

# THE GEOLOGICAL SURVEY OF WYOMING

D. L. BLACKSTONE, Jr., State Geologist

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BULLETIN 53

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## BIBLIOGRAPHY OF WYOMING GEOLOGY

1917 - 1945

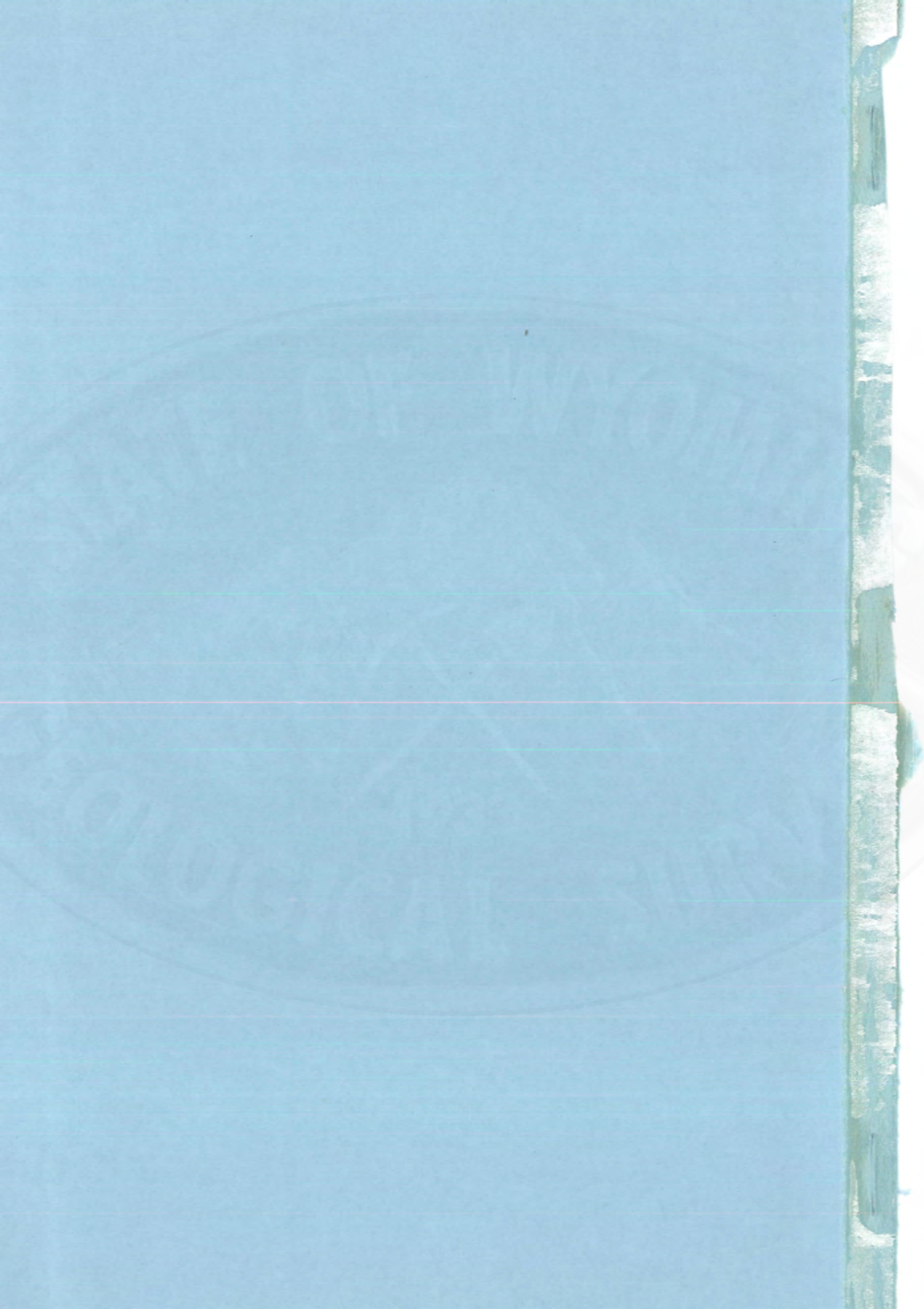
by

Max L. Troyer



UNIVERSITY OF WYOMING  
Laramie, Wyoming

JUNE, 1969



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## INTRODUCTION

The bibliography of Wyoming geology for the years 1917 to 1945 inclusive was prepared from the published bibliographies of the United States Geological Survey and from periodicals and publications available at the University of Wyoming. Numerous textbooks and reference books containing some information concerning Wyoming Geology have been omitted.

The bibliographic style used is that of the United States Geological Survey. The authors are arranged alphabetically and the papers, with full title and medium of publication are listed chronologically under the author's name. An index by locality or subject or both is included.

The bibliography was compiled under the supervision of Dr. H. D. Thomas, Wyoming State Geologist, who was also very helpful in preparing the material for publication. The compiler is also indebted to Dr. S. H. Knight and the staff of the Geology department of the University of Wyoming, and to Dr. J. D. Love and staff of the Fuels Section of the United States Geological Survey at the University of Wyoming for their assistance.

