

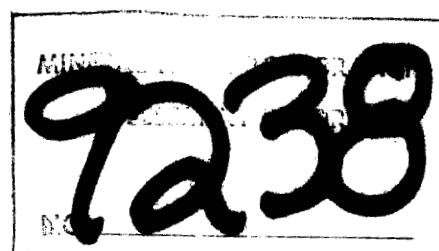
GEOLOGICAL REPORT ON THE H-K GROUP PROPERTY

of

Roy D. Kregosky

Greenwood Mining Division

82E/7

Latitude... $49^{\circ} 28'$ Longitude.. $118^{\circ} 57'$ 

May 12, 1981

R. Kregosky
BSc. Geology

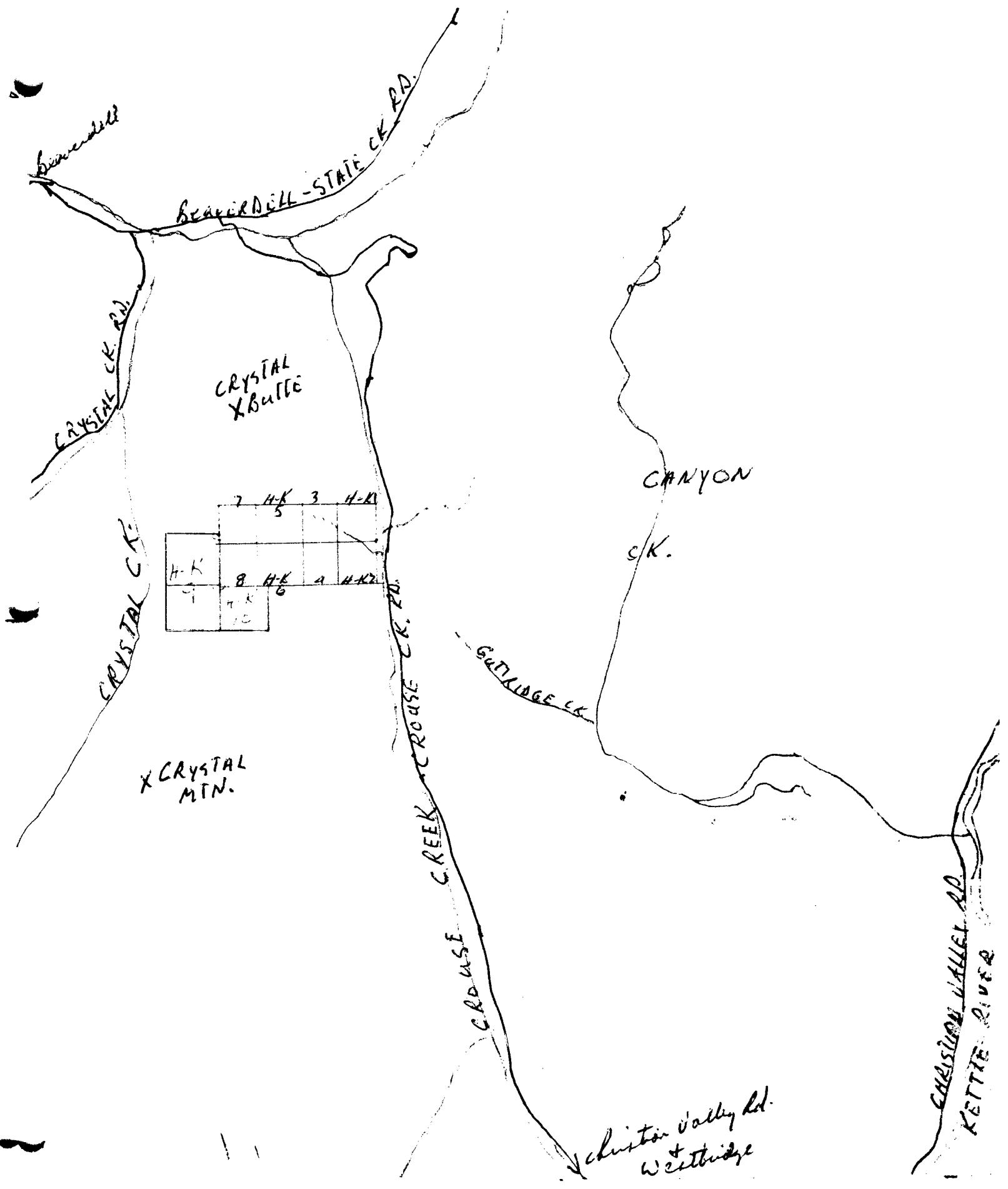


TABLE OF CONTENTS

Introduction.....	Page 1
History.....	Page 1,2,3,4
Cost Statement.....	Page 5

INTRODUCTION

The H-K Group property is located approximately 10 kilometers in a direct line northeast from Beaverdell in the Greenwood Mining Division. They extend from Cro se Creek on the east to Crystal Creek on the west and are partially situated on a saddle between Crystal Butte to the north and Crystal Mountain to the south. Elevations range from 1,100 meters at Crouse Creek to a maximum of 1,400 meters on the flank of Crystal Mountain. The property is readily accessible by motor vehicle from Beaverdell 12 kilometers northeast along Beaverdell Creek Road and then south for 6.8 kilometers at the junction of Larsen Creek Road.

HISTORY

The H-K Group property, currently registered in the author's name, is underlain by Anarchist Group rock of Palaeozoic age consisting mainly of metamorphosed igneous rocks (greenstone), greywacke, paragneiss and a marblized limestone. Nelson intrusive rocks of Mesozoic age outcrop locally in the claim group as well as along the southwestern boundary. Crystel Butte, to the noth, is of Cenozoic age and consists of the Phoenix Volcanic group of rocks consisting mainly of ^Atrachyte and andesite.

The western portion of the claim group contains several old trenches, an adit, one winze plus two diamond drill holes. Personal investigation failed to turn up any history in the form of reports or assessment work pertaining to the above mentioned

workings. Examination of the old showings indicates fracture-filled mineralized quartz veins (occurrences that are similar to the productive veins at the Beaverell Teck Corporation Mine). Contact mineralization also occurs between the arenaceous rocks and metamorphosed igneous rocks of the Anarchist group. These showings indicate lead, zinc, copper and accessory silver mineralization.

