

GEOLOGICAL SURVEY OF WYOMING

BIBLIOGRAPHY AND INDEX TO THE GEOLOGY OF THE
WIND RIVER BASIN AND ADJACENT UPLIFTS IN THE
VICINITY OF FREMONT COUNTY, WYOMING

compiled by

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This report has not been reviewed for conformity with the editorial standards of the Geological Survey of Wyoming.

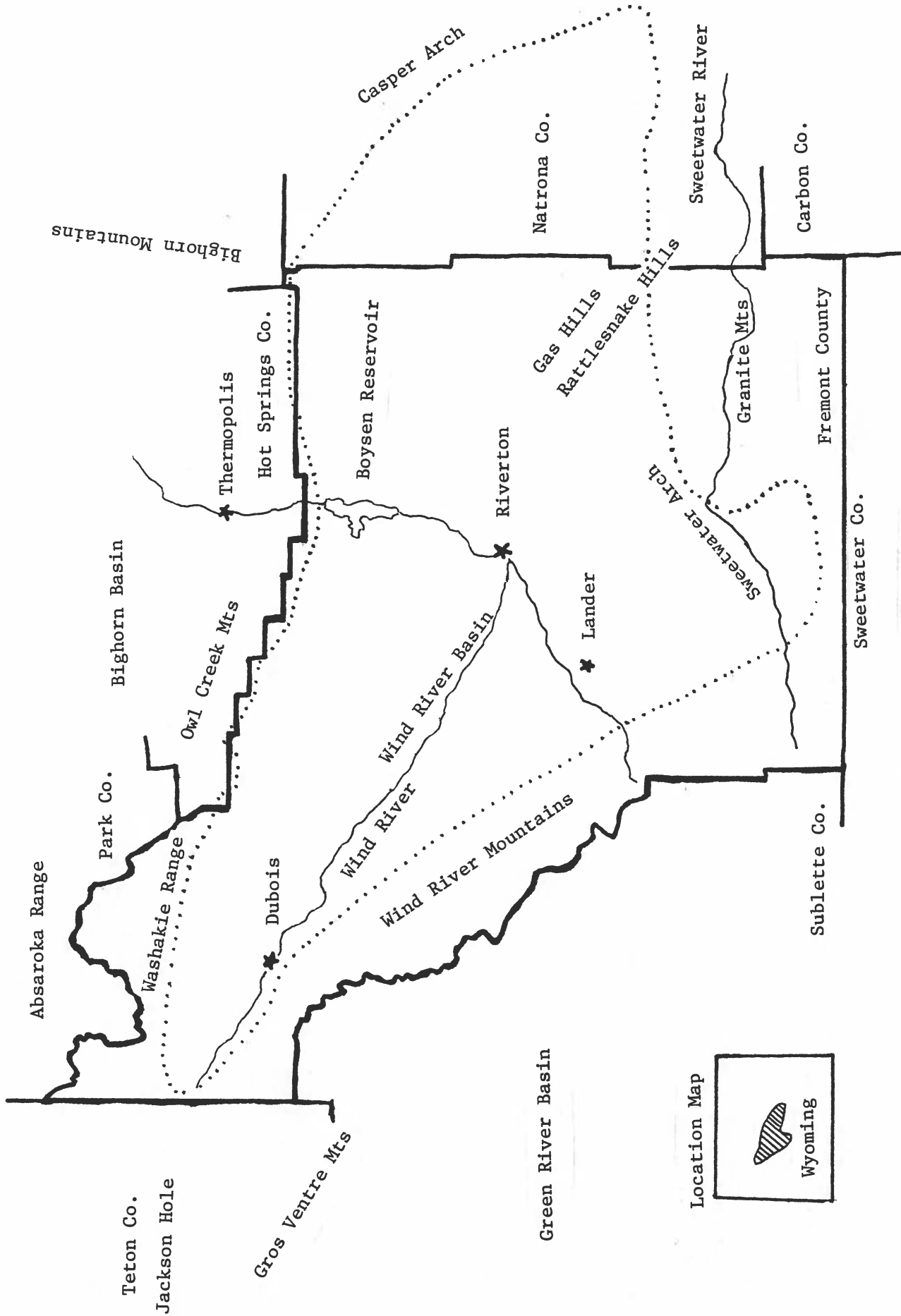
INTRODUCTION

This bibliography is a compilation of information relating to the geology and natural resources of the Wind River Basin area and adjacent uplifts in central Wyoming. The bibliography covers all aspects of the geology and economic natural resources of the region. The Wind River Basin is an east-west-trending intermontane asymmetric synclinalorium located in central Wyoming (Figure 1). It is surrounded by uplifts including the Absaroka Mountains, Washakie and Owl Creek Mountains, the southern end of the Bighorn Mountains, Granite Mountains, Sweetwater uplift, Wind River Range, and Gros Ventre - Teton - Jackson Hole area. The Wind River Basin is both a topographic and structural basin. The region is a rugged, sparsely vegetated area with a semiarid climate. The region is sparsely populated; the population is generally restricted to several major towns. The surrounding uplifts include some of the highest elevations in Wyoming.

