

MAP NO.: ASSESSMENT REPORT X
095 D 5, 12 PROSPECTUS
CONFIDENTIAL
OPEN FILE

DOCUMENT NO: 092911
MINING DISTRICT: WATSON LAKE
TYPE OF WORK: geology

REPORT FILED UNDER: AMERICAN SMELTING & REFINING COMPANY

DATE PERFORMED: 1951

DATE FILED: JAN 11, 1991

LOCATION: LAT.: 60°30'N

AREA: QUARTZ LAKE

LONG.: 127°50'W

VALUE \$:

CLAIM NAME & NO.: SOUTH NAIHANNI
DORTHY

WORK DONE BY: NORMAN KESTEN

WORK DONE FOR: AMERICAN SMELTING AND REFINING COMPANY

DATE TO GOOD STANDING:

REMARKS: This report consists of a hand written account of the geologist's visit to the property, and a typed transcript. The report is two hand written pages long.

3 hrs in the McMillan Property



| |
|--------------------------------------|
| M.R. file no. |
| R.M.M.R. file no. |
| Date forwarded 07 JAN 1991 |

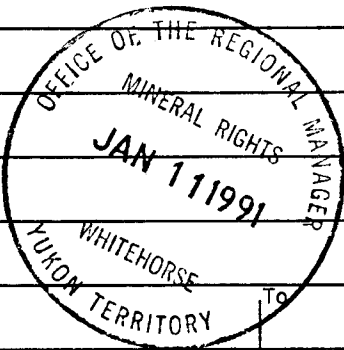
TRANSMITTAL FORM

From Mining Recorder at: **WATSON LAKE**

To Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

| | | | |
|---|-----------------------|----------------------|--|
| <input type="checkbox"/> NEW APPLICATION FOR PLACER LEASE TO PROSPECT | Name | | |
| <input type="checkbox"/> RENEWAL APPLICATION PLACER LEASE TO PROSPECT | Name | | Lease no. |
| <input type="checkbox"/> AFFIDAVIT OF EXPENDITURE ON PLACER LEASE | Name | | Lease no. |
| <input type="checkbox"/> SECURITY DEPOSIT | | | |
| <input type="checkbox"/> FINANCIAL ABILITY | | | |
| <input type="checkbox"/> ASSIGNMENT OF PLACER LEASE NO. | From | | To |
| <input type="checkbox"/> GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT. | Owner | | |
| <input type="checkbox"/> DIAMOND DRILL LOGS | Claims | | Claim sheet no. |
| <input checked="" type="checkbox"/> QUARTZ ASSESSMENT REPORT | Claims | South Nahanni | Claim sheet no. 095-0-05/12 |
| FOR Numbering Only | Type of report | Geological | Submitted by American Smelting & Refining Co. |
| - We have kept a copy here. | Cl. work performed on | | \$ req. for ren. application |



[Signature]
Signature

REPLY ACTION Date returned

092911

Microfilm as made page

Signature

Geology

Q5-D-12
Geological

092911

South Nahanni Claims
Whitehorse Mining District
Yukon Territory.



General.

As shown on the accompanying map, the rocks underlying most of the area within the claim group are covered by overburden, with very little outcrop, which is difficult to locate. Exposed bedrock is found in two types of localities: on hill tops, and in stream canyons or cliffs on hill sides. The map indicates the type of topography on the claims. The hills in the east and west portions of the group rise to about 1500 feet above the two lakes.

The Formations

The area is underlain by sediments, consisting of quartzite, shale and limestone. Boundaries are not sharp, and rock types grading into the other. The quartzite is a massive pale green rock consisting mainly of lenticular bodies of quartz rarely up to 1/2" in length, in a groundmass of green micaceous silicates. Bedding is indistinct. Shale is gray to black and thinly laminated, and some beds are bleached to light gray and seem to be mainly sericite. Interbedded with the shale is some very fine grained white quartzite. The ~~limestone~~ limestone is massive and crystalline, apparently recrystallized. It weathers buff to brown, and is probably close to a dolomite.

Structure.

The beds are fairly flat-lying with many minor rolls. No evidence of important deformation was seen. Observed attitudes,

undoubtedly are not significant because of the rolls in the
beds, and in all probability strike is east-west and
dip is gently to the north. Quartzite, capping the highest
horizons, is the uppermost member of the series, while
shale is the lowest one observed. There is some evidence of
strong faulting ~~observed~~ underlying the general location of
the two north-south creek beds, while subsidiary faults
are exposed in the canyons.

Mineralization.

While pyrite is widespread throughout all the
rocks exposed, mineralization of possible economic
importance is seen in only two places, both exposures
of a thin bed of limestone along the east bank of Quarry
Creek, in the southern portion of North Wadsworth,
the Dorothy Mineral Claim. The mineralization here is
pyrite, galena and arsenic. It appears to follow the
bedding and in 1949 was intersected in three drill holes.

June 29/51.

Norman Ruston
Field Geologist
American Smelting & Refining Co

Geology,
✓ South Nahanni Claims,
Whitehorse Mining Dist.
Yukon Territory.

June 29, 1951.

092911

GENERAL

As shown on the accompanying map, the rocks underlying most of the area within the claim group are covered by overburden, with very little outcrop, which is difficult to locate. Exposed bedrock is formed in two types of localities: on hill tops, and in stream canyons or cliffs on hillsides. The map indicates the type of topography on the claims. The hills in the east and west portions of the group rise to about 1500 feet above the two lakes.

THE FORMATIONS

The area is underlain by sediments, consisting of quartzite, shale and limestone. Boundaries are not sharp - one rock type grading into the other. The quartzite is a massive pale green rock consisting mainly of lenticular bodies of quartz rarely up to 1/4 inch in length, in a groundmass of green micaceous silicates. Bedding is indistinct. Shale to grey to black and thinly laminated, and some beds are bleached to light grey and seem to be mainly sericite. Interbedded with the shale is some very fine grained white quartzite. The limestone is massive and crystalline, apparently recrystallized. It weathers buff to brown, and is probably close to a dolomite.

STRUCTURE

The beds are fairly flat-lying with many minor rolls. No evidence of important contortion was seen. Observed altitudes individually are not significant because of the rolls in the beds, and in all probability strike is east-west and dip is gently to the north. Quartzite, capping the highest elevations, is the uppermost member of the series, while shale is the lowest one observed. There is some evidence of strong faulting underlying the general location of the two north-south creek beds, while subsidiary faults are exposed in the canyons.

MINERALIZATION

While pyrite is widespread throughout all the rocks exposed, mineralization of possible economic importance is seen in only two places, both exposures of a thin bed of limestone along the east bank of Quartz Creek, in the southern portion of the Dorothy Mineral Claim. The mineralization here is pyrite, galena and sphalerite. It appears to follow the bedding and in 1949 was intersected in three drill holes.

Signed: Norman Kesten,
Field Geologist,
American Smelting &
Refining Co.