

*Long Malcolm
report*

521757

CASEY CLAIMS
SLOCAN MINING DIVISION
BRITISH COLUMBIA

SUMMARY

The Casey claims cover the eastern four mile length of the Big Ledge Mineral Zone. They contain two massive pyrrhotite-zinc bodies. These are the Lime Kiln and Pingston deposits. They are 2,500 feet and 4,800 feet, respectively, in length as exposed on the surface.

Trenching and near surface drilling showed an overall zone on the Pingston deposit 44 feet in width averaging 0.2% lead and 1.36% zinc with a footwall band 6.8 feet wide averaging 0.44% lead and 2.66% zinc.

The zone on the Lime Kiln averaged 9.6 feet in width and 2% zinc.

The Casey claims contain two relatively unexplored large massive pyrrhotite-zinc deposits in an extensive zone known to contain higher grade similar deposits.

Diamond drilling is recommended to further determine grades of the zones at depth.

LOCATION

Latitude: 50°30' North
Longitude: 118° West
Elevation: 1,500 to 3,500 Feet

The claims are on the west side of Upper Arrow Lake 20 miles north of Nakusp or 30 miles south of Revelstoke. They are reached by graded Celgar logging roads and by good dirt roads with culverts and ditches.

CLAIMS

Casey 1 to 10 with Assessment Due July 25, 1976.

GENERAL GEOLOGY

The Big Ledge is a large replacement of massive sulphides in highly metamorphosed rocks involved in huge structural deformations. The sulphides are bedded and in or near the Empress Limestone which is thought to equivalent to the Badshot Limestone of the Kootenays. The Empress Limestone and sulphide replacements have been found from the Upper Arrow Lake to Sugar Lake 30 miles to the west and from Ledge Creek to Arrow Park Lake 10 miles to the south.

The formations strike westerly and are drag folded. The middle limb of one drag fold outcrops at Empress Lake and is 5 miles in down dip length. The formations are involved in a gneissic dome north of Ledge Creek.

The sulphides, pyrite and pyrrhotite are widespread in a 400 foot stratigraphic section of limestone, graphitic schist, chloritic schist and quartzite. In general they are disseminated but in numerous sections they contain lenses of massive sulphides. These sections generally contain variable amounts of black sphalerite, galena and traces of chalcopyrite and barite.

CLAIM GEOLOGY

The Empress Limestone and the sulphide mineralization extends northeasterly across the western claims and the formations dip 40 degrees southeasterly. At Pingston Creek at elevation 2,500 feet the dip is 20 degrees and east of Pingston Creek the dips are flat to 10 degrees southerly.

The formations are uniform with quartzite underlain by hornblend and garnet schist, marble and a 200 foot thickness graphitic quartz mica schist with sulphides. A narrow quartzite band underlies the sulphide zone.

East of Pingston Creek a lineated monzonite forms cliffs and a hill. Metamorphosed sediments underlie the monzonite at least in part.

DEPOSITS

The Pingston deposit is on the extension of Cominco's deposit and outcrops for horizontal distance of 4,800 feet from elevation 3,500 feet to Pingston Creek at elevation 2,500 feet. It outcrops as a gossan or oxide zone over a surface width of 20 to 500 feet. The graphitic schist of the zone contains from 5 to 25% pyrite and pyrrhotite and variable amounts of galena, black sphalerite, barite and occasionally chalcopyrite. Most of the base metals have been leached from the surface. Diamond drilling, trenching and one short tunnel explore the zone. The work is not complete enough to determine grades but zinc values vary between 1% and 9% zinc. An average of surface, tunnel and drill samples showed a 44 foot width, 0.2% lead and 1.36% zinc. A 6.8 foot band on the footwall averaged 0.44% lead and 2.66% zinc.

East of the Pingston deposit the beds flatten and are covered for 3,000 feet to the north. Oxidized graphitic schist gossans outcrop as two bands along the sides of a steep little valley. These bands are remnants on the footwall of the ore horizon. The surface, to the south or down dip show monzonite outcrops which cap the sedimentary series.

The Lime Kiln gossan has been traced for 11,000 feet to the northeast to the Upper Arrow Lake.

In general the outcrops are sparsely mineralized but massive sulphides outcrop for 2,500 feet and high grade float was found in heavy sandy overburden south of this deposit. One short tunnel and some drilling explore the deposit near the surface.

GEOPHYSICAL SURVEYS

A gravity survey has been made in the Big Ledge area with favorable results.

A magnetometer survey has outlined the known deposits and shown additional untested anomalies.

