

REPORT ON THE 1987 FIELD EXAMINATION OF DUNDALK MOUNTAINWHITE HORSE MINING DISTRICT, 105D-2^W (60°28' Lat / 134°48.8' Long)

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On August 10, 1987 J. Pautler and J. Leow examined the geochemically anomalous (2150 ppb Au) gold showing at an old adit on Dundalk Mtn. The area was explored during 1986 as Target 109 in the regional program.

The adit is located on the NE bank of a deeply incised drainage, at about the 3900-foot elevation, and is approximately 800 meters N28W of Dundalk Mtn. The Venus Mine is 9^{km} due east and ^{the outcrop Railway line on} Bennett Lake is 3^{km} on the west. Access is by helicopter from a temporary Frontier Helicopter base ^{at the} St. Hubert Gold Mine.

The area is underlain by the Lewis River andite, basalt and tuffs with sedimentary beds. A Mesozoic age quartz monzonite to quartz diorite mass borders the west and Jurassic sediments of greywacke, conglomerates and siltstones are in contact on the east. In the immediate vicinity of the adit, abundant green and white outcrop along the NE side of the drainage. There are no outcrops on the rounded terrain on the southwest.

Entry into the adit is dangerous due to the collapse at the portal. Presumably, the adit was driven along a fault zone which is well exposed on the surface.

At the portal, the zone strikes N50W and dips 78° SW.

At about 26^m SE the attitude is N30W / 72° NE and at 30^m SE the zone is cut-off or offset by a 2-3^{cm} wide fault bearing N55W and dipping 8° NE. The latter appears to be a left lateral fault. There is no evidence of offset extension found on the NE slope and overhanging across the SW side.

The NW extension was not traversed. It pinches to about 30^{cm} at about 4^m NW of the Portal, then obscured by slide material and reappears as deeply weathered out about 0.5^m wide at approximately 20^m NW.

At the portal, the 1.4^m wide fault zone is comprised of a highly sheared section 23^{cm} wide, a moderately sheared highly faulted H.W. 73^{cm} wide and moderately sheared highly fractured F.W. 46^{cm} wide. This zone is overlain

to a rusty color, with a few narrow bands of fresh rock. About 1/4% malachite and lesser azurite occur along the H.W. and F.W., and minor pyrite is noted in the unoxidized, siliceous F.W. The fault zone widens to 2.7" at 13" SE from the Portal, is composed of a fractured, crumbly, rusty rock, with a F.W. mineralized with minor amounts of malachite, azurite, pyrite, calcite veins and chlorite alteration. From Portal plus 13" SE to 30" SE the fault gradually decreases in width to 2", except pinching to 1" at one point, though the character and mineralization is unchanged.

Soon samples were taken across three locations, lowest assay value is 740 ppb Au / 30 cm and the highest value is 2600 ppb Au / 36 cm. Average of the three sample locations are: 1024 ppb Au / 1.39" at the Portal, 1173 ppb Au / 2.66" at 13" SE of the Portal and 792 ppb Au / 2.3" at 26" SE of the Portal. It appears that the gold is associated with copper and/or pyrite. Average silver content is 3.37 ppm. No chalcopyrite was noted in the rocks. Arsenic content averages 4 ppm and antimony from 0.2 to 0.6 ppm.

Results of the Government Regional Survey show that the stream sediments in the region are geochemically high in As and Sb. The drainage along the Adit was not sampled by the government survey. A ^{NW flowing} stream draining the south and southwest sides of Dundalk Mtn. was sampled by the government survey and returned assays of 244 ^{ppb} (re-assay 286) Au, 0.1 ppm Ag, 20.6 ppm As, 4.9 ppm Sb and 99 ^{ppb} Hg. An adjacent gossan located about 7.5 km upstream was sampled by Kerr in 1986 and gave values ranging from 15-135 ppb Au. One tributary sampled ran 100 ppb Au, 60 ppm As and 6.6 ppm Sb. The government survey made note of mining activity on the ^{main} stream, probably referring to present or past placer operations.

Although the fault structure at the Adid is strong and is anomalous in gold values, the mineralization is a weak target to pursue without quartz veining and/or silicification. The prospect is not worthy of further work at present.

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