

INTERIM REPORT

Diamond drill programme, Scot Clains, Yukon
July - August 1972.

Introduction

Mobilisation of the drill from Sheldon Lake (5 miles east of Jake Lake) to Jake Lake began on July 6th & was completed on 9th July. The drill is a Boyles 17A machine with a diesel powered engine. It was set-up at the first location by 12th July.

Drill Programme

Four diamond drill holes each 500 feet in length have been proposed as follows:

Hole No	Location	Dip	Bearing	Status
72S-1	11E/O+50N	-60	N35E	Not drilled.
72S-2	2W/2N	-45	N35E	Completed (502')
72S-3	10W/1S	-45	N35E	Moving onto setup.
72S-4	4W/13S	-45	N35E	Abandoned (153')

D.D.H. 72-S-2. The hole was collared on 19th July & completed at a depth of 502 feet on August 9th. Coring began at 121 feet. The average core recovery was 90%. The hole was cased with MW to 54 feet & with BW to 153 feet.

The hole intersected a series of phyllites with intervals of graphitic phyllite & cherty phyllite. Pyrite was generally common in small amounts, occurring as syngenic accumulations along bedding planes & as secondary mineralisation associated with quartz in blebs & occasional bands up to 1 1/2" wide. The maximum pyrite content was visually estimated as 5% over an 86 foot interval from 416 to 502'.

No other sulphides were noted apart from two specks of chalcopyrite.

The core was chip sampled in 10 foot lengths from 121 to 522 feet & is being geochemically analysed for zinc. Some massive sulphide bands were sampled & are being assayed for zinc.

D.D.H. 12-5-4 The hole was begun on August 20th & abandoned at 153 feet on August 27th. Core recovery began at 40 feet & was approximately 20% for the hole. Sludge samples were collected in 5 foot intervals from 30 to 153 feet. NW & BW casing was run to 74 feet & 120 feet respectively. The poor core recovery & need to case the hole was due to caving. Hard, blocky ground incurred excessive diamond wear of bits & casing shoes to the extent that the contractor would only continue drilling at cost. The hole was therefore abandoned as it seemed likely ^{that} ~~with~~ sludge & core samples ~~are~~ would be ^{sufficient to} determine the cause of the geochemical anomaly.

The rock-type intersected was a hard ^{black} cherty, shale or phyllite. Some quartz vein material appeared in the last few inches of the core.

Sludge & core will be analysed for zinc.

Delays in drilling Progress in the programme was slower than anticipated due to :-

- (a) Slow drilling due to ground conditions. An average of 19 feet per shift has been cored for

the two holes drilled to date. It was necessary to run ~~a~~ a total of 128' of NW casing & 273 feet of BW casing for the two holes.

(b) Breakdowns, waiting for drill parts & aircraft, and moving accounted for approximately 40% of the period 12th July - 26th August.

Appended to this report is the log, section, & projected section (with geochemical & geophysical data profiles) for D.D.H. 72-S-2.