

105 D/3-1

105 D/3

Preliminary **Account of the Present State of the Wheaton River Antimony Deposits** Sept. 17th 1940.

Antimony prospects have been ^{reported} ~~found~~ in a east and west belt from near Millhaven ~~on~~ Lake Bennett to the head of Watson River. (see Whitehorse Trail & Wheaton maps '60A) Those upon which some work has been done lie on each side of the Wheaton river just north of latitude $60^{\circ}10'$ and between longitudes $135^{\circ}12'$ and $135^{\circ}22'$ or from the west fork of Baker creek to Chieftain Hill.

~~At~~ The deposits of this area are reached by road and ^{trail} from Robinson on the White Pass & Yukon Route railway.

The road, at present used by eight trucks and cars, goes as far as the bridge over Wheaton River. From there old trails following former roads and used by light buggies (knockboards) extend to the ~~deposits~~ ^{claims} of the former deposits. In spring & summer, however, the lack of a bridge over the Wheaton River makes it impossible in time of high water.

The whole road system to the properties could be easily reconstructed into good all year truck roads, ^{as} the routes

follow gravel benches & sidehills of mainly of gravel.

The chief obstacles are the ~~the~~ Wheeler River, and
Lobson River and a swampy area north, Annie

valley. The east two are not important. The vegetation

shows that the insolation in the district is very light

and that there is an little permafrost, frozen ground

~~at the base~~ in the valleys.

At present nearly all the workings of the properties

are caved and filled in but some that could be seen

the following are the important properties in a sequence.

1. Becker Cochran Property now owned by M. W. McAllister
2. ~~hadley~~
3. Chieftain Hill.
4. Empire veins.

1. Becker Cochran property. This is at an altitude of 5100'

in a small gulch at the head of a little creek running from the

north west into the west fork of the main west fork of Becker creek

or at latitude $60^{\circ} 10' 06''$ longitude $135^{\circ} 13' 30''$

approximately (see map COA). Here during the last few days

the men (3) under M. W. McAllister have dug out an old tunnel

Strike of shear zone is about 110° to 120° . The lack of the
 walls makes its determination a little indefinite. Dip
 seems to be vertical. On Sept 9th the tunnel was
 still filled with water & when visited, ^{again} on 10th though
 drained it was still not lagged & in a very dangerous
 state as the zone is very loose & pieces kept falling
 in from the roof and in one place at ~~the~~ the mouth it
 had come up to 12 feet high. This prevented sampling
 the top of the tunnel but a sample was taken across
 the face and samples of the vein material taken.
~~All the better~~ This, the workings on Gaddells claims
 and that on Chipton hill strike 85° to 115° approximately.
 At Gaddells and on Chipton hill the veins
~~and seem to follow persistent~~ fracture zones. This
 suggests that the ~~vig~~ shear zone on this property
 is of a persistent nature, in fact there seems to be a
 chance that it lines up with that of Gaddells claims.
 The camp is at 4000 feet at the junction of the branches
 of the west fork of Becker creek. The present trail is
 steep but as the whole of the slopes are of a small slide

and
 rock, it would not be hard to bulldoze a better grade
 to the property for a road. At present the buggy is
 used up to the camp. There is timber in the valley
 below the camp and in Becker creek valley.

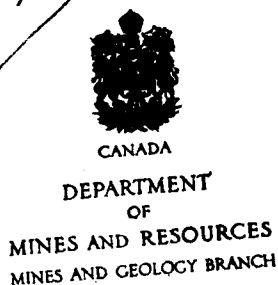
There is between 300 and 400 feet of hill above the level
 Presumably the property would be worked
 of the present working. ~~There is no reason to expect that the~~
 by a tunnel into the hill about 100 to 150' below. ~~is~~
~~shear zone (and seismicity)~~ It seems likely the shear zone

will continue along the strike both ways but except for an
 old trench to the east which seems to be too far south ~~for the~~
~~line~~ to pick it up there are no other workings. Large ~~chunks~~ ^{slabs}

4 to 6" thick ^{mainly} of ~~almost solid~~ ^{stibnite} have fallen out of the
 back of the tunnel and been ~~blown~~ ^{taken} out of the two open cuts.

BUREAU OF
GEOLOGY AND TOPOGRAPHY

104 D/13



Whitehorse

Sept 21st 1940

BECKER COCHRAN GR.

Dr. G. A. Young
Chief Geologist

Dear Dr. Young

I enclose herewith Aileen's account of the results of my visit to the tungsten area on Buttania creek and notes on my trip to the Wheaton River antimony area.

