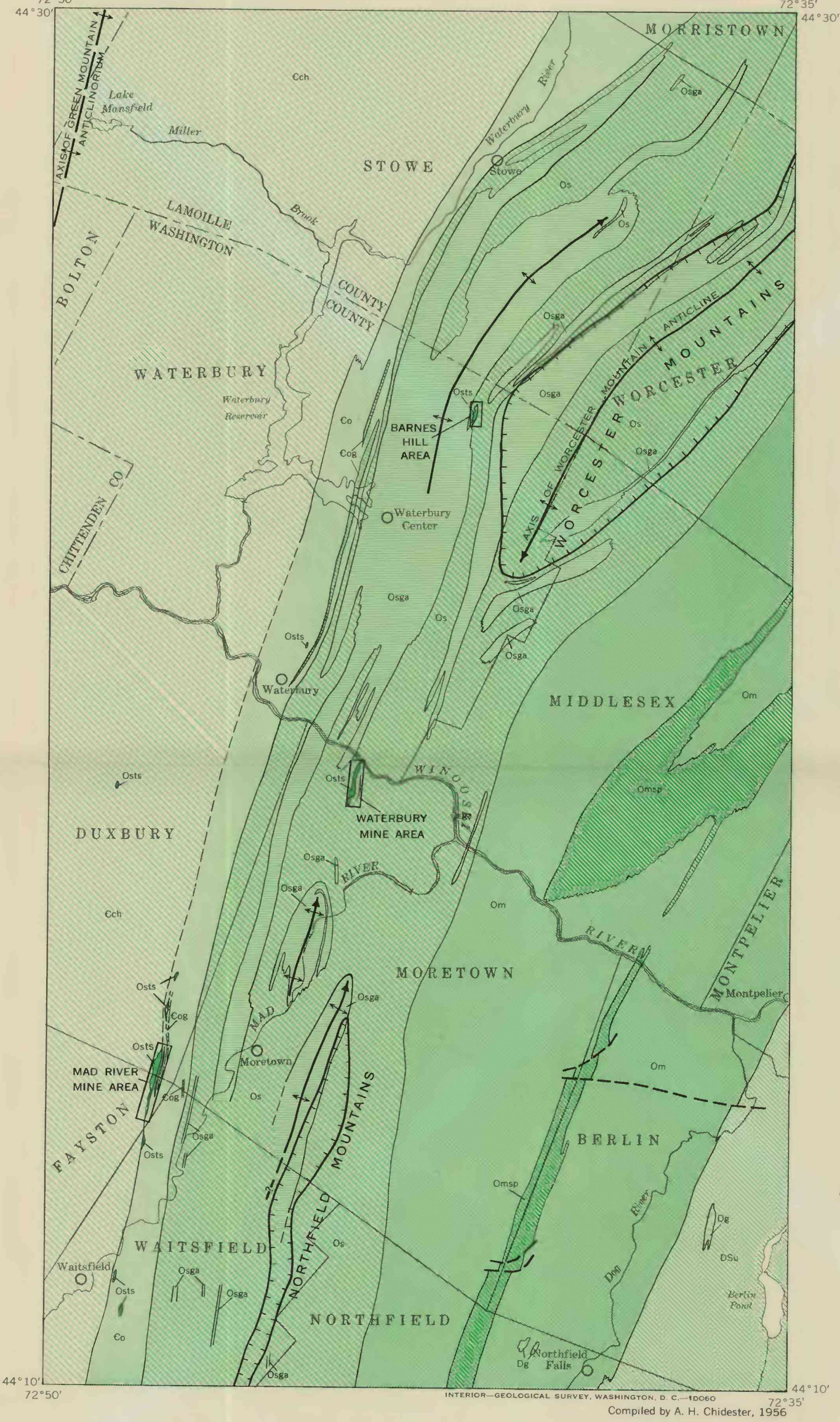
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PROFESSIONAL PAPER 345
PLATE 2

GEOLOGIC MAP OF THE WATERBURY–WAITSFIELD AREA, VERMONT



INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1D060

Compiled by A. H. Chidester, 1956

EXPLANATION

Dg — Granite (DEVONIAN)

Medium- to fine-grained gray granite in sills several hundred feet thick; subsidiary sills and sill-like dikes, a few feet thick, are composed of fine-grained granite

DSu — Phyllite, limestone, slate, schist, and conglomerate, undifferentiated (SILURIAN(?) AND DEVONIAN(?))

Includes the Shaw Mountain formation of Silurian(?) age, containing schist, conglomerate, and limestone; the Northfield slate of Silurian(?) age; and the Waits River formation of Silurian(?) and Devonian(?) age, containing interbedded phyllite and crystalline limestone

Osts — Serpentinite, talc-carbonate rock, and steatite (ORDOVICIAN)

Characteristically lenticular bodies with a core of serpentinite surrounded by successive shells of talc-carbonate rock and steatite

Om, Omsp — Moretown formation

Finely laminated quartz-albite-sericite-chlorite granulite with characteristic thin partings of sericite, epidote, and chlorite, Om. *Carbonaceous slate and phyllite,* Omsp, *chiefly parallel to the bedding, form thick units that grade into the granulite. Other, less common rocks, most of which are mapped with the granulite, include quartzite, quartz-sericite-chlorite slate and phyllite, greenstone, conglomerate, metarhyolite tuff, and limestone*

Osga, Os — Stowe formation

Quartz-sericite-chlorite schist and quartz-muscovite-garnet-kyanite schist, partly integradational, Os, *grading locally into quartz-albite-sericite-chlorite schist, albite granulite, and carbonaceous phyllite. Greenstone and amphibolite,* Osga, *form thick units that grade locally into schist, chiefly parallel to the bedding; into each other; and into small bodies of crystalline limestone and albite-hornblende granulite,* Osga. *The quartz-muscovite-garnet-kyanite schist and amphibolite occur almost entirely within the areas enclosed by the garnet isograd on the map*

Co, Cog — Ottauquechee formation (CAMBRIAN)

Dark-gray or black commonly pyrite-bearing carbonaceous phyllite with a few sharply defined interbeds of massive slate-gray quartzite that ranges in thickness from a fraction of an inch to 10 feet, Co. *Greenstone,* Cog, *is interbedded chiefly in the upper part of the formation*

Cch — Camels Hump group (CAMBRIAN)

Includes poorly defined stratigraphic zones—successively, carbonaceous quartz-sericite-albite schist, thin-bedded sericitic quartzite with interbeds of massive, slate-gray quartzite, graphitic phyllite, and quartz-sericite schist—and near the top quartz-chlorite schist with lenticular masses of granular white quartz

Garnet isograd
Hachured on the garnet side

Contact
Dashed where approximately located

Approximate fault

Anticline
Showing trace of axial plane and direction of plunge of axis; dashed where approximately located; queried where doubtful

CAMELS HUMP	MONTPELIER
Cady, reconnaissance	Cady (1956)
LINCOLN MTN Cady, Murphy and Albee, reconnaissance	BARRE R. H. Jahns, unpublished map

QUADRANGLE SOURCE DIAGRAM

SCALE 1:125 000

1 0 1 2 3 4 MILES

15°
MAGNETIC NORTH
TRUE NORTH
APPROXIMATE MEAN DECLINATION, 1960