UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 1147-D
PLATE 1 (SOUTH HALF)

# GEOLOGIC MAP OF THE SOUTHERN PART OF THE POWDER RIVER BASIN, WYOMING (SOUTH HALF)

## EXPLANATION

**QUATERNARY**

- Qe — Eolian sand

**TERTIARY**

*Brevet*

- Tw — White River formation. *Clayey white conglomerate, siltstone, and gray to pink claystone*

*Oligocene*

*Eocene*

- Tw — Wasatch Formation. *Claystone and siltstone sequence containing sandstone as broad lenses and narrow channel fillings. Carbonaceous shale and coal seams locally abundant. Sandstones indicated by patterns, color of sandstone by letter symbols.*
  - *r, reddish to pinkish medium-grained to conglomeratic sandstone.*
  - *d, yellowish-gray to tan (drab) coarse- to medium-grained sandstone.*
  - *w, white to gray-white medium- to very coarse-grained sandstone*

*Paleocene*

- Tfu — Fort Union Formation
- Tfu, *upper member: thin-bedded, fine-grained clastic rocks that weather conspicuously white and consist of clayey siltstone, fine sandstone, carbonaceous shale, and coal.*
- Tfl, *lower member: drab claystone and siltstone interbedded with fine- to medium-grained drab to pink sandstone, coal and carbonaceous shale less abundant*

*Upper Cretaceous*

**CRETACEOUS**

- Kl — Lance Formation. *Brown to gray sandstone and shale*

(3) Low-rank (lignite to subbituminous) coal and carbonaceous shale beds of Fort Union and Wasatch Formations. *Dashed where approximately located. Correlation of selected coal beds shown by numbers (1), (2), (3), and (4)*

Contact. *Dashed where approximately located; short dashed where inferred from photointerpretation and reconnaissance mapping. Where contact between Wasatch Formation and Fort Union Formation is placed on coal bed, the tickled line is offset stratigraphically for clarity*

Probable fault, showing dip

Trend of sedimentary structures

Strike and dip of beds

Strike and dip of beds *Determined by photointerpretation*

(15) Uranium occurrence in sandstone units of Wasatch Formation *Number is referred to in text*

556-129 Mine. *c, coal; u, uranium. Number is referred to in text*

Mine pit

FOWLER CC-5 Core hole. *Showing U.S. Geological Survey name and U.S. Atomic Energy Commission number*

Oil or gas well

556-106-1 Sample locality. *Number is referred to in text*

555-39w Spring, showing number of water sample

555-14w Artesian well or windmill, showing number of water sample

Erosional escarpment

Dry-lake bed

Base compiled by Branch of Special Maps, Topographic Division, U.S. Geological Survey
U.S. Geological Survey quadrangles
U.S. Army Map Service stereomanuscripts

SCALE 1:62500
CONTOUR INTERVAL 200 FEET
DATUM IS MEAN SEA LEVEL

Geology and land net by W. N. Sharp, A. B. Gibbons, and A. M. White, 1955–56

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