

GRAND FORKS MINING DIVISION.

REPORT OF S. R. ALMOND, GOLD COMMISSIONER.

I have the honour to submit my report of the mining industry in the Grand Forks Mining Division for the year 1905:—

Through the courtesy of Mr. Burrell, editor of the "Grand Forks Gazette," who has covered almost all the ground in this Division, I am enabled to furnish the greater part of the following report:—

WELLINGTON CAMP, ON HARDY MOUNTAIN.

The valuable and practical results in the smelting of low-grade ores by the Granby company necessarily stimulates development work on all properties in the district, and in the *Betts & Hesperus Group*, situated on the south-west of Hardy mountain and only three miles from the city of Grand Forks, we find a property which is fast coming to the shipping stage. The *Betts & Hesperus* was originally located in 1896 by E. E. Alexander, of Spokane, then passed into the hands of Campbell and Finch of the same place, and was finally acquired by the present owners, who organised the *Betts & Hesperus Mining Co.* in February, 1903.

✓ The *Betts & Hesperus* is a sulphide copper ore somewhat similar in character to the big low-grade bodies of the Phoenix district. Previous to the time when the present company took hold of the property, about \$5,000 of development work had been done, and during the past three years something like \$50,000 has been expended in further exploration of the ore-bodies. For the first two seasons a large amount of surface work was done, first by an open cut 100 feet long, and subsequently by other systematic efforts to prove the extent and direction of the ore-body. The results were sufficiently satisfactory to induce Supt. Rea to advise the directors to authorise the driving of a tunnel to tap the ore at depth. This was commenced last February, and at the present time is in 825 feet, an amount of work which has been done at an exceedingly economical figure. This gives a depth of 375 feet below the surface showings, and the latter stages of the work have been evidently in the main ore-body.

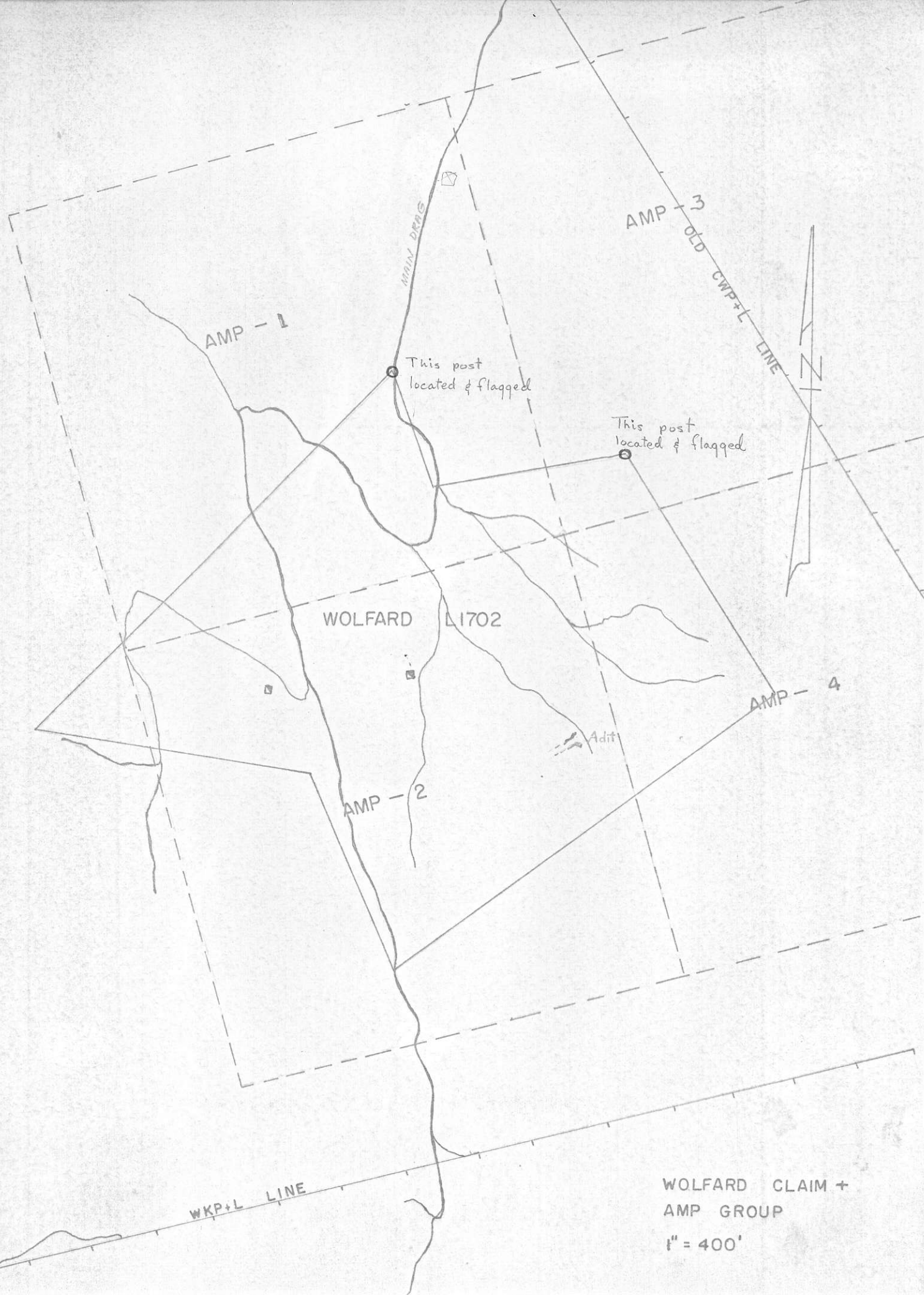
When 575 feet in on the tunnel, cross-cutting was commenced into a fine chute of pyrrhotite ore, which is evidently a big body. So good a showing is it that a contract of a favourable character is now pending with the Granby Co. for all the ore taken out of this particular chute. The management is so well satisfied with the results obtained that the step has been taken of contracting with the Spokane Diamond Drill Co. to do at least 1,000 feet of work in further testing the capacity of the property. The drill will be in shape to commence operations early next month.