I regret that my account is so untidy but I have had to write it out with no time to do any rewriting of parts or correcting it as to get away on the air mail it must be in almost at once. However, I trust that if you should require information as to the state of the Wheaton antimony properties before I get back it will give you some idea of what condition they are in. The Beecher Cochran property is the best but probably both that and the Goddell's property are worthy of working if antimony is required as there is undoubtedly a considerable probable tonnage showing in both. ~~For~~ this area mining can be begun at any time of year and shipping can go on throughout the year. The stibnite on Hight creek found by M. S. Rossmoore

is still the cleanest looking stream of the lot. It is too bad it is so far away. The Empire group is disappointing.

Mr White of the Consolidated Mining and Smelting Co Ltd of Trail examined the Beecher Cochran property - On Sept-17th and has made some proposal ~~letter~~ to Mr W. Austin to take it over.

Yours very truly

Alfred S. C. Smith

PRODUCT Antimony	PROVINCE Yukon	MAP SQUARE	No.
NAME OF PROPERTY Becker Cochrane Group		DEVELOPMENT WORK One tunnel 100 feet long and a few side hill trenches.	
NEAREST POST OFFICE Whitehorse			
LOCATION Mining Division District Wheaton River County Township or Parish Concession or Range, and Lot L.S. Sec. Tp. R.		Equipped Not equipped	
OWNERS OR OPERATORS AND ADDRESS Latest operator Walter McAlister, Box 1526, Juneau, Alaska?		PRODUCTION None Material shipped Date of first shipment	
DESCRIPTION OF DEPOSIT Ore or substance Stibnite with other metallic sulphides and quartz. Character of Deposit Vein in much sheared zone in which more wide. Exposed by trenches for 250 feet about Indications are fracture is of persistent type. Country Rock Tertiary gneophyte and rhyolite and Coast range intrusives.		TRANSPORTATION Shipping point Truck can be driven from rail at Robinson to Wheaton river 16 miles. There, river must be Distance from mine forded and being a glacial stream is often impassable except in late summer fall and Carrier winter. At these times a waggon or buggy can be driven across and up an old wagon road to Destination the property 12 miles. MAP REFERENCES General and district maps G.S.C. Map 60A, Wheaton, 1 in to 1 mi. and 2071, Whitehorse, 1 in to 4 mi. Detail maps, plans, sections	

CTF 105 D/3-3

CENTRAL TECHNICAL

105 D/3-3

is exposed
GEOLOGICAL FILES

105 D/3
Chieftain Hill.

The Chieftain hill vein is exposed on the sides of the ~~draw~~ second draw south west of that marked Chieftain Gulch on maps 60A. It crosses the draw at 4700 there is only a narrow vein of quartz with a little sulphide scattered through it on the west side of the draw. The vein fracture continues here for exposed for about 250 feet before it is covered. On the east side the fracture zone continues. The vein material is it is only exposed in two places about 40 and 100 feet from the draw. Here there are in both places 3 to 4 feet of ground up vein matter consisting of quartz and with scattered lumps of stibnite and much decomposed yellowish white material perhaps having some oxidized carbonates in it. The stibnite forms only a very small percentage of it and is on the south side of the vein. The central part of the ~~vein~~ draw is completely filled with slide rock covering the locality where the original good showing was reported to be. The fracture zone seems to continue ~~right~~ on a strike of about 90° to the Chieftain valley though most of the way it is covered by slide rock and

PRODUCT Antimony

PROVINCE

CTI 105 1/3 3
Yukon

MAP SQUARE

No.

NAME OF PROPERTY Morning and Evening Claims and Chieftain Hill.

DEVELOPMENT WORK None

NEAREST POST OFFICE

105 0/3

LOCATION

Mining Division Wheaton District Whitehorse.

County Township or Parish

Concession or Range, and Lot

L.S. Sec. Tp. R.

Equipped
Not equipped

OWNERS OR OPERATORS AND ADDRESS

PRODUCTION None

Material shipped

Date of first shipment

TRANSPORTATION

Shipping point Truck can be driven from rail at Robinson to Wheaton river, 16 miles. There river must be forded, and being a glacial stream, is often impassable except in late summer, fall, and winter. At these times a wagon or buggy can be driven across and up an old wagon road to the destination property, 12 miles.

DESCRIPTION OF DEPOSIT

Ore or substance Stibnite

Character of Deposit Vein in shear zone.

MAP REFERENCES

General and district maps

Country Rock Mesozoic andesite.

