

ASSESSMENT REPORTS


MAP No. 105 D 3
105 D 4

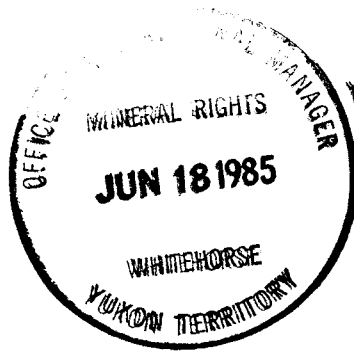
TYPE OF WORK: Geological, Trenching

REPORT FILED UNDER	Shakwak Exploration Company Ltd.		
DATE PERFORMED	November 1984	DATE FILED:	June 14, 1985
LOCATION -	LAT.	60°10'N	
	LONG.	135°30'W	
CLAIM Nos.	HO 1-8; YA82047-YA82054		
	HO 9-20; YA82985-YA82996		
WORK DONE BY	G.C. MacDonald		
WORK DONE FOR	Shakwak Exploration Company Ltd.		
REMARKS	<p style="text-align: center;">The Charleston property is underlain by mainly Mid-Cretaceous granite and granodiorite which intrude metasedimentary rocks of the Yukon Metamorphic Complex. A northwest-trending rhyolite porphyry dyke cuts the granodiorite on the HO 1 claim.</p>		
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A program of prospecting, trenching and sampling was conducted in November, 1984. Five old trenches were relocated on the Charleston C.G. and were mapped, reblasted and sampled. Prospecting on the HO 1 claim revealed a new zone approximately 106.7m south of the known vein which was exposed by blasting of two trenches across

the structure. Strike length of this zone exceeds 30.5m. The width is from 0.3m to 1.8m, and mineralogy is quartz and calcite with 2-5% sulphides (galena, pyrite, chalcopryite, tetrahedrite). Large samples (6-12 kg) from this zone assayed as follows: 1) 14.40 g/t Au, 671.98 g/t Ag and 2.9% Pb over 1.89m, 2) 17.83 g/t Au, 122.05 g/t Ag and 1.8% Pb over 0.61m, and 3) 86.40 g/t Au, 1011.40 g/t Ag and 13% Pb over 0.18m.





ASSESSMENT REPORT

**GEOLOGICAL MAPPING AND TRENCHING
HO 1-8 and HO 9-20 Mineral Claims
YA82047-82054 and YA82985-82996
NTS 105 D3, D4
WHITEHORSE MINING DISTRICT**

November 1984

by

Glen C. MacDonald, P.Geol.

for

Shakwak Exploration Company Ltd.

Whitehorse, Yukon

May 1985

091648



This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 9,200.00.



Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

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INTRODUCTION

This report describes a trenching and geological mapping and sampling program carried out during November 1984. Preliminary prospecting and geochemical sampling conducted on the HO 1-8 claims during August 1984 is not described here.

Parts of this report are abstracted from a report by Arctic Engineering Services Ltd., of Atlin, B.C., dated 10 May 1985.

PROPERTY AND OWNERSHIP

The Charleston property consists of the original Crown granted Charleston claim and 20 "HO" claims staked and recorded during 1985.

Claim Name	Record Number	Due Date
CHARLESTON C.G.	Lot 204	January 15, 2000
HO 1-8	YA82047-82054 inclusive	June 5, 1985
HO 9-20	YA82985-82996	September 4, 1985

The registered owner of the Charleston C.G. is Mr. Douglas I. Watson of Winnipeg, Manitoba; the claim is held under option by Shakwak Exploration Company Ltd. The HO 1-20 mineral claims are owned 100% by Shakwak Exploration Company Ltd.