It is gratifying to know that the directors are thoroughly satisfied with the nature of their property and with the results of the work already accomplished. President Magee, who was out for his third visit this summer, spoke enthusiastically of the prospects, not only of the *Betts & Hesperus* but of the whole district, and we shall see with immense pleasure this property join in the list of shipping mines, and swell not only the pockets of the company, but the prosperity of the immediate district.

✓ The *Wolfard*, not far from the *Betts & Hesperus* mineral claims, in Wellington camp, has had 120 feet of tunnelling and 1,000 feet of diamond drill work done upon it during the year 1905. A cook-house, 16 by 30 feet, and a bunk-house, 16 by 20 feet, have been built on the claim in the same period. The tunnel is all in ore, the general values ranging about \$5. There are about 3,000 tons of ore on the dump. The diamond drill cut through 384 feet of ore, 44 feet of which showed an average value of \$8 and the balance ranging from \$5 to \$6. Besides the above there is a tunnel 55 feet long, one shaft 54 feet and another 28 feet deep, besides considerable work in prospecting cuts.

Wolfard. Claim

| | |
|----------|------------|
| 1 Tunnel | 120 ft |
| 1 Tunnel | 55 ft |
| 1 Shaft | 54 ft deep |
| 1 Shaft | 28 ft deep |



