 Travel time to Faro

26 April 1969

7:00 - 18:00 Repair on hose, maintenance and travel time to cat  
and return to Faro

27 April 1969

7:00 - 8:30 Travel time to Kay claims  
8:30 - 18:30 Plowing and trenching  
18:30 - 20:00 Travel time to Faro

28 April 1969

7:00 - 8:30 Travel time to Kay claims  
8:30 - 18:00 Trenching  
18:00 - 19:30 Travel time to Faro

29 April 1969

7:00 - 8:30 Travel time  
8:30 - 20:00 Trenching and walking cat back to Faro

TOTAL TIME SPENT ON WALKING CAT & TRENCHING - 42½ HOURS

TRENCH LOGS

KAY - 1 - 1969

- 0 - 4" Moss and undecomposed organic matter
- 4" - 7" Volcanic ash - white to light grey in colour
- 7" - 10' Unsorted glacial deposit  
Boulders, cobbles, pebbles, sand, silt & clay  
Clay - Greenish grey to greenish brown in colour

SOIL SAMPLE - K-1-1969

26 ppm Cu 14 ppm Pb 98 ppm Zn

KAY - 2 - 1969

- 0 - 6" Moss and undecomposed organic matter
- 6" - 10" Volcanic ash - white - light grey in colour
- 10" - 6.5' Glacial debris  
6' Starts permafrost zone

SOIL SAMPLE - K-2-1969

31 ppm Cu 9 ppm Pb 144 ppm Zn

KAY - 3 - 1969

- 0 - 4" Moss and undecomposed organic matter
- 4" - 7" Volcanic ash
- 7" - 25' Glacial debris

SOIL SAMPLE - K-3-1969

33 ppm Cu 13 ppm Pb 106 ppm Zn

KAY - 4 - 1969

- 0 - 4" Moss and undecomposed organic matter
- 4" - 7" Volcanic ash
- 7" - 12" Poorly developed soil - small rock fragments, iron oxides, limonite, silt and clay
- 12" - 1.5' Bed rock - Greenstone

SOIL SAMPLE - K-4-1969

9 ppm Cu 7 ppm Pb 35 ppm Zn

KAY - 5 - 1969

- 0 - 4" Undecomposed organic matter
- 4" - 6" Volcanic ash
- 6" - 9" Poorly developed soil - limonite, iron oxides and small rock fragments
- 9" - 2' Bed rock - Greenstone

SOIL SAMPLE - K-5-1969

19 ppm Cu 15 ppm Pb 46 ppm Zn

KAY - 6 - 1969

- 0 - 4" Undecomposed organic matter  
 4" - 8" Volcanic ash  
 8" - 3.5' Glacial debris  
 3.5' - 3.8' Poorly developed soil  
 3.8' - 4.5' Bed rock - contact zone of volcanics & graphitic phyllite

SOIL SAMPLE - K-6-1969

36 ppm Cu 14 ppm Pb 68 ppm Zn

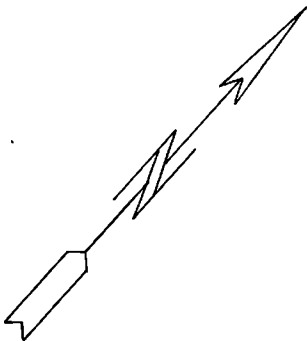
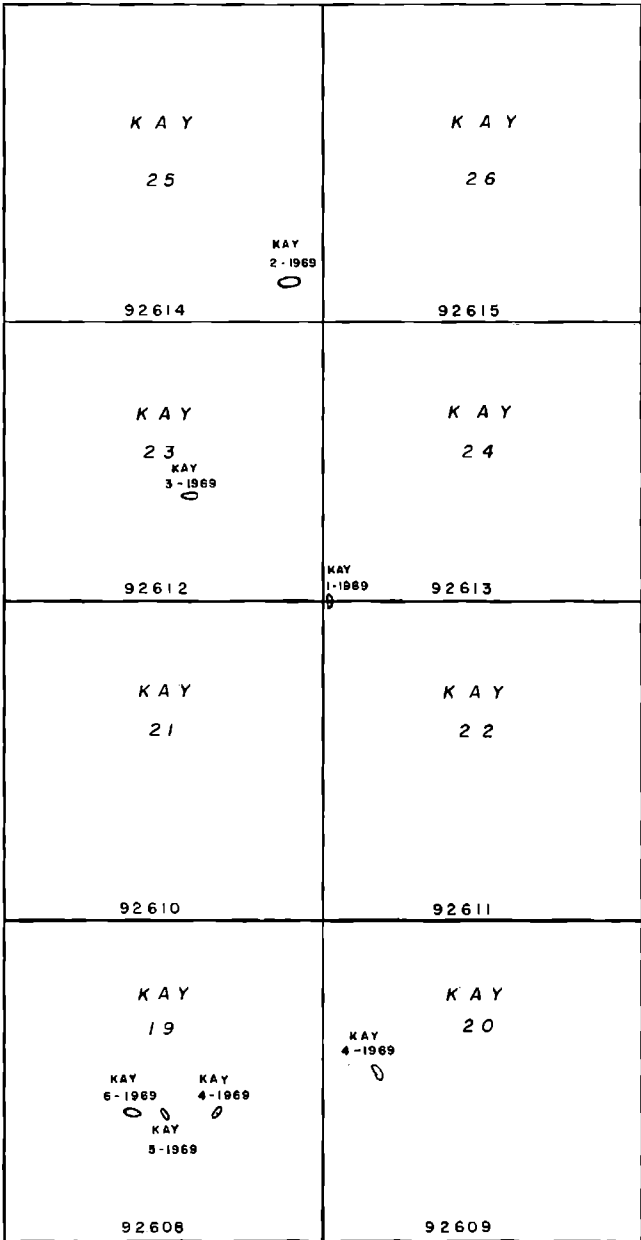
KAY - 7 - 1969

