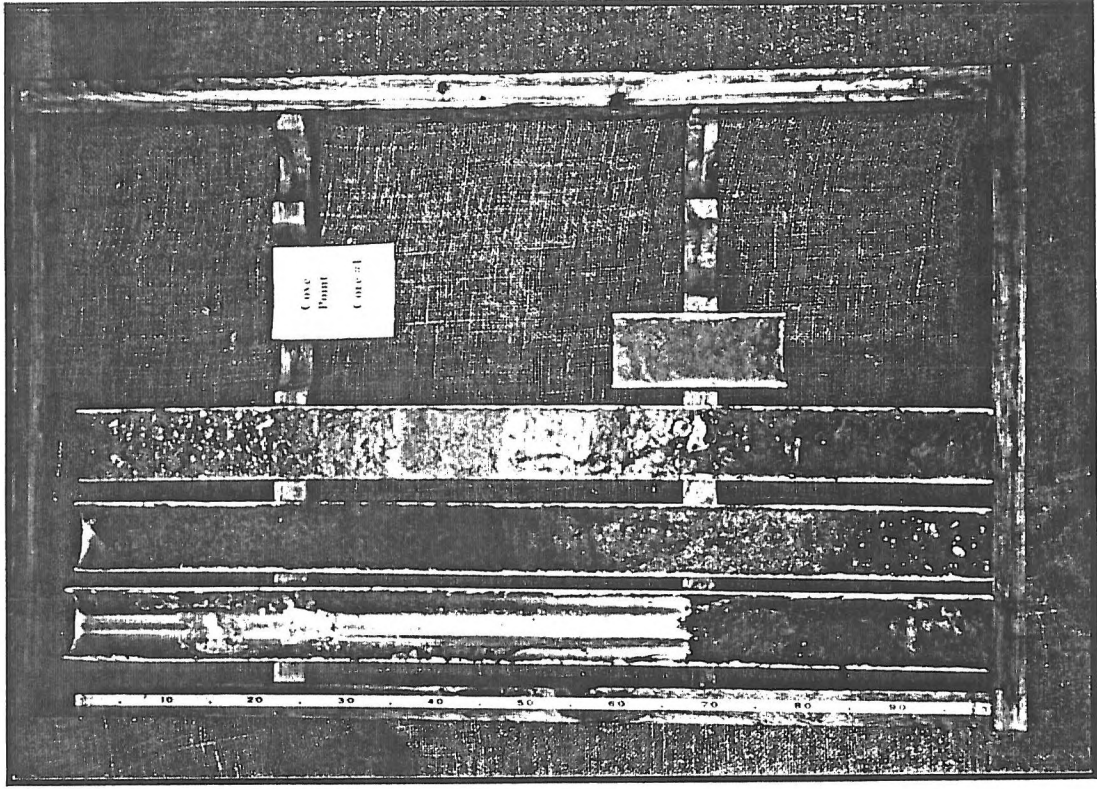


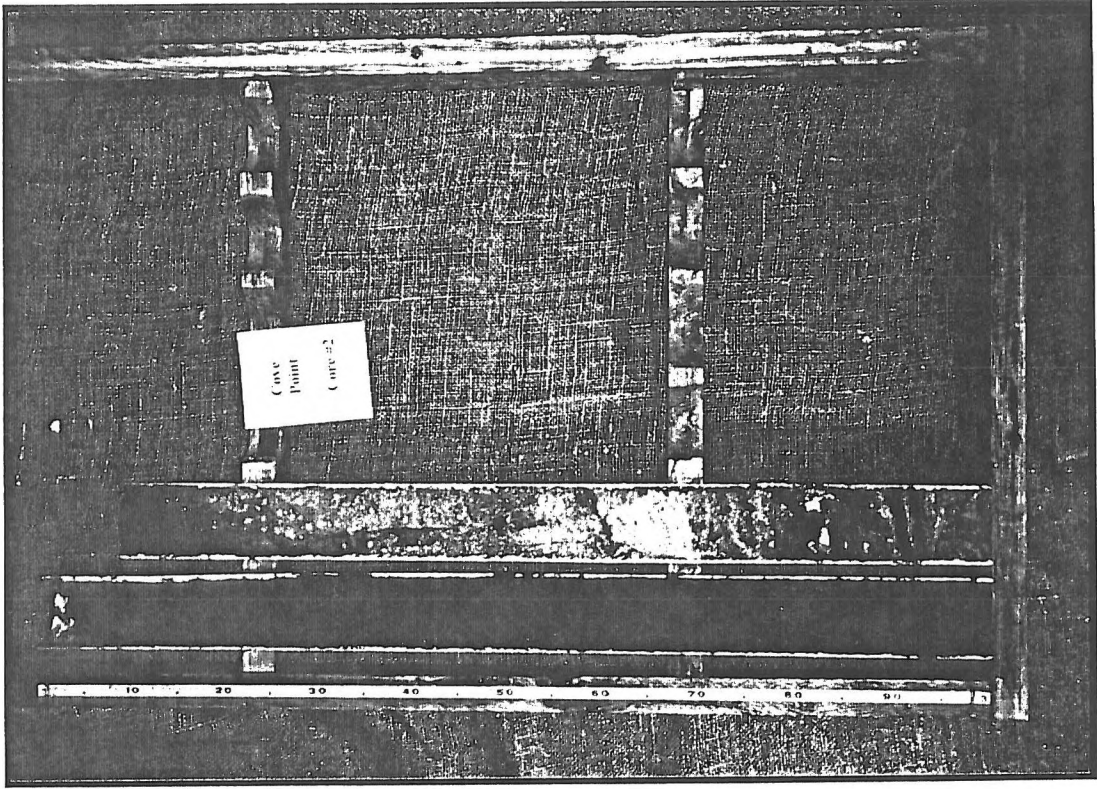
## **Appendix B**

### **Vibracore Photographs**

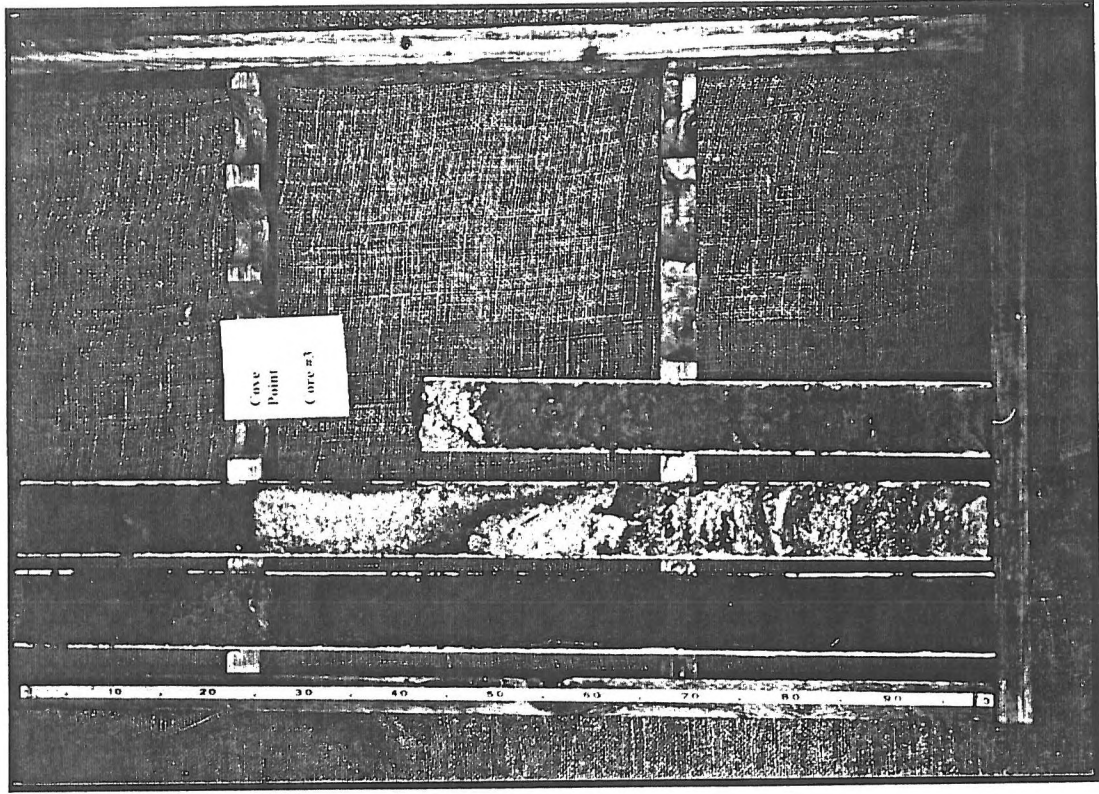
These photographs are records of each core taken at Cove Point in the summer of 1996. Each core is arranged in meter sections, starting with the top of the core on the top left of the photograph, the top of the second meter section next to the top of the first section and so on, from left to right, until the end of the core is reached. These cores were compacted during the sampling process; their corrected depths are displayed in Appendix A.



