GEOLOGICAL REPORT ON THE

SNELL CREEK PROPERTY

OMINECA MINING DIVISION

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,977
GEOLOGICAL REPORT ON THE

SNELL CREEK PROPERTY

Omineca Mining Division
55°41' North Latitude
125°28' West Longitude
N.T.S. Map 93 N/11

For:

AMIR MINES LTD.
Suite 510 - 475 Howe Street
Vancouver, B. C.
V6C 2B3

By:

Carl Edmunds, B.Sc. Geology

BEMA INDUSTRIES LTD.
203, 19945 - 56 Avenue
Langley, B. C.
V3A 3Y2
1.0 INTRODUCTION

The Snell Property consists of 4 two post claims located on Silver Creek 14 kilometres north of Bralorne's Takla mercury mine on the Pinchi Fault zone. The claims are owned by Kengold Mines Ltd. under option to Amir Mines Ltd. There are two siliceous zones of Hg-Sb mineralization on the property hosted by sheared Permian Cache Creek group rocks.

1.1 LOCATION AND ACCESS

The Snell property is located in the Omineca Mining Division approximately 145 kilometres northeast of Smithers and 40 kilometres northeast of Takla Landing. Access is via rough seasonal road 170 kilometres north of Fort St. James through Manson Creek. It is passable during the summer months from June 1 - October 30. (See Figure 1.)

1.2 PHYSIOGRAPHY

The Property is located along the Eastern side of the broad, flat Silver Creek Valley approximately 1.5 kilometres north of the Kenny Creek junction. Snell Creek joins Silver Creek flowing from the east through a 6 metre wide canyon-like nick in Silver Creek's valley wall. The eastern half of the property slopes into the Silver Creek drainage which comprises the western half of the property.

Snell-Silver Creek junction has been recently flooded to a depth of 35 centimetres due to the activity of beavers. The valley walls are thickly vegetated with jack pines and alders.

1.3 PROPERTY

The Snell Creek property consists of 4 two post mineral claims. A list of these claims follows: (See Figure 2)
VITAL CREEK CLAIMS
CHIN 1-6
4682(8) - 4687(8)

KENNY CREEK CLAIMS
KEN 1
2144 (9)

SNELL CREEK CLAIMS
SNELL 1-4
4589(5), 4591(5),
4593A(5), 4594(5)

LOCATION MAP
From: B.C. CLAIM MAPS 93 N/11, 93 N/12

AMIR MINES LTD.
OMINECA GOLD PROGRAM
VITAL, SNELL AND
KENNY CREEK LODE CLAIMS
LOCATION MAP

DATE: JAN. 1983
These claims are under option to Amir Mines Ltd.

1.4 HISTORY

The Snell property was first staked by G. Snell and Associates in the summer of 1941. It was then optioned to Bralorne Mines Ltd. Cominco Ltd. held the property under option until 1944. During this time extensive surface work was undertaken including diamond drilling and trenching. The diamond drilling outlined two zones of Hg mineralization: one near the east bank of Silver Creek valley and the other 180 metres to the east up Snell Creek. An attempt to reach the eastern zone was made in 1943 and 1944 by driving two adits into the valley slope. The adits both encountered an infilled paleo-channel after approximately 60 metres and were abandoned.

In 1958 the ground was explored by Bralorne Mines Ltd., Noranda Exploration and Canex Aerial Exploration Ltd. as part of the AMY group. Work included hydraulicking (14,000 yds. 1), bulldozing and mapping. In 1959 27,000 yds. 2 were stripped off, exposing another cinnabar showing approximately 180 metres further north along strike from the adits. Work in 1960 continued the hydraulic stripping. The latest work carried out in 1965 and 1966 by Noranda and Canex involved soil geochem surveys, mapping and drilling a total of 868 feet around the showings in three holes.

1.5 PRESENT WORK

Amir Mines Ltd. contracted Bema Industries Ltd. to examine the property as part of the Kengold package. Two days were spent on the property collecting specimens of float, and of
the cinnabar showings. The drill core in the collapsed, half
submerged cabin was also examined and sampled.

1.6 BIBLIOGRAPHY

Armstrong, J. E. 
Fort St. James Map-Area, Cassiar and
Coast Districts, British Columbia, Mem.
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Reports of the Minister of Mines,

Monger, T.W.H. and 
Paterson, I. A. 
G.S.C. Current Research 74-1, pp. 8 - 9
Upper Paleozoic and Lower Mesozoic
Rocks of the Omineca Mountains. Proj.
720091 (1974).

Paterson, I. A. 
H.S.C. Current Research 74-1 Part B,
pp. 31 - 42, Geology of the Cache Creek
Group and Mesozoic Rocks at the Northern
End of Stuart Lake Belt, Central British

Germundson, K. 
Noranda-Canex-Bralorne Report, Snell

Malcolm, D. L. 
2.0 REGIONAL GEOLOGY

The Snell Creek property lies within the deformed Upper Paleozoic strata within the Intermontane Tectonic belt immediately to the west of the Quesnel trough, separated by the Pinchi fault.