During the latter part of May and early June of 1980, the author prospected and made field notes of the claim group. A preliminary baseline of 1 kilometer was established for the purpose of geological mapping of the old workings as well as for future ~~geological mapping of the old workings as well as for future~~ geological, geochemical and geophysical surveys. The final post of the H-K 7-8 claim and the common boundary line with the H-K 9 claim (Plate 1) was used for establishing the baseline point of reference. The claim line of the H-K 1-8 claims was used as a reference point for making field notes. Four traverses were made parallel to the H-K 1-8 claim line on the northern boundary as well as an equal number of traverses along the southern boundary. Including the baseline, the prospecting traverses cover a lineal distance of over 15 kilometers and an area of over 150 hectares. The most detailed area prospected was located in the H-K 9 and H-K 10 units where the old workings are located.

The field reconnaissance was undertaken so as to better

understand and interpret the local geological setting and the mode of mineralization as is evident in the old trenches and adit. The field traverses along the southern boundary indicate outcroppings of Nelson intrusive rocks consisting of granadiorite and a quartz monzonite that were possibly the parent rock for percolating hydrothermal fluids that were injected into various fractures and shear zones. This is most evident in the vertical pit or winze (BL 2+80S, Plate 1 ad 2) where the country rock is heavily altered along the contact of the quartz vein which shows some galena, chalcopyrite and sphalerite mineralization. The area has a halo of pyritic mineralization extending into the country rock. The adit located at BL5+50S (Plate 1, 2 & 3) also shows evidence of quartz veins that are associated with small shear zones. One of these veins was chip sampled and assayed (Plate 4) Pb-2.75% Zn-65% AG-.72 oz/ton, Au was not assayed for. Other field observations of the northern trenches (BL 3+75N, Plate 1,2) indicate galena, malachite and sphalerite associated with the altered marblized limestone - greenstone contact. The traverses along the northern boundary indicate a paragneiss with local outcroppings of the Phoenix Volcanic group. A possible mineralized zone based on field observations would trend northeasterly from the adit to the north trenches. This is the area that appears to have the most concentrated geological activity. Further observations and field studies need to be continued to better

delineate and interpret the various contacts, rock types and their interactions. Soil samples should be taken to help to locate any anomalous mineral zones as well as a possible ULF-EM survey to delineate any conductive ore bodies and/or shear zones.

