MAP NO.: 105 D 2

ASSESSMENT REPORT
PROSPECTUS
CONFIDENTIAL
OPEN FILE

DOCUMENT NO: 093016
MINING DISTRICT: WHITEHORSE
TYPE OF WORK: PROSPECTING, SAMPLING

REPORT FILED UNDER: G.S. DAVIDSON

DATE PERFORMED: SEPT 7, 1990, JULY 17, 18, 1991
DATE FILLED: MARCH 24, 1992

LOCATION: LAT.: 60°01'N
AREA: WINDY ARM
LONG.: 134°38'W

VALUE $: 800

CLAIM NAME & NO.: STR 1-2 YB27864-YB27865

WORK DONE BY: GRAHAM DAVIDSON

WORK DONE FOR: GRAHAM DAVIDSON

DATE TO GOOD STANDING: REMARKS: 105D 002 CLAIMS WERE STAKED OVER EXPIRED UNITED KENO
CLAIMS. WORK INCLUDED RESAMPLING THE VEIN OCCURRENCES. VEINS ARE
HOSTED BY MESOZOIC DIORITE AND VOLCANICS. MINERALIZATION IS SIMILAR
TO VENUS VEIN ON OTHER SIDE OF WINDY ARM.

TO VENUS VEIN ON OTHER SIDE OF WINDY ARM.
From: Mining Recorder at: Whitehorse  
To: Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

- [ ] NEW APPLICATION FOR PLACER LEASE TO PROSPECT
- [ ] RENEWAL APPLICATION PLACER LEASE TO PROSPECT
- [ ] AFFIDAVIT OF EXPENDITURE ON PLACER LEASE
- [ ] SECURITY DEPOSIT
- [ ] FINANCIAL ABILITY
- [ ] ASSIGNMENT OF PLACER LEASE NO.
- [ ] GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT.
- [ ] DIAMOND DRILL LOGS
- [ ] QUARTZ ASSESSMENT REPORT

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Submitted by
Prospecting, Sampling Graham Davidson

Cost work performed on
STR 1-2

100.00

Signature

Date returned

093016

Signature
ASSESSMENT REPORT

on the

STR 1-2 CLAIMS

Windy Arm, Tagish Lake

Lat. 60 01' N, Long. 134 38' W
NTS 105 D-2

Whitehorse Mining District

By: G.S. Davidson, P. Geol.

March, 1992
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INTRODUCTION

The STR claims were staked in August, 1990 to cover gold and silver bearing quartz veins on the north face of Mount Patterson. The mineralization is exposed in old pits and adits in a high cirque above Old Lady Lake, east of Windy Arm, Tagish Lake. The showing was originally discovered in the early 1900’s and lies across the lake from the Venus minesite. The remains of several old buildings lie in a flat area of rocky talus at the base of the cirque.

The property consists of 2 quartz claims staked by the writer; registered in the Whitehorse District office.

This report summarizes exploration work undertaken in 1990-1991 by Harris & Associates Exploration. The writer's most recent visit to the property was in July, 1991.

A $30,000 exploration program consisting of reconnaissance traverses, mapping, geochemistry, geophysics and trenching is recommended for the property.

LOCATION AND ACCESS

The property is located 20 km south of Carcross on the British Columbia-Yukon border, east of Windy Arm, Tagish Lake. The Klondike highway, connecting Whitehorse to Skagway Alaska runs along the west side of Windy Arm passing within 5 km of the property. Presently the claims are accessible by helicopter. Figures 1 and 2 show the location.

PHYSIOGRAPHY, VEGETATION, CLIMATE

The STR claims cover the rugged north facing slope of Mount Patterson. Cliffs, bedrock and blocky talus fans fall to a level debris pile at the base of the slope.

The lower adit is located on the south side of the cirque beside a small stream approximately 25 m above the debris pile.

Vegetation consists of alpine grasses and buckbrush.

The Tagish Lake area lies on the western side of the Coast Mountains in a northern interior climatic zone. The weather is influenced by the proximity to the Pacific Ocean. Generally, summers are cool and dry, while winter temperatures are highly variable and snowpack average 2-3 m.
Yukon Territory
Area: 478,034 sq. km.
Population: 25,000
Capital: Whitehorse

FIGURE 1
LOCATION MAP
PROPERTY

The STR claims consists of 2 units registered with the district Mining Recorder in Whitehorse Yukon. An expiry date of August 27, 1993 has been applied for. Figure 3 shows the claim plan.

