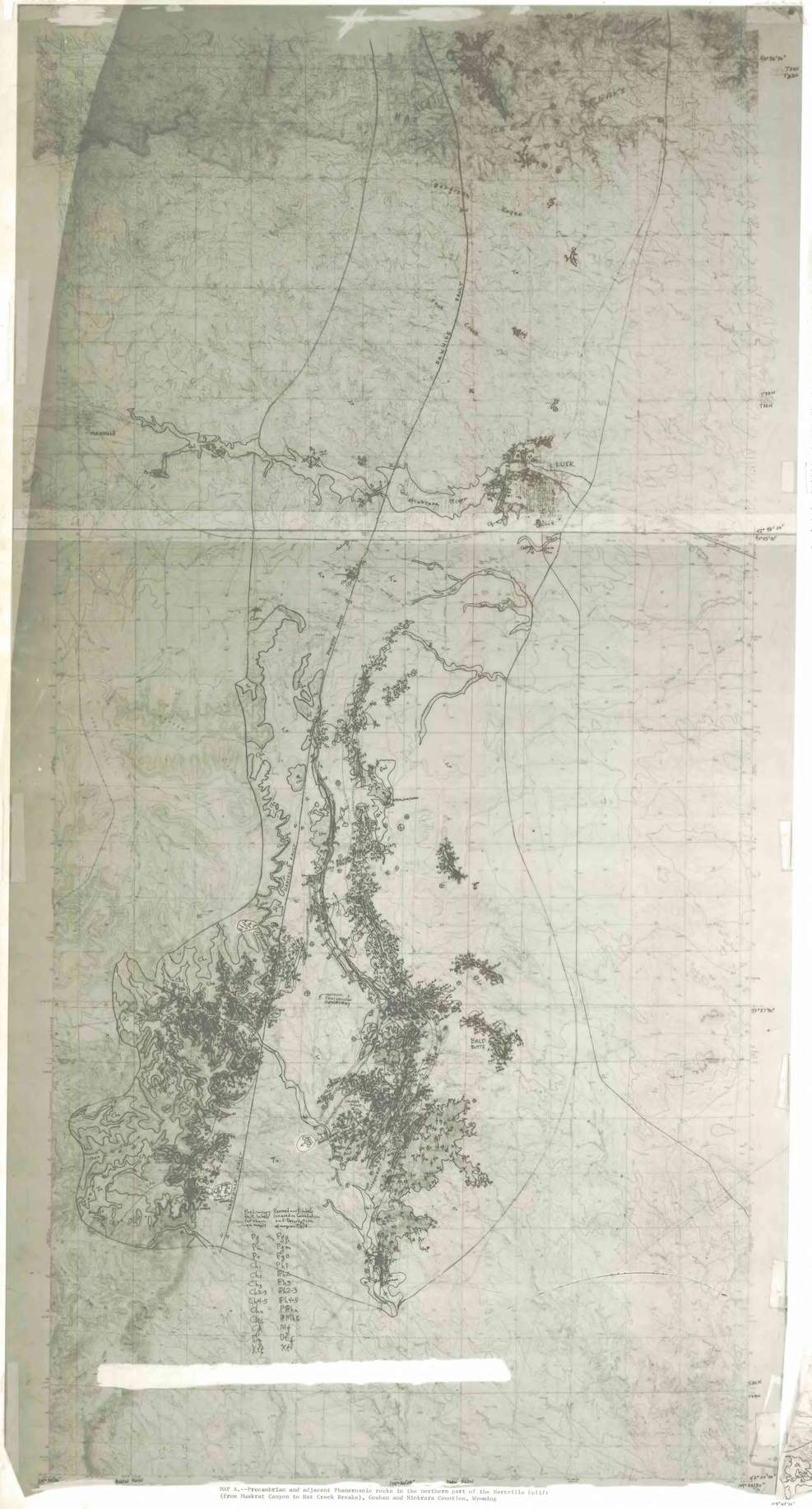
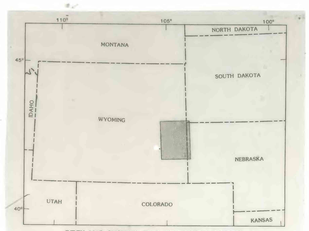


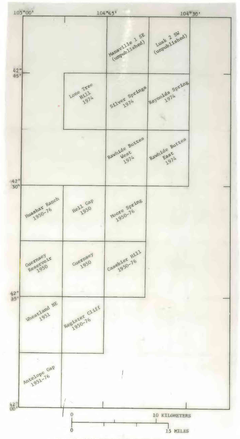
MAP A.--Precambrian and adjacent Phanerozoic rocks in the northern part of the Hartville Uplift (from Muskrat Canyon to Hat Creek Breaks), Goshen and Niobrara Counties, Wyoming