AMP - 1

AMP - 3
J-F.M.P. OLD
C.W.P.F. LINE

This post
located & flagged

This post
located & flagged

WOLFARD L1702

AMP - 4

AMP - 2

Adit

WKP+L LINE

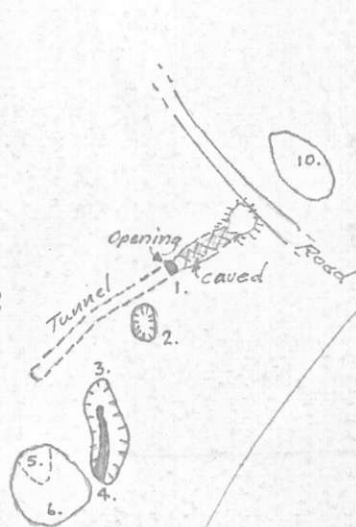
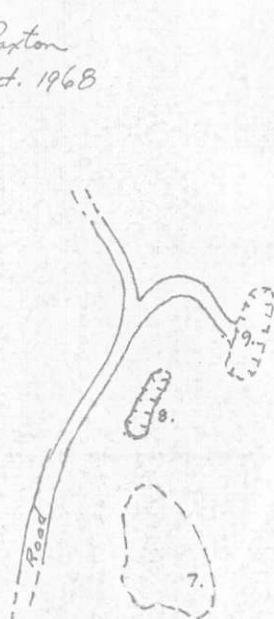
WOLFARD CLAIM +
AMP GROUP
1" = 400'



Sketch Map

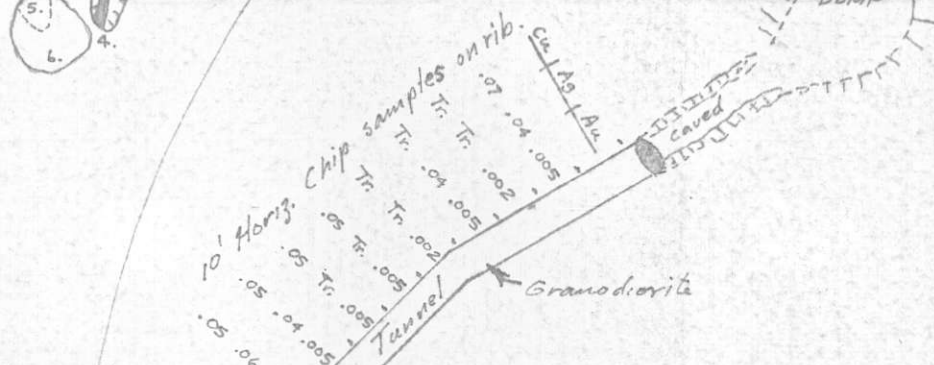
1" = 100'

J. Paxton
Oct. 1968



Sketch Plan
1" = 40'

J. Paxton
Oct. 1968



NOTES

1. Granodiorite - scattered pyrite
2. Dark green andesite. Very fine grained with scattered pyrite
3. Dk green andesite with much fine grained massive pyrrhotite Occasional veinlets of chalcopyrite
4. Garnet skarn with much massive pyrite & pyrrhotite
5. Thin bedded, pale green argillite
6. Diorite similar to 1.
7. " " "
8. Recent stripping. Andesite argillite contact. Much pyrite and pyrrhotite
9. Cat stripping? Garnet skarn with pyrite & magnetite
10. Chloritic breccia.

Dark red quartzite skarn with pyrite
Contact irregular
Two samples of similar rock from the dump ran as follows:

Sample 16847 (magnetic)

| | |
|----|------|
| Cu | 4.90 |
| Ag | .06 |
| Au | .01 |

Sample 16848 (non magnetic)

| | |
|----|------|
| Cu | .57 |
| Ag | Tr. |
| Au | .007 |

The area is covered with very thick second growth brush. Tunnel is filled with 2 1/2 feet of water.

THE GRANBY MINING CO LTD.

WOLFARD TUNNEL

AMP CLAIMS

J. PAXTON

OCT 1968



100



Quinalta Group
Orville Burkinshaw

1 Tunnel 120'
 1 Tunnel 55'
 359.7 1 shaft 54' } 1905
 1 shaft 28'

1ST 2ND 3RD 4th
 $\frac{1}{1}$ $\frac{4}{3}$ $\frac{8}{4}$ $\frac{2}{1}$
 MPH
 REVS
 MPH
 REVS

