

# **EBA Engineering Consultants Ltd.**

**Civil, Geotechnical and Materials Engineers**

1990-08-06

005080



Curragh Resources Inc.  
117 Industrial Road  
Whitehorse, Yukon  
Y1A 2T8

EBA File: 0201-10401

ATTENTION: Mr. Lee Pigage  
Chief Geologist

Dear Sir:

Subject: Hydrology Assessment - Dy Deposit Shaft  
Piezometer Installation  
Faro, Yukon

In accordance with your request, EBA Engineering Consulting Ltd. has installed three piezometers for the Hydrology assessment of the Dy Deposit pilot shaft. The piezometers were installed in three predrilled exploratory holes and will be utilized at a later date for hydrological testing of the pilot hole in the main shaft.

The piezometers were installed between 1990 08 01 to 04 by an engineer from this office. All installation operations were conducted with the cooperation and knowledge of your field representative, Mr. John Zbeetnoff and the assistance of Caron Diamond Drilling Ltd.

Each piezometer was installed to monitor ground water flows from a zone of faulted and fractured rock that was encountered in the three exploratory drillholes. The fault zones in the drillholes were identified by Mr. Zbeetnoff and measurements of required piezometer parameters were supplied based on these determined zones. Each piezometer has been identified by the EBA file number and the drillhole number assigned by Mr. Zbeetnoff: No. 10401-01, No. 10401-02, & No. 10401-03. Exact locations and collar elevations for the drillholes are available from Mr. Zbeetnoff.

The construction of the piezometers consists of a single 25 mm PVC pipe installed to the bottom of the drillhole. The pipe was embedded in a sand layer that was poured into the drill hole and extends from the hole bottom to above the fault zone. Within this sand



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section, the 25 mm pipe is perforated for a ten foot section within the fault zone. Above the sand section the drillhole has been filled with a bentonite grout and a neat cement grout. These grouts extend up to within one hundred feet of the ground surface. The dimensions of the various zones and sections of the piezometers and drillholes are shown in Figures 1, 2 and 3, attached.

At this time it is understood that the testing that required the installation of the piezometers cannot be conducted until the pilot hole has been completed. It is anticipated that this will entail conducting the tests in either late September or early October. EBA personnel from our Vancouver office will be travelling to the job site to perform the testing; consequently, any more definitive completion information will greatly assist in scheduling the testing.

I trust that this information will be adequate for your present needs. Please contact myself if you have any questions or when more scheduling information becomes available.

Yours truly,

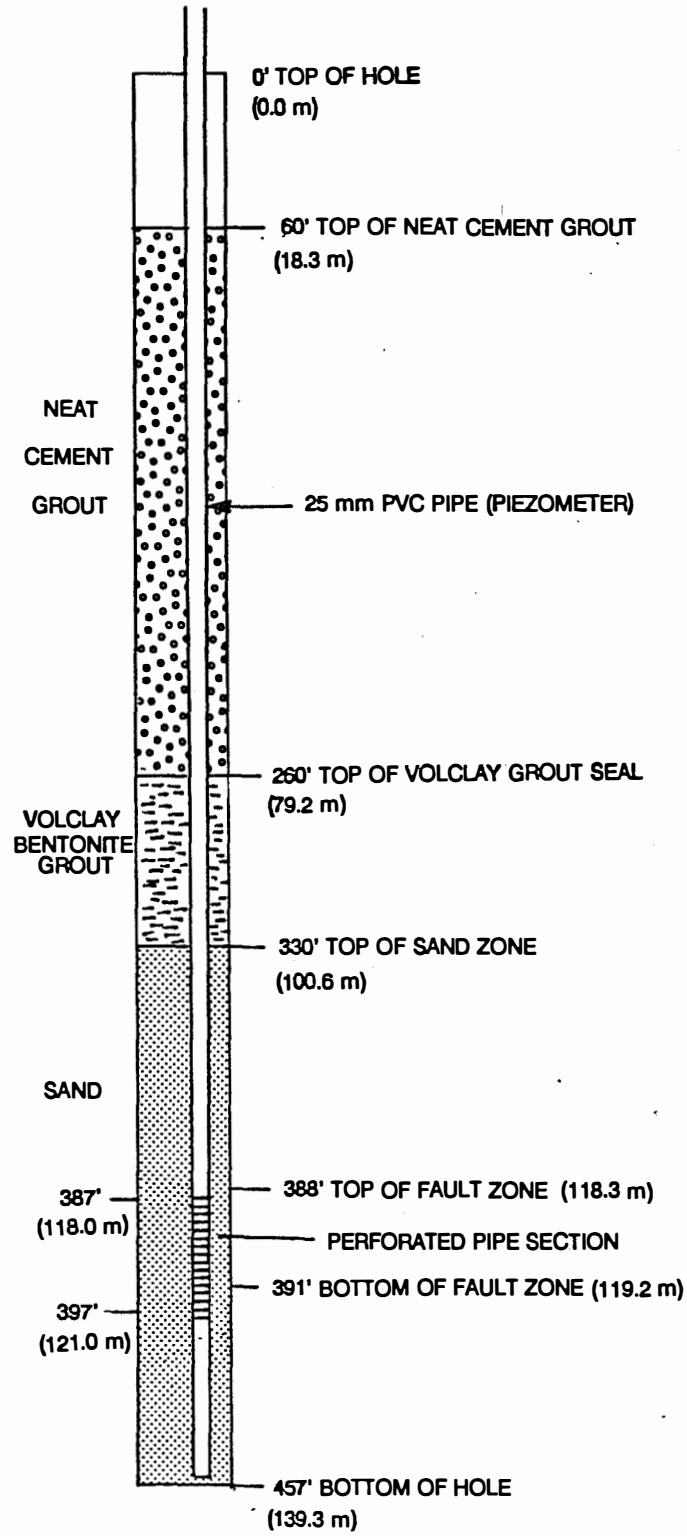
EBA Engineering Consultants Ltd.



