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OF THE MOUNT HAYES QUADRANGLE,
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By

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MOUNT HAYES QUADRANGLE

REFERENCES CITED

- Alaska Department of Mines, 1946, Report of the Commissioner of Mines for the biennium ended December 31, 1946: Juneau, Alaska, 50 p.
- Alaska Department of Mines, 1952, Report of the Commissioner of Mines for the biennium ended December 31, 1952: Juneau, Alaska, 66 p.
- Alaska Department of Mines, 1955, Report of the Commissioner of Mines for the biennium ended December 31, 1954: Juneau, Alaska, 110 p.
- Alaska Department of Mines, 1957, Report of the Commissioner of Mines for the biennium ended December 31, 1956: Juneau, Alaska, 103 p.
- Alaska Department of Mines, 1958, Report of the Commissioner of Mines for the biennium ended December 31, 1958, 83 p.
- Alaska Division of Geological Survey, 1972, Annual Report 1971: Anchorage, Alaska, 109 p.
- Alaska Division of Geological and Geophysical Surveys, 1973, The Maclaren metamorphic belt, south-central Alaska in Alaska Division of Geological and Geophysical Surveys Annual Report, 1972, p. 8-10.
- Alaska Division of Geological and Geophysical Surveys, 1973, Annual report 1972: Anchorage, Alaska, 57 p.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Mt. Hayes quadrