

THE GEOLOGICAL SURVEY OF WYOMING

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PRELIMINARY MAP OF KNOWN SURFICIAL STRUCTURAL
FEATURES FOR THE THERMOPOLIS 1° x 2° QUADRANGLE

compiled by

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

This listing of sources of information and index map were prepared to accompany the preliminary map of known surficial structural features for the Thermopolis 1° x 2° Quadrangle.

Sources of geologic data

General

(These references are the sources of geologic data where more detailed, specific maps were not available).

Case, J.C., 1986, Earthquakes and related geologic hazards in Wyoming: Geological Survey of Wyoming Public Information Circular 26, 22 p., sheet 1, scale 1:1,000,000.

Love, J.D., and Christiansen, A.C., 1985, Geologic map of Wyoming: U.S. Geological Survey, scale 1:500,000.

Love, J.D. Christiansen, A.C., and Earle, J.L., compilers, 1978, Preliminary geologic map of the Sheridan 1° x 2° Quadrangle, northern Wyoming: U.S. Geological Survey Open File Report 78-456, scale 1:250,000.

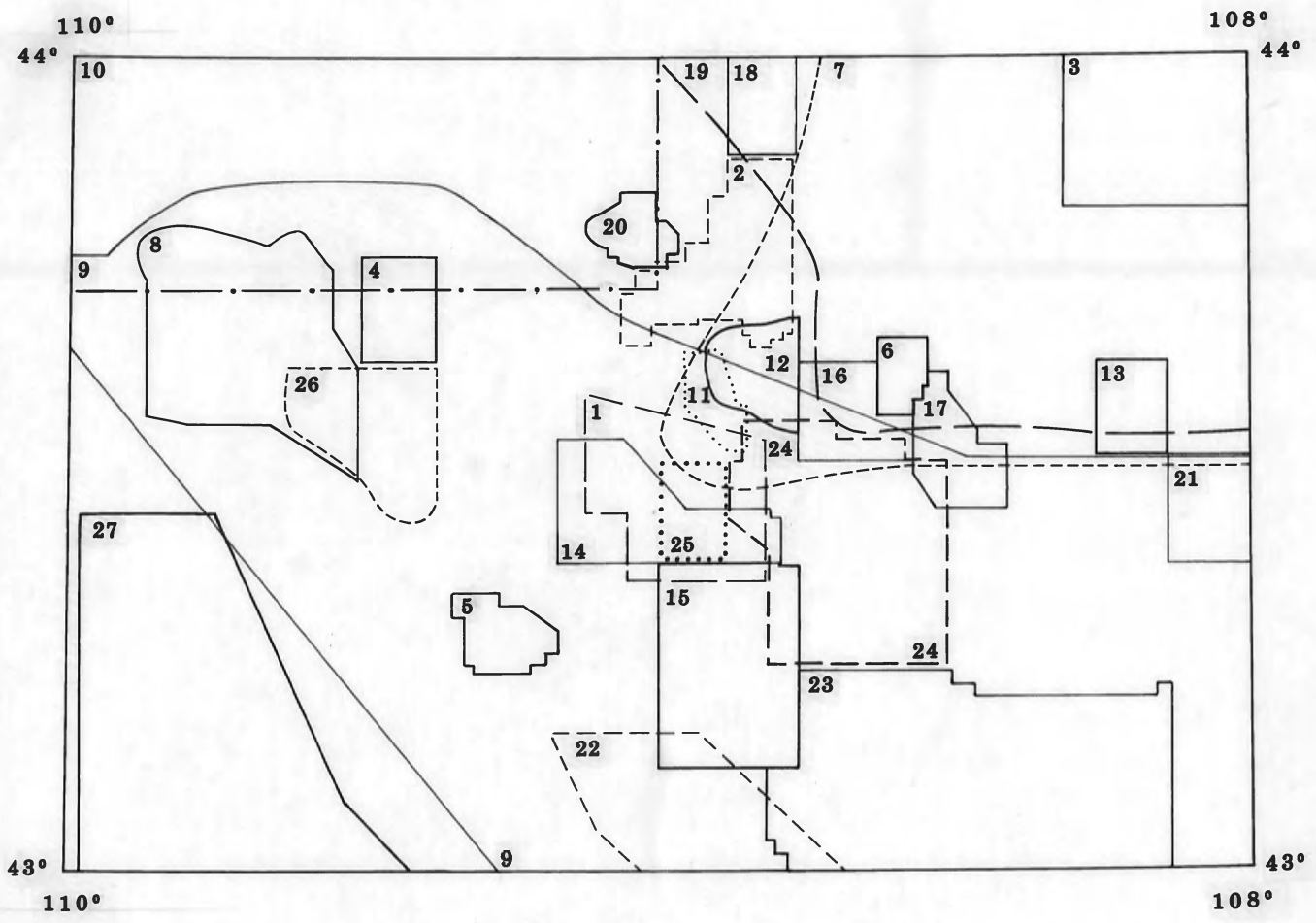
Specific

1. **Andrews, D.A., 1944,** Geologic and structure contour map of the Maverick Springs area, Fremont County, Wyoming: U.S. Geological Survey Oil and Gas Investigations Map OM-13, scale 1:48,000.
2. **Bown, T.M., 1982,** Geology, paleontology, and correlation of Eocene volcanoclastic rocks, southeast Absaroka Range, Hot Springs County, Wyoming: U.S. Geological Survey Professional Paper 1201-A, 75 p.; plate 1, scale 1:50,000.
3. **Bown, T.M., 1979,** Geology and mammalian paleontology of the Sand Creek facies, lower Willwood Formation (lower Eocene), Washakie County, Wyoming: Geological Survey of Wyoming Memoir 2, 151 p.; scale approximately 1:160,000.
4. **Conard, J.B., 1981,** Geology of the Castle Rock 7 1/2-minute Quadrangle, Fremont County, Wyoming: M.S. thesis, University of Wyoming, Laramie, Wyoming, plate 1, scale 1:24,000.
5. **Ellerby, R.S., 1962,** Geology of the Dry Creek-Willow Creek area, Fremont County, Wyoming: M.A. thesis, University of Wyoming, Laramie, Wyoming, plate 6, scale 1:24,000.
6. **Flanagan, P.E., 1955,** Geology of the Mud Creek area, Hot Springs County, Wyoming: M.A. thesis, University of Wyoming, Laramie, Wyoming, plate 1, scale 1:20,000.
7. **Gubbels, T.L., 1986,** University of Wyoming Department of Geology and Geophysics, thesis mapping in progress, scale 1:250,000.

