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no. 68-304

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Map showing location of subbottom
acoustic profiles in San Francisco
Bay from Bay Farm Island westward
toward Hunter's Point, filed with the
National Oceanographic Data Center.

by

U. S. Geological Survey.

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[Reports. Open file series]

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UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

MAP SHOWING LOCATION OF SUBBOTTOM ACOUSTIC PROFILES IN

SAN FRANCISCO BAY FROM BAY FARM ISLAND WESTWARD TOWARD

HUNTER'S POINT, FILED WITH THE NATIONAL OCEANOGRAPHIC DATA CENTER

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Open-file report

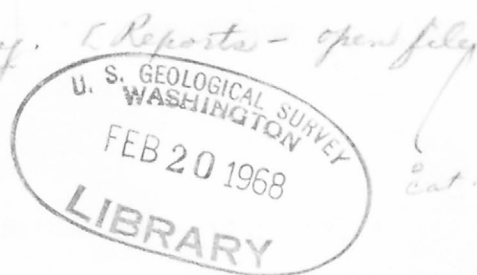
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This report is preliminary
and has not been edited or
reviewed for conformity with
Geological Survey standards

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U.S. Geological Survey.
series J
U. S. GEOLOGICAL SURVEY
Washington, D. C.
20242



For release FEBRUARY 21, 1968

The U. S. Geological Survey is releasing in open files the following reports. Copies are available for consultation in the Geological Survey Libraries, 1033 GSA Bldg., Washington, D. C. 20242; Bldg. 25, Federal Center, Denver, Colo. 80225; and 345 Middlefield Rd., Menlo Park, Calif. 94025. They are also available for consultation in other offices as listed:

1. Platinum deposits of Alaska, by John B. Mertie, Jr. 65 p., 2 black-and-white plates, 6 tables. Brooks Bldg., College, Alaska 99701; 108 Skyline Bldg., 508 2nd Ave., Anchorage, Alaska 99501; 441 Federal Bldg., Juneau, Alaska 99801; 504 Custom House, San Francisco, Calif. 94111; 7638 Federal Bldg., Los Angeles, Calif. 90012. Reproducible material for the two plates from which copy can be made at private expense is available in the San Francisco office shown above.

2. Availability of palynological material from Naval Petroleum Reserve No. 4, IV: North Simpson Test Well No. 1, by Richard A. Scott. 2 p.

3. Map showing location of subbottom acoustic profiles in San Francisco Bay from Bay Farm Island westward toward Hunter's Point, filed with the National Oceanographic Data Center, by the U. S. Geological Survey. 1 p., 4 maps (page size). 504 Custom House, San Francisco, Calif. 94111.

Master copies of the continuous profiler records are filed with the National Oceanographic Data Center, Bldg. 150, Washington Navy Yard, Washington D.C. 20390, and may be inspected there. Single copies of the maps may be obtained from the Data Center and arrangements may be made with them to secure material from which copies of the data may be made at private expense.

4. Preliminary geologic map of Bancroft quadrangle, Caribou and Bannock Counties, Idaho, by S. S. Oriel. 1 sheet, scale 1:48,000. Copies of the report are also available for consultation at 678 U. S. Court House Bldg., West 920 Riverside Ave., Spokane, Wash. 99201; 1012 Federal Bldg., Denver, Colo. 80202; and 8102 Federal Office Bldg., Salt Lake City, Utah 84111; and material from which copy can be made at private expense is also on file in those three offices.

5. Preliminary materials map, Blandford quadrangle, Massachusetts, by G. William Holmes. 1 map, scale 1:24,000; 4 tables. Massachusetts Dept. of Public Works, 100 Nashua St., Boston, Mass. 02114; USGS, 80 Broad St., Boston, Mass. 02110. Latter office also holding material from which copy can be made at private expense.

6. Preliminary materials map, Cheshire quadrangle, Massachusetts, by G. William Holmes. 1 map, scale 1:24,000; 22 tables. (See No. 5, above.)

