May 26, 1965

Dear Chuck,

I promptly lost Mr. DeLauze's address in Marseilles. Could you ask your secretary to send it to me since I would like to write him a letter?to follow up on our 'phone conversation.

Thanks.

Best regards,

George H. W. Bush

Dr. Charles L. Drake
Lamont Geological Observatory
Columbia University
Palisades, New York
GB:as

May 12, 1965

Dear Charles,

Thanks ever so much for your letter of May 3rd. I am checking around here in the office on the JOIDES program and will be back to you shortly.

Thanks for thinking of Zapata.

Yours very truly,

George H. W. Bush

Mr. Charles L. Drake
Lamont Geological Observatory
Columbia University
Palisades, New York
GB:as

George Thurs PM or Friday PM
in Washington
your way back Thurs or Friday June 3 or 4

Lamont Geological Observatory of Columbia University | *Palisades, N. Y.*

Office of the Director

Telephone Code 914, ELmwood 9-2900

3 May 1965

Mr. George Bush
Zapata Off-Shore Company
Houston Club Building
Houston, Texas

Dear George:

Early in 1964, the Lamont Geological Observatory of Columbia University, the Institute of Marine Science of the University of Miami, the Woods Hole Oceanographic Institution, and the Scripps Institution of Oceanography of the University of California entered into an agreement to collaborate in research in oceanography through drilling in the floor of the deep ocean. The resulting organization is known as the Joint Oceanographic Institution Deep Earth Sampling (JOIDES), which is entirely independent and separate from the Mohole project.

As a first phase in this program, JOIDES currently has under charter the Caldrill 1 for a month-long program in relatively shallow water off the east coast of Florida. This phase is supported by the National Science Foundation.

Plans for a second, more substantial phase in deeper water are at present under consideration. The National Science Foundation has included in its budget for fiscal 1966 and following years funds believed to be adequate to fully support a project of major dimensions, and there is reasonable likelihood that we shall be able to finance it. In this stage, as in the current one, we intend to make use of a chartered vessel and the services of an offshore drilling company for the drilling operations. JOIDES itself will handle management and scientific activities through one of the member institutions.

We are contemplating operations in water depths ranging from 10,000 to 18,000 feet, with bottom penetrations up to 2,000 feet in the deepest locations. Hole re-entry is not considered for the initial period of this operation. We will require continuous coring as much as possible, and most sites will be located in soft or semiconsolidated sediments. Although occasional hard rock, such as basalt, may be encountered, no penetrations beyond the capability of a single diamond bit are envisaged for the beginning period. Our information indicates that these conditions are within the limits of existing technology. Dynamic positioning will be necessary. Since many sites will be in mid-ocean (Pacific and Atlantic), a vessel will be required that can operate away from base and without supply vessels for prdonged periods of time, and that can cover long distances between locations at reasonable speed. The vessel also should provide adequate accommodation and laboratory space for the scientific staff necessary to process the cores.

CABLE ADDRESS: PALISADES, N. Y. STATE

The purpose of this letter is to explore your company's interest in this matter. If such interest exists, we would appreciate receiving from you a fairly detailed description of your capability, an estimate and specific breakdown of mobilizing costs and charter rates, and a time schedule. We anticipate a first drilling period of at least 400 days or more.

At the end of May, JOIDES will prepare a budget and a draft research proposal on the basis of information received. In June, we hope to select a drilling contractor and to submit a proposal to the National Science Foundation. One of the four member institutions will be designated the Operating Institution and will enter into contract negotiations if and when a grant is made by the National Science Foundation. Our intended starting date for operations at sea is in the first half of 1966.

I will appreciate your consideration of these matters. If further information is required, please contact me at my office.

Sincerely yours,

Charles L. Drake
Member, JOIDES Planning Committee

CLD:ec

Dr. Worzel

1 Dynamic Position —
2 Build at East Coast or West Coast
3 Time to build — (1st HALF '66
4 Authorize Pan (6 LO MAR LICENSE) each —
5 Through middle drilling
6 Term of Contract, 3 years —
7 COST OF UNIT.
8 Radio location and keeping system
Pan — 19 ft 7m

Atl, No. Atlo. Med., no crew boat →

1) some compais bidding → vibek -
lot of bus money
50 holes a year →

drilling on Blake plateau -
off Jacksonville 1050' water
used Reed bit -
diamond bit -
2500' →

2) Caldwell - has problems on
some areas - with some pe
some good

What auxiliaries do we have to
put down - just put down wire
on Caldwell - cavity

1/2 doz papers →
what can be done for what price
actual bids come later -