

NAME OF PROPERTY **JUPITER**

OBJECT LOCATED

UNCERTAINTY IN METERS

Lat. **56°27'50"** Long. **125°47'**

Mining Division	Omineca	District	Cassiar
County		Township or Parish	
Lot		Concession or Range	
Sec		Tp.	R.

OWNER OR OPERATOR AND ADDRESS

HISTORY OF EXPLORATION AND DEVELOPMENT

The Jupiter property is located on the north side of Lay Creek about $2\frac{1}{4}$ miles north of the west end of Aiken Lake. The showings were staked by the Consolidated Mining & Smelting Company of Canada Limited in 1933. Exploration and development work was carried out during 1934, 1935, and 1936. Work included hydraulic stripping, and drifting in two adits, one on each side of a small tributary creek, locally known as Berry Creek. The main adit, on the west bank of Berry Creek, consists of a drift 795 feet long on the brecciated fault zone, and a total of 813 feet of branch workings that explore subsidiary fault zones and the two fissure veins. On the east bank of Berry Creek an adit has been driven 160 feet on a brecciated quartz-calcite vein with a maximum width, at the portal, of about 2 feet; except near the portal, little evidence of mineralization was noted.

1936 June 21 1936 21

DESCRIPTION OF DEPOSIT

The lower end of Lay Creek is underlain by andesitic flows with intercalated tuffs, argillites, and impure limestone. A shear zone 300 or more feet wide on Lay Creek is provisionally placed at the contact between the known Takla group and underlying rocks of Pre-Takla age on the east. The rocks in the vicinity of the workings are considerably altered: the andesites and tuffs to chloritic and serpentized rocks, and much of the argillite to soft, flaky graphitic material. A small body of less friable porphyritic rock of andesitic or dioritic composition, exposed near the portal of the main adit, may be intrusive. Two distinct types of mineral deposits are recognized. One is represented by a brecciated fault zone, striking north and dipping steeply west, cemented by quartz and calcite, which contains much graphitic material and is sparingly mineralized with pyrite. The best mineralized section observed was about see Card 2

Associated minerals or products of value - Zinc, lead, copper.

HISTORY OF PRODUCTION

REFERENCES

Roots, E.F.; Geology & Mineral Deposits of Aiken Lake Map-Area, British Columbia; Memoir 274, pp. 218-221, Geol. Surv. of Canada, 1954.

Lay, Douglas; Aiken Lake Area, North-Central British Columbia; Bulletin No. 1, 1940, pp. 18-22, British Columbia Dept. of Mines.

Mineral Policy Sector; Corporation Files: "Cominco Ltd." - 1934 to 1936 Annual Reports.

MAP REFERENCES

Map 1030 A, Aiken Lake, (Geol.), Sc. 1":4 miles - accomp. Memoir 274.

Prel. Map 48-5 A, Aiken Lake, (Geol.), Sc. 1":2 miles - accomp. Paper 48-5.

Map 94 C, Fort Grahame, (Topo.), Sc. 1:250,000.

REMARKS

Comp./Rev. By		IMacR					
Date	1-67	9-74					

NAME OF PROPERTY

JUPITER

DESCRIPTION OF DEPOSIT (continued)

100 feet long and in most places less than 2 feet wide. A sample from this section assayed: gold, 0.135 ounce a ton; silver, 4.75 ounce a ton; copper, 0.08%; zinc, 0.60%. The other type of mineral deposit is represented by well-defined fissure veins striking northeast and northwest, consisting of quartz and calcite heavily mineralized with sphalerite, tetrahedrite, galena, and minor chalcopyrite, covellite, and pyrrhotite. The two largest of these veins, which strike northeast, and lie on either side of the fault zone may have originally been part of the same vein, dislocated by movement along the fault zone. These veins have a maximum observed width of 1 foot and consist of sphalerite and quartz. Calcite and quartz fill abundant fractures in the sphalerite, and contain minute grains of chalcopyrite. Tetrahedrite and galena occur as irregular patches in the sphalerite and as layers up to 1 inch wide in the sphalerite and along contacts of quartz and sphalerite bands. Some covellite was also observed along these contacts. A grab sample from the fissure vein assayed: gold, 0.25 oz. a ton; silver, 153.7 ounces a ton; copper, 1.7%; lead, 3.1%; zinc, 22.1%.