HISTORY

The Tagish Lake district was first explored by prospectors in the early 1890's. The Klondike Gold Rush brought thousands of would-be gold seekers through the area from 1897-1899. Gold and silver bearing quartz veins were discovered around Bennett and Tagish Lakes and in the Wheaton River drainage. High-grade mining operations at the Engineer mine on Taku Arm, and the Venus and Big Thing mines on Montana Mountain produced gold and silver periodically during the early 1900's. Colonel Conrad directed exploration and mining activities on Montana Mountain. Aerial tramways were extended from the shore of Windy Arm to the mineralized quartz veins. A mill was constructed below the Venus vein to process the high-grade ores. The towns of Conrad and Wynton, on the west shore of Windy Arm, housed the miners and prospectors.

By the early 1920's the camp was abandoned, remaining quiet until the late 1960's when both the Arctic and Venus mines were reopened for several years.

In 1980-1981 United Keno Hill Mines Ltd. redeveloped the Venus vein and constructed a 100 ton/day mill at the south end of Windy Arm. A decline in metal prices precipitated the end of operations at the Venus Mine in 1981.

The history of the workings covered by the STR claims is reported by D.D. Cairnes (1908) in G.S.C. Memoir 284, p. 255. "Some work was done this summer on the Rams Horn on the east side of Windy Arm, and a very good looking quartz ore carrying galena, zinc blende, chalcopyrite and arsenopyrite were seen there, but the veins examined were too narrow to, be profitably worked"

Two adits were collared on steeply dipping quartz veins on the face of Mount Patterson. The uppermost adit is 10 m in length. The lower adit is larger and a short decline suggests that some high grade ore may have been mined. Higher on the slope four blast pits uncover mineralized quartz veins and massive pyrrhotite.
FIGURE: 3
CLAIM PLAN
NTS 105 D-2
1:30,000
The adits have been staked numerous times since the 1950's. Premier Mining Corporation acquired the claims in 1968 and performed mag and soil sampling surveys.

REGIONAL GEOLOGY

The Tagish Lake district overlies the contact between deformed volcanic and sedimentary rocks of the Intermountain Belt and the younger volcanic and intrusive suite of the Coast Intrusions. Montana Mountain and Mount Conrad are underlain by Cretaceous volcanic rocks, mainly intermediate to felsic pyroclastics and flows. A strong northwesterly trending normal fault separates the volcanics from Lower Jurassic Laberge Group siltstones, greywackes and argillites to the south.

North of Mount Conrad Mesozoic diorite and metavolcanic rocks lie in fault contact with Cretaceous units. Tertiary rhyolite and porphyry dykes intrude the older units. Mineralized quartz veins occur in fracture zones or in close proximity to these felsic dykes. Figure 4 shows the geology.

1991 EXPLORATION

The STR claims are underlain by diorite, metavolcanic rocks and skarn. Quartz veins and sulphide mineralization occur as lenses along shears in dioritic rocks. The quartz veins range from 10-90 cm in width and contain bands of arsenopyrite. Lenses of sulphides consist of variable amounts of galena, sphalerite, arsenopyrite, pyrrhotite, chalcopyrite and pyrite. Mineral zoning or banding, similar to the Venus quartz vein, is present in several of the wider lenses.

The adits were collared on two separate veins. The lower adit follows a 20-75 cm wide quartz and sulphide lense which strikes 060deg. and dips 25 deg. north. The lense pinches and swells along strike and terminates at a fault. Sulphide mineralization consists of arsenopyrite, galena, sphalerite and chalcopyrite as coarse crystalline masses or in fine-grained bands.

The upper adit is 10 m long and cuts a 25-50 cm wide quartz-arsenopyrite vein that strikes 55 deg. and dips 62 deg. north. The trace of the vein above the adit is strongly stained but it terminates at a 2-3 m wide north trending quartz breccia zone.