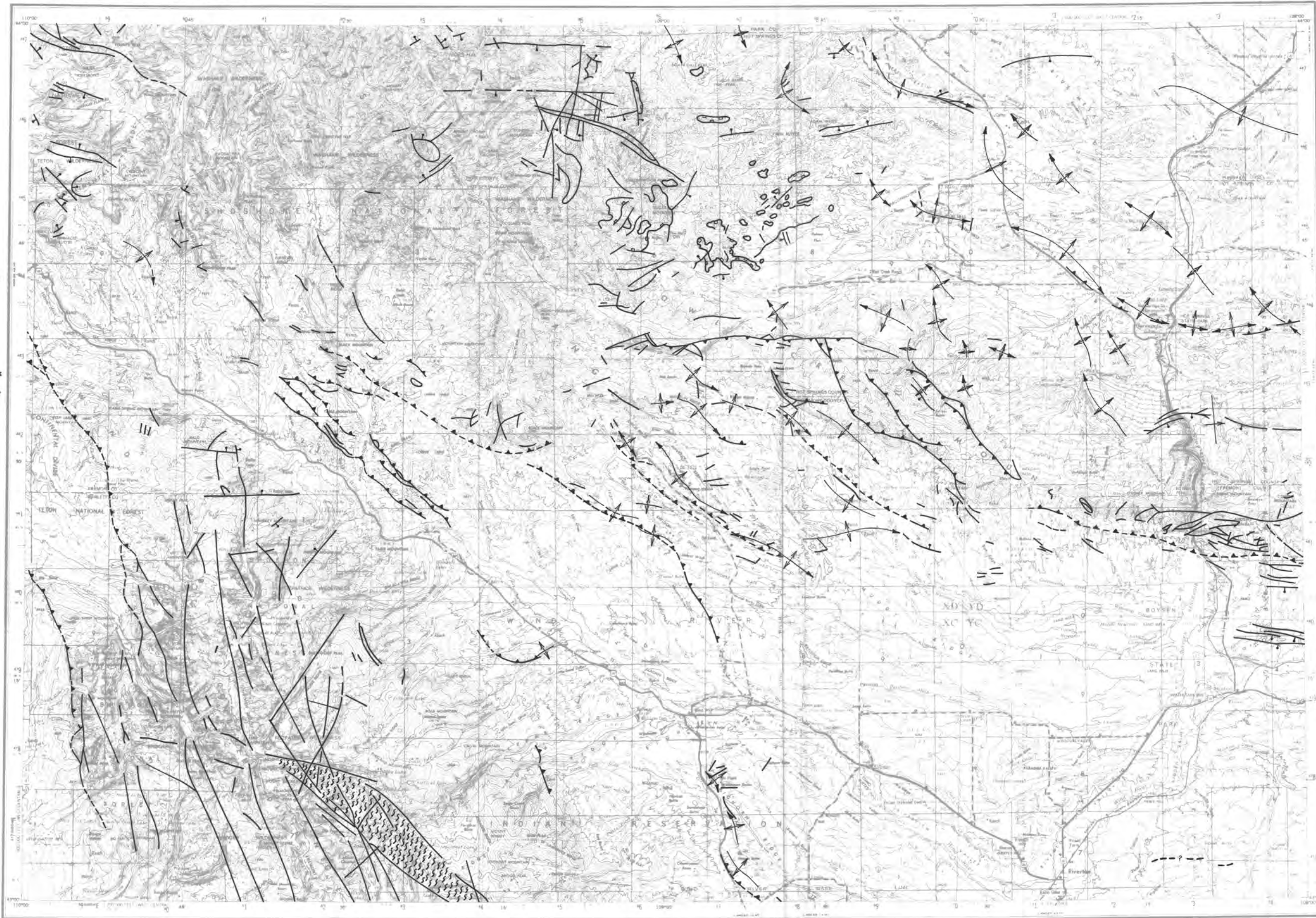
8. **Keefer, W.R.**, 1955, Geologic map of the DuNoir area: U.S. Geological Survey Oil and Gas Investigations Map OM-166, scale 1:48,000.
9. **Keefer, W.R.**, 1970, Structural geology of the Wind River Basin, Wyoming: U.S. Geological Survey Professional Paper 495-D, 35 p., plate 1, scale 1:250,000.
10. **Ketner, K.B.**, Keefer, W.R., Fisher, F.S., Smith, D.L., and Raabe, R.G., 1966, Mineral resources of the Stratified Primitive Area, Wyoming: U.S. Geological Survey Bulletin 1230-E, 56 p., plate 1, scale 1:125,000.
11. **Kisling, D.C.**, 1962, Geology of the Antelope Ridge area, Fremont and Hot Springs Counties, Wyoming: M.S. thesis, University of Wyoming, Laramie, Wyoming, plate 1, scale 1:24,000.
12. **Long, J.S., Jr.**, 1959, Geology of the Phlox Mountain area Hot Springs and Fremont Counties, Wyoming: M.A. thesis, University of Wyoming, Laramie, Wyoming, plate 8, scale 1:24,000.
13. **Maughan, E.K.**, 1972, Geologic map of the Wedding of the Waters Quadrangle, Hot Springs County, Wyoming: U.S. Geological Survey Geologic Quadrangle Map GQ-1042, scale 1:24,000.
14. **Murphy, J.F.**, Privrasky, N.C., and Moerlein, G.A., 1956, Geology of the Sheldon-Little Dome area, Fremont County, Wyoming: U.S. Geological Survey Oil and Gas Investigations Map OM-181, scale 1:48,000.