LOCATION AND ACCESS

The property is located on the southwest side of Mount Skukum near the headwaters of Skukum Creek in the Wheaton River

BEAUFORT SEA

FIGURE 1

• Tuktoyaktuk

Aklavik

Inuvik

• Old Crow

Fort McPherson

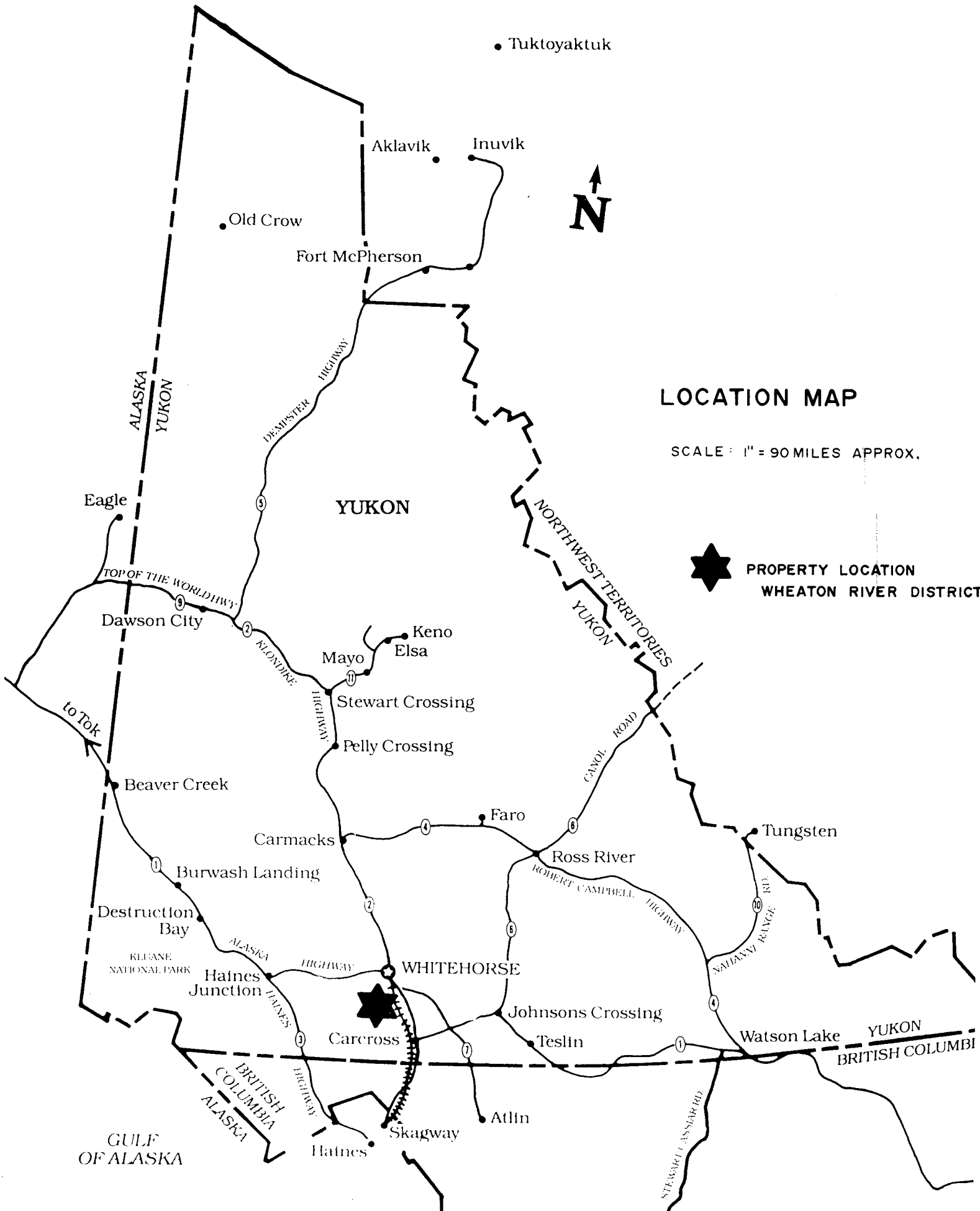


LOCATION MAP

SCALE: 1" = 90 MILES APPROX.