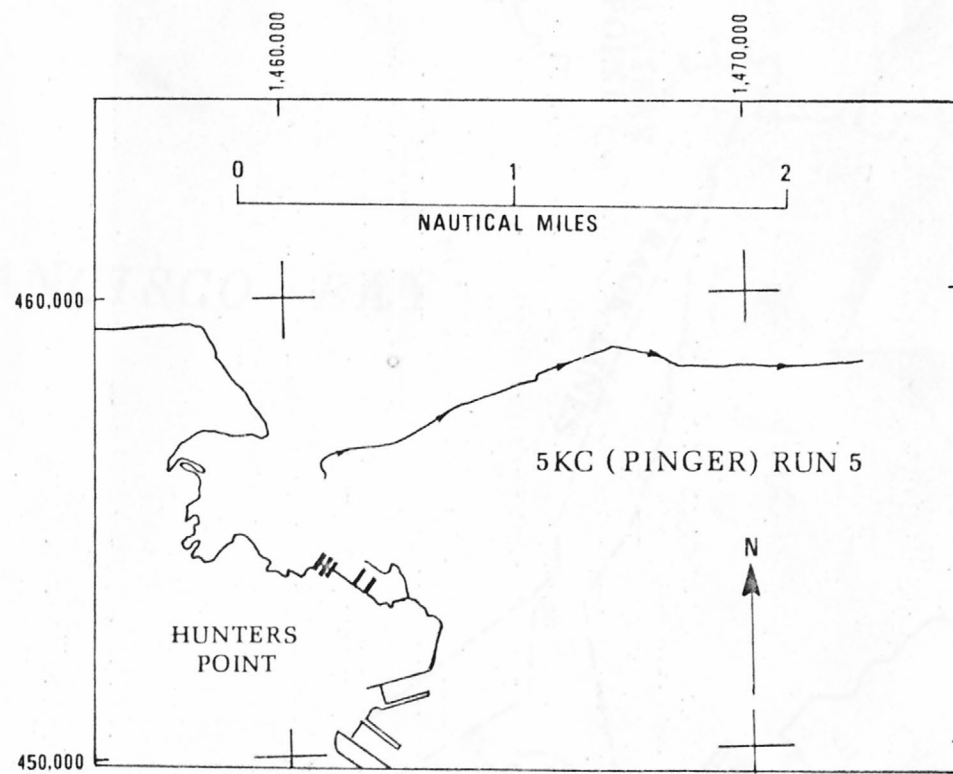
7. Preliminary materials map, Pittsfield East quadrangle, Massachusetts, by G. William Holmes. 1 map, scale 1:24,000; 15 tables. (See No. 5, above.)

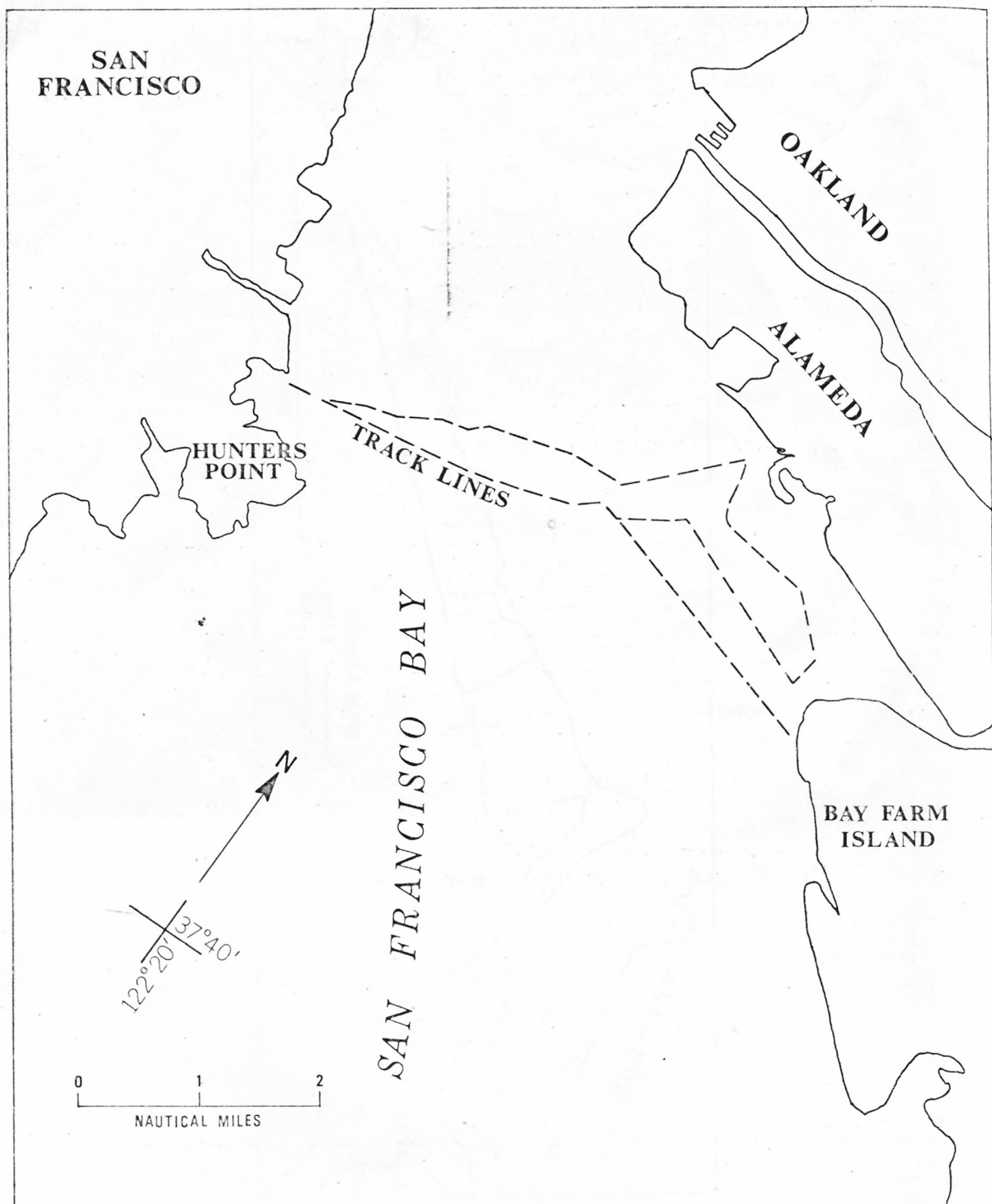
8. Preliminary materials map, Plainfield quadrangle, Massachusetts, by G. William Holmes. 1 map, scale 1:24,000; 3 tables. (See No. 5, above.)