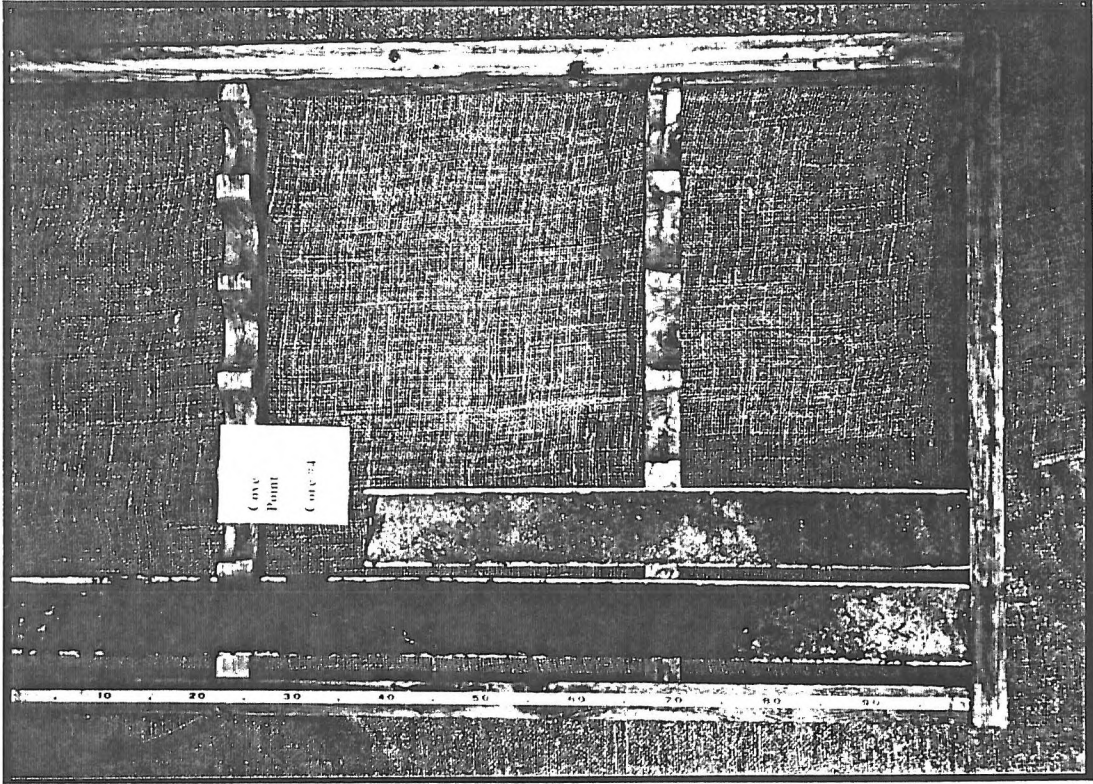
Photograph of core #1.



Photograph of core #2.

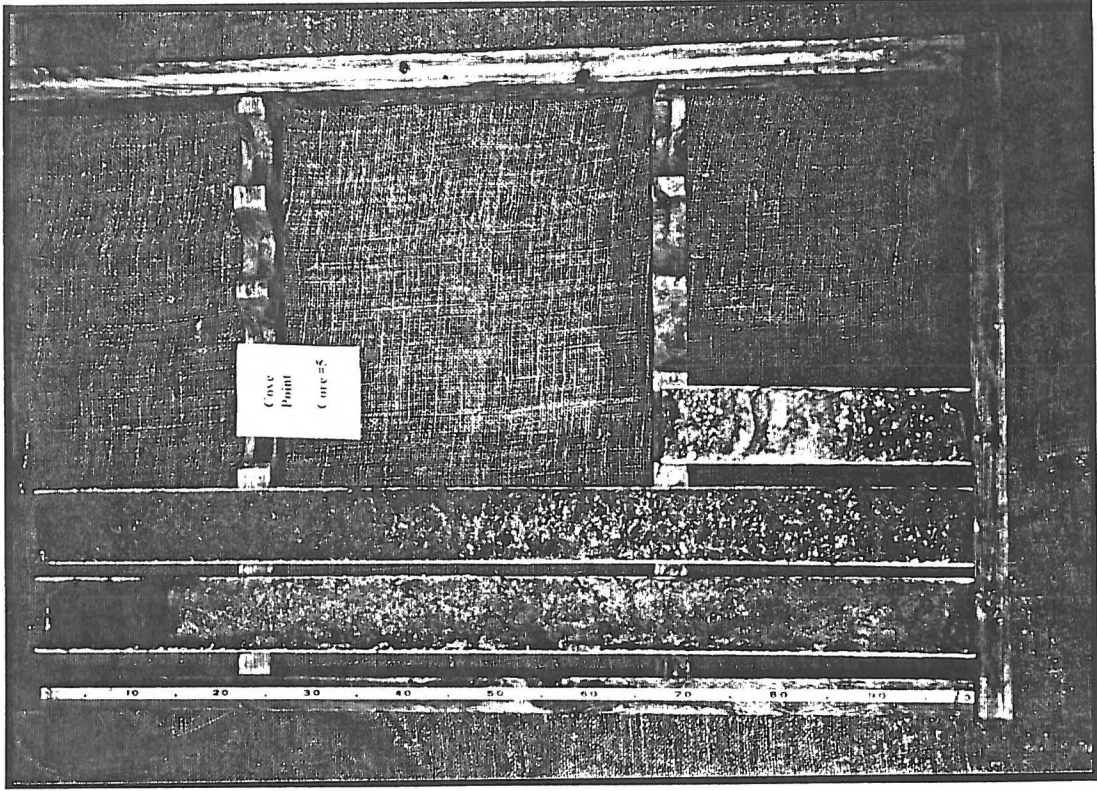


Photograph of core #3.

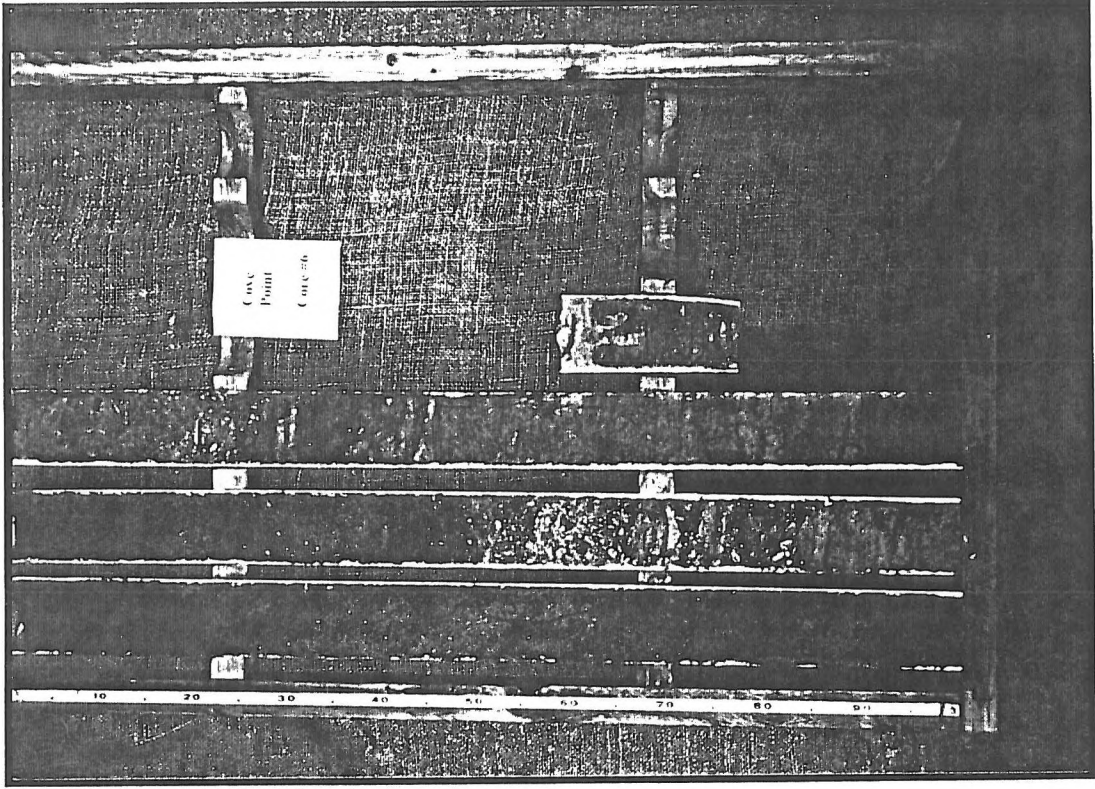


Photograph of core #4.