The basin contains a sedimentary rock sequence nearly 28,000 feet (8,500 meters) in maximum thickness. This stratigraphic section includes rock formations representing every period from Cambrian to Recent with the exception of the Silurian. Precambrian rocks are exposed in the cores of several of the adjacent uplifts. Paleozoic and Mesozoic rock sequences are exposed on the flanks of the uplifts and at various structural features exposed in the basin. Early Tertiary (Laramide) tectonism is recorded by a thick sequence of basin-fill sediments. Middle Tertiary volcanism is recorded by the thick sequence of Absaroka volcanics north of the basin. Late Tertiary is characterized by a long period of erosion with minor sediment deposition in the basin. The area has a variety of structural features; most notable are the large thrust faults along the flanks of some of the uplifts.

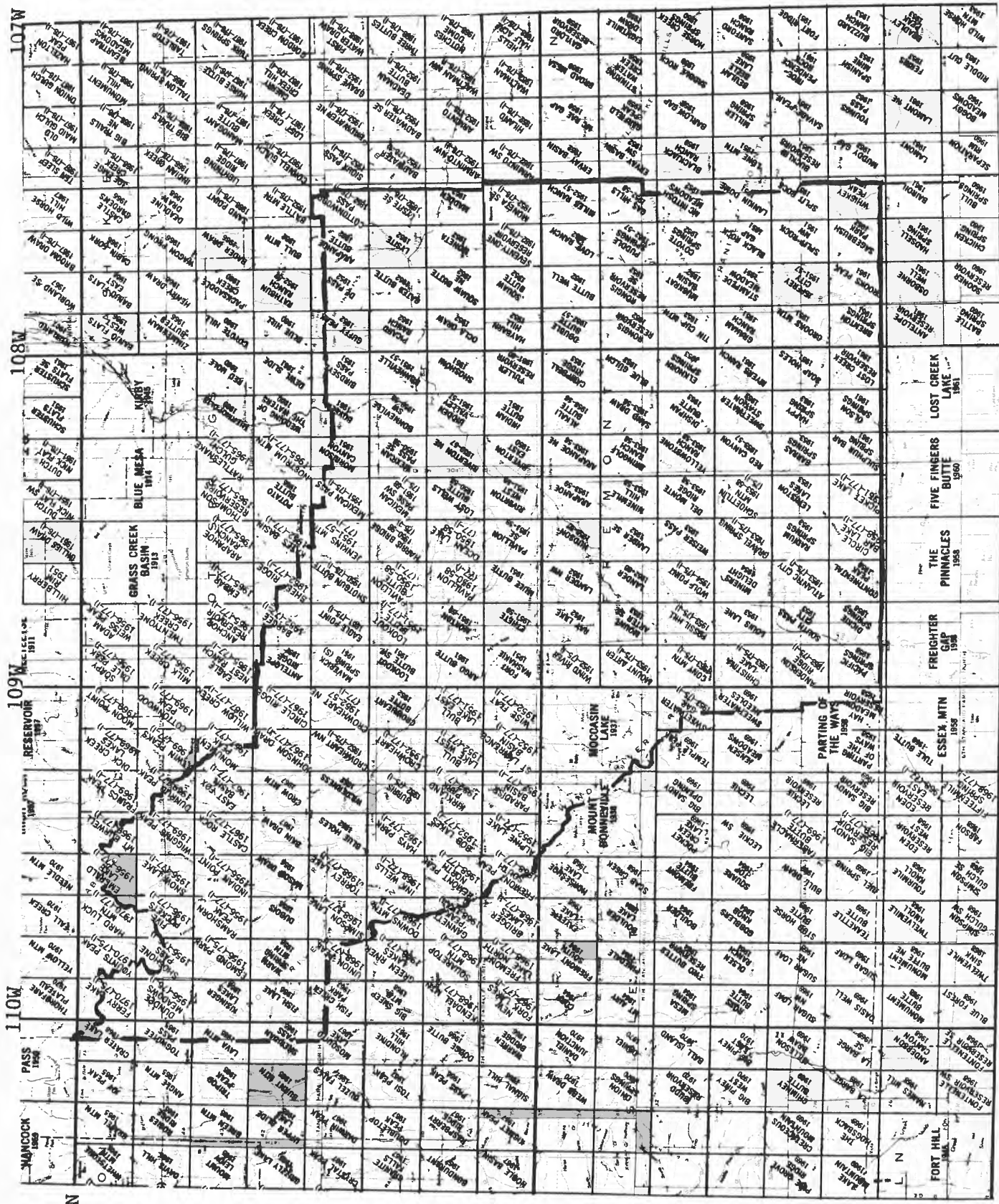
The region is also noted for its natural resources. Oil and gas, coal, uranium, phosphates, gold, and other mineral resources have been economically produced from the basin.

The index of this bibliography is subdivided under main headings listed as follows: Area Geology; Economic Geology; Engineering Geology and Hydrology; Stratigraphy; and Structural Geology. The locations under Area Geology each are associated with a location discussed in the literature. Latitude and longitude coordinates are provided with each locality to aid in finding locations. Four USGS Topographic Maps (scale 1:250,000): Arminto, Casper, Lander, and Thermopolis Quadrangles, encompass the Wind River Basin area. Geophysical surveys are included in the Structural Geology portion of the Index. Included in the Oil and Gas subdivision of the Economic Geology portion of the Index is a list of references of articles that record the developments of the petroleum industry by year. Recommendations for the addition or exclusion of citations to this bibliography will be accepted. Standard reference sources are used in the compilation of this bibliography including GEOREF, the database of the American Geological Institute.



Great Divide Basin

Figure 1. Location Map of the Wind River Basin, Wyoming.



110W

109W

108W

107W

44N

43N

42N

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