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Inaugurating an international effort to probe the deepest layer of the oceanic crust, the drill ship Glomar Challenger left San Juan, P.R., yesterday

headed for the mid-Atlantic. There, in 14,500 feet of wa-ter a short distance east of the ridge midway between Afri-ca and North America, she will attempt to bore at least 6,600 feet into the ocean floor rock.

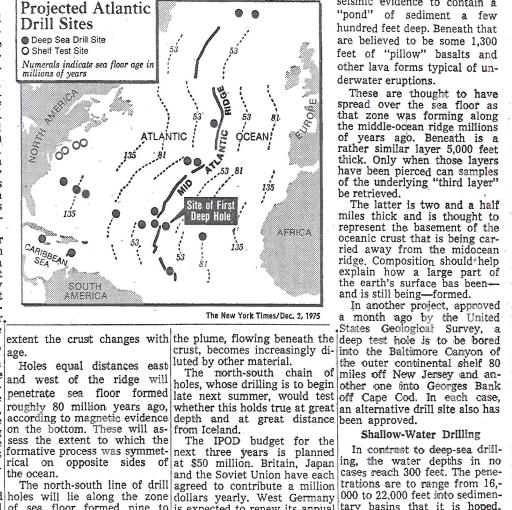
In the past, the deepest such rock penetration has been only 1,909 feet altough the ship has been able to drill as much as 4,630 feet where there was a great accumulation of sed-

The project, known as IPOD for The project, known as IPOD for International Phase of Ocean Drilling, succeeds the Deep Sea Drilling Project carried out over the last seven years by the same ship. The new effort differs in being more interna-tional in scope and seeking far. deeper penetrations into the sea floor floor sea

Its goals bear on some of the most basic problems in earth science. These include the manner in which the deepsea floor, which covers more than half the earth's surface, has evolved, the nature of the force that is steadily widening the Atlantic Ocean and the manner in which ore deposits formative process was symmetof oceanic origin were formed. rical on the ocean.

Drill Sites Chosen

lieved to have been formed as dredged along the Mid-Atlantic enough sediment to hold it made public 60 days after is-the Americas separated from Ridge at increasing distances steady. Europe and Africa. In this way from Iceland. They believe this it should become clear to what is because molten rock from chosen because it appears from in any case, within five years.



While the area directly on the ridge is the youngest, there is insufficient sediment there to "spud in" the drill pipe. It will not bite into the rock unless it has first penetrated enough sediment to hold it steady.

seismic evidence to contain a "pond" of sediment a few of sediment a few hundred feet deep. Beneath that are believed to be some 1,300 feet of "pillow" basalts and other lava forms typical of underwater eruptions.

derwater eruptions. These are thought to have spread over the sea floor as that zone was forming along the middle-ocean ridge millions of years ago. Beneath is a rather similar layer 5,000 feet thick. Only when those layers have been pierced can samples of the underlying "third layer" be retrieved. be retrieved. The latter is two and a half

miles thick and is thought to represent the basement of the oceanic crust that is being car-ried away from the midocean

trations are to range from 16,-000 to 22,000 feet into sedimentary basins that it is hoped, are rich in oil.

The drilling is to be done by the Ocean Production Company, operating for the Con-tinental Offshore Stratigraphic