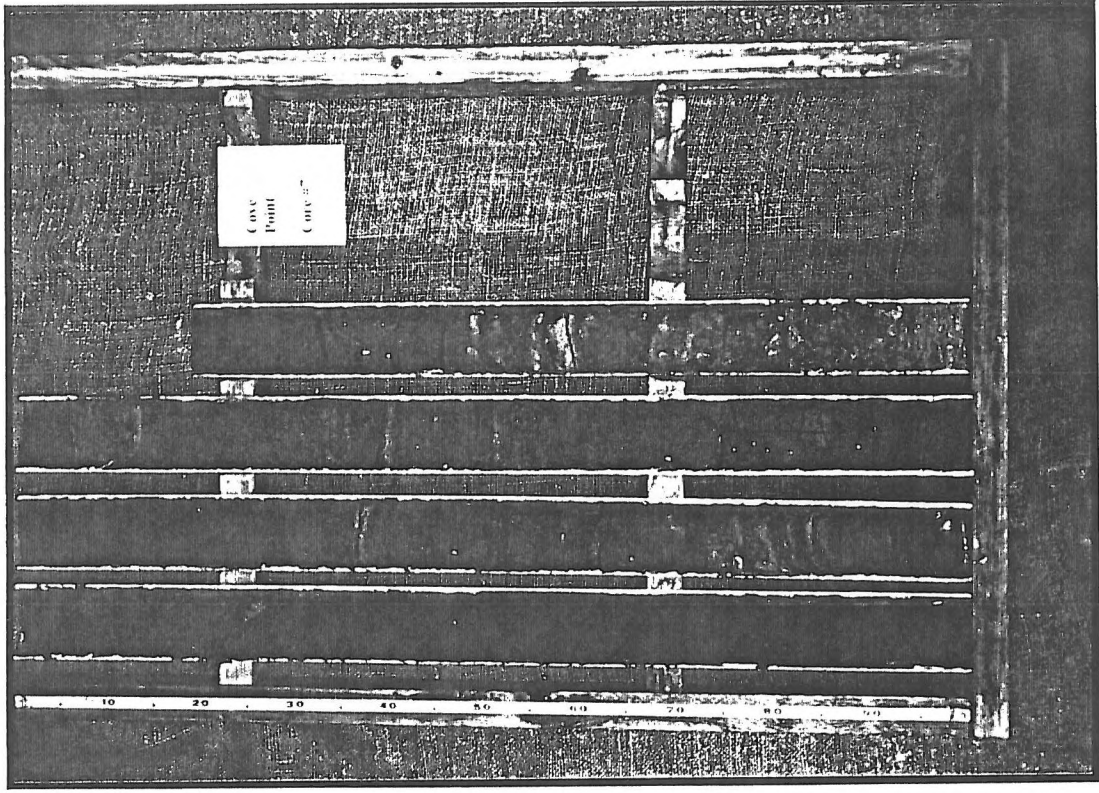




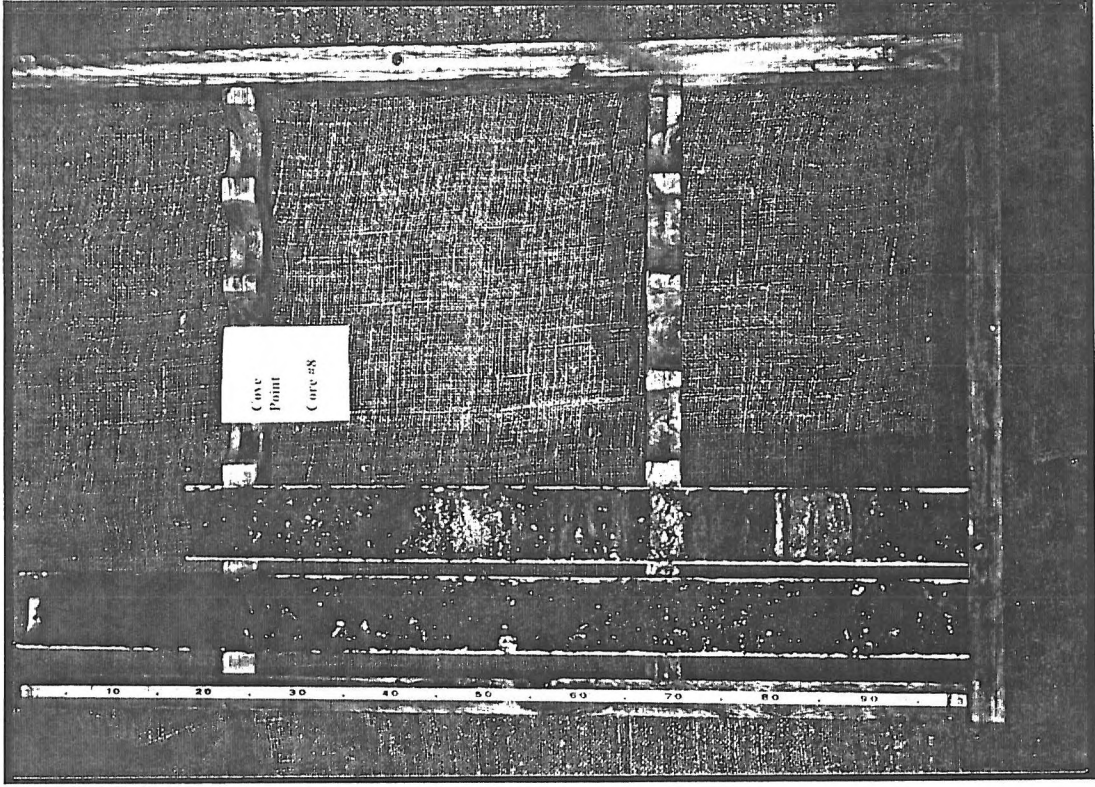
Photograph of core #5.