15. **Murphy, J.F.**, and Roberts, R.W., 1954, Geology of the Steamboat Butte-Pilot Butte area, Fremont County, Wyoming: U.S. Geological Survey Oil and Gas Investigations Map OM-151, scale 1:48,000.
16. **Phillips, D.P.**, 1958, Geology of the Sheep Ridge area, Hot Springs and Fremont Counties, Wyoming: M.A. thesis, University of Wyoming, Laramie, Wyoming, plate VI, scale 1:24,000.
17. **Powell, J.D.**, 1957, Geology of the Blackrock Ridge area, Hot Springs and Fremont Counties, Wyoming: M.A. thesis, University of Wyoming, Laramie, Wyoming, plate II, scale 1:24,000.
18. **Rohrer, W.L.**, 1965, Adam Weiss Peak Quadrangle, Hot Springs and Park Counties, Wyoming: U.S. Geological Survey Geologic Quadrangle Map GQ-382, scale 1:24,000.
19. **Spencer, S.A.**, 1986, Groundwater movement in the Paleozoic rocks and impact of petroleum production on water levels in the southwestern Bighorn Basin, Wyoming: M.S. thesis, University of Wyoming, Laramie, Wyoming, plate 1, scale 1:250,000.
20. **Sundell, K.A.**, 1982, Geology of the headwater area of the North Fork of Owl Creek, Hot Springs County, Wyoming: Geological Survey of Wyoming Report of Investigations 15, 51 p., plates 1-4, scale 1:24,000.
21. **Thaden, R.E.**, 1980, Geologic map of the Birdseye Pass Quadrangle, showing chromolithofacies and coal beds in the Wind River Formation, Fremont and