The Pinchi fault is the main structural feature in the area (see Figure 3), separating Permian rock on the southwest from Upper Triassic rocks to the east. The Permian rocks were mapped by I. A. Paterson (in 1974) as the northern extension of the Stuart Lake belt and he recognizes three subdivisions west of the Pinchi fault.

Immediately west of the fault is a narrow belt of Upper Triassic or Lower Jurassic chert pebble conglomerate, argillite and sandstone. These rocks are separated from the main belt of Permian Cache Creek Group rocks to the west by a narrow northeast-dipping fault zone containing serpentine and greenstone. The main belt of Cache Creek rocks west of the two previous subdivisions is a package of phyllite, greywacke, and massive limestone containing Mid to Upper Permian fossils. Just east of Takla Lake the Cache Creek rocks are in contact with Upper Triassic (Takla Group) volcanic and volcanoclastic rocks along an easterly dipping thrust-melange zone.

The eastern two subdivisions of rocks immediately west of the Pinchi Lake fault are metamorphosed and faulted but not folded, whereas the Cache Creek Group rocks have been metamorphosed to lower greenschist facies and undergone at least three stages of deformation. The oldest structures include a penetrative foliation generally parallel to compositional layering which marks the orientation of axial planes of mesoscopic, east-west trending, tight or isoclinal folds. Later chevron or concentric folds trend north-south with eastward dipping axial planes. The last deformation stage are kink folds related to late faulting.
3.0 PROPERTY GEOLOGY

3.1 EXPOSURE

Exposure on the property is sparse confined to the Silver Creek valley walls and bluffy exposures related to the edge of a N-S paleochannel located on the eastern half of the property. Good continuous sections are exposed in the uncaved southern adit and at the mouth of Snell Creek.

3.2 ROCK TYPES

Rock units of the Upper Permian Cache Creek group and Mesozoic Takla group are exposed on the property. D. C. Malcolm (1965) recognizes 5 different units from the Cache Creek group west of the Pinchi Fault adjacent to younger Takla strata on the east.

Cache Creek Group

1. Brecciated grey-white limestone:

   This rock unit is highly fractured containing calcite veinlets (0.5 - 60 cm.). A later generation of fracturing altered the rocks to ferro dolomite and chalcedony infilled the fractures.

2. Sheared serpentines:

   This rock unit is medium dark green and has a brittle, siliceous, mariposite-quartz carbonate alteration around its contacts.
3. Andesite

This rock unit is a purple-green, aphanitic rock commonly containing disseminated pyrite. It is relatively unaltered.

4. Argillite

Occurs as a very tectonized, dark grey schist and is rarely exposed.

5. Schist

These rocks are the fine to medium grained light grey quartz-sericite-chlorite phyllites typical of the western (Kenny Creek-Vital Creek) exposures.

3.3. STRUCTURE

The dominant structural features of the Snell Creek property is the Pinchi Fault, running along the Silver Creek valley. Sediments of the Cache Creek group exposed and drilled during the 1940's, 50's and 60's are folded in tight upright isoclines with their horizontal axes paralleling the Pinchi Fault. These isoclines have been sheared and separated along splay of this major fault zone. Germundson (1966) has produced the reference map of the property. (Assessment Report #03006.)

3.4. MINERALIZATION

On the Snell property there are two 20 - 30 metre (strike length) zones of cinnabar mineralization. These are located in Figure 4. The showings typically consist of fine grained, red, rusty hematite and cinnabar rich "mudstone" textured ore. Apart from their distinctive colour they are featureless. Structural control over these sulphide bodies is related to the Pinchi Fault.
4.0 CONCLUSIONS

1. Three cinnabar-hematite and minor stibnite occurrences (one drill-indicated zone 200 metres to the east of the mouth of Snell Creek, and two exposed along the edge of the Silver Creek valley) are present on the Snell property. The two exposed showings have low grades running 0.004 - 0.007\% Hg. 2 - 5 lbs. Hg per ton (0.10 - 0.25\% Hg) has been reported from higher grade drill intersections and trenched zones.

2. Repeated brecciation of Cache Creek group limestones by carbonate, silica and Hg-Sb bearing fluids are common features to the geology of this property. These features may be indicative of an epithermal precious metal (Au-Ag) deposit which has subsequently experienced tectonism related to Pinchi Fault movement.

3. This whole area along the Pinchi Fault is a favourable Au-Ag epithermal (Fossil Hotspring) vein type exploration target on grounds of element association and tectonic setting. Bralorne-Takla's 1940's Mercury Mine is located 14 kilometres to the south on the Pinchi Fault and the Merc claims are located 4 kilometres NNW from Snell on the same structure. The "Lustdust" Sb-Au property occurs 17 kilometres south along strike in the Cache Creek group and also there is the obvious placer Au+Ag accumulations in the drainages of Kenny, Vital and Silver Creeks.