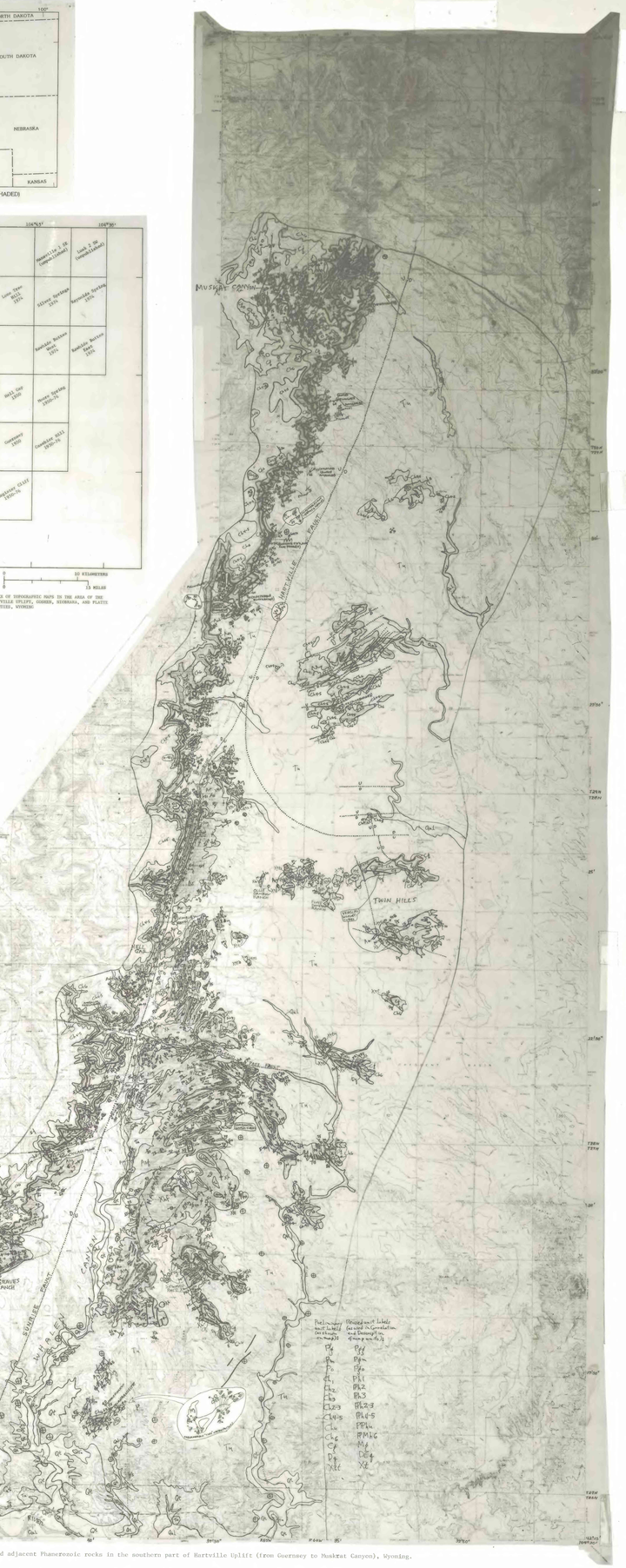
INDEX MAP SHOWING AREA OF FIGURE 1 (SHADED)