PROPERTY LOCATION
WHEATON RIVER DISTRICT



ALASKA
YUKON

DEMUSTER
HIGHWAY

YUKON

NORTHWEST TERRITORIES
YUKON

Eagle

TOPOF THE WORLD HWY
Dawson City

Mayo
Keno
Elsa

Stewart Crossing
Pelly Crossing

Beaver Creek

Carmacks
Faro

Burwash Landing

Ross River

Tungsten

DESTRUCTION BAY
KELUANE NATIONAL PARK

ALASKA
HAJNES
HIGHWAY
WHITEHORSE

ROBERT CAMPBELL
HIGHWAY

NAHANNI RANGE
RD.

HAJNES
HIGHWAY
Carcross

Johnsons Crossing

Teslin

WATSON LAKE
YUKON
BRITISH COLUMBI

GULF OF ALASKA

BRITISH COLUMBIA
ALASKA

Skagway
Atlin
HAJNES

STENMARK LASSIARD RD.

to Tok

district. The claims straddle NTS claim sheets 105 D3 and D4. Geographical coordinates of the property are 60°10' north latitude and 135°30' west longitude. Access to the property is by helicopter from Whitehorse, a distance of 65 kilometres.

PHYSIOGRAPHY

Topography over the property shows typical rugged alpine features common to the eastern flank of the Coast Range of mountains. Elevations rise to 2100 metres with an average of 500 metres of relief. South-facing slopes are characterized by closely-spaced cirques.

Soil development ranges from poor to non-existent; as a result much of the area is unvegetated. Rock exposures are limited to steep cliffs or cirque walls. Other slopes are covered in talus or felsenmeer.

REGIONAL GEOLOGY

The Charleston property is largely underlain by granitic and granodioritic rocks of the mid-Cretaceous Coast Crystalline Complex. This unit intrudes metasedimentary rocks of the late Precambian Yukon Group, which consist primarily of quartz-rich micaceous schists and gneisses, with locally thick horizons of crystalline limestone. Yukon Group rocks are also present as occasional roof pendants and screens within areas of Coast Crystalline Complex rocks.

Minor faulting and shearing with associated chlorite and epidote alteration are widespread within the Coast Crystalline Complex.

Skukum Group volcanic rocks of late Cretaceous - early Tertiary age unconformably overlies the earlier formations in the eastern part of the property, along the ridge extending towards Mount Reid. These are predominantly andesite and basaltic andesite flows and tuffs.

Rhyolitic and dacitic dykes, related to the later stages of volcanism at the Mount Skukum complex, intrude all earlier units. Similar dykes show a close spatial relationship to ore in the Cirque Zone at the AGIP-Erickson Mount Skukum deposit.

EARLY HISTORY

The Charleston vein was discovered and staked prior to July 1907 by C. Weik. The property was allowed to lapse and was relocated by Jas. Hume on September 11, 1911. A bill of sale for the property was recorded on September 25, 1912, transferring ownership to Mathew Watson of Carcross, Yukon. Prospecting continued through pits and trenches until 1918, when an option was granted to J.M. Elmer of the Slate Creek Mining Company. Plans were to develop the vein through adits and ship high-grade ore to a smelter via the White Pass Railway. During 1921 the company drove a 200-foot adit along the vein. Assays across an average width of 2-5 feet over a length of 817 feet reportedly averaged 0.33 ozs Au and 8.5 ozs Ag per ton. The principals of Slate Creek Mining became heavily involved in the development of the Elsa-Keno Hill silver deposits about this time and allowed their option on the Charleston to lapse. E. Johnson and Mathew Watson continued to prospect the property by trenches until the property was brought to lease in 1954. Little work has been done on the property since that time, although during 1967-68

it was optioned by R. Newsom and J. Snell and transferred to Adanac Mining and Exploration Ltd.

Shakwak Exploration Company Ltd. optioned the Charleston C.G. claim from Douglas Watson in 1984.

