

SOURCE

- (1) Initially compiled by Edmunds in 1977 as NW quadrant of North East 15' quadrangle, based on:
  - (a) Unpub. map data by R. E. Sherrill, C. R. Feltke, and S. H. Cathcart on file in Pittsburgh office of P.O. Geol. survey
  - (b) Reference to Pa. Second Survey Rept. Q 4.
  - (c) Reference to New York Survey Bull. 391.
  - (d) Reconnaissance field check.
- (2) Contacts redrawn on Erie County 1:50,000 bore by Berg in 1978, adjusted to fit new topography and to project more accurately beneath glacial deposits.

EXPLANATION

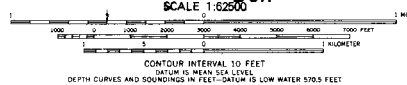
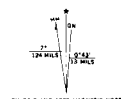
- Dv Venango Fm.
- Dch Chadakoin Fm.
- Dg Girord Shale
- Dne Northeast Shale

NOTE: The mapping in this quadrangle was revised after the 1980 state map was completed; contacts in some places differ slightly from those shown on the state map.



REFERENCES

- Tesmer, I. H. (1963), Geology of Chautauque County, New York, Part I, Stratigraphy and Paleontology (Upper Devonian), New York State Museum and Science Service Bulletin 391, 65 p.
- White, J. C. (1881), The geology of Erie and Crawford Counties, Pennsylvania Geological Survey, 2nd ser., Report Q 4, 355 p.



ROAD CLASSIFICATION

Heavy-duty	Light-duty
Medium-duty	Unimproved dirt

   Interstate Route   
  U.S. Route   
  State Route



Compiled by T. M. BERG, 1978

**HARBORCREEK**