

MEMORANDUM

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To : J. F. Olk/C.H. Macdonald
From : M.O. Hampton
Date : December 20 1967
Subject : TESTHOLE DRILLING IN FARO PIT AREA
WITH A G.D. 123 AIR TRACK DRILL

GENERAL

On December 14 and 15, 1967, a series of test holes were drilled in the Faro Pit area in an attempt to ascertain the bedrock surface elevation more accurately than presently known. The equipment and crew were hired from Gold River Construction Limited currently working on the mill foundation excavation.

Both 4 inch and 2½ inch (?) bits were tried. No trouble was encountered with either size and the smaller size was employed exclusively after the first two holes. Maximum depth tried was 50 feet.

It is difficult to say where the actual bedrock surface is when a schist is encountered which was the case with the lower group of holes with one exception. The drill penetrates the schist very easily and only a guess can be made as to when the rock is no longer rippable.

The upper group of holes, except for XVI, were drilled into granite bedrock and a marked colour change, from rusty to grey, occurs when the drill goes from the weathered to fresh rock.

A sample representing each 10 foot interval was collected and stored at Faro. A portion of the sample from the sulphides encountered in testhole XVI will be assayed.

Some of the holes, see attached data sheet, were extremely wet. Frozen clay and boulders encountered in the upper group of holes should be thoroughly ripped before trying to move it with the scrapers.

Comparison with diamond drill information

- 1) DDH 66-20 B.R. 4218
Testhole IV B.R. 4255

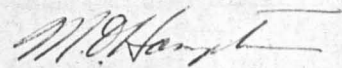
37 feet higher than D.D. indicated.

- 2) Testhole VI B.R. 4225 (?)
Testhole VII B.R. 4249 mean 4237
DDH 66 - 13 between above B.R. 4203
34 feet higher than DD indicated.
- 3) DDH 66-20 B.R. 4218
DDH 66-12 B.R. 4187 mean 4202
Testhole III between above 4240 (?)
38 feet higher than DD indicated.
- 4) Section from D. Drilling indicates B.R. at location
of testhole XVI approx. 4350
testhole XVI actual 4349
DD information O.K.

Summary

1. In the limited test area of the lower group of holes the diamond drill information appears to put the bedrock surface elevation 30 to 40 feet too low.
2. The information is too limited to use the 30 - 40 feet figure over the whole pit area.
3. This type of drill appears to be a fast and relatively inexpensive method of "feeling" ahead of the stripping operation. With practise the driller and sampler could probably estimate the bedrock surface quite accurately.

Map and data sheet enclosed.



M.O. Hampton
Chief of Exploration.

Enclosures :

c.c. N.G. Stephenson - Faro Camp ✓

DATA SHEET

TEST HOLE DRILLING FARO PIT

Dec.14-15, 1967.

<u>Testhole No.</u>	<u>Collar Elevation</u>	<u>Remarks</u>
1.	4243	Virtually bedrock at surface - Drilled 10'
2.	4247	B.R. 4242 May rip farther.Drilled 10'.
3.	4251	B.R. 4246 may rip farther.Drilled 20'.
4.	4261	B.R. 4256 Drilled 20'.
5.	4265	B.R. 4257 will rip farther.
6.	4275	B.R. 4225 (?) Actually probably higher, but very soft and should rip. Extremely wet from 4250 behaved as a fountain while drilling. Drilled 50'.
7.	4278	B.R. 4249. Hard quartzite encountered at 29'. Drilled 35'.
8.	4281	B.R. 4256(?) rippable to 4246 (?). Extremely wet from 4256. Drilled 50', soft Brown 25', greyer below.
9.	4291	B.R. (?) Drilled 50', soft, brown, wet.
10.		Not drilled, in proximity of test pit dug November 66.
11.		Not drilled, thought to be similar to Test hole #6.

<u>Testhole No.</u>	<u>Collar Elevation</u>	<u>Remarks</u>
12.	4390	B.R. 4350. 0-30. O/B and alt. rock 30-40 harder. 40 - 50 fresh granodiorite.
13.	4380	B.R. 4360 granodiorite.
14.	4368	B.R. 4362 "
15.	4364	B.R. 4356 "
16.	4358	B.R. 4349 Schist Sulphides from 4340 down Drilled 30'.
17.	4394	B.R. 4362 granodiorite.
18.	4396	B.R. 4374 "
19.	4407	B.R. 4396 "