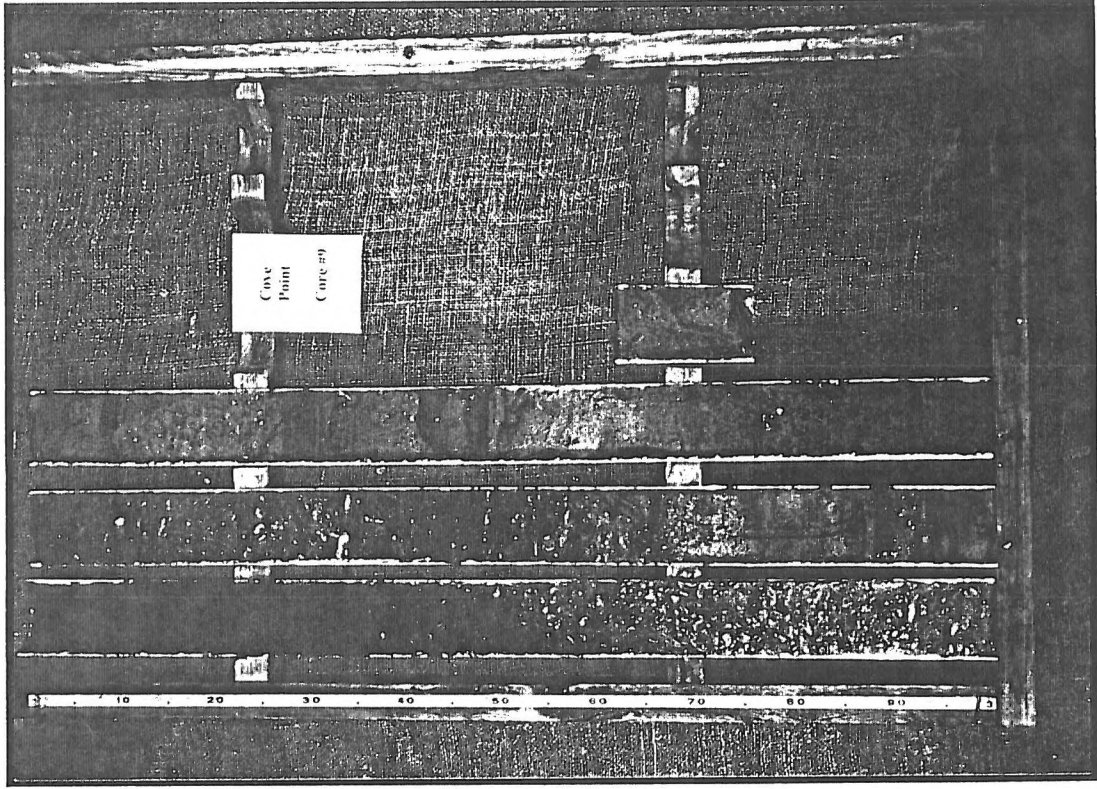
Photograph of core #6.



Photograph of core #7.

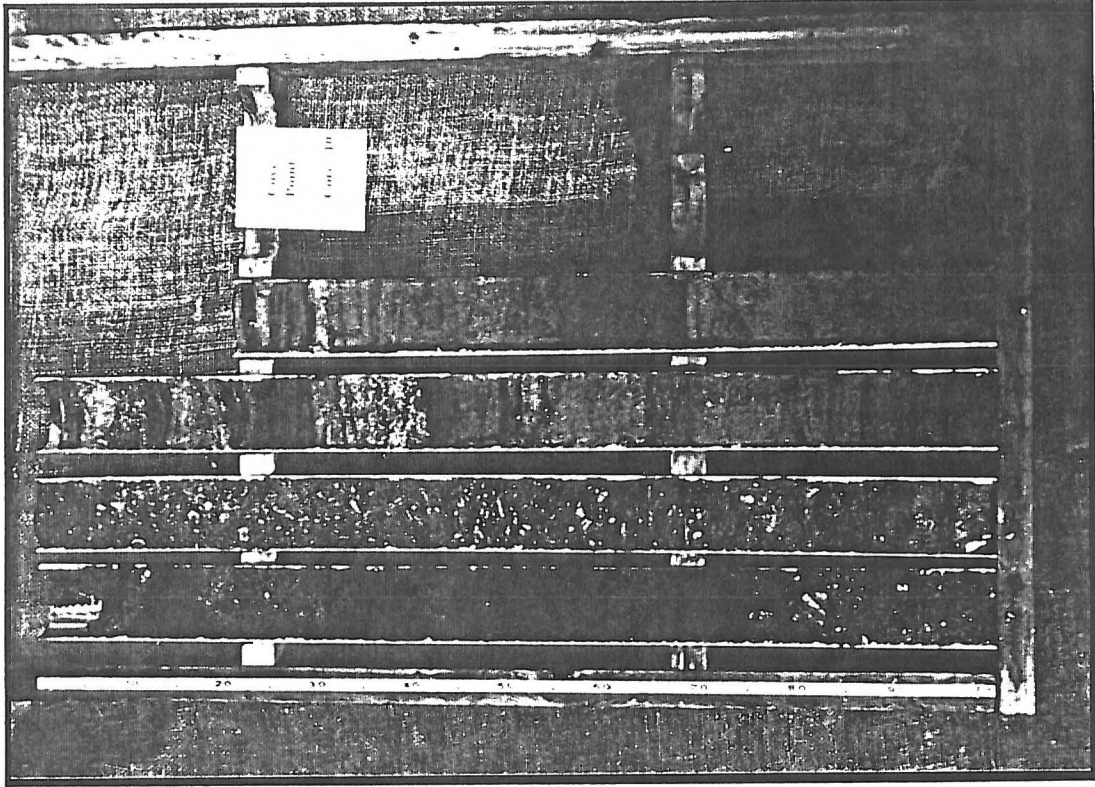


Photograph of core #8.

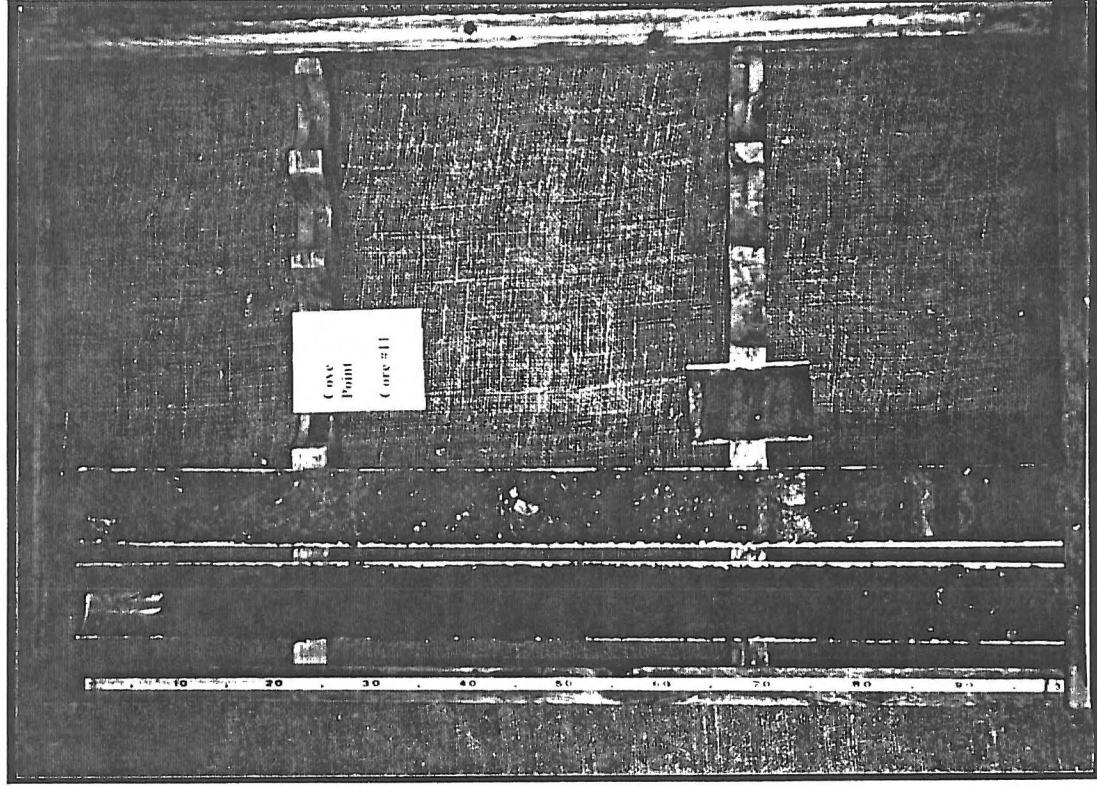


Photograph of core #9.