Hot Springs Counties, Wyoming: U.S. Geological Survey Geologic Quadrangle Map GQ-1537, scale 1:24,000.

22. **Thompson, R.M., Troyer, M.L., White, V.L., and Pipiringos, G.N., 1950, Geology of the Lander area, central Wyoming: U.S. Geological Survey Oil and Gas Investigations Map OM-112, scale 1:48,000.**
23. **Thompson, R.M., and White, V.L., 1954, Geology of the Riverton area: U.S. Geological Survey Oil and Gas Investigations Map OM-127, scale 1:48,000.**
24. **Troyer, M.L., and Keefer, W.R., 1955, Geology of the Shotgun Butte area, Fremont County, Wyoming: U.S. Geological Survey Oil and Gas Investigations Map OM-172, scale 1:48,000.**
25. **Warlow, R.C., 1985, Geologic map and coal resources of the Maverick Spring Quadrangle, Fremont County, Wyoming: U.S. Geological Survey Coal Investigations Map C-91, scale 1:24,000.**
26. **Winterfeld, G.F., 1986, Laramide tectonism, deposition, and early Cenozoic stratigraphy of the northwestern Wind River Range, Wyoming: Ph.D. dissertation, University of Wyoming, Laramie, Wyoming, plates II, III, and IV, scale 1:24,000.**
27. **Worl, R.G., Koesterer, M.E., and Hulsebosch, T.P., 1986, Geologic map of the Bridger Wilderness and the Green-Sweetwater roadless area, Sublette and Fremont Counties, Wyoming: U.S. Geological Survey Miscellaneous Field Studies Map 1636-B, scale 1:250,000.**



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THIS MAP WAS COMPILED FROM THE MOST RECENT AVAILABLE INFORMATION AND IS ONLY AS RELIABLE AND COMPLETE AS THE SOURCES CONSULTED. SOME SMALLER FEATURES WERE OMITTED SINCE THEY COULD NOT BE PLOTTED AT THIS SCALE. SOURCES CONSULTED ARE LISTED IN ACCOMPANYING REFERENCE LIST.



BASE MAP FROM THE U.S. GEOLOGICAL SURVEY, 1980. THIS MAP HAS NOT BEEN REVIEWED FOR CONFORMITY WITH THE EDITORIAL STANDARDS OF THE GEOLOGICAL SURVEY OF WYOMING.

PRELIMINARY MAP OF KNOWN SURFICIAL STRUCTURAL FEATURES FOR THE THERMOPOLIS 1° x 2° QUADRANGLE

COMPILED BY PHILLIP L. GREER, JON K. KING, AND ALAN J. VER PLOEG