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American Geographical Society of New York: Bulletins  
American Geophysical Union: Transactions  
American Institute of Mining and Metallurgical Engineers:  
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American Journal of Botany  
American Journal of Science  
American Midland Naturalist  
American Mineralogist  
American Museum of Natural History: Novitates  
American Philosophical Society: Proceedings  
Association of American Geographers: Annals  
Association of Pacific Coast Geographers: Yearbooks  
Botanical Gazette  
Carnegie Institution of Washington: News Service Bulletin  
    School edition, Publications  
Carnegie Museum: Annals  
Chicago University: Abstracts of Theses  
Colorado University: Bulletins, Studies  
Colorado-Wyoming Academy of Science Journal  
Compass  
Economic Geology  
Geological Society of America: Bulletins, Proceedings  
Geologische Charakterbilder  
Geologische Rundschau  
International Geological Congress, 16th: Guidebooks  
Iowa Academy of Sciences: Proceedings  
Journal of Geology  
Journal of Geomorphology  
Journal of Mammalogy  
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Michigan University Museum of Geology: Contributions  
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United States National Museum: Proceedings  
Utah Academy of Sciences, Arts, and Letters: Proceedings  
Washington Academy of Sciences: Journal  
Wyoming Geological Survey: Biennial Reports, Bulletins, Re-  
ports of Investigation  
Wyoming University Publications: Agricultural Experiment  
Station Bulletin.

## ABBREVIATIONS

|  |                                     |
|--|-------------------------------------|
| A.I.M.E. .... American Institute of<br>Mining and Metallurgical<br>Engineers | g. .... geologic                    |
| Acad. .... Academy   | G. S. .... Geological Survey        |
| Adm. .... Administration   | G. Soc. .... Geological Society     |
| Adv. .... Advancement  | Geod. .... Geodetic                 |
| Am. .... American  | Geog. .... Geographic, etc.         |
| Ann. .... Annual   | Geol. .... Geologic, etc.           |
| App. .... Appendix   | Geophys. .... Geophysical, etc.     |
| art. .... article  | Govt. .... Government               |
| Assoc. .... Association  | Grad. .... Graduate                 |
| Bibl. .... Bibliographic, etc.   | hist. .... historic, etc.           |
| Bienn. .... Biennial   | Hydrog. .... Hydrographic, etc.     |
| Bldg. .... Building  | Hydrol. .... Hydrologic, etc.       |
| Br. .... Branch  | ig. .... igneous                    |
| Bull. .... Bulletin  | Illus. .... Illustration, etc.      |
| Bur. .... Bureau   | Inc. .... Incorporated              |
| Camb. .... Cambrian  | incl. .... including, etc.          |
| Carb. .... Carboniferous   | Indust. .... Industrial, etc.       |
| Cat. .... Catalog  | Inf. .... Information               |
| cent. .... central   | Internat. .... International        |
| Chap. .... Chapter   | Inv. .... Investigations, etc.      |
| Circ. .... Circular  | Jour. .... Journal                  |
| Co. .... County, Company   | Juras. .... Jurassic                |
| Coll. .... Collections   | Lab. .... Laboratory                |
| Comm. .... Committee   | Lit. .... Literature                |
| Commun. .... Communications  | lms. .... limestone                 |
| Conf. .... Conference  | loc. .... locality                  |
| Cong. .... Congress  | Mag. .... Magazine                  |
| Conserv. .... Conservation   | mbr. .... member                    |
| Contr. .... Contributions  | Mech. .... Mechanical               |
| Coun. .... Council   | Mem. .... Memoir, etc.              |
| Cret. .... Cretaceous  | Memo. .... Memorandum               |
| Dept. .... Department  | Met. .... Metallurgical, etc.       |
| Dev. .... Devonian   | micr. .... microscopic, etc.        |
| Dist. .... District  | Mimeo. .... Mimeographed            |
| Div. .... Division   | Min. .... Mining, Mineral           |
| dol. .... dolomite   | Mineralog. .... Mineralogical, etc. |
| E. .... East   | Misc. .... Miscellaneous            |
| Econ. .... Economic  | Missn. .... Mississippian           |
| ed. .... edition   | ms. .... manuscript                 |
| Eng. .... Engineers, etc.  | Mt. .... Mount                      |
| Exper. .... Experimental, etc.   | Mtg. .... Meeting                   |
| Extr. .... Extract, etc.   | Mtn. .... Mountain                  |
| Fac. .... Faculty  | Mts. .... Mountains                 |
| Fig. .... Figure   | Mus. .... Museum                    |
| fm. .... formation   | n. .... new                         |
| Ft. .... Fort  | N. .... North                       |