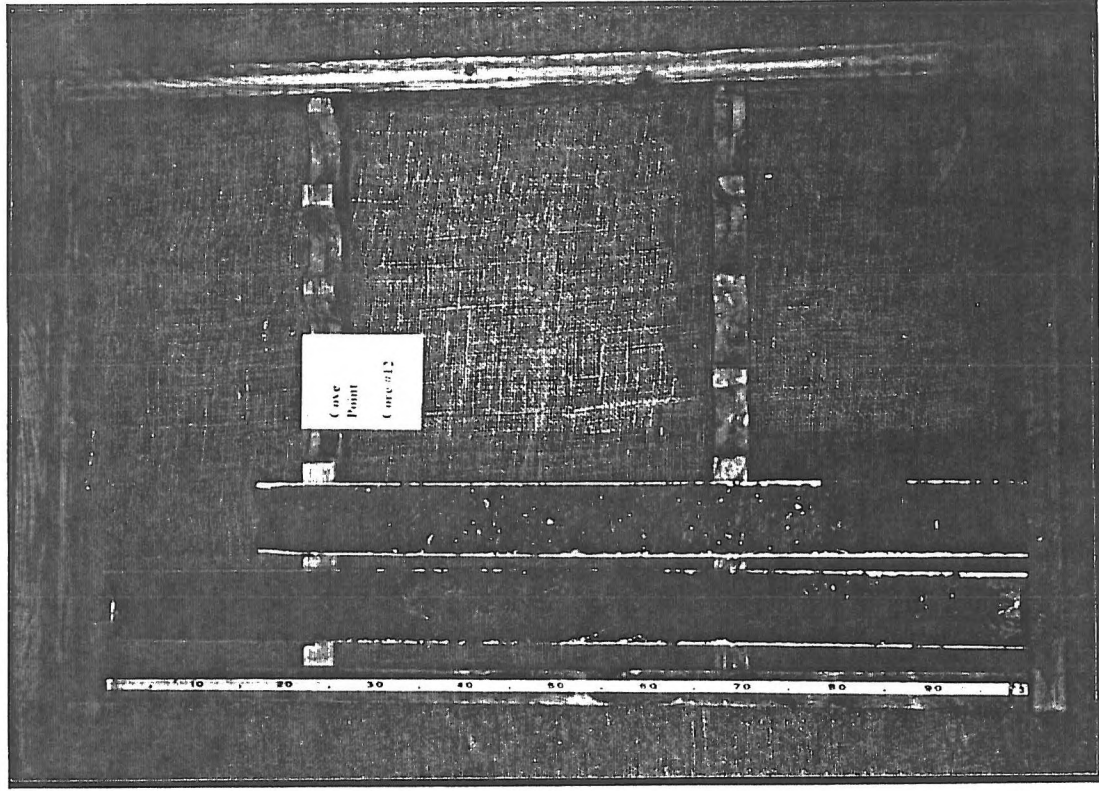


Photograph of core #10.

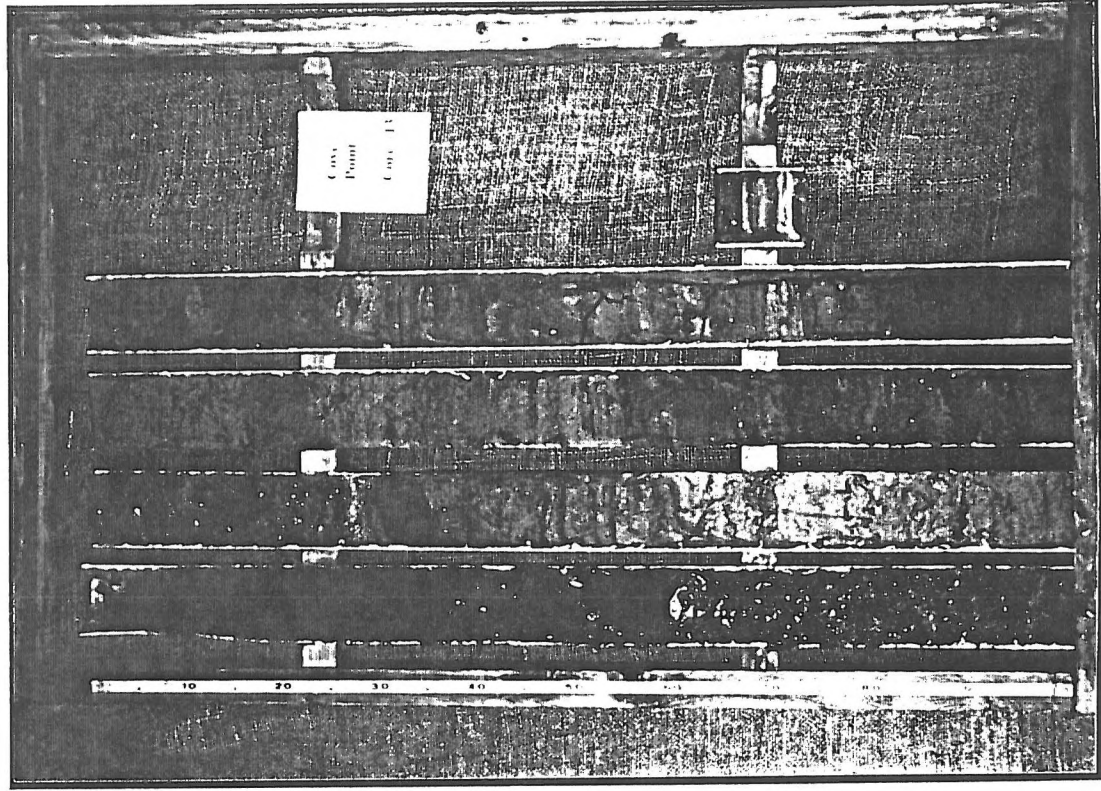


Photograph of core #11.