AMP GROUP

Scale 1" = 1/4 mile

Reference: Air-photo B.C. 2861-31
 Min. Ref. Map No 6 1931

HCT CaCO3

The Granby Mining Company Limited
PHOENIX COPPER DIVISION

THE WOLFARD CLAIM AND THE STAKING OF THE WET AND AMP CLAIM GROUPS

In the 1905, B. C. Minister of Mines Report there is the following interesting reference to the Wolfard claim L1702 situated approximately four miles southeast of Phoenix. "The Wolfard, not far from the Betts and Hesperus Mineral claims, in Wellington camp has had 120 feet of tunnelling and 1000 feet of diamond drill work done upon it during the year 1905. A cook-house 16 by 30 feet, and a bunk-house, 16 by 20 feet have been built on the claim in the same period. The tunnel is all in ore, the general values ranging about \$5. There is about 3,000 tons of ore on the dump. The diamond drill cut through 384 feet of ore, 44 feet of which showed an average value of \$8 and the balance ranging from \$5 to \$6. Besides the above there is a tunnel 55 feet long, one shaft 54 feet and another 28 feet deep besides considerable work in prospecting cuts."

Mr. Fahrni, chief geologist of Granby, has checked the report of this drilling with a geologist who knew the geologist who did the drilling and and seems to be authentic.

On March 22, 1968, four claims (AMP Group) were staked to cover the suspected location of the Wolfard Claim which had reverted to the Crown several years previously and which appeared to lie partially on open ground.

Following this in June, several leased crown grant claims came open due to non payment of rent and an application was made for them by Granby. Sixteen claims were staked over them, (WET Group) to cover any open ground lying between them.

During August, the ground between the WET and AMP groups was explored and, contrary to the situation shown on the Government Claim Map, was found to be open. The WET group was then extended westward and joined with the AMP group.

During October an intensive search was made on the AMP Claims and the following items were located:

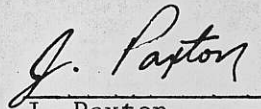
- (1) The two most northerly posts of the Wolfard claim.
- (2) Two shafts and one tunnel which agree in measurement quite well with those mentioned in the old 1905 report.
- (3) The posts of the Quinalta claims which partially overlap the Wolfard to the south.

In May 1968 a copy of a report had been received, covering the WALL claims, a group which lies just north of the Wolfard. This report was written by D.C. Malcolm, P. Eng., on behalf of Orequest Ltd., 808-837 West Hastings St., Vancouver, in October 1967. In this report Mr. Malcolm seems to think that the Wolfard claim lies within the WALL group, for while discussing the showings on the north part of the WALL, he refers to the 1905 report on the Wolfard and then states, "In 1905 a diamond drill hole below these workings intersected the underlying limestones and 384 feet assayed approximately 0.04 oz. per ton gold, 0.3 oz. silver, and 1.28% copper."

The tunnel on the Wolfard was found to be mainly in grano diorite with only the face at the end in skarn. The granodiorite contained very little copper mineralization. The red quartzitic skarn found at the very end of the tunnel and on the dump contained chalcopyrite and magnetite. This may not be the tunnel mentioned in the old report. Above the tunnel there were several trenches and gossan areas with heavy pyrite mineralization and scattered copper mineralization. Quinalta has drilled several short pack sack drill holes in these trenches, and, according to the man who drilled them, Mr. Fred Poznikoff of Grand Forks, intersected values around 0.8% copper.

Recommendations

- (1) It is recommended that an effort be made this winter to option or lease a block of claims joining the WET and AMP claim groups to the Phoenix Mine property. The reasons are as follows:
 - a. Scurry Rainbow Oil Ltd. is committed to doing \$450,000 worth of work on the Sabina property over the next three years.
 - b. Most of the claims in the block outlined are held by private individuals with limited financial resources and their claims could be optioned now for a reasonable price. This would not be the case if a strike was made on the Sabina property.
 - c. The geological setting of the block is favorable. Several limestone contacts cross it, and it is on a linear trend of mineral showings running southeast from Phoenix. The Wolfard claim plus the old Athelslan-Jackpot and Hesperus mines plus numerous surface showings are included in it.
 - d. Although well prospected in the old days, no modern geophysical surveys or detailed geological surveys have been done on the ground. Particularly, no I.P. work has been done as far as it known.



J. Paxton
Geologist

JP/lc

cc: 4