|                 |                       |             |                    |
|-----------------|-----------------------|-------------|--------------------|
| N. Am. ....     | North America         | Rec. ....   | Record, etc.       |
| n. d. ....      | no date               | Rept. ....  | Report             |
| n. s. ....      | new series            | Res. ....   | Resources          |
| Nat. ....       | National, Natural     | Rev. ....   | Review             |
| NE. ....        | Northeast             | s. ....     | series             |
| no. ....        | number                | S. ....     | Survey, South      |
| nos. ....       | numbers               | Sci. ....   | Science, etc.      |
| NW. ....        | Northwest             | SE. ....    | Southeast          |
| Ord. ....       | Ordovician            | Sec. ....   | Section            |
| p. ....         | page                  | ser. ....   | series             |
| Paleogeog. .... | Paleogeographic, etc. | Serv. ....  | Service            |
| Paleont. ....   | Paleontologic, etc.   | Sess. ....  | Session            |
| Pamph. ....     | Pamphlet              | sh. ....    | shale              |
| Pan-Am. ....    | Pan-American          | Sil. ....   | Silurian           |
| Penn. ....      | Pennsylvanian         | Soc. ....   | Society            |
| Perm. ....      | Permian               | Spec. ....  | Special            |
| Petrol. ....    | Petrology, etc.       | ss. ....    | sandstone          |
| Philos. ....    | Philosophical, etc.   | St. ....    | Saint              |
| photo. ....     | photograph            | Sta. ....   | Station            |
| Phys. ....      | Physical, etc.        | Strat. .... | Stratigraphy, etc. |
| Pk. ....        | Peak                  | Supp. ....  | Supplement         |
| pl. ....        | plate                 | SW. ....    | Southwest          |
| Pleist. ....    | Pleistocene           | tab. ....   | table              |
| pls. ....       | plates                | Tech. ....  | Technical, etc.    |
| pp. ....        | pages                 | Terr. ....  | Territory          |
| pre-Camb. ....  | pre-Cambrian          | Tert. ....  | Tertiary           |
| Prelim. ....    | Preliminary           | Topog. .... | Topographic        |
| Proc. ....      | Proceedings           | Tp. ....    | Township           |
| Prof. ....      | Professional          | Tps. ....   | Townships          |
| Pt. ....        | Part                  | Trans. .... | Transactions       |
| Pts. ....       | Parts                 | Trias. .... | Triassic           |
| Pub. ....       | Publication, etc.     | Twp. ....   | Township           |
| quad. ....      | quadrangle            | U. S. ....  | United States      |
| Quart. ....     | Quarterly             | Univ. ....  | University         |
| Quat. ....      | Quaternary            | vol. ....   | volume             |
| R. ....         | Range                 | W. ....     | West               |

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 Bradleyite, a new mineral: Fahey, 2.  
 Calcite in silicified wood: Wherry, 1.  
 Chlorite, Chromiferous: Shannon, 1.  
 Cristobalite in bentonite: Bruner, 1, 2.  
 Chromite: Beckwith, 5.  
 Clinoptilolite: Schaller, 1.  
 Concretions, Red Desert: Cassinet, 1.  
 Corundophilite: Shannon, 1.  
 Dahillite: McConnell, 1.  
 Dakeite, radioactive: Dake, H. C., 1; Larsen, E. S., 2, 3; Novacek, 1.  
 Dakeite and schroeckingerite identical: Novacek, 1.  
 Euhedral oligoclase, Medicine Bow Mtns.: Crawford, 1.  
 Evaporite salts: Greene, 1.  
 Fibrous magnetite after chrysotile: Perry, 1.  
 Geode: Anon.  
 Heavy minerals, Front range: Boos, 1, 2, 3.

Heavy minerals, Big Horn Basin: Stow, 1.  
Jade: See Nephrite.  
Kyanite, Encampment district: Beckwith, 1.  
Maverick Springs area, structure: Andrews, D. A., 5.  
Meteorites: Nininger, 1; O'Harra, 3.  
Moss agates: Ellermeier, 1.  
Nephrite: Anon. 3; Branham, 1, 2, 3; Dake, 2; Rhoads, 1.  
Ore deposits, Sunlight area: Parsons, 1, 3.  
Ore deposition: Burbank, 1.  
Pegmatite dikes of Bridger Mtns.: McLaughlin, 1.  
Rawlins, Shirley, Seminole iron deposits: Lovering, 1.  
Schroekingerite same as dakeite: Novacek, 1.  
Sedimentary metal deposits of Red Beds: Finch, 2.  
Selenium in soils: Beath, 1, 4; Knight, 15.  
Shortite: Fahey, 1.  
South Pass-Atlantic City area: Abbott, 1.  
Sunlight mining region: Parsons, 1.  
Titaniferous-magnetite. Laramie Range: Diemer, 1.  
Trona, occurrence: Mendenhall, 1; Smith, H. J., 1.  
Tschermigite: Erickson, 1.  
Uranium minerals, Lusk: Larsen, E. S., 1; Lind, 1.  
Vanadiferous sh.: Rubey, 8.  
Vermiculite deposits: Hagner, 1.  
Zeolites, Green River fm.: Bradley, 7.