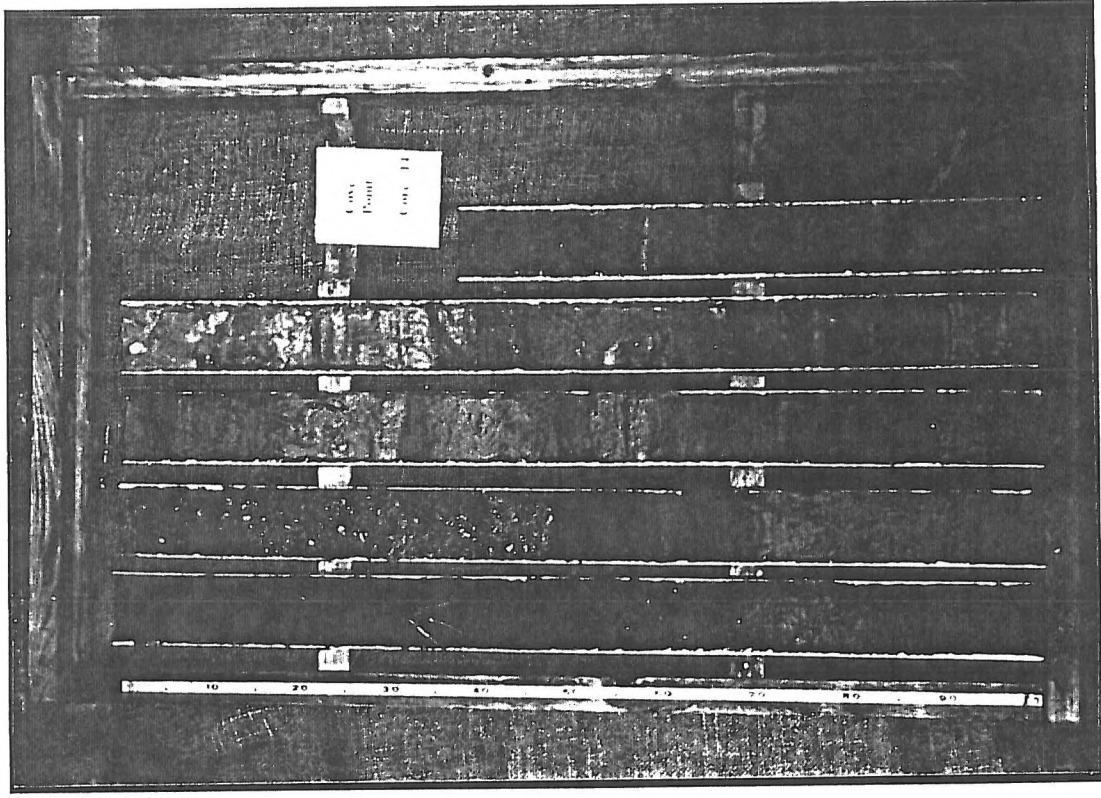




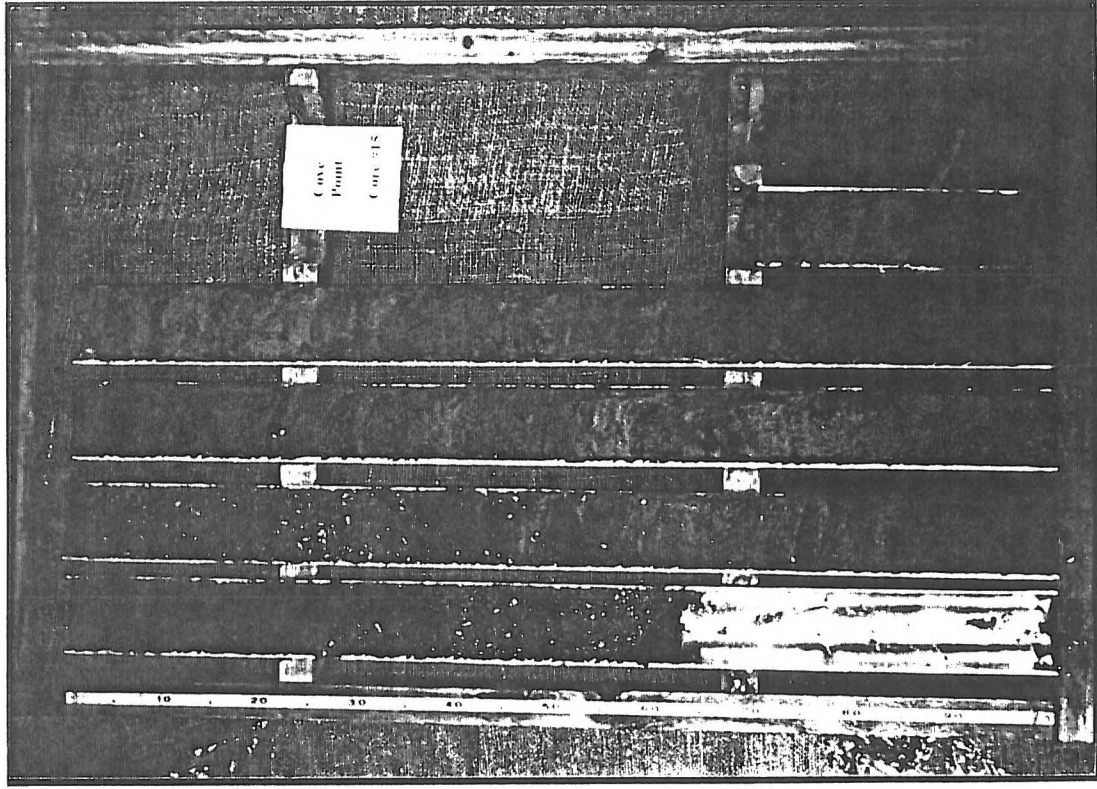
Photograph of core #12.



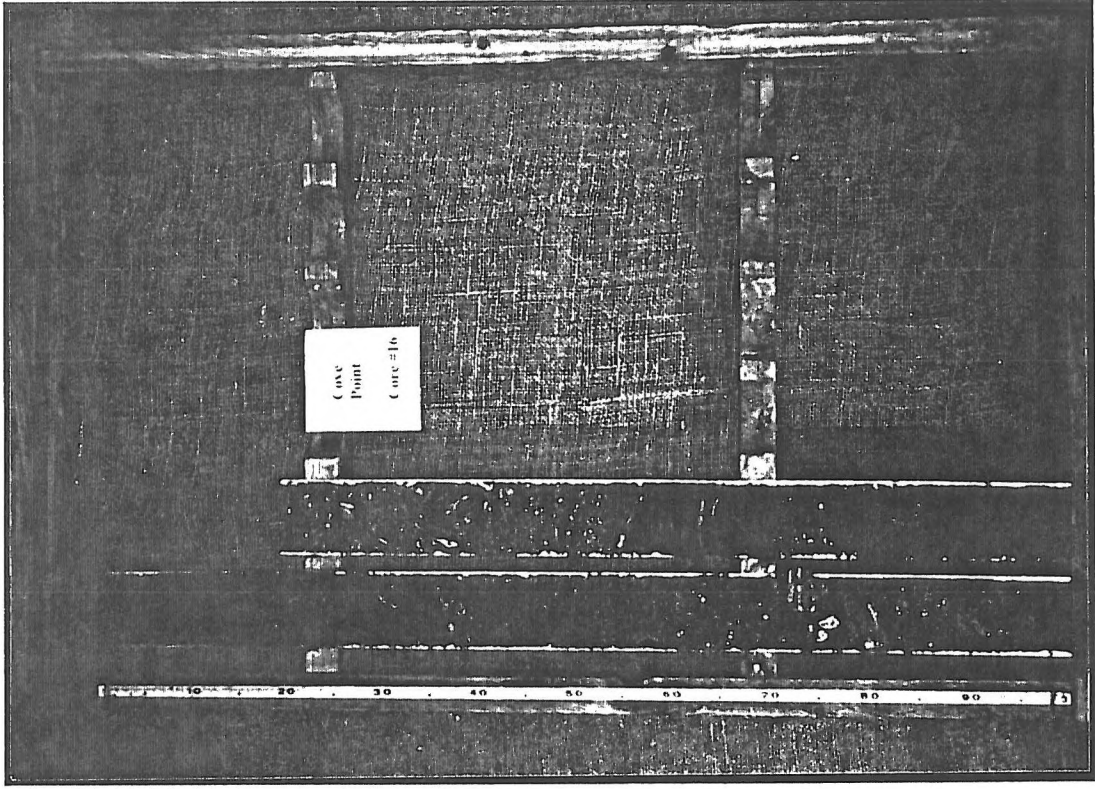
Photograph of core #13.



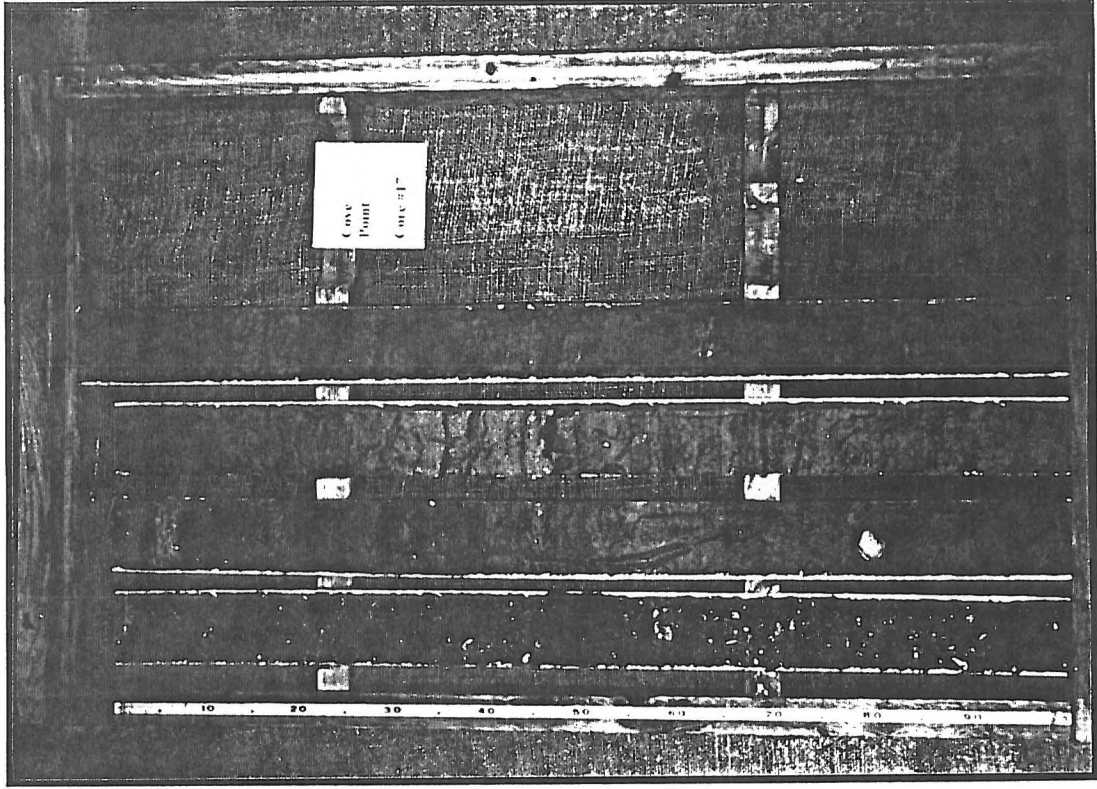
Photograph of core #14.