COST STATEMENT

Field Work

12 Days @ \$75.00/day.....\$ 900.00
(May 23-25, May 27-30, June 2-6)

Transportation

90 kilometer/trip @ 15¢/km.\$ 162.00

Rock Assay

Pb - Zn - Ag\$ 22.00

Report Preparation

1 day @ \$75.00\$ 75.00

Typing, F. Harrop

4 hours @ \$10.00/hr.....\$ 40.00

TOTAL \$1,199.00

Roy Dennis Kregosky, BSc, Geology, Univ. of Calgary, 1970
May 12, 1981 *Roy Kregosky*

old TRENCH 1x2 MTS.
depths filled

TAILINGS INDICATE
a possible ft_3 vein
minor sulcate mineralization

VERTICAL PIT -

86.300s

86.100s

86.500s

TRENCH

86.000s

greenstone of aphantic ground mass
WITH PYROXENE + Hornblende LATHES

old TRENCH 2x5 MTS.

MINOR CYCLOTHYNE MINERALIZATION
CONTACT OF greenstone + LIMESTONE WITH HORNFELS

N

SCALE 1CM-25 MTS.

■ HK CLAIM POST

old WORKINGS

— height of lava

L.C.P.
H-K 10

PLATE 1 (Bottom)

~~(1) Pb + Cu MINING N.
(2) a quartzite - Hornfelsic zone
of bedded arenaceous rocks~~

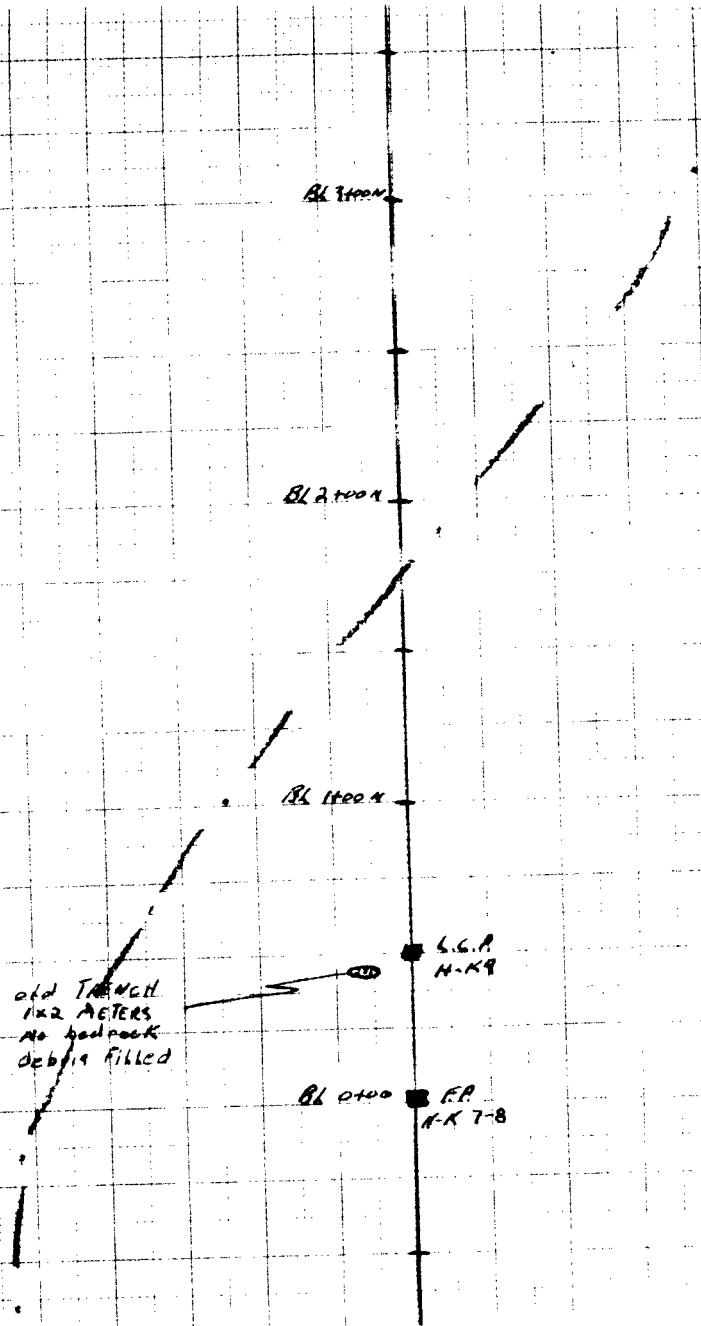
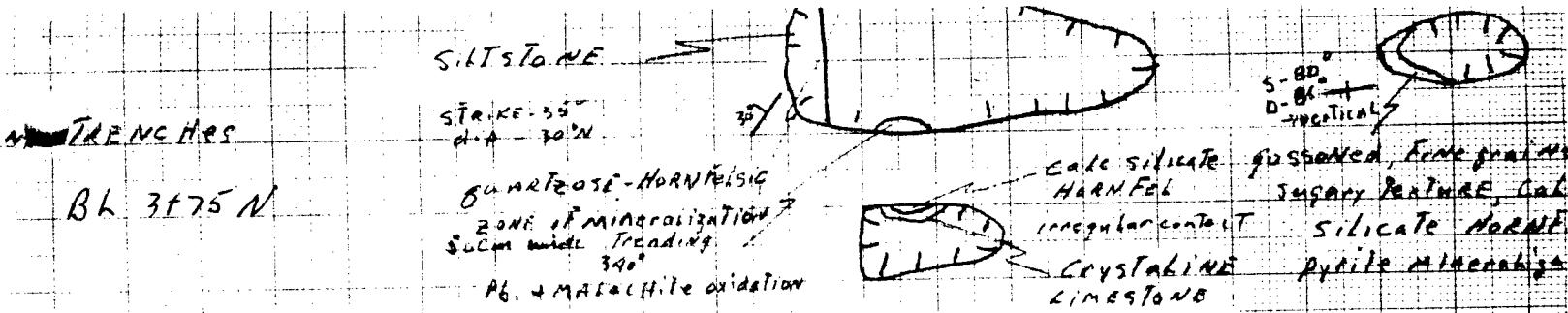