A third quartz-sulphide lense located 75 m above the upper adit is exposed in three old pits. The mineralization appears to be a strataform lense approximately 70 m long and up to 2 m thick that strikes 035 deg. and dips 45 deg.SE. It consists of pyrrhotite, sphalerite, galena, chalcopyrite, arsenopyrite and quartz or rusty greenstone. A 15 cm wide quartz-arsenopyrite vein cuts the lense.
LEGEND

MIDDLE CRETACEOUS
kMv.2 - Felsic flows, tuff

MESOZOIC
Mn - Diorite, Greenstone
    Metavolcanics

PERMIAN -
CARBONIFEROUS
CPk - Chart and minor
    siltstone,
    sandstone &
    limestone

Fig 4
Above the old camp another quartz-sulphide lense (North Vein) is exposed in an old cut.

The 1991 exploration work involved rock sampling and prospecting. Three days (Sept. 7, 1990; July 17&18, 1991) were spent on the claims and eighteen rock samples were collected. Figure 5 shows the property map, and sample descriptions and values are contained in Table 1.

**TABLE 1-SAMPLE DESCRIPTIONS AND VALUES**

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East of the STR claims, chalcopyrite was found in float over a wide area. Two samples (STR 5&8) contained anomalous copper and silver values.
DISCUSSION

Mineralized quartz veins and lenses similar to those on Montana Mountain, in the Wheaton Valley and the Tagish district occur on the STR claims. The quartz veins are hosted by Mesozoic diorite and metavolcanic rocks.

Structurally the property lies east of major northwest trending faults, the Nahlin and Llewellyn Faults. These Fault systems are the focus of gold exploration from the Wheaton Valley to the south end of Tagish Lake.

Veins and lenses exposed in the old workings on the STR claims are fairly narrow but the high grade mineralization occurs over a wide area and should be closely examined in a follow-up work program.

RECOMMENDATIONS

Future exploration should concentrate on mapping and sampling of the mineralized quartz zones. Geochemical and geophysical surveys, and geological mapping and blast trenching are recommended.

Prospecting, preliminary mapping and sampling should be performed on areas east of the claims to check for potential porphyry copper style showings.

The following program is proposed:

- Geological mapping and prospecting $4500
- Grid development, 20 km 4000
- Geochemistry, 250 samples 6250
- Geophysics, VLF & Mag 6000
- Camp and support 2500
- Transportation and mob. 2250
- Report and assessment 4500

TOTAL $30000
CERTIFICATE

I, GRAHAM DAVIDSON, of the City of Whitehorse, in the Yukon Territory, HEREBY CERTIFY:

1. That I am a consulting geologist and that I worked on the subject property in 1990 & 1991.

2. That I am a graduate of the University of Western Ontario (H. BSc., Geology, 1981).

3. That I am registered as a Professional Geologist by the Association of Professional Engineers, Geologists & Geophysicists of Alberta (No. 42038).

4. That I have been engaged in mineral exploration on a full time basis for eleven years in the Yukon and Northwest Territories, and British Columbia.

SIGNED at Whitehorse, Yukon this 15th day of March, 1992.

G.S. DAVIDSON, P.Geol.
REFERENCES

D.D. Cairnes, 1908; GSC Memoir 284, p.255.

Assay Certificate For Samples Provided

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Metals -- Aqua Regia Digestion/AAS Geochem

Work Order # 08367
File # 08367a
Project: Ramshorn
Northern Analytical Laboratories Ltd.

September 20, 1990
Graham Davidson
17 - 4076 - 4th Ave.
Whitehorse, Yukon
Y1A 4K8

Work Order # 08367
File # 08367b
Project: Ramshorn

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Certified by

105 Copper Road, Whitehorse, YT, Y1A 2Z7 Ph: (403) 668-4968 Fax: (403) 668-4990
Assay Certificate for Samples Provided

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Certified by: Chyokki
December 17, 1991

Bill Harris

Assay Certificate

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Certified by ____________________

105 Copper Road, Whitehorse, YT, Y1A 2Z7  Ph: (403) 668-4968  Fax: (403) 668-4890
STATEMENT OF COSTS

STR CLAIMS

Sample Analysis, NAL, 18 Samples          $450.00
Transportation, Heli-Dynamics,     .8hrs       $571.46
Camp and Supplies: 4 Man-days @ $35.00/day $140.00

TOTAL:                                  $1,161.46