Photograph of core #15.

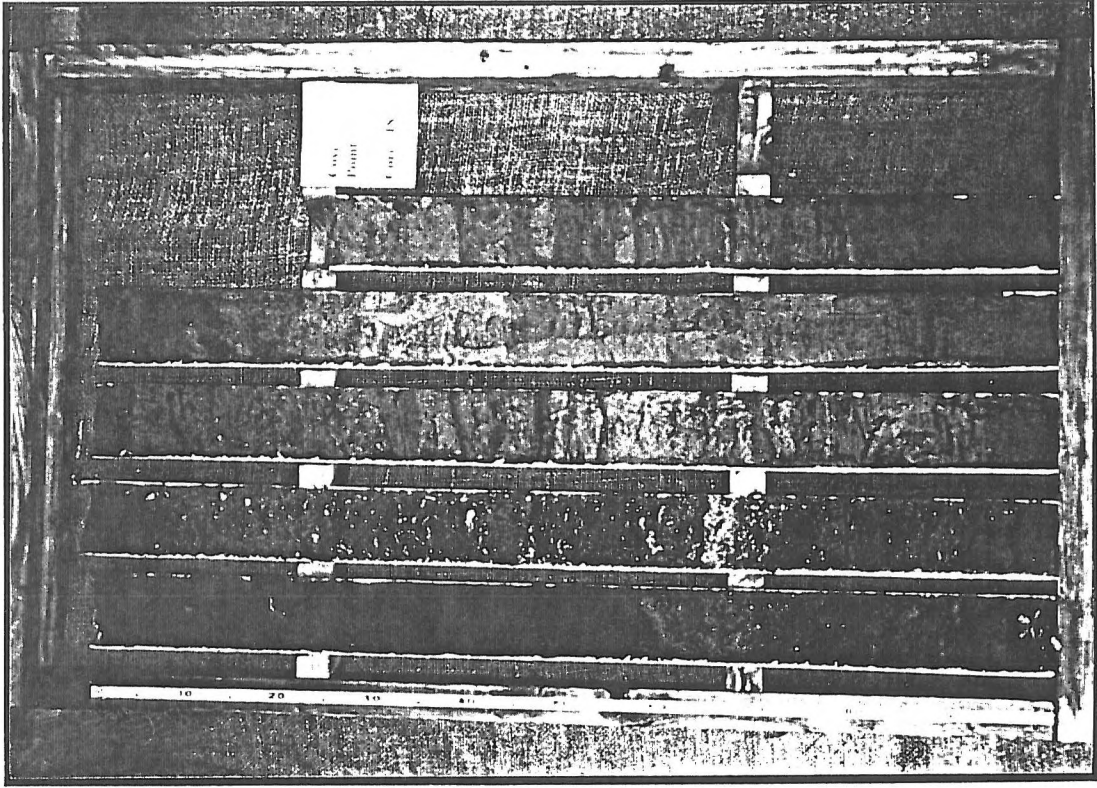


Photograph of core #16.



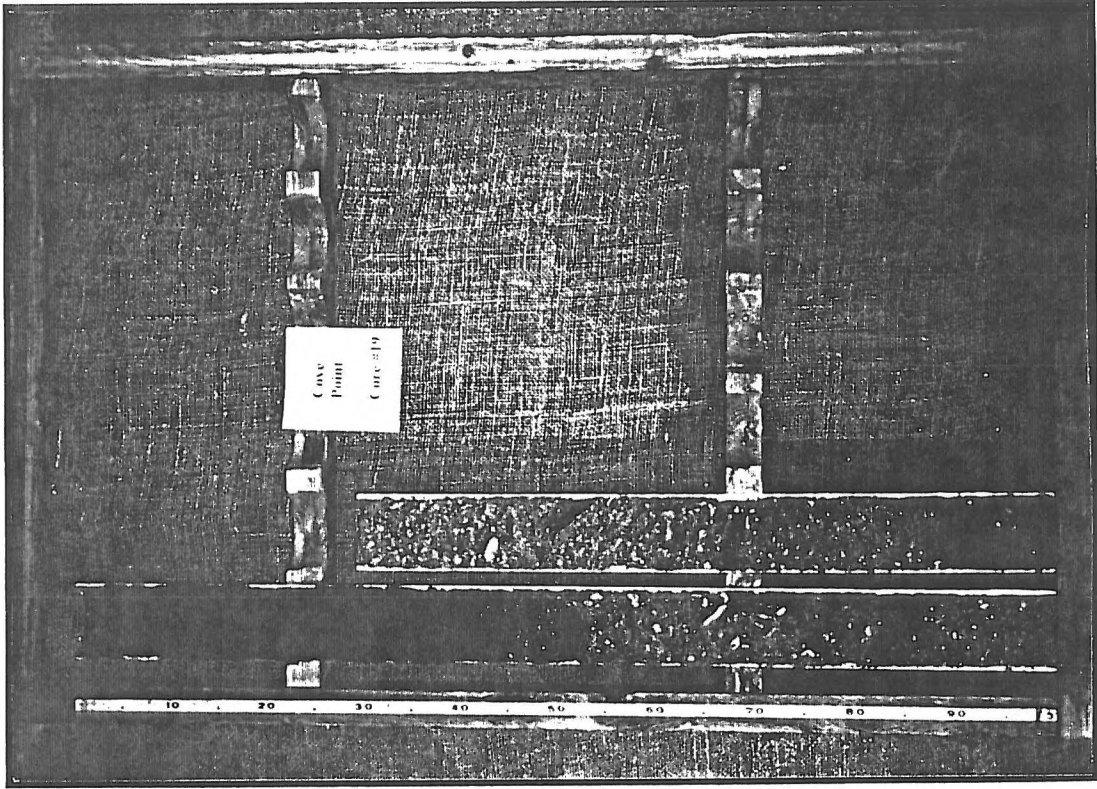
Photograph of core #17.



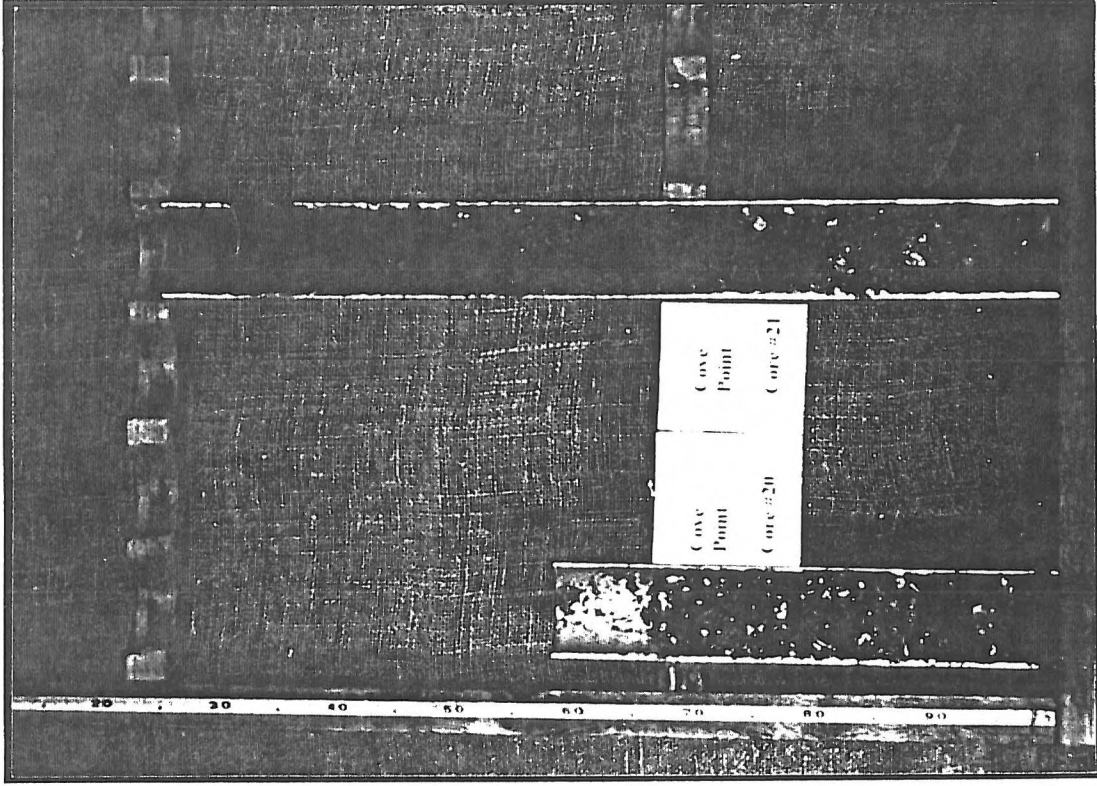


Photograph of core #18.





