

NAME OF PROPERTY STAR (APEX)

OBJECT LOCATED - Adit.

UNCERTAINTY IN METRES	500.	Lat. 52°41'50"	Long. 131°53'15"	
Mining Division	Skeena	District	Queen Charlotte	
County		Township or Parish		
Lot		Concession or Range		
Sec	Tp.		R.	

OWNER OR OPERATOR

DESCRIPTION OF DEPOSIT

The mineralization consists of a chalcopyrite-bearing magnetite skarn zone at the base of a small roof pendant in the San Christoval Batholith near its eastern margin. The pendant consists primarily of grey limestone and skarn but includes some skarnified volcanic rock and is cut by late dykes of basalt, granite and feldspar porphyry. It is oriented northwestward parallel to the nearby margin of the batholith and is about 400 feet long at the somewhat irregular base about 100 to 150 feet below the ridge-top. The walls are fairly planar and steep, and about 200 feet apart. Bedding possibly strikes north 20 degrees west and dips about 70 degrees east. It is not known whether this limestone is a remnant of the Kunga Formation or a member of the Karmutsen Formation. Skarn and magnetite replace limestone and a small amount of volcanic rocks and quartz diorite at the base of the pendant. The profile of the skarny magnetite at the north face is quite irregular but up to 50 feet thick. At the south face it is wedge shaped, about 75 feet thick on the east and a few tens of feet thick on the west. Most of the

p.t.o.

Associated minerals or products - Iron.

HISTORY OF EXPLORATION AND DEVELOPMENT

The showings are on the ridge between Botany Inlet of Tasu Sound and Anna Lake at an elevation of 2,700 to 2,800 feet.

The showings were discovered by Messrs. Davies, Bell, and Harris in 1907 and staked as the Apex group. Annual assessment work was carried out for several years. In 1912 the property was optioned to E.M. Morgan and associates. A crosscut adit 50 feet below the surface workings was driven 200 feet and drifts run in a westerly direction. The claims subsequently lapsed. In 1926 the property was held as the Star group of 6 claims, owned by R. Morrison, Rand McDonald, and W.H. Watson, of Lockeport. The old workings at that time were reported to consist of a 300 foot adit on the Star claim and a 100 foot adit on the Nellie L claim. The claims apparently lapsed in the 1930's.

In the 1960's the property consisted of two located claims, Alpine No. 1 and No. 2, held by Wesfrob Mines Limited. Exploration work included sampling, and in 1963 three packsack holes totalling 320 feet were drilled to confirm the continuity between the two exposures. "Assuming this continuity, Young and Uglov calculated the reserves as about 300,000 tons of ore. Calculations based on the drilling indicate somewhat less ore with a grade of close to 50 per cent iron and possibly 1 per cent copper" (BCDM Bull 54, p. 192).

DESCRIPTION OF DEPOSIT (continued)

replacement consists of magnetite, but patches of garnetite and coarse calcite are fairly common and epidote skarn is present, some of the latter clearly replacing original volcanic rocks. Weathered exposure of skarn is stained by malachite, and chalcopyrite is common as blebs in the magnetite and in small vuggy quartz veinlets at the base.

REFERENCES

+++Brown, A. Sutherland; Geology of the Queen Charlotte Islands; Bulletin No. 54, p. 192, British Columbia Dept. of Mines, 1968.

Reports of Minister of Mines, British Columbia: 1908, p. 61; 1909, pp. 71, 79; 1910, p. 85; 1912, p. 110; 1913, p. 99 ++; 1926, p. 67; 1930, p. 64.

McConnell, R.G.; Texada Island and Moresby Island, B.C.; Summary Report 1909, p. 79, Geol. Surv. of Canada.

+Young, G.A., and Uglow, W.L.; The Iron Ores of Canada; Econ. Geol. Series #3, Vol. 1, p. 30, Geol. Surv. of Canada, 1926.

MAP REFERENCES

#Geology of the Queen Charlotte Islands, Sc. 1:125,000, Fig. 5, Sheet A - accomp. Bulletin No. 54.

*Map 103 B/12 W, Darwin Sound, (Topo.), Sc. 1:50,000.

REMARKS

Comp./Rev. By	DMacR						
Date	1-79						