PLATE 1 (TOP)



VERTICAL

ADIT
+
TRENCH

Fine grained
country rock
on west face
minor mineral.

BL 27805

VERTICAL
N. FACE
west contact
55° S-90°

gtz view with sulphide
mineralization - Pb-pyrite

EAST CONTACT
STRIKE 340°
DIP 80° W

greenstone

VERTICAL SECTION
E. FACE

gtz view
5 cm wide
S-350°
I-50° E

L.S. & H.A.

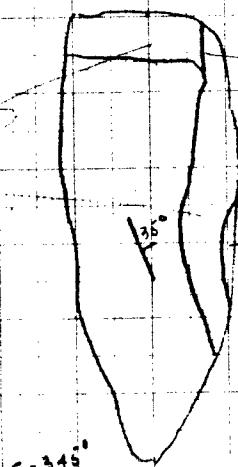
VERTICAL SECTION
S. FACE
heavily weathered +
gossanous zone (adit)
irregular gtz view
sulphide mineralization

MINOR disseminated
pyrite in this facies

TRENCH

1-2 cm wide gossanous
steep zone 50 cm long

Fine grain
arenaceous rocks
(SILTSTONE) S-340°
dip 35° E



LIMESTONE

ADIT

gossanous shear zone
3 cm wide
1 M.T. LONG

SL SL.

Angular, pebbly breccia

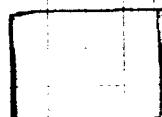
ADIT
entrance

BL 57755

Partial
collapse
of
adit

SCALE 1cm = 1m

old cabin



old cabin

PLATE 2

gtz. vein-mines
1.2 cm 70°
1.5 m long
strike - 90°
dip - 35° N

mineralized gtz. veins (5)
3-6 cm wide 120 cm long
strike - 50° dip 55° W

gtz. vein (sample #1)

3-10 cm
70 cm long

Pb. mineralization

gtz. vein
10 cm wide
30 cm long Pb.

gossaned
mineralized
gtz. vein
1-3 cm wide
2 m long
strike - 10°
dip - 70° E

area of small gossaned
quartz veins (1 cm wide)
1 main vein 1 cm x 3 m long
STRIKE - NORTH
DIP - 75° W

breccia, calcareous,
angular
pebbly

155°
SL. ST.

PORTAL ELV. 1,335 MTS.

N
SCALE 1 CM

PLATE 3

MIN-EN LABORATORIES LTD.

705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
Phone: 980-5814

Certificate of Assay

Mahogany Mines,

PROJECT No. Sads

~~1006-750 W. Pender St.,~~

DATE Aug. 21/80.

~~Vancouver, B.C.~~

File No. 0-655

MIN-EN Laboratories Ltd

CERTIFIED BY