1984 EXPLORATION PROGRAM

On November 1, 1984, a three-man exploration team moved onto the Charleston property to begin a prospecting, trenching and sampling program. Personnel involved were G. Davidson (project geologist - Shakwak Exploration Company Ltd.) and two blasters employed by McCrory Holdings Ltd. of Whitehorse.

On the Charleston C.G. five trenches from early day explorations were located, mapped, re-blasted and sampled. Prospecting in the HO 1 claim revealed the presence of a new zone some 350 feet south of the previously known vein. This zone was exposed by blasting two trenches (Trenches 6 and 7) across the structure and by uncovering the vein in two other locations. Visible strike length examined exceeds 100 feet. This new zone is on strike with the original zone but is situated approximately 200 vertical feet higher; the old zone has been designated the C-1a zone and the new discovery the C-1b zone.

The C-1b vein consists of quartz and calcite with 2-5% sulphides (galena, pyrite, chalcopyrite, tetrahedrite). Width of the vein varies from 1 foot to over 6 feet.

Trench 6 is approximately 6 feet wide, 7 feet long and 2 feet deep. Trench 7 is approximately 8 feet long, 5 feet wide and 2 feet deep.

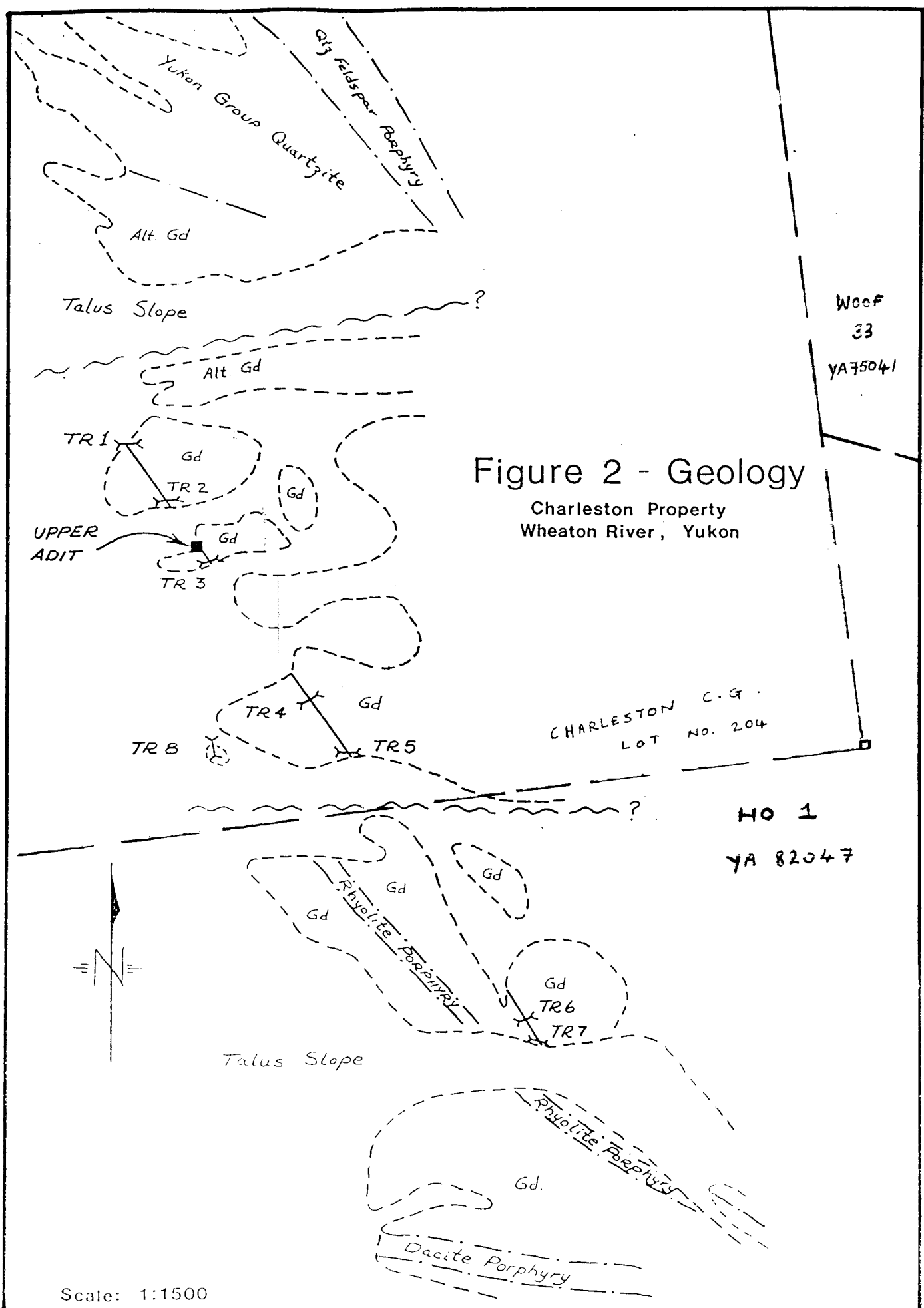


Figure 2 - Geology

Charleston Property
Wheaton River, Yukon

Individual assay results are as follows:

Sample No.	Au oz/t	Ag oz/t	Pb%	width, ft.	Location
16758	0.42	19.60	2.9	6.2 chip	Trench 6
16759	0.52	3.56	1.8	2.0 chip	Trench 7
16760	2.52	29.50	13.0	0.6 grab	Trench 7

Analyses were carried out by Bondar-Clegg and Co. Ltd., Whitehorse. Gold was analyzed by wet chemical extraction and atomic absorption determination; silver, lead, and zinc were analyzed by standard atomic absorption methods. Large samples (15-25 pounds) were collected to improve the representivity of the analyses.

CONCLUSIONS AND RECOMMENDATIONS

The Charleston property contains at least two major quartz structures carrying significant values in gold and silver.

