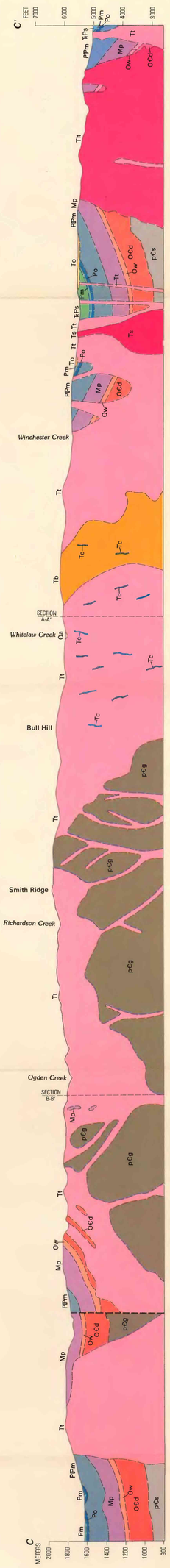
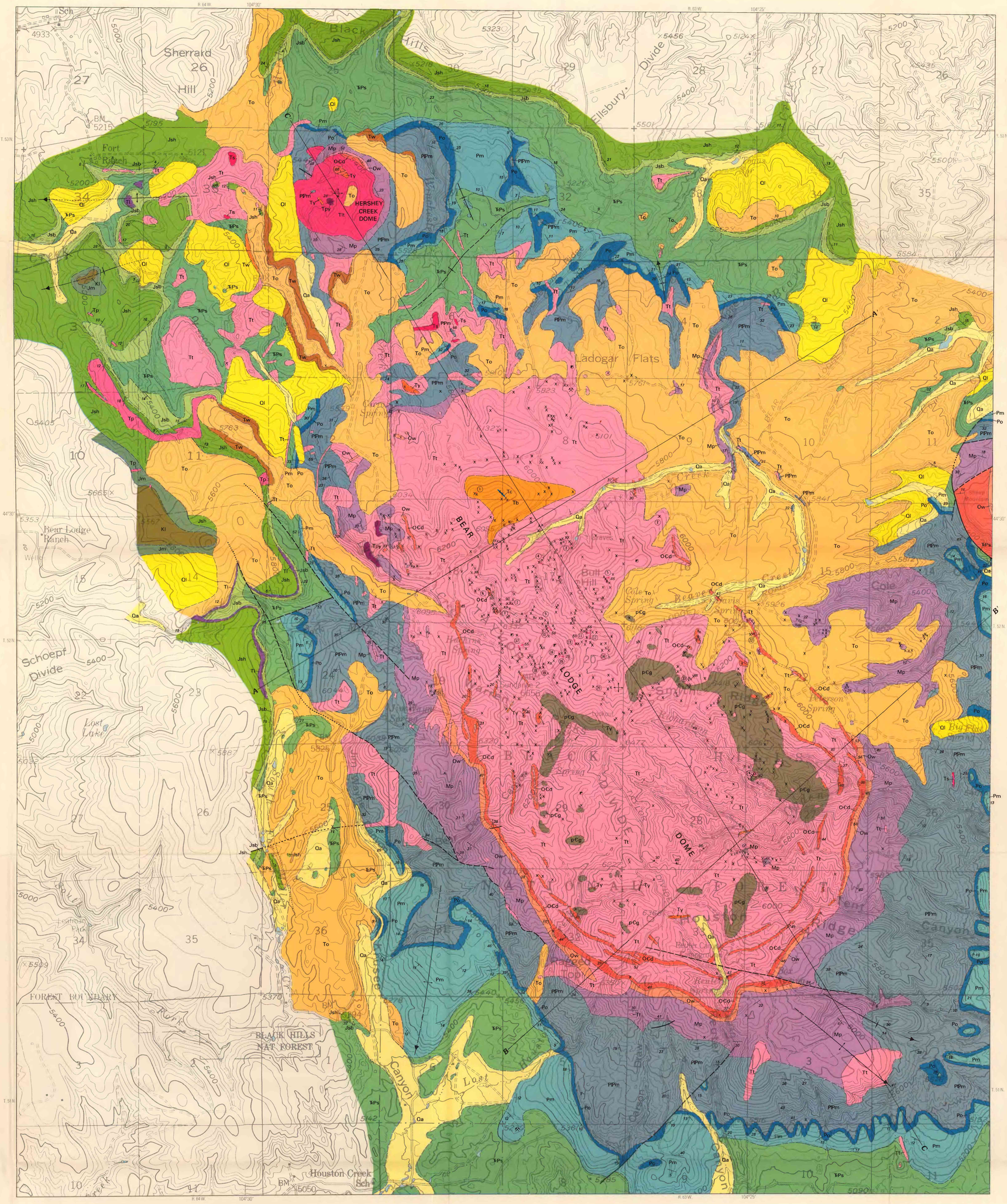




EXPLANATION OF MAP UNITS

- Qa — ALLUVIUM (HOLOCENE)
- Ql — LANDSLIDE DEPOSITS (HOLOCENE)

UNCONFORMITY

- To — OGALLALA FORMATION (PLIOCENE AND UPPER MIOCENE)

UNCONFORMITY

- Tw — WHITE RIVER FORMATION (OLIGOCENE)

