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GENERAL GEOLOGY OF THE OATS GROUP

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INTRODUCTION

The OATS Claim Group is located in the Dawson Range between Hayes Creek and the Yukon River some 25 miles east of Casino.

The writer spent 3 to 4 days mapping and prospecting the area of the group while 2 assistants sampled the drainages of the area.

GEOLOGY

The area is totally underlain by 'Yukon Group' rocks which trend northeasterly and dip to the northwest. Some later volcanic rocks cap a dome to the northeast (see map).

The rocks were divided into two mappable units: gneisses and schists. The gneisses outcrop to the northwest and consist mainly of biotite gneiss and biotite-granite-gneiss with lesser amounts of hornblende gneiss and amphibolite. In general, the gneisses become more amphibole rich towards the schist-gneiss contact where the rocks are nearly all amphibolites.

The schists consist mainly of mica-quartz-schist with lesser amounts of quartzite, mica-schist and graphitic quartz schist.

Virtually no mineralization was found in any form. Some pyrite occurs in the graphitic schist and in small localized shears near the gneiss-schist contact.

No intrusive rocks outcrop in the area, however, the gneisses appear to become more granitic and migmatitic towards the north.

Respectfully submitted,




W. O. Karvinen

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GENERAL GEOLOGY

OATS GROUP

-  bio. gneiss; bio. granite gn. amphib. gneiss; amphibolite
-  mica -qtz. schist; quartzite graphitic schist
-  rhyolite/dacite volcanics

20 060 = main foliation

075 10 = main lineation usually mineral rodding

PROSPECTING LEASE SHEARING local