C.R. Hamilton, E.I.T.

CC: Mr. John Zbeetnoff, Project Geologist, Curragh Resources  
Mr. Scott Sylte, Steward-EBA Consulting Ltd.

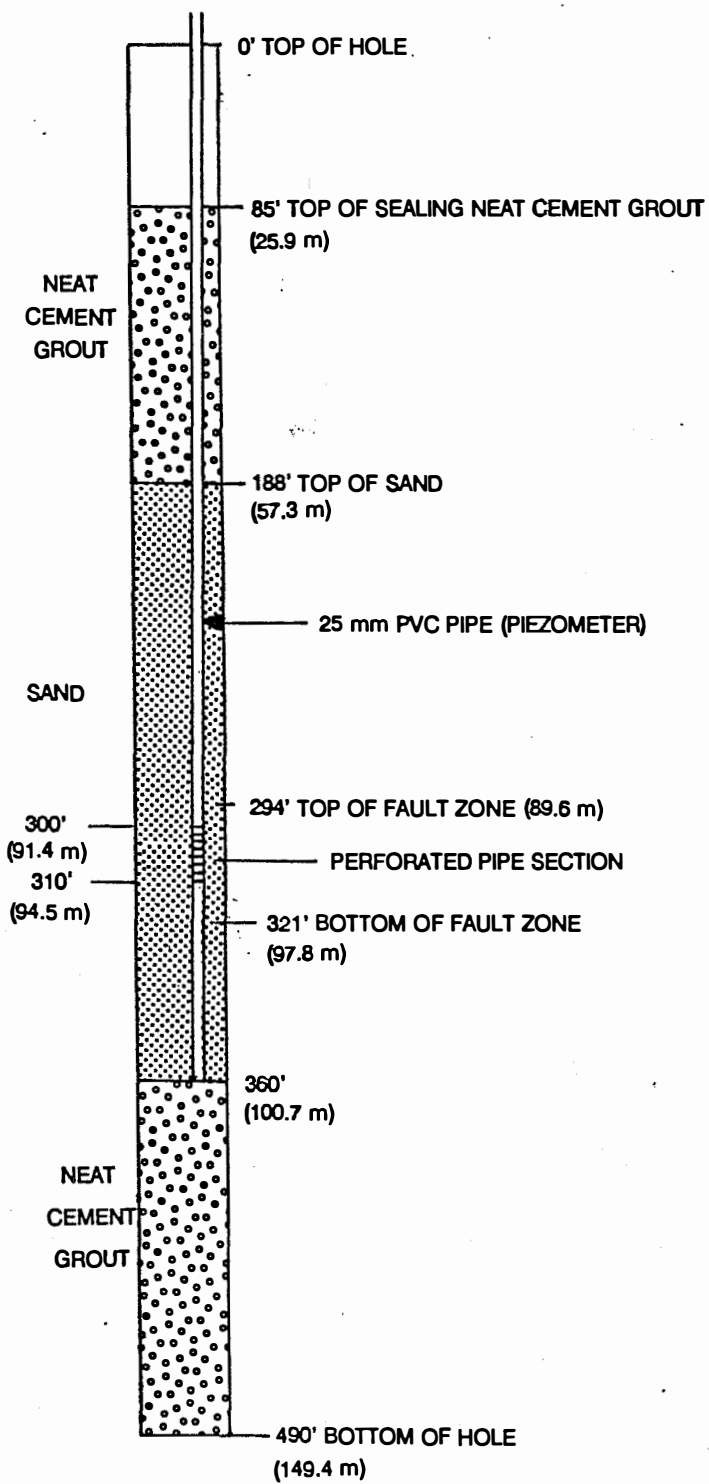




NOTE: 1. NOT TO SCALE  
 2. PIEZOMETER INSTALLED AT 45° ANGLE

**FIGURE 1**

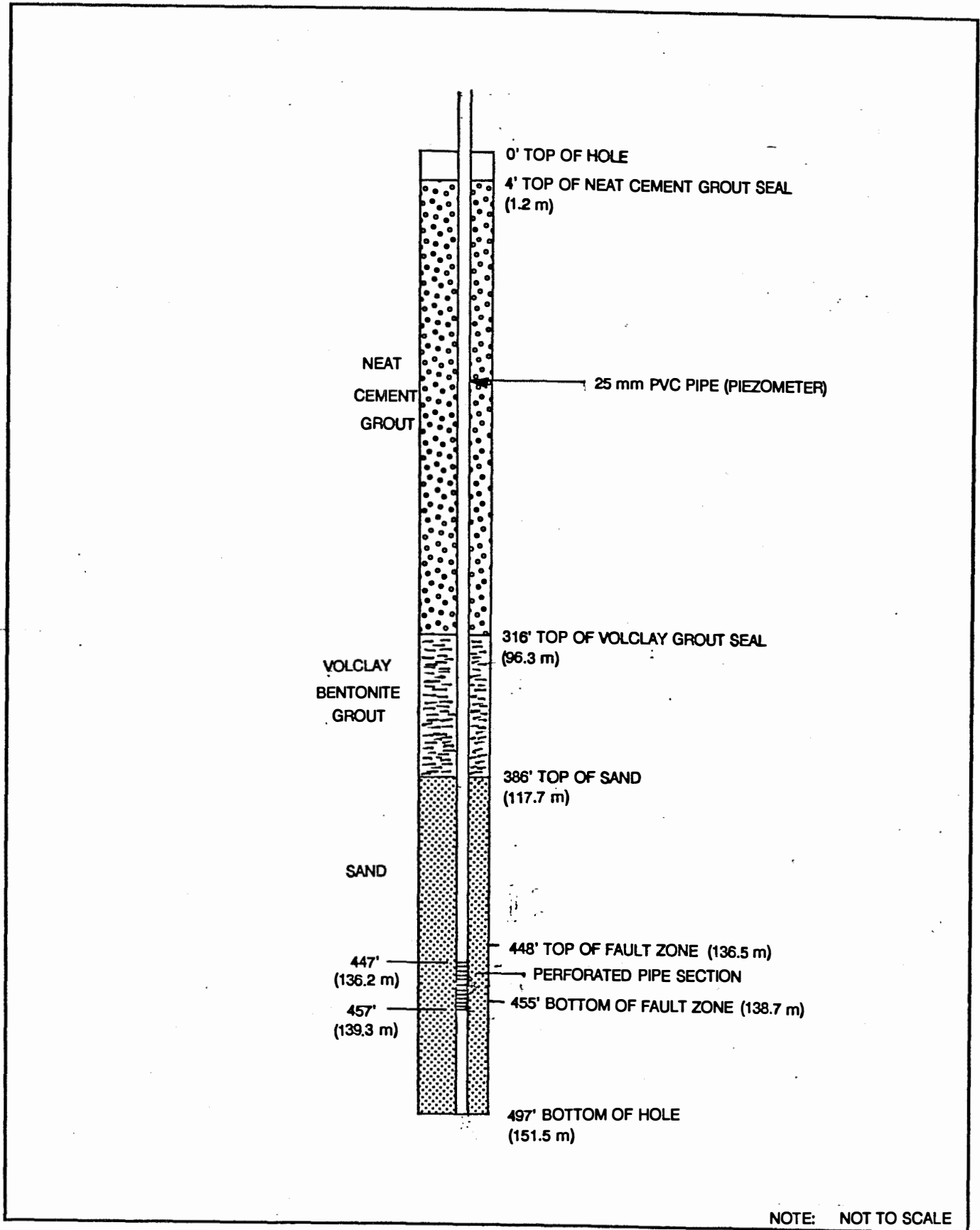
**CONCEPTUAL DRAWING OF  
 PIEZOMETER CONSTRUCTION  
 FOR DY DEPOSIT  
 (PIEZOMETER NO: 10401-01)**



NOTE: NOT TO SCALE

**FIGURE 2**

**CONCEPTUAL DRAWING OF  
PIEZOMETER CONSTRUCTION  
FOR DY DEPOSIT  
(PIEZOMETER NO: 10401-02)**



**FIGURE 3**

**CONCEPTUAL DRAWING OF  
PIEZOMETER CONSTRUCTION  
FOR DY DEPOSIT  
(PIEZOMETER NO: 10401-03)**