### Paleontology:

Absaroka volcanics dated by fossils: Jepsen, 7.  
Agate fossil forest: Avery, 1.  
Algae: Bradley, 12; Fenton, 1, 2; Wieland, 1.  
Algae, Fuson oil shale: Bradley, 2.  
Allognathosuchus: Abel, 1; Mook, 1.  
Allognathus, Big Horn Basin: Case, 2.  
Ammonites: Reeside, 1.  
Amphibia: Branson, E. B., 9.  
Amphibian (Ototriton), Lysite beds: Loomis, 1.  
Amsden fauna: Branson, E. B., 2.  
Anchitherium agatense: Romer, 1.  
Ancylocidaris: Miller, A. K., 2.  
Apatemys, Bridger Basin: Troxell, 5.  
Apatodonosaurus, Sundance fm., Fremont Co.: Mehl, 2.  
Apternodus: Schlaikjer, 1, 2.  
Araeodon: Simpson, 6.  
Arctoid carnivore, Miocene: Romer, 2.  
Artiodactyl, Eocene: Colbert, 1.  
Asteroid, Jurassic: Miller, 9.  
Beartooth Butte fauna: Bryant, 1, 2, 3; Dorf., 1; Ruedemann, 2.  
Beartooth Butte flora: Dorf, 2, 3.  
Big Horn Basin: Jepsen, 1; Troxell, 10.  
Big Horn Cephlapods: Foerste, 1.  
Birds: Wetmore, 1, 2, 3, 4, 5.  
Bone Hunting: Grinnell, 1.  
Brachiopoda: Bell, 1; Crickmay, 1; Thomas, 7, 9; Ulrich, 1.  
Brachyhyps: Colbert, 2.  
Bridger Basin: Gilmore, 4; Troxell, 7.  
Bridger Carnivora: Thorpe, 2.  
Burrowing lizard: Walker, 4.  
Caddice fly cases, Green River fm.: Bradley, 1.  
Cats, sabre-tooth: Jepsen, 5.  
Cephalopods: Foerste, 1; Miller, 4, 5, 6, 7, 8.  
Cephalopods, Cody shale, Oregon Basin: Reeside, 4.  
Camel: Loomis, 7.  
Cardioceratidae: Reeside, 1.  
Cercidiphyllum: Brown, R. W., 12.

Charophyta: Peck, 1, 2, 3, 4, 5, 7.  
 Colorado group, Cret.: Sidwell, 1.  
 Conodonts: Branson, C. C., 2; Branson, E. B., 16, 20, 21, 22.  
 Cornus, Converse Co.: Knowlton, 4.  
 Corosaurus: Case, 4, 5.  
 Cretaceous: Nace, 3, 4; Sidwell, 1.  
 Cretaceous Mollusca: Reagan, 1; Reeside, 7.  
 Crocodiles: Mook, 1, 2, 3, 4, 5, 6, 7; Troxell, 7.  
 Crocodiles, Bridger beds: Mook, 2, 6; Troxell, 7.  
 Cycadoid: Andrews, H. N., 4.  
 Cyclopidius: Loomis, 4.  
 Dakota fauna: Reeside, 2.  
 Deadwood faunas: Meyerhoff, 1.  
 Diatryma: Matthew, 1, 2, 3, 4; Troxell, 11, 12; Wetmore, 2.  
 Diceratherium: Troxell, 3.  
 Dinosaurs: Brown, B., 2; Frison, 1; Gilmore, 1, 3; Moodie, 1; Russell, 1;  
     Swann, 2; Anon., 4, 5.  
 Dinosaur Footprints: Swann, 2.  
 Eagle: Wetmore, 6.  
 Earthworm (?), Paleocene: Hazen, 1.  
 Echinoid, Sundance fm.: Miller, A. K., 1.  
 Ectoganus: Gazin, 1.  
 Edentata: Simpson, 5.  
 Eocene Faunas: Matthew, 5; Sinclair, 4.  
 Eocene insects: Cockerell, 1, 2.  
 Eocene Plants: Berry, 5, 7, 8; Wilson, L. R., 2, 4.  
 Eocene Vertebrates: Seton, 2; Troxell, 1, 4, 9.  
 Eocene didelphids: Simpson, 3.  
 Equisetites: Black, 1.  
 Echippus cf. Hyracotherium tooth: Friant, 1.  
 Eurypterids: Ruedemann, 1, 2.  
 Eusmilus: Sinclair, W. J., 1.  
 Extinct Animals: Gazin, 2.  
 Faunas, Morrison invertebrate: Branson, C. C., 7, 9, 10.  
 Faunas, Phosphoria, Embar red beds: Thomas, 5.  
 Faunas, Upper Cambrian: Howell, 1.  
 Ferns, Frontier fm.: Andrews, H. N., 2.  
 Fishes: Branson, C. C., 5; Branson, E. B., 10, 13, 15; Bryant, 3; Hesse, 1;  
     Tanner, 1; Thorpe, 5; Anon., 7.  
 Flora, Frontier fm.: Andrews, H. N., 3.  
 Floras, Absaroka Mts.: Dorf, 8.  
 Floras, Aspen Shale: Brown, R. W., 2, 3.  
 Floras, Colgate mbr. Fox Hills fm.: Brown, R. W., 11.  
 Floras, Corson Ranch: Dorf, 5.  
 Floras, Eocene: Avery, 1; Berry, 5, 8; Brown, R. W., 1, 4, 8, 9.  
 Florentiamyinae: Wood, 1.  
 Footprint records: Branson, E. B., 14, 17; Brown, N., 1; Lull, 3; Swann, 2.  
 Fort Union-Lance Floras: Dorf, 9, 10.  
 Foraminifera: Branson, C. C., 14; Carman, 1; Fox, 1; Morey, 1; Peck, 6.  
 Fossil Hunting: Gilmore, 4, 5, 6; Lull, 2; Troxell, 8.  
 Fossil tracks: Brown, N., 1.  
 Fox Hills fm.: Dorf, 7.  
 Frontier fm. floras: Andrews, H. N., 23; Berry, 6; Knowlton, 1.  
 Fulgoridae, Eocene, Green River: Cockerell, 3.  
 Fuson shale microorganisms: Bradley, 2.  
 Fuson-Cloverly fauna: Brown, B., 1.  
 Fusulinids: Thompson, M. L., 1, 2.  
 Gastroliths: Hares, 2; Kemp, A. H., 1.  
 Gentilcalmelus: Loomis, 7.  
 Geomyid rodents: Wood, A. E., 2.  
 Goshen Hole Mammalia: Schlaikjer, 1.  
 Green River Flora: Berry, 7; Brown, R. W., 1, 4; Knowlton, 5.  
 Hassiacosuchus kayi: Mook, 6.  
 Helaletes: Troxell, 2.