Arctic Engineering Services Ltd. have recommended upgrading the existing trail to the property, additional surface trenching and re-opening the old adit to carry out adequate underground sampling.

REFERENCES

- 1961, Wheeler, J.D., - Geological Survey of Canada Memoir 312, "Whitehorse Map Area, Yukon Territory", 156 pages.
- 1985, Wallis, J.E., P.Eng. - "Preliminary Evaluation Report on the Charleston Property, Wheaton River, Yukon", Arctic Engineering Services Ltd., Atlin, B.C.
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STATEMENT OF COSTS

Total 1984 exploration expenses on Charleston property,
excluding acquisition and administration costs \$ 38,222.00

Allocation to HO 1 claim:

Labour and geological costs	\$ 2,100.00
Trenching (McCrory Holdings contract)	4,710.00
Helicopter	3,571.00
Assays	58.00
Camp supplies, food, fuel	233.00
Expediting, vehicle, etc.	<u>780.00</u>
	<u>\$ 11,452.00</u>

STATEMENT OF QUALIFICATIONS

I, GLEN C. MACDONALD, with business and residential address in Whitehorse, Yukon Territory, DO HEREBY CERTIFY that:

1. I am a consulting professional geologist.
2. I am a graduate of the University of British Columbia (B.Sc., Geology, 1973 and B.A. Economics 1971).
3. I am registered as a Professional Geologist by the Association of Professional Engineers, Geologists and Geophysicists of Alberta (No. 36214).
4. I am registered as a Professional Geologist in the Northwest Territories (No. L166).
5. I am a member in good standing of the Canadian Institute of Mining and Metallurgy.
6. I have practised Mining and Exploration Geology in the Yukon, Northern British Columbia and Northwest Territories since 1973. I began private practice in 1982, after leaving the position of Regional Geologist for Noranda Exploration Company Limited, Whitehorse, Yukon Territory.
7. I have examined the showings and area of the Charleston property in the Wheaton River area of the Whitehorse Mining District, and have reviewed all available private and public information on the property to compile this report.

DATED at Whitehorse, Yukon Territory,
this 12 day of June, 1985.



Glen C. MacDonald, P.Geol.