

CORRELATION OF MAP UNITS

- Ool } HOLOCENE } QUATERNARY
- Tw } EOCENE } TERTIARY
- Tfu } PALEOCENE }

DESCRIPTION OF MAP UNITS

- Ool ALLUVIUM (HOLOCENE)--Interbedded sand, silt, clay; clasts primarily derived from erosion of local formations
- Tw WASATCH FORMATION (EOCENE)--Generally drab brown and gray, soft interbedded sandstone, siltstone, shale, carbonaceous shale and thin coal beds; lower 880 feet (268 m) exposed in the quadrangle. Between the Felix and Wyodak coal beds, consists of upper unit of poorly indurated, cross-bedded, coarse- to medium-grained, conglomeratic sandstone approximately 100 feet (30 m) thick; middle unit is predominantly shale and carbonaceous shale and contains C' and C'' coal beds; middle unit is approximately 100-120 feet (30-37 m) thick. A lower unit consists of massive, poorly indurated, cross-bedded medium- to fine-grained sandstone which grades downward to interbedded fine-grained sandstone, shale, and thin coal beds approximately 100-150 feet (30-46 m) thick
- Tfu FORT UNION FORMATION, UNDIFFERENTIATED (PALEOCENE)--Generally light brown and gray, soft interbedded channel sandstone, silty shale, carbonaceous shale and thick coal beds; large ferruginous concretions common; overall light-gray color contrasts markedly with drab brown and gray of overlying Wasatch Formation. Wyodak 1 coal bed, and locally the Wyodak 2 coal bed, correspond to Roland coal of Dobbin and Barnett (1927). Upper 60 feet (18 m) of Fort Union Formation is exposed in quadrangle

EXPLANATION OF LINE SYMBOLS

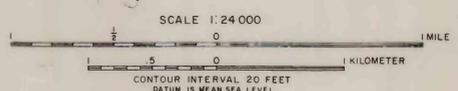
- CONTACT--Long dashed where approximately located, short dashed where indefinite or inferred, dotted where concealed
- 4600--- STRUCTURE CONTOURS--Drawn on base of Felix coal bed or clinker. Short dashed where above land surface. Meanders indicate depression contours. Contour interval 40 feet (12 m). Datum is mean sea level
- STRIKE AND DIP OF BEDS
- DIP COMPONENT
- COAL BED--Long dashed where approximately located, short dashed where inferred. Letter denotes specific coal bed. Circled index number refers to coal section shown on sheet 2. Coal measured at triangle
- BAKED AND FUSED ROCK--Base and areal extent of burned coal. Long dashed where approximately located, short dashed where inferred; attached v's indicate base of baked and fused rock; dotted line encloses inferred extent of burning. Letter identifies burned coal bed
- ✕ OPEN PIT COAL MINE, ABANDONED
- DRILL HOLES--Used in subsurface interpretation. Index number refers to subsurface coal sections, sheet 3
- Abandoned oil and gas test
- Salt water disposal well
- USGS-MBNC--Coal test hole by U.S. Geological Survey and Montana Bureau of Mines and Geology

REFERENCE CITED

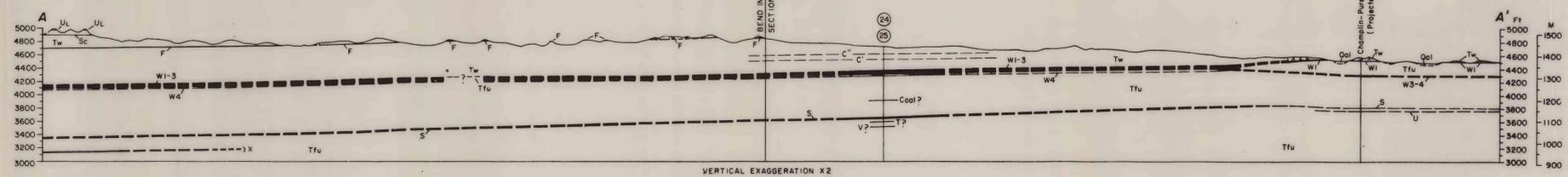
Dobbin, C. E., and Barnett, V. R., 1927, The Gillette coal field, northeastern Wyoming; U.S. Geol. Survey Bull. 796-A, 64 p.

This map is preliminary and has not been edited or reviewed for conformity with U.S. Geological Survey standards or nomenclature

Base from U.S. Geological Survey unedited advance print



Geology mapped in 1972-73



PRELIMINARY GEOLOGIC MAP AND COAL RESOURCES OF THE GAP QUADRANGLE, CAMPBELL COUNTY, WYOMING

By
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