Heptodon: Seton, 1.  
 Herpotherium marsupium, Bridger Basin: Troxell, 6.  
 Horned ruminants: Frick, 1.  
 Horses, 3 toed: Walker, 1.  
 Ichthyosaurs: Mell, 2; Nace, 3, 4.  
 Insecta, Eocene: Cockerell, 1, 2.  
 Invertebrata, Morrison fauna: Branson, C. C., 7.  
 Isoetales: Brown, R. W., 10.  
 Jurassic: Crickmay, 1, 2; Simpson, 6.  
 Knowltonella: Berry, 9.  
 Lagomorphs: Walker, 2, 3.  
 Lamdotherium: Bonillas, 1, 2.  
 Lance flora: Dorf, 12; Knowlton, 3.  
 Lance-Fort Union flora: Dorf, 9, 10.  
 Laotiroid, Cambrian: Caster, 1.  
 Laramie flora: Cockerell, 4; Dorf, 6.  
 Larval chambers of bees: Brown, R. W., 5, 6.  
 Leptauchenia and Cyclopidius: Loomis, 4.  
 Liquidambar: Brown, R. W., 3.  
 Lizards: Gilmore, 8, 9, 10; Walker, 4.  
 Lower Medicine Bow fm.: Dorf, 7.  
 Mammalia: Denison, 1; Gazin, 3; Granger, 1, 2, 3; Schlaikjer, 1, 3, 4;  
     Simpson, 4, 6; Wood, H. E., 1.  
 Medicine Bow fm.: Dorf, 6, 7.  
 Meniscotherium: Thorpe, 4.  
 Merycochoerus: Schultz, G. B., 1; Thorpe, 3.  
 Mesaverde fm., flora: Dorf, 13.  
 Metacheiromys and Eudentata: Simpson, 5.  
 Microfossils, Cretaceous: Peck, 8.  
 Microfossils, Eocene coal: Wilson, L. R., 1.  
 Minerva saurodosis, Bridger fm.: Wetmore, 1.  
 Miocene, Van Tassel: Loomis, 2.  
 Miotapirus: Schlaikjer, 4.  
 Mollusca: Henderson, J., 1, 2; Reeside, 7; Russell, 2, 4.  
 Morrison invertebrate fauna: Branson, C. C., 7, 9, 10.  
 Multituberculates: Granger, 2, 3.  
 Myopterygius: Nace, 3, 4.  
 Nodosaurus textilis: Lull, 1.  
 Notharactus, Eocene primate: Granger, 1; Gregory, 1.  
 Norhosaur: Case, 5.  
 Omorhamphus, Eocene, Big Horn Co.: Sinclair, 2.  
 Ophioglossum Tertiary, Tipperary: Cockerell, 5.  
 Ophioglossum hastatifforme: Berry, 1; Cockerell, 6.  
 Oreodons of Lower Harrison beds: Loomis, 3.  
 Oreodontidae: Thorpe, 1.  
 Oreodonts: Schlaikjer, 3; Schultz, O. B., 1.  
 Ostracoda: Morey, 1, 2; Peck, 7.  
 Owls: Wetmore, 1, 7.  
 Palaeocaster, Miocene: Romer, 3.  
 Palaeolagus: Dice, 1, 2.  
 Palaeonictis: Sinclair, 3.  
 Palaeosyops: Lane, 1.  
 Paleocene fauna: Simpson, 7; Sinclair, 4.  
 Paleocene, Polecat Bench: Gilmore, 10; Jepsen, 6, 8.  
 Parahippus: Schlaikjer, 5.  
 Parallelopora: Johnson, 1.  
 Paramiatus gurleyi, amiid fish, Eocene: Romer 4.  
 Park Co.: Jepsen, 2.  
 Pauromys, Bridger fm.: Troxell.  
 Pennsylvanian: Branson, C. C., 8, 13; Branson, E. B., 14.  
 Phosphoria faunas from Embar red beds: Thomas, 5.  
 Phosphoria fm.: Branson, C. C., 1, 2, 4, 5.  
 Phytosauria, Triassic: Mehl, 3.  
 Pitheciustus: Thorpe, 1.



