

Table 1.--Heavy-mineral analyses of 65 samples from the lower Eocene Wasatch Formation (southern Powder River Basin, Converse County, Wyoming.

Table with columns: Sample No., Location (Sec., T.N., R.W.), Percent of heavy minerals in very fine-grained sand, and 17 heavy mineral columns (Augite, Hypersthene, Oxy, Brown, Blue-green, Garnet, Epidote, Zircon, Sphene, Zoisite, Tourmaline, Rutile, Kyanite, Andalusite, Staurolite, Anataze, Apatite, Chloritoid, Chlorite, Biotite, Spinel).

Table 2.--Heavy-mineral analyses of 57 samples from the Lebo Member of the Fort Union Formation (Paleocene) southern Powder River Basin, Converse County, Wyoming.

Table with columns: Sample No., Location (Sec., T.N., R.W.), Percent of heavy minerals in very fine-grained sand, and 17 heavy mineral columns (Augite, Hypersthene, Oxy, Brown, Blue-green, Garnet, Epidote, Zircon, Sphene, Zoisite, Tourmaline, Rutile, Kyanite, Andalusite, Staurolite, Anataze, Apatite, Chloritoid, Chlorite, Biotite, Spinel).

Mineral identifications by W. A. Chisholm

Table 3.--Heavy-mineral analyses of 17 samples from the Tullock Member of the Fort Union Formation (Paleocene) southern Powder River Basin, Converse and Niobrara Counties, Wyoming.

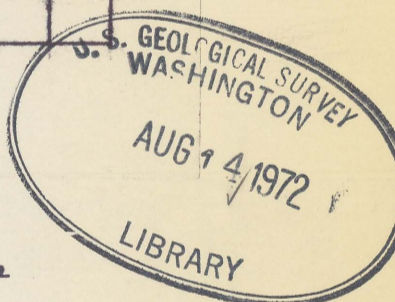
Table with columns: Sample No., Location (Sec., T.N., R.W.), Percent of heavy minerals in very fine-grained sand, and 17 heavy mineral columns (Augite, Hypersthene, Oxy, Brown, Blue-green, Garnet, Epidote, Zircon, Sphene, Zoisite, Tourmaline, Rutile, Kyanite, Andalusite, Staurolite, Anataze, Apatite, Chloritoid, Chlorite, Biotite, Spinel).

Table 4.--Heavy-mineral analyses of 6 samples from the late Cretaceous Lance Formation, Southern Powder River Basin, Converse, Niobrara and Natrona Counties, Wyoming.

Table with columns: Sample No., Location (Sec., T.N., R.W.), Percent of heavy minerals in very fine-grained sand, and 17 heavy mineral columns (Augite, Hypersthene, Oxy, Brown, Blue-green, Garnet, Epidote, Zircon, Sphene, Zoisite, Tourmaline, Rutile, Kyanite, Andalusite, Staurolite, Anataze, Apatite, Chloritoid, Chlorite, Biotite, Spinel).

Table 5.--Average percentages of nonopaque heavy minerals in samples from rocks of latest Cretaceous, Paleocene, and early Eocene age in the southern part of the Powder River Basin, Converse, Niobrara, and Natrona Counties, Wyoming.

Table with columns: Age, Formation, Number of samples analyzed, Percent of heavy minerals in very fine-grained sand, and 17 heavy mineral columns (Augite, Hypersthene, Oxy, Brown, Blue-green, Garnet, Epidote, Zircon, Sphene, Zoisite, Tourmaline, Rutile, Kyanite, Andalusite, Staurolite, Anataze, Apatite, Chloritoid, Chlorite, Biotite, Spinel).



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

HEAVY-MINERAL ANALYSIS OF TERTIARY AND UPPER CRETACEOUS ROCKS

Wyoming (Powder River basin)
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Note: Heavy mineral analyses of samples from the White River, Arikaree, and Ogallala Formations along the southern margin of the Powder River Basin are summarized in Prof. Paper 750-C by Denson and Chisholm (1971, Table 1) and are not included here.

Geol. 1:126,720. 1972.
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