LIST OF MAP UNITS

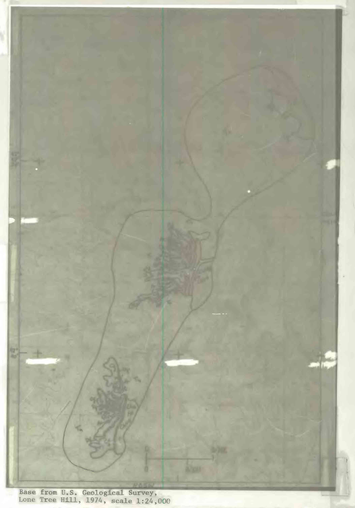
Qal	ALLUVIUM
Qt	TERRACE GRAVEL
Tu	ARIKAREE FORMATION
	GOODE ECC FORMATION
Tgm	Red mudstone, siltstone, gypsum, and minor limestone of Clendo Shale Member at base and some higher members
Tgn	Monnahatta Limestone Member
Tgo	Opache Shale Member
	HARTVILLE FORMATION
Ph1	Unit 1
IPh2	Unit 2
IPh3	Unit 3
IPh3-5	Units 3 and 5
IPh4-5	Units 4 and 5
PIPh4	Units 1 through 5 undifferentiated
IPh6	Unit 6
Mg	GUERNSEY FORMATION
Dq	QUARTZITE
pe	PEGMATITE
Xa	AMPHIBOLITE
Xb	Feldspar-quartz biotite quartz monzonitic and granitic augen gneiss
Xb1	Granite phase
Xt	DIORITE OF TWIN HILLS
Aa	AMPHIBOLITE
Ar	Feldspar-quartz-biotite coarse-grained granitic augen gneiss to medium-grained uniform gneiss
Arn	Local sillimanite-pod phase of granite
Ha	HYDATITE
Awf	Formation of Wildcat Hills
Awn	Southern facies, northern facies
Aen	Hornblende-plagioclase amphibolite
Aem	Plagioclase-quartz-muscovite-biotite schist of Silver Springs
Asg	Plagioclase-quartz-biotite schist and quartz-granule metagraywacke to micaceous quartzite-sillimanite schist
Aaa	Amphibolite
Aaq	Quartzite
Aam	Pure marble interlayers
Af	Metabasalt of Mother Featherlegs
Afm	Calcareous marble interlayers
Afs	Biotite and muscovite schist and graded shale-pebble and quartz-granule feldspathic metagraywacke,
Afc	Calc-silicate pod amphibolite
	Formation of Muskrat Canyon
Amd	Dolomite and tremolite dolomite with tremolite
Ams	Biotite, muscovite, and sillimanite schist (metashale) and graded quartz-granule metagraywacke and local quartzite
Amq	Siliceous to ferruginous quartzite



INDEX OF TOPOGRAPHIC MAPS IN THE AREA OF THE HARTVILLE UPLIFT, GOSHEN, NIOBRARA, AND PLATTE COUNTIES, WYOMING

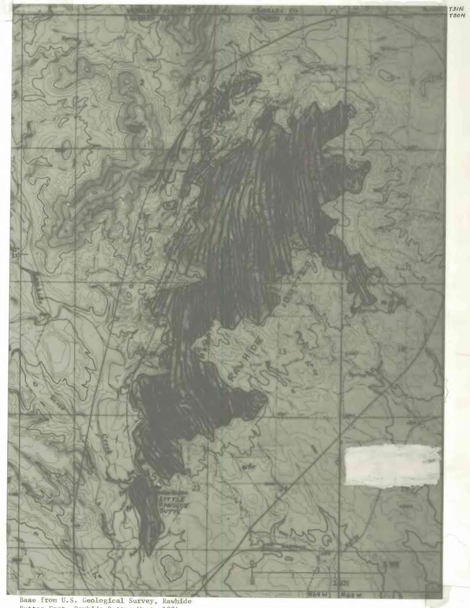


MAP B.--Precambrian and adjacent Phanerozoic rocks in the southern part of Hartville Uplift (from Guernsey to Muskrat Canyon), Wyoming.



Base from U.S. Geological Survey, Lone Tree HILL, 1974, scale 1:24,000

MAP C.--Precambrian and adjacent Phanerozoic rocks in the Lone Tree Hill area, Niobrara County, Wyoming.

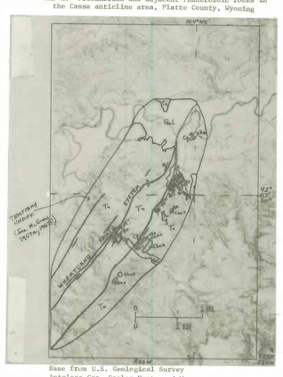


Base from U.S. Geological Survey, Rawhide Buttes East, Rawhide Buttes West, 1974

MAP D.--Precambrian and adjacent Phanerozoic rocks in the Rawhide Buttes area, Goshen County, Wyoming.

Base from U.S. Geological Survey, Cassa, 1950-51, scale 1:24,000

MAP E.--Precambrian and adjacent Phanerozoic rocks in the Cassa anticline area, Platte County, Wyoming



Base from U.S. Geological Survey
Antelope Gap, Eagles Nest, and W Wheatland NE, 1951; Register Cliff, 1950, scale 1:24,000

MAP F.--Precambrian and adjacent Phanerozoic rocks in the Antelope Hills area, Platte County, Wyoming

MAP OF PRECAMBRIAN AND ADJACENT PHANEROZOIC ROCKS OF THE HARTVILLE UPLIFT, GOSHEN, NIOBRARA, AND PLATTE COUNTIES, WYOMING

By
George L. Snyder
1980