RECOMMENDATIONS

1. An interest be kept in the property for its potential as an exploration target and as a placer deposit in the paleochannel to the east.

2. Further hardrock exploration should be directed at exploring the potential of the drill indicated ore zone 200 metres east of the Snell-Silver Creek Valley junction and to the area of the Silver Creek Valley.
STATEMENT OF QUALIFICATIONS

I, FREDERICK CARL EDMUNDS, of Bema Industries Ltd., do hereby certify that:

1. I am a graduate of the University of Edinburgh, Scotland, and hold the following degree:
   B.Sc. Honours Geology

2. I have practiced my profession as a geologist since 1983 and worked summers as a geological assistant since 1979.

3. I have no interest, direct or indirect in the property or shares of Amir Mines Ltd. nor do I expect to receive any such interest.

4. That the information contained in this report is both true and correct to the best of my knowledge.

Signed: Frederick Carl Edmunds

F. Carl Edmunds
B.Sc. Geology

Date: DEC 19 1983
## ROCK CHIP SAMPLE DATA

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SNELL 1 - 4 (4 2-post claims) ($400/yr)

SUPPLY, ROOM & BOARD
($9,754.58 - total cost to Omineca projects.)
Snell 1 - 4 is 2.3% of total cost $224.36

TRAVEL EXPENSES
($7,264.22 - total cost to Omineca projects.
20% or $1,452.84 will be applied for assessment.)
Snell 1 - 4 is 2.3% of applied assessment total. 33.42

ASSAY COSTS
Chemex Labs - rock samples 112.38

FIELD LABOUR
C. Edmunds, geologist - Sept.1, Oct.4,5
2 days x $175.00/day $350.00
G. Picken, geologist - Oct. 4, 5
1 day X $175.00/day 175.00
Total field labour 525.00

OFFICE LABOUR
C. Edmunds, geologist - Nov. 10
1 days x $175.00/day 175.00
Total office labour 175.00

TOTAL PROJECT COST $1,070.16
MINERAL ACT

STATEMENT OF EXPLORATION AND DEVELOPMENT

1. AMR MINES LTD

   650 - 576 HOWE STREET
   VANCOUVER, B.C.

   V6C 2B3

   Valid substituting F.M.C. No. 251826

   Agent for

   [Name]

   [Address]

   [Postal Code]

   [Telephone Number]

   [Name]

   [Address]

   [Postal Code]

   [Telephone Number]

   Valid substituting F.M.C. No.

STATE THAT

1. I have done, or caused to be done, work on the SNEC.1:4 (2 Post)

   Record No(s). 4598, 4597, 4593, 4594.

   Situate at 93 N. 11 W (SNEC 1:4) on the OMNITCA.

   To the value of at least 1071.66 dollars. Work was done from the 1st day of SEPTEMBER 1983 to the 10th day of NOVEMBER 1983.

2. The following work was done in the 12 months in which such work is required to be done:

   (COMPLETE APPROPRIATE SECTION(S) A, B, C, D, FOLLOWING)

   A. PHYSICAL

   [Trenches, open cuts, adits, pits, shafts, reclamation, and construction of roads and trails]

   (Give details as required by section 12 of regulations.)

   COST

   TOTAL PHYSICAL

   I wish to apply $ of physical work to the claims listed below.

   [State number of years to be applied to each claim, its month of record, and identify each claim by name and record no.]

   B. PROSPECTING

   [Drills in report submitted or section 8 of regulations]

   [The itemized cost statement must be part of the report.]

   COST

   I wish to apply $ of this prospecting work to the claims listed below.

   [State number of years to be applied to each claim, its month of record, and identify each claim by name and record no.]

   (For C and D sections, please turn over.)
C. DRILLING

(Details in report submitted as per section B of regulations.)
(The detailed cost statement must be part of the report.)

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D. GEOLOGICAL, GEOPHYSICAL, GEOCHEMICAL

(Details in report submitted as per section B, E, or F of regulations.)
(The detailed cost statement must be part of the report.)
(State type of work in space below.)

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TOTAL OF C AND D $070.16

Who was the operator (provided the financing)?

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Portable Assessment Credits (PAC) Withdrawal Request

Amount to be withdrawn from owner(s) or operator(s) account(s):

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TOTAL OF C AND D PLUS PAC WITHDRAWAL

I wish to apply $800.30 of this work to the claim listed below.

(State number of years to be applied to each claim, its month of record, and identify each claim by name and number.)

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Value of work to be credited to portable assessment credit (PAC) account(s).

(May only be credited from the approved value of C and D not applied to claims.)

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In owner(s) name:

1. AMIR MINES LTD
2. 
3. 

In operator(s) name (party providing the financing):

1. 
2. 
3. 

Signature of Applicant