- 0 - 5" Undecomposed organic matter  
 5" - 9" Volcanic ash  
 9" - 3' Glacial debris  
 3' - 3.3' Poorly developed soil - Black in colour (Graphite)  
 3.3' - 8' Graphitic phyllite - partly shaly

SOIL SAMPLE - K-7-1969

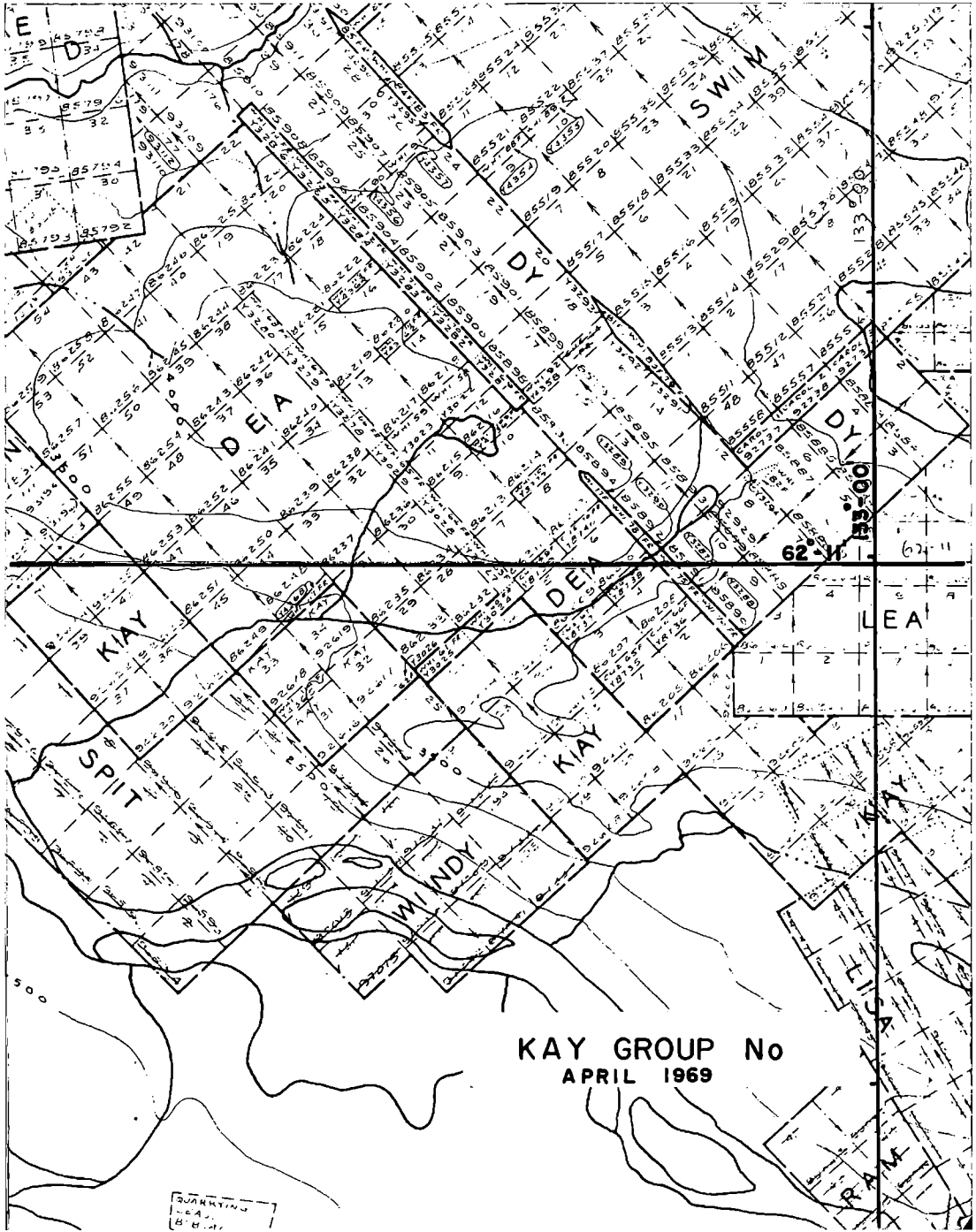
48 ppm Cu 10 ppm Pb 912 ppm Zn





ANVIL MINING CORR.	
WHITEHORSE	
BULLDOZER TRENCHING KAY GROUP 1969	
DATE: 8 MAY '69	DRG NO.
SCALE: 1"=600'	WD-905
DRAWN BY:	FILE:

DATE PRINTED



KAY GROUP No  
APRIL 1969

QUARKING  
-64  
B.H.