Plants, rooted, Sundance fm.: Black, 1.  
 Plants, Triassic: Berry, 2.  
 Plicatoderbya: Thomas, 9.  
 Poebrotherium: Loomis, 5.  
 Powder River Basin, Wasatch fossils: Gidley, 1; Wegemann, 1.  
 Protomeryx: Loomis, 6.  
 Protostrix: Wetmore, 7.  
 Pseudocroedi: Denison, 2.  
 Pterygotus, eurypterid: Ruedemann, 1, 2.  
 Punctospirifer: Thomas, 7.  
 Quarry 9 fauna, Morrison fm., Como Bluff: Simpson, 1.  
 Rails: Wetmore, 3.  
 Reef-forming alga: Wieland, 1.  
 Reithroparamys, Bridger fm.: Matthew, 6.  
 Reptilia, Triassic: Case, 4; Huene, 1.  
 Rhinoceroses: Troxell, 3; Wood, H. E., 1.  
 Rhizopods, Green River shale: Bradley, 6.  
 Rhynchocephalia, Como Bluff: Simpson, 1.  
 Rodents: Troxell, 4; Wilson, R. W., 1, 2; Wood, A. E., 1, 2.  
 Rooted plants, Sundance fm.: Black, 1.  
 Sacajawea fm.: Branson, C. C., 12.  
 Salvinia, Fremont Co.: Berry, 4.  
 Saniwa, Bridger beds, Sweetwater Co.: Gilmore, 2.  
 Sciuravus: Troxell, 4.  
 Selenium in Cret. vegetation: Beath, 2.  
 Selenium in Perm. and Trias. vegetation: Beath, 3.  
 Sharks, Perm.: Branson, C. C., 3, 6.  
 Sinclair dinosaur expedition: Brown, B., 2.  
 Sparganium, Upper Cretaceous: Smith, B. R., 1.  
 Sparganium, Eocene: Berry, 3.  
 Sphondylophyton: Schultes, 1, 2.  
 Sponge, Cambrian: Howell, 2.  
 Standing stone forests, Yellowstone Park: Mitchell, 1.  
 Stegosaurus stenops: Gilmore, 1.  
 Stelemys nebrascensis, Niobrara Co.: Case, 1.  
 Taeniodont: Gazin, 1.  
 Tapir: Schlaikjer, 4.  
 Tempskya: Brown, R. W., 7; Read, 3.  
 Tensleep fm.: Brainerd, 2.  
 Tertiary vertebrate faunal list: Cook, 1.  
 Tertiary fossil collecting: Gilmore, 4, 5.  
 Tertiary geology, eastern Wyoming: Cook, 2.  
 Tillomys: Troxell, 4.  
 Titanotheres: Osborn, 1.  
 Triassic vertebrates: Branson, E. B., 6.  
 Triceratops: Osborn, 1; Schlaikjer, 3.  
 Trilobita: Miller, B. M., 1.  
 Troodont dinosaur: Gilmore, 3, 4; Russell, 3.  
 Tubulodon: Jepsen, 4.  
 Turtle, Amyda nelsoni, Eocene: Case, 3.  
 Uinta Co.: Veatch, 1.  
 Vertebrates: Gilmore, 1, 2, 3, 8; Hay, 1, 2; Jepsen, 1; Schlaikjer, 3, 4;  
 Troxell, 3, 4, 6, 7, 9.  
 Wasatch Fossils: Gidley, 1; Wegemann, 1.  
 Wind River Basin Mammals: Denison, 1.  
 Zalamobodont insectivore: Schlaikjer, 2.

### **Petrology:**

Agates: Buddhue, 1.  
 Cambrian sedimentary rocks: Tiejé, 1.  
 Cretaceous sed. rocks, Black Hills: Rubey, 5.  
 Dahllite, concretions: McConnell, 1.  
 Front Range granites: Boos, 1, 2, 3.

Owl Creek Mts.: Love, 1.  
Pennsylvanian: Branson, C. C., 8, 11, 13, 16.  
Rex chert: Keller, 1, 2.  
Sunlight area volcanic centers: Parsons, 2.  
Tertiary igneous rocks, Nigger Hill district: Berg, 1.  
Titanic iron ores: Warren, 1.  
Vermiculite: Hagner, 1.

