

OFFICE MEMORANDUM

TO : File

DATE: December 16, 1976

FROM : Margaret Anne Rogers *MAR*

SUBJECT : SAMPLING PROCEDURE FOR CORE FROM HORIZONTAL HOLES BENEATH PIT 3,
AREA G, TA-54

SYMBOL : H8-WS-710

Total core recovered from the April-May, air-drilled holes is 865.7 ft, a 63% recovery. Core recovered by hole is:

MH-1	161.8 ft core (56.3% recovery)
MH-2	201.4 ft core (74% recovery)
MH-3	166.8 ft core (59.6% recovery)
MH-4	156.3 ft core (51.4% recovery)
MH-5	179.4 ft core (74.8% recovery)
VH-6	3.5 ft core

The latter part of December W. D. Purtymun and Don Van Etten will log and take samples from the cores. A wooden block will be inserted in the core boxes to mark where samples are taken from the core. Sample size will be 1-2 in. segments of core. These bulk samples and fracture-filling samples will be placed in bottles. Each bottle containing one sample will be labeled with the hole number, the depth at which the sample was taken, and the type of sample i.e., bulk or fracture filling. Before a sample is submitted for analysis it will be pulverized. Samples will be analyzed for gross α , gross β , gross γ , ^{137}Cs , ^{90}Sr , ^{238}Pu , ^{239}Pu , and total U.

Core recovered from within 15 ft (horizontal distance) of the pit and beneath the pit will be sampled every foot with all fracture fillings pulled for samples. Core recovered from the cut face of the drilling platform in the adjacent draw to within 15 ft of the pit will be sampled every 5 feet. If the '5 foot' sample is close to a fracture, the fracture filling will be pulled instead of taking the bulk sample.

Since core recovery was not 100%, the following convention will be adhered to in deciding where to take samples. For each core run, more core is presumed to have been recovered from the last of the run than from the first of the run. Therefore, when measuring distance for sampling, measurement will be from the end of the core run toward the front. For example, the first core run of 20 ft for Hole X recovered 14 ft of core which would be sampled at points 20 ft, 15 ft, and 10 ft.



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All samples will not be submitted to the Analytical Chemistry Section at one time. The first 100 samples will be submitted the first of year. The next 100 will follow approximately July 1977.

After the core is logged and sampled it will be reboxed and kept indefinitely for other studies. Since only two people during one period (the latter part of December) will be handling the core to log and take all samples, it is hoped the quality of the core will remain high.

MAR:kr

cc: LaMar Johnson
Dave Curtis
Bill Purtymun
Don Van Etten
Merl Wheeler ←