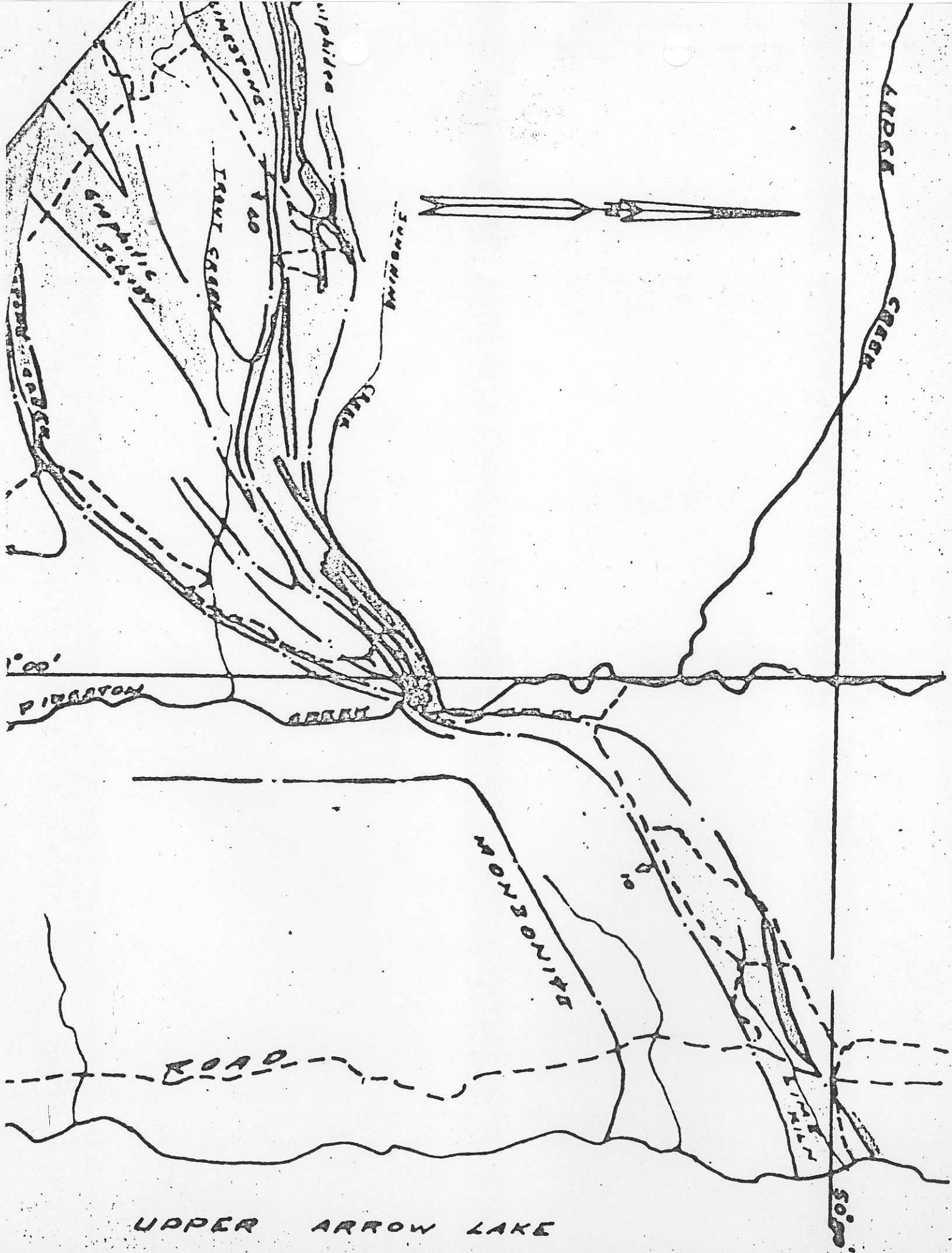
GEOCHEMICAL SURVEYS

Geochemical surveys have been made over the surface and have outlined the surface of the deposit for the length of the claims.

CONCLUSIONS

The Casey claims cover a very large massive sulphide deposit with low lead and zinc values near the surface in leached gossans.

Exploration beneath the surface has been inadequate to determine grades and tonnages and records of this work are not available.



UPPER ARROW LAKE

(A)

Nelson

1051 HAZELWOOD ST. →
ROBSON, B.C.

PROPERTY SUBMIT

DICK FOWLER Contact
ROBSON, B.C. 365-5583.

BIG LEDGE EXTENSION

Aug 9/78

Reps - Doug Malcolm for some data.

Loc. N.W. of WAKUSP.

N. 1/2 of parcel obtained to commence 4 MM T. 2ⁿ
owner / estimate of 100 MM Tons 4 + 5% 2ⁿ.

62 claims avoid S. 1/2 of prop.

Commencement obtained N 1/2 for 35,000 down + 35,000
but only paid 10,000

April 3/79

Fowler visited office with Bill Vance.

some suggest that WAKUSP property has gone
to Denver Silver Co.

- Mervin Cusick for the tone - 265-3276.

(C)

DICK FOWLER.

Harry Murphy - Perhaps contact & check what properties available -

R. A. "DICK" FOWLER
RES. 365-5583 (ROBSON)



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