Detail maps, plans, sections

CENTRAL TECHNICAL
105 D/3-2
GEOLOGICAL FILES

C.T.F. 105 D/3-2
105 D/3

2. Goddell's Claims are not held by anyone so far as prospectors here know. ~~At 4000' elevation~~
The showing is in a large shear zone exposed ~~in~~ in a steep rocky draw on the north west face of Carbon Hill. On map 60A the draw is shown as the only one connected to Wheeler River between Antimony Creek and Battle creek on the opposite side. The ~~veins~~ shear zone crossed the main draw at 4000' (^{which is} 200' higher than shown on the map) coming down the first tributary draw from the east. The shear zone is ~~a number~~ of 50 feet wide or more and has in it two or more, perhaps 4 sulphide veins and some quartz veins (pyrite etc) carrying little sulphide, where exposed. The sulphide veins mentioned are composed of quartz and sulphide - mainly sulphide which is stibnite and jamesonite?. The zone continues up the mountain ^(to the east to elevation of 5700') and down into Wheeler valley to the west. Every ~~place~~ here and there with ~~few~~ only a few gaps over 100 feet sulphide vein outcrops are exposed in the cliffs up to 4850' elevation. Above this

no vein outcrops were visible in the slide rock which covers ~~most~~ nearly all of the upper part of the shear zone.

The sulphide vein material is in solid widths up to 13" wide but in one place a width of about 5' mainly

(sulphide with some quartz)
of vein material is exposed. Average widths of the vein

material are 6 to 10 inches, that is fairly solid sulphide.

105 D/3. LTF 105 D/3-4

Empire-Porter Group. The 1100 feet of underground work

mentioned in the reports is all in one place ^{at the head of} ~~and seems to~~
Antimony creek at 5000 feet elevation. ^{It}
~~have been more a loss of a wild hunt for a and revealed~~
nothing carrying stibnite in any appreciable quantity.

From this working ~~side~~ north westward for $\frac{3}{4}$ of a
miles scattered and mainly filled side hill cuts were
found. South of the north ^{branch} of the two NE branches of Antimony
Creek these cuts show a number of small quartz stringers
carrying small patches of stibnite and other sulphides. Not
even any encouraging float or picked out specimens
were to be found about these cuts. North of this branch
of Antimony creek on the nose between it and the draw
north of Antimony creek are a great many filled trenches
and cuts. ~~Outside~~ On the sides of ~~these~~ some of these
trenches are some piles of a few hundred pounds of
clumps of "solid" stibnite showing that they have come
from veins of "solid" stibnite up to 6 or 8" thick. After
digging out some of these trenches only ^{two} ~~one~~ veins
were found. One was a stringer of stibnite $\frac{1}{2}$ to 1" wide

and the other is a quartz vein 1' 7" wide with
~~also~~ 5" of "solid" stibnite along the ~~long~~ footwall.

This vein has been traced by trenches for less than
250 feet over the nose but only in two trenches ^(part) 50'

does it hold ^{any} ~~the~~ stibnite. The lowest trench over-

looking Antimony creek at 4650' held the 5" of stibnite

This vein unlike those of the other areas (1, 2 & 3.) ~~is~~

strikes ^N ^E 7° dips 32° W.

PRODUCT ~~Te~~ Antimony

PROVINCE Yukon

ETF 105 D/3-4

MAP SQUARE

No.

NAME OF PROPERTY ~~Poster-Empire-Fleming~~ groups.

DEVELOPMENT WORK At south end of area - old Poster adit comprising 1100 feet of underground working in which one small patch of vein material. Much trenching now filled in on north part of area. Trenches expose one vein of stibnite 8 inches wide, fairly solid.

NEAREST POST OFFICE Carcross

LOCATION

Mining Division

District Wheaton river.

County

Township or Parish

Concession or Range, and Lot

L.S.

Sec.

Tp.

R.

Equipped
Not equipped

OWNERS OR OPERATORS AND ADDRESS

PRODUCTION None

Material shipped

Date of first shipment

TRANSPORTATION Truck can be driven from rail at Shipping point Robinson to Wheaton river, 16 miles. Conditions are same as for Becker Cochrane. Distance from mine

Carrier

Destination

DESCRIPTION OF DEPOSIT

Ore or substance Stibnite in veins of quartz and barite and small amounts of ~~zinc~~ other sulphides.

Character of Deposit

MAP REFERENCES

General and district maps

Detail maps, plans, sections

Country Rock Mesozoic andesite and granitic intrusives.

100031

092050