Photograph of core #19.



Photograph of core #20 and #21.

## REFERENCES

- Bird, E. F. C., 1969. Coasts. Australian National University Press, Canberra, pp. 246.
- Bird, E. C. F., 1976. Shoreline Changes During the Past Century. I. G. U. Working Group on the Dynamics of Shoreline Erosion, Department of Geography, University of Melbourne, pp. 54.
- Chesapeake Bay, Maryland and Virginia (Chartbook, Complete Sport Fishing and Boating Guide) 5th edition. 1996, ADC of Alexandria, Inc., Alexandria, VA., pp. 104. (pgs. 18, 20, 47)
- Crowell, M., S. P. Leatherman, and M.K. Buckley, 1991. Historical Shoreline Change: Error Analysis and Mapping Accuracy. *Journal of Coastal Research*, Vol. 7, No. 3, pp. 839-852.
- Curry, J. R., F. J. Emmel, and P. J. S. Crampton, 1967. Holocene History of a Strand Plain, Lagoonal Coast, Nayarit, Mexico, in Costanares, A. A., and F. B. Phelger, eds., *Lagunas Costeras, Un Simposio: Universidad Nacional Autonoma de Mexico*, pp. 686.
- Davies, J.L., 1957. The Importance of Cut and Fill in the Development of Sand Beach Ridges: *Australian Journal of Science*, vol. 20, pp. 105-111.
- Davies, J. L., 1977. *Geographical Variation in Coastal Development*. ed. K. M. Clayton. Longman Group, LTD, UK, pp. 204.
- Davis, R. A., 1972. Comparison of Ridge and Runnel Systems in Tidal and Non-Tidal Environments. *Journal of Sedimentary Petrology*, Vol. No. 2, pp. 413-421.
- Dolan, R., 1970. Sand Waves, Cape Hatteras, North Carolina, Shore and Beach, April, pp. 23-25.
- Dolan, R., L. Vincent, and B. Hayden, 1974. Crescentic Coastal Landforms, *Z. Geomorph. N.F.*, Vol. 18, Num. 1, pp. 1-12.
- Douglas, B. C., 1991. Global sea level rise. *Journal of Geophysical Research*, Vol. 96, no. c4, pp. 6981-6992.

- Douglas, B.C., 1997. Senior Research Scientist, University of Maryland, personal communication.
- Downs, L. L., 1993. Historic Shoreline Analysis and Determination of Littoral Cells: Rockhold Creek to Solomons Island, Maryland, Chesapeake Bay. MA thesis, University of Maryland, College Park.
- Escoffier, F. F., 1954. Travelling Forelands and the Shore Line Processes Associated With Them. Bulletin, U.S. Beach Erosion Board, Vol. 9, pp. 11-14.
- Glaser, J. D., 1968. Coastal Plain Geology of Southern Maryland, Maryland Geological Survey Guidebook No. 1, pp. 56.
- Gilbert, G. K., 1890. Lake Bonneville. U. S. Geological Survey, Monthly Vol. I, pp. 55.
- Gulliver, F.P., 1896. Cuspate Forelands. Geographical Society of America Bulletin, Vol. 7, pp. 399-422.
- Guza, R. T., and D. L. Inman, 1975. Edge Waves and Beach Cusps. Journal of Geophysical Research, Vol. 80, No. 21, pp. 2997- 3012.
- Hesp, P. A., 1984. Foredune Formation in Southeast Australia, in Thom, B. G., ed., Coastal Geomorphology in Australia, Academic Press, Sydney, pp. 69-97.
- Johnson, D.W., 1919. Shore Processes and Shoreline Development. Hafner Publishing Company, New York, New York, pp. 584.
- Kerhin, Randy. T., 1997. Maryland Geological Survey, personal communication.
- Kidwell, S. M., 1997. Anatomy of Extremely Thin Marine Sequences Landward of a Passive-Margin Hinge Zone: Neogene Calvert Cliffs Succession, Maryland, U.S.A., Journal of Sedimentary Research, Vol. 67, No. 2, pp. 322-340.
- Kindle, E. M., 1936. Notes on Shallow-Water Sand Structures. Journal of Geology, Vol. 44, 861-869.
- Komar, P. D., 1976, Beach Processes and Sedimentation, Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 429 pgs.
- Lanesky, Douglas E., Brian W. Logan, Raymond G. Brown, and Albert Hine, 1979. A New Approach to Portable Vibracoring Underwater and on Land. Journal of Sedimentary Petrology, Vol. 49, No. 2, pp. 654-657.

- Leatherman, S. P., and B. Clow, 1983. UMD Shoreline Mapping Project, IEEE Geoscience and Remote Sensing Society Newsletter, Sept., pp. 5- 8.
- Leatherman, S. P., R. et al., 1995. Vanishing Lands, Sea Level, Society, and the Chesapeake Bay. U.S. Fish and Wildlife Service, Annapolis, Md., pp. 47.
- McKenzie, P., 1958, The Development of Beach Sand Ridges. The Australian Journal of Science, Vol. 20, pp. 213-214.
- Miller, J. R., S. M. Orbock, C. A. Torzynski, and R. C. Koechel, 1989. Beach Cusp Destruction, Formation, and Evolution during and Subsequent to an Extratropical Storm, Duck, North Carolina, Journal of Geology, Vol. 97, pp. 749-760.
- Otvos, E. G., and Price, W.A., 1979. Problems of Chenier Genesis and Terminology--an Overview: Marine Geology, Vol. 31, pp. 251-263.
- Psuty, N.P., 1967. The Geomorphology of Beach Ridges in Tabasco, Mexico. Technical Report 30, Coastal Studies Institute, Louisiana State University, Baton Rouge, Louisiana, pp. 51.
- Peltier, W.R., and Xianhua Jiang, 1997. The Eustatic Level of the Sea. Surveys in Geophysics, Vol. 18, pp. 236-271.
- Sanderson, Peta Gail, 1997. Cuspate Forelands on the West Coast of Western Australia, Ph.D., University of Western Australia, Department of Geography, pp. 309.
- Stapor, Frank W., 1975. Holocene Beach Ridge Plain Development, Northwest Florida. Z. fur Geomorph. N.F., Suppl.-Bd. 22, pp. 116-144.
- Tanner, W. F., and Stapor, F. W. Jr., 1971. Tabasco Beach-ridge Plain: an Eroding Coast: Transactions of the Gulf Coast Association of the Geological Society, Vol. 21, pp. 231-232.
- Tanner, W.F., and Stapor, F. W. Jr., 1972. Precise Control of Run-up in Beach-ridge Construction: Z. fur Geomorphology, vol. 16, No. 4, pp. 393-399.
- Taylor, M., and G.W. Stone, 1996. Beach Ridges: A Review, Journal of Coastal Research, Vol. 12, No. 3, pp. 612-621.
- USACOE, 1985. Naval Installations' Erosion Control Study. Baltimore District, Corps of Engineers, Baltimore, Maryland, pp. III-10--III-12.

USACOE, 1994. Coastal Geology, U.S. Army Corps of Engineers, Government Printing Office.

Wang, H., R. Dean, R. Dalrymple, R. Biggs, R. Perlin, V. Klemas, R. Spoeri, 1982. An Assessment of Shore Erosion in Northern Chesapeake Bay and of the Performance of Erosion Control Structures, Maryland Department of Natural Resources, Annapolis, Maryland.