UNCONFORMITY

- Ty — YOUNGER TRACHYTE AND PHONOLITE DIKES (EOCENE)
- Tb — INTRUSIVE BRECCIA (EOCENE)
- Tc — CARBONATITE (EOCENE)
- Tpv — PYROCLASTIC DEPOSITS (EOCENE)
- Tp — PSEUDOLEUCITE PORPHYRY (EOCENE)
- Tl — LAMPROPHYRE (EOCENE)
- Ts — SYENITE AND NEPHELINE SYENITE (EOCENE)
- Ttt — LATITE (EOCENE)
- Tt — PHONOLITE AND TRACHYTE (EOCENE)

THESE INTRUSIVE ROCKS ARE ALL OF APPROXIMATELY THE SAME AGE

UNCONFORMITY

- Kl — LAKOTA FORMATION (LOWER CRETACEOUS)

UNCONFORMITY

- Jm — MORRISON FORMATION (UPPER JURASSIC)
- Jsh — SUNDANCE FORMATION (UPPER AND MIDDLE JURASSIC)—Windy Hill Sandstone, Redwater Shale, Pine Butte, Lak, and Hulett Sandstone Members
- Jsb — SUNDANCE FORMATION (MIDDLE JURASSIC)—Stockade Beaver Shale and Canyon Springs Sandstone Members

UNCONFORMITY

- TRPs — SPEARFISH FORMATION (TRIASSIC AND PERMIAN)
- Pm — MINNEKAHTA LIMESTONE (PERMIAN)
- Po — OPECHE FORMATION (PERMIAN)

UNCONFORMITY

- PIPm — MINNELUSA SANDSTONE (LOWER PERMIAN AND PENNSYLVANIAN)

UNCONFORMITY

- Mp — PAHASAPA LIMESTONE (LOWER MISSISSIPPIAN)

UNCONFORMITY

- Ow — WHITEWOOD LIMESTONE (UPPER ORDOVICIAN)

UNCONFORMITY

- OCd — DEADWOOD FORMATION (LOWER ORDOVICIAN AND UPPER CAMBRIAN)

UNCONFORMITY

- pCs — SCHIST (PRECAMBRIAN)—Sections only
- pCg — GRANITE (PRECAMBRIAN)

CONTACT—Dashed where approximately located; dotted where concealed

FAULT—Dashed where approximately located; dotted where concealed

ANTICLINE—Showing crestline and direction of plunge; dashed where approximately located; dotted where concealed

SYNCLINE—Showing crestline and direction of plunge; dashed where approximately located

DOME—Cross marks approximate center of structure

37 STRIKE AND DIP OF BEDS

40 STRIKE AND DIP OF FLOW LAYERS

× PROSPECT PIT OR SMALL TRENCH

LONG TRENCH

SHAFT

OPEN ADIT

CAVED ADIT

(24) LOCALITY NUMBER OF VEINS—See tables 5–7

62 THORIUM AND RARE-EARTH-BEARING VEIN, SHOWING DIP

Base from U.S. Geological Survey 1:62,500
Sundance, Alva (1958); Devils Tower (1955)
Nefsy Divide (1952)
Roads as of 1977

APPROXIMATE MEAN DECLINATION, 1982

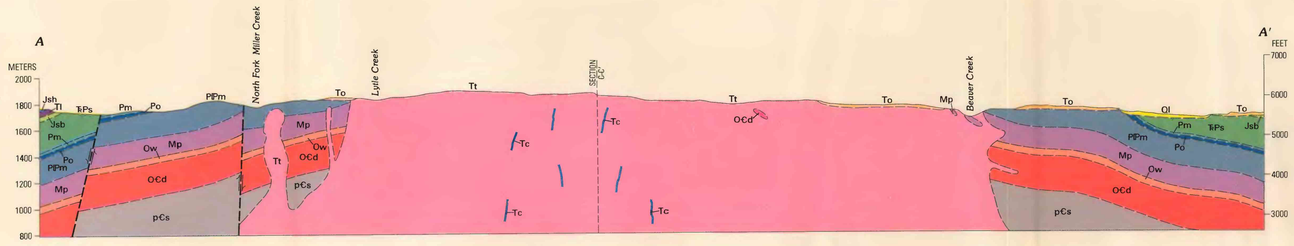
SCALE 1:24 000

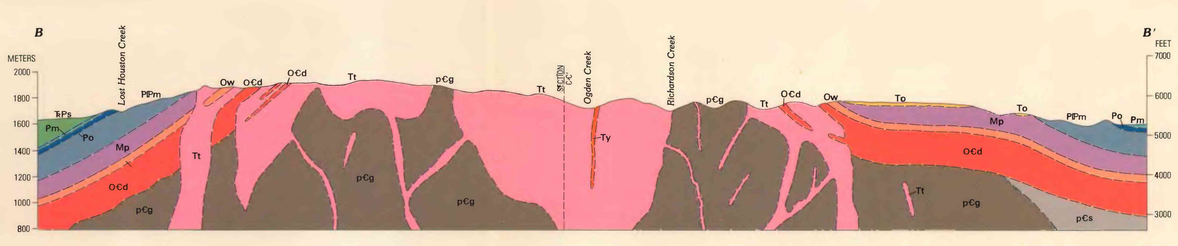
1 ½ 0 1 MILE

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 40 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

Geology by M. H. Staatz, 1975–1976





GEOLOGIC MAP OF THE SOUTHERN BEAR LODGE MOUNTAINS, NORTHEASTERN WYOMING