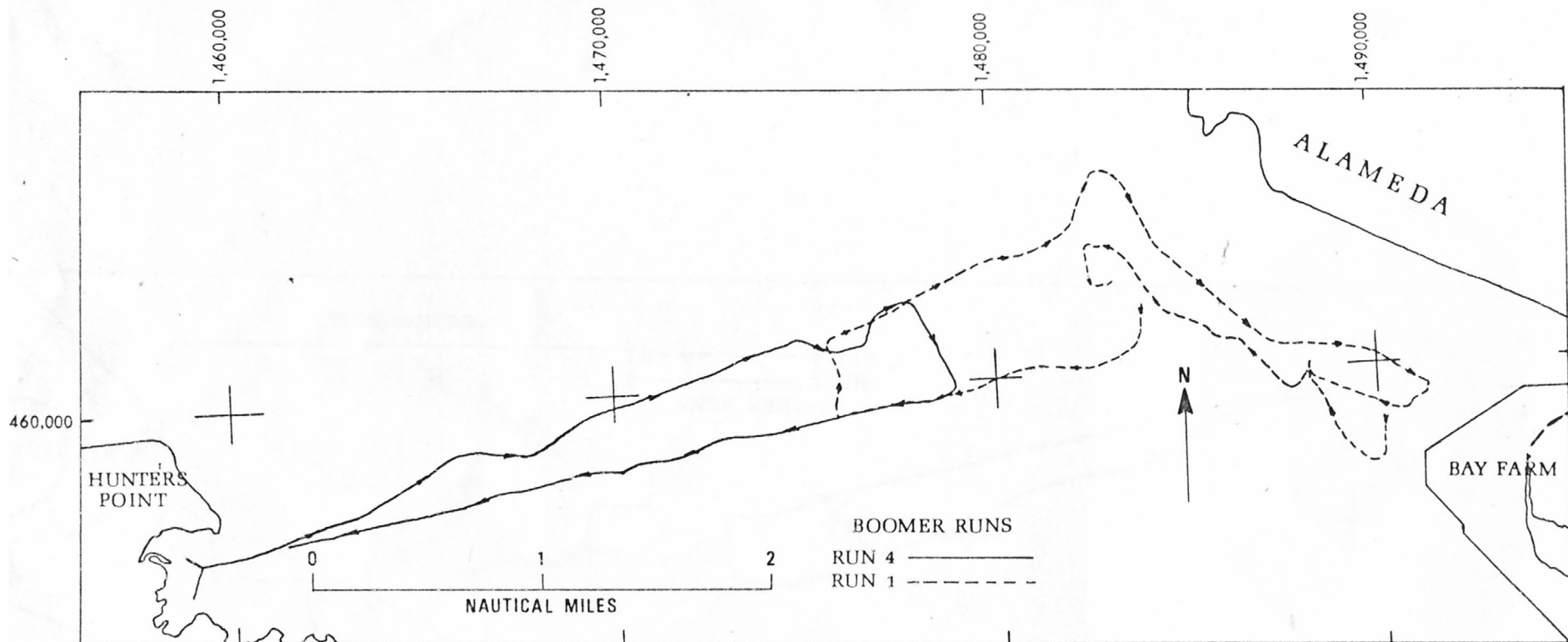
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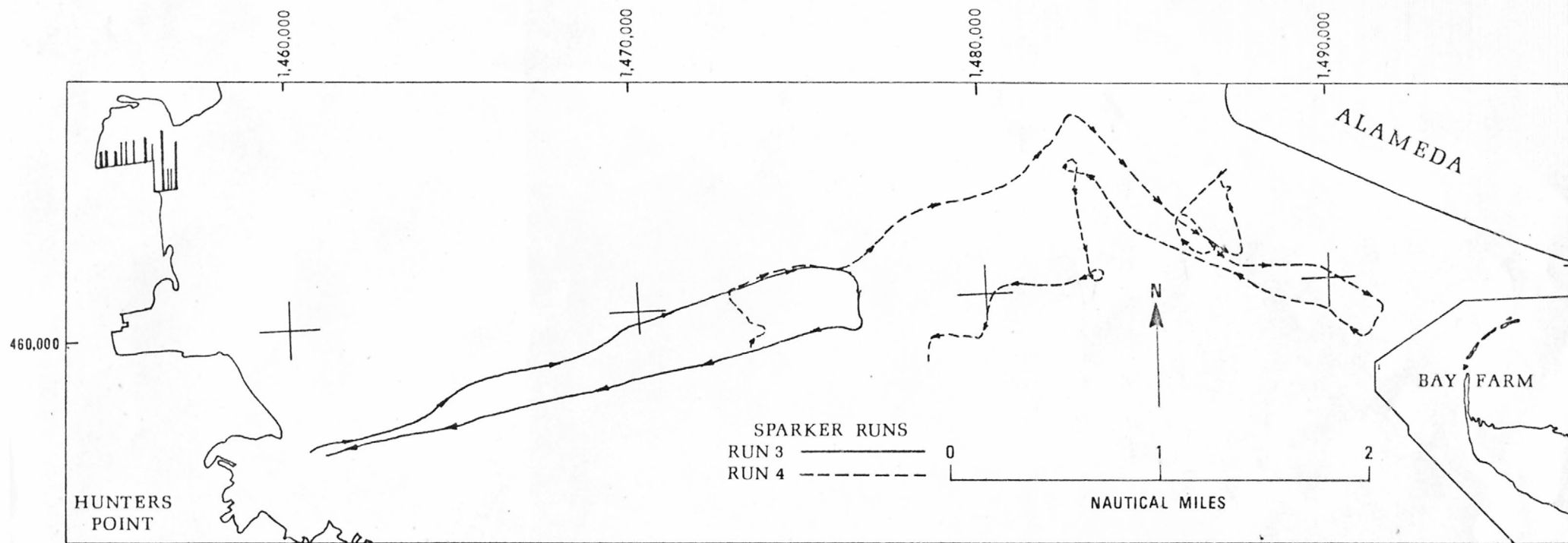
The attached maps show the location of five subbottom acoustic profiles in San Francisco Bay, made by the Office of Marine Geology and Hydrology of the U. S. Geological Survey, in cooperation with the State of California Division of Bay Toll Crossings, to determine the stratigraphy and structure of sediments along a proposed Bay crossing.

Two profiles were run with a precision air-backed boomer using a 500 joule power source (boomer), firing at a rate of two per second. Tracks of these two profiles were rerun with a single cage, three electrode sparker, with a power source of 2100 joules; firing at a rate of once every two seconds. One of the tracks was also rerun with a 5 kc pinger using 200 joules power and a firing rate of four per second. Return signals from all sources were received on a single multi-element hydrophone. The signals were then filtered and printed on an E. G. and C. (Edgerton, Germerhaven & Greer) graphic recorder.









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