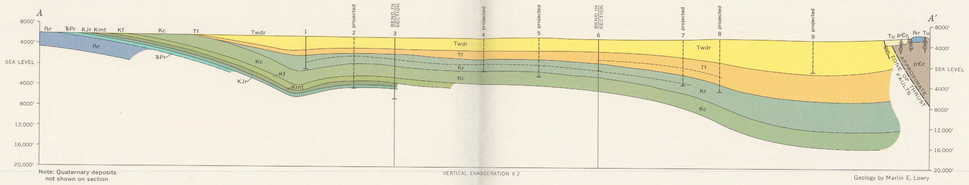
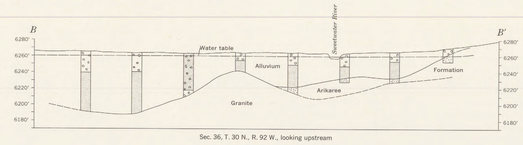
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
WYOMING STATE ENGINEER

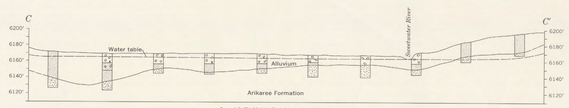
HYDROLOGIC INVESTIGATIONS
ATLAS HA-270 (SHEET 1 OF 3)



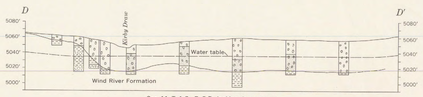
1. J. A. Terteling and Sons Gov't. No. 1, sec. 8, T. 33 N., R. 96 W.
2. Pan American Petroleum Corp. sec. 21, T. 34 N., R. 96 W.
3. Atlantic Refining Tribal No. 6, sec. 30, T. 1 S., R. 5 E.
4. Stanolind Oil & Gas Company sec. 1, T. 1 S., R. 5 E.
5. Farmers Union Central Exchange No. 1 Shoshone-Arapahoe sec. 28, T. 1 N., R. 6 E.
6. Superior Oil Co. sec. 27, T. 36 N., R. 94 W.
7. Humble Oil and Refining Co. sec. 32, T. 37 N., R. 93 W.
8. Humble Oil and Refining Co. sec. 17, T. 37 N., R. 93 W.
9. The California Company sec. 10, T. 38 N., R. 93 W.



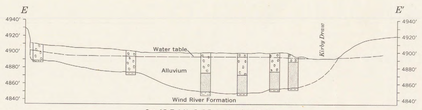
Sec. 36, T. 30 N., R. 92 W., looking upstream



Sec. 16, T. 29 N., R. 90 W., looking upstream



Sec. 11, T. 1 S., R. 5 E., looking downstream



Sec. 15, T. 1 N., R. 5 E., looking downstream

250 0 250 500 FEET
DATUM IS MEAN SEA LEVEL.
VERTICAL EXAGGERATION APPROXIMATELY X 4

EXPLANATION

- Clay, silt, and fine sand
- Coarse sand and gravel
- Sandstone
- Shale

EXPLANATION

QUATERNARY
- Qal — Alluvial deposits
- Qs — Windblown sand
- Qu — Landslide debris, glacial, and travertine deposits

TERTIARY
- Miocene and Pliocene — Tma — Moonstone and Arikaree Formations
- Oligocene — Tww — White River and Wiggins Formations
- Eocene, Middle or upper Eocene — Ttwa — Teppe Trail, Wagon Bed, and Aycross Formations
- Eocene, Lower Eocene — Twdr — Wind River and Indian Meadows Formations
- Paleocene — Tf — Fort Union Formation
- Tu — Tertiary rocks undivided. *Includes: Andesite tuff sequence and equivalent rocks mapped by Tourtelot (1953, and the Eocene Battle Spring and Miocene to Pliocene South Pass Formations of the Great Divide Basin*
- Ti — Tertiary intrusive rocks

CRETACEOUS
- Upper Cretaceous — Kr — Cretaceous rocks. *Includes: Lance, Meeteetse, Lewis, and Mesaverde Formations*
- Upper Cretaceous — Kc — Cody Shale
- Upper Cretaceous — Kf — Frontier Formation
- Lower Cretaceous — Kmt — Mowry and Thermopolis Shales
- Kmt/Kfr — Cretaceous and Jurassic rocks. *Includes: Cloverly, Morrison, Sundance, and Gypsum Spring Formations, and the Nugget Sandstone*

- TrPr — Triassic and Permian rocks. *Includes: Chugwater, Dinwoody, Goose Egg, and Park City Formations*
- Pr — Paleozoic rocks. *Includes: Tensleep Sandstone, Amsden Formation, Casper Formation, Madison Limestone, Darby Formation, Bighorn Dolomite, Gallatin Limestone, Gros Ventre Formation, and Flathead Sandstone*
- pCr — Precambrian rocks

Contact
Fault — *Dashed where approximately located; dotted where concealed*
Approximate location of syncline developed in Upper Cretaceous rocks
5 Well — *Used in construction of section A-A'*

Base from U.S. Geological Survey 1:250,000: Arminto, 1962; Thermopolis, 1962; Lander, 1961; and Casper, 1961

Geology adapted from unpublished preliminary map of the Wind River Basin, by William R. Keefer, Toni D. Dunrud, and R. L. Kough, 1966, and the geologic map of Wyoming, by J. D. Love, J. L. Weitz, and R. K. Hose, 1955

GEOLOGIC MAP AND SECTIONS

SCALE 1:250 000

5 0 5 10 15 20 25 MILES
5 0 5 10 15 20 25 KILOMETERS

1967 MAGNETIC DECLINATION FOR THIS MAP VARIES FROM 16°30' EASTERLY AT THE WEST EDGE TO 14°30' EASTERLY TO THE SOUTH EAST EDGE. MEAN ANNUAL CHANGE IS 0°03' WESTERLY

GROUND-WATER RESOURCES AND GEOLOGY OF THE WIND RIVER BASIN AREA, CENTRAL WYOMING

By
Harold A. Whitcomb and Marlin E. Lowry

1968

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Wyoming (Wind River basin). Geology. 1968. M(200) HA no. 270 SHEET-1 cop. 2.

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