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Absaroka Range: Love, 6, 8.  
Absaroka Breccia, intrusive: Pierce, 2.  
Absaroka volcanics: Rouse, 4, 5, 6, 7.  
Algal reefs, oolites, Green River fm.: Bradley, 10.  
Analcite beds, Green River fm.: Bradley, 4, 8.  
Ancestral Rockies, Paleozoic and Mesozoic: Heaton, 1.  
Asbestos deposits: Beckwith, 5.  
Beartooth overthrust seismic inv.: Buwalda, 1.  
Bighorn Basin: Stow, 1.  
Bighorn Mtns.: Demorest, 1.  
Bighorn diastrophism: Chamberlain, 3.  
Bighorn Basin-Yellowstone Valley area: Thom, 4, 5, 6, 9; Tomlinson, 2;  
Anon., 2.  
Black Hills: Meyerhoff, 2.  
Breccia, intrusive, Absaroka Mts.: Pierce, 2.  
Casper fm.: Knight, 3, 4, 5, 6.  
Casper Mtn. fault: Hares, 8.  
Casper ss., cross-lamination: Knight, 4, 5, 6.  
Chromite deposits: Beckwith, 5.  
Color records in Badlands: German, 1.  
Columns in limestone: Branson, E. B., 7.  
Conglomerates, Green and Crook's Mts.: Knight, 12.  
Cross-lamination, Casper, Tensleep ss.: Knight, 4, 5, 6.  
Deformation, northwestern Wyoming: Dake, 3.  
Devil's Tower Nat. Monument: Effinger, 1.  
Dreikanter: Delo, 1.  
Earthquake, Big Horn Mts., Nov. 17, 1925: Pardee, 1.  
Earthquake, Jackson Hole: Blackwelder, 4; Fryxell, 4; Gale, 1.  
Elk Basin oil field, faulting: Estabrook, 1.  
Epianticlinal faults, Elk Basin: Washburne, 2.  
Faulting, Bull. Mt.: Thomas, 3.  
Faulting: Beckwith, 7; Irwin, 1.  
Faulting, Lander area: Branson, E. B., 12.  
Faulting, Post-glacial Tetons: Fryxell, 10.  
Faulting, Recent: Rubey, 6.  
Faulting, ss., through gliding: Terra, de, 1.  
Faulting, Wind River Mts.: Gleason, 1.  
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Flow units, Yellowstone lava: Howard, 2.  
Folding, major and minor, relative ages: Ball, 1.  
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Fountain fm.: Knight, 3.  
Fuson oil shale: Bradley, 2.  
Great Plains, structure: Darton, 1.  
Green Mt. cong.: Knight, 12.  
Gross Ventre landslide: Alden, 4, 5.  
Heart Mtn. overthrust: Bucher, 4; Dake, 1; Hewett, 4; Pierce, 1.  
Jackson Hole earthquake: Fryxell, 4; Gale, 1.  
Jointing, Devil's Tower: Dutton, 1.  
Jointing, Five Springs Creek area: Wilson, C. W., 2.  
Laramide structures, Beartooth Mts.: Lammers, 2.  
Laramie Basin structure: Beckwith, 4; Knight, 2.  
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Lost Soldier-Ferris district, Folding, age of: Fath, 1, 2.  
 Mountain range, buried: Love, 3.  
 Mud flows, Tetons: Fryxell, 11, 14.  
 Pediments and Pedestals: Bradley, 15.  
 Permo-Pennsylvanian, Hartville area: Condra, 2.  
 Pre-Cambrian structure, Beartooth Mts.: Lammers, 2.  
 Red beds: Knight, 1.  
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 Rocky Mts.: Dake, 3; Knight, 9, 16.  
 Salt Creek dome, temperature conditions: Thom, 1.  
 Sheep Mtn. area: Stevens, 1.  
 Shoshone Canyon area: Johnson, 1.  
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 Tensleep fault: Wilson, C. W., 3, 4.  
 Tensleep ss., cross-lamination: Knight, 6.  
 Tertiary trough: Eardley, 2.  
 Tetons: Fryxell, 6, 9, 11, 12, 13, 14.  
 Teton Pass area: Horberg, 1.  
 Thrust faults, Woods-Jelm area: Knight, 8.  
 Tuffs, volcanic deposits, Yellowstone: Fenner, 5.  
 Variation of temperature with structure: Van Orstrand, 2.  
 Volcanic explosions, overthrusts: Bucher, 2.  
 Wasatch-Great Basin area: Eardley, 1.  
 Whiskey Gap area: Neely, 1.  
 Wind-faceted stones: Mehl, 1.  
 Wind River Canyon: Fanshawe, 2; Gwynne, 1; Jones, 1.  
 Woods-Jelm area thrust faults: Knight, 8.  
 Yellowstone valley-Bighorn Basin area: Stow, 1; Thom, 4, 5, 6, 9; Tomlinson, 2; Anon., 2.

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Beartooth Mts. peneplanation: Hughes, 2.  
 Beartooth Plateau, glacial features: Dake, 2.  
 Bighorn Basin: Johnson, 4; Lucke, 1.  
 Bighorn Basin and Yellowstone Nat. Park: Johnson, 1, 3, 4.  
 Bighorn Basin, erosional history: Lucke, 1; Mackin, 3.  
 Colorado River area: Blackwelder, 6, 7, 9.  
 Dinwoody glaciers, Wind River Mts.: Delo, 2; Wentworth, 1.  
 Glacial boulders, migrating, Teton glacier: Fryxell, 5.  
 Glacial fms. Rocky Mts.: Blackwelder, 3.  
 Glacial geology, Jackson Hole: Fryxell, 1, 2.  
 Glacial geology, Medicine Bow and Park Range: Atwood, W. W. Jr., 1, 3.  
 Glacial geology, Sunlight area: Parsons, 3.  
 Glacial tables, Teton Nat. Park: Fryxell, 3.  
 Glaciation, Tertiary: Bauer, 1.  
 Glaciers, Grand Teton Nat. Park: Fryxell, 7; Wilson, L. R., 3.  
 Glaciers, Dinwoody, Wind River Mts.: Wentworth, 1.  
 Glaciers, Medicine Bow Range, Pleistocene: Atwood, W. W. Jr., 3.  
 Glaciation, Wind River Mts.: Richmond, 1.  
 Great Plains, northern: Alden, 1.  
 Green and Yampa Rivers, origin: Sears, 2.  
 Greybull River, stream capture: Mackin, 2.  
 Jackson Hole: Fryxell, 1, 2, 3, 4.  
 Landslide scar, Centennial Valley: Sharp, 1.  
 Laramie Basin structure: Beckwith, 3, 4.  
 Laramie Range: Kemp, 2.  
 Medicine Bow and Park Range, glacial geology and warped peneplane:  
 Atwood, W. W. Jr., 1, 3.  
 Natural Bridges: Wentworth, 2.  
 Parallel drainage and log concretions: Wegemann, 5.  
 Park county, Valley area: Rouse, 3.  
 Placer Mining Methods, Atlantic City: Ross, 1.  
 Pre-Wisconsin glaciation, Rocky Mountains: Alden, 2.

