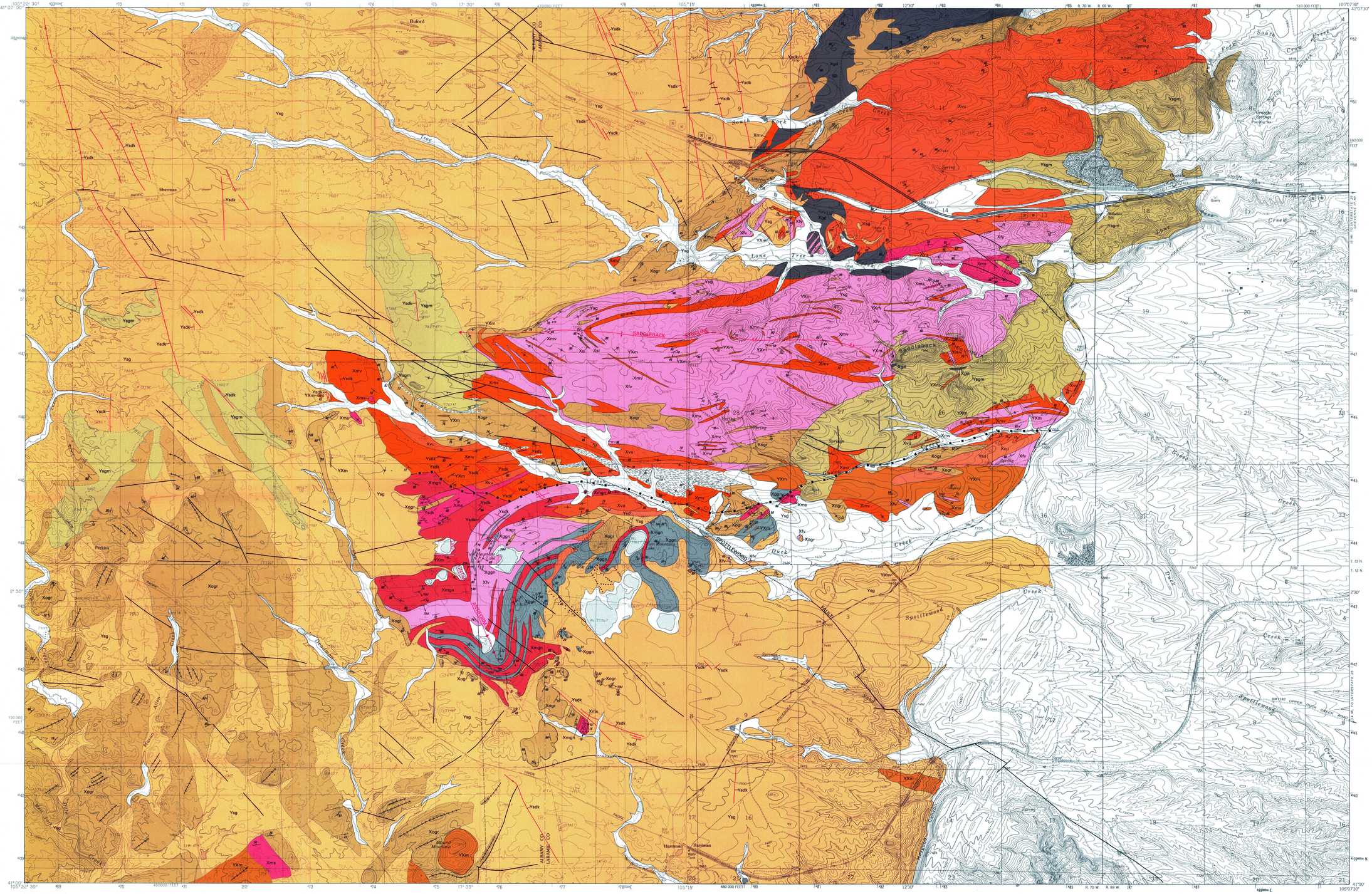
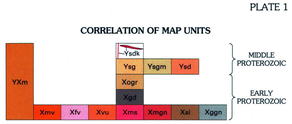


CORRELATION OF MAP UNITS



LIST OF MAP UNITS

PHANEROZOIC

Unconsolidated surficial rocks and sedimentary rocks, not differentiated on map

MIDDLE PROTEROZOIC

- Ysdk — Granite dike—Queried where extent uncertain
- Ysg — Sherman Granite (coarse-grained facies, 1,400 Ma)
- Ysgm — Sherman Granite (border facies)
- Ysd — Sherman Granite and basalt mixed

EARLY AND MIDDLE PROTEROZOIC

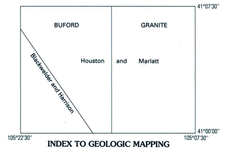
- YXm — Metamorphosed mafic igneous rocks ranging in age from 1,800 Ma to 1,400 Ma

EARLY PROTEROZOIC

- Xogr — Older granite (granite of Duck Creek) - 1,700–1,750 Ma
- Xgd — Granodiorite - 1,800 Ma
- Xggn — Granite gneiss
- Xsi — Mineralized zones
- Xmgn — Mixed metasedimentary and metavolcanic schist and gneiss
- Xms — Metasedimentary rocks
- Xvu — Metavolcanic rocks undivided
- Xfv — Felsic metavolcanic rocks
- Xmv — Mafic metavolcanic rocks

(Xmv, Xfv, Xvu, Xms, Xmgn, Xsi, Xggn: age relations uncertain)

- Contact—Dotted where gradational
- Fault—Dotted where concealed
- Fault—Mylonitic and cataclastic rock
- Syncline—Showing troughline and direction of plunge
- Overturned syncline—Showing troughline
- Antiform—Showing crestline and direction of plunge
- Strike and dip of bedding in sedimentary rock or primary layering in volcanic rock
- Strike and dip of overturned beds
- Strike and dip of foliation
- Strike and dip of vertical foliation
- Strike and dip of foliation and bearing and plunge of lineation. M, mineral lineation or biotite streaks; P, elongate clasts; R, rods; C, crenulation; no letter, origin uncertain
- Bearing and plunge of minor fold showing plan view of fold
- Structural trend from air photographs
- Line north of which primary textures and structures preserved in rock units
- Disrupted diabase dikes engulfed by Sherman Granite (Ysd)



INDEX TO GEOLOGIC MAPPING

Base from U.S. Geological Survey,
Buford, provisional edition, 1987;
Granite, 1962, photorevised 1978.
Projection: Buford, Transverse Mercator; Granite, Polyconic.
10,000-foot grid based on Wyoming coordinate system, east zone.
1,000-meter Universal Transverse Mercator grid, zone 13

SCALE 1:24 000

1 ½ 0 1 MILE

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 40 FEET BUFORD, 20 FEET GRANITE
NATIONAL GEODETIC VERTICAL DATUM OF 1929

Geology mapped by R.S. Houston 1984–1991 and Gordon Marlatt 1981–1989, and in part from Harrison (1951) and Elliot Blackweelder (in Darton and others, 1918)

GEOLOGIC MAP OF PRECAMBRIAN ROCKS OF THE GRANITE VILLAGE AREA, ALBANY AND LARAMIE COUNTIES, WYOMING

By
Robert S. Houston and Gordon Marlatt

1997

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