Red Desert: Nace, 2.  
Rocky Mountain Region: Atwood, W. W. Jr., 1; Johnson, 2; Knight, 14.  
Sheep Mountain area: Stevens, 1.  
Sherman peneplain, Laramie Mountains: Hares, 6.  
Soil drifting, Great Plains: Leighton, 1.  
Stream capture, Absaroka Range: Mackin, 1, 2.  
Stream Piracy in northeastern Wyoming: Rubey, 2.  
Sunlight area: Parsons, 1, 2, 3.  
Teton Mts.: Baker, V. R., 1; Fryxell, 6, 9, 11, 12, 13, 14.  
Teton Pass area: Horberg, 1.  
Tunnels, natural, Dinwoody creek: Wentworth, 2.  
Valley area, Park Co.: Rouse, 2, 3.  
White River fm., boulder beds: Bauer, 2.  
Wind River Basin: Bauer, 3, 4.  
Wind Gap, Cedar Mt.: Sharp, 2.  
Wind-faceted stones: Mehl, 1.  
Wind River Mts.: Alden, 3; Atwood, 2; Baker, C. L., 1.  
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Chugwater Creek, resources: Edwards, 1.  
Horse Creek and Bear Creek valleys: Dockery, 1.  
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Intermittent spring, Swift Creek: Stearns, 1.  
Laramie River, North Laramie River, Chugwater Creek, resources: Edwards, 1.  
Lodgepole valley: Meinzer, 1.  
Mineral hot springs: Bartlett, 3.  
Oil field waters, analyses: Coffin, 1; Crawford, 1; Estabrook, 3.  
Salt Creek field, water analyses: Nowels, 1; Ross, 1.  
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Thermal springs: Stearns, 2.  
Waters from Poison Spider: Parks, 1.  
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## **YELLOWSTONE NATIONAL PARK**

### **General:**

Bibliography: Voth, 1.  
Borings: Fenner, 1, 2, 4.  
Hoodoos: Hole, 1.  
Radioactivity, waters, gases, deposits: Schlundt, 1.  
Yellowstone through the ages: Howard, 4; (Review) Blackwelder, 10.  
Yellowstone Nat. Park: Field, 2.

### **Historical Geology:**

Cambrian type fms., revision: Deiss, 1.  
General: Field, 1, 3.  
Geology: Stearns, 1.  
Grand Canyon of the Yellowstone: Fenneman, 1; Howard, 3; Jones, 1, 2.  
Heart Mtn. overthrust-Yellowstone volcanics, ages: Hares, 4.  
Mammoth Hot Springs-Grand Canyon of Yellowstone: Field, 3.  
Mount Everts sec.: Wilson, C. W., 1.  
Roosevelt Lodge-East Entrance of Yellowstone Park: Field, 6.  
Structural type, space, time relations, Yellowstone-Beartooth-Bighorn region: Thom, 4, 5, 6, 7.

### **Mineralogy:**

Bore-hole inv.: Fenner, 1, 2, 4.  
Crystobalite: Howard, 6; Rogers, 1.  
Minerals of Obsidian Cliff: Foshag, 1.  
Tuffs and volcanic deposits: Fenner, 5.

### **Paleontology:**

Floras, Gallatin region: Andrews, H. N., 1.  
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Fossil forests: Chapman, 1; Knowlton, 6; Mitchell, 1; Young, 1.  
Insect borings in fossil wood: Brues 1, .  
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Discharge, hot springs: Allen, 2, 5, 6, 8.  
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Rhyolite, shear control of structure: Brouwer, 2, 3.

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Drilling for geophys. data: Powers, 1.  
General: Howard, 4.  
Grand Canyon of Yellowstone: Howard, 3.  
Heart Mtn. Overthrust-Yellowstone volcanics, ages: Hares, 4.  
Hot springs: Allen, 2, 5, 6, 8; Behre, 1; Day, 2, 3, 4, 5.  
Hydrothermal metamorphism, geyser basins: Fenner, 2.  
Lava cliffs: Brouwer, 1.  
Layering in rhyolites: Howard, 7.  
Obsidian cliff: Foshag, 1.  
Old Faithful geyser: Bauer, 6.  
Rhyolite-Basalt contact: Fenner, 3, 6, 7; Wilcox, 1, 2.  
Rhyolites, shear control of structure: Brouwer, 2, 3.  
Volcanoes in Nat. Parks: Day, 4; Waesche, 1.

### **Physiographic Geology:**

Autopiracy, Tower Creek: Howard, 5.  
Glaciation, multiple: Miner, 1.  
Grand Canyon of Yellowstone: Fenneman, 1; Howard, 3.  
Hayden valley lacustrine deposits: Howard, 1.  
Physiographic history: Field, 5; Martonne, 1.

### **Underground Water:**

Bore-hole inv.: Fenner, 1, 2, 4.  
Geyser basins and ig. emanations: Allen, 7.  
Geysers: Allen, 3; Chaix, 1; Darton, 2; Day, 1, 4.  
Hot areas, classification: Allen, 1.  
Hot springs: Allen, 2, 4, 5, 6, 8; Behre, 1; Day, 2, 3, 4, 5.  
Hydrothermal activity: Kemp, 2.  
Old faithful geyser: Bauer, 6.  
Temperatures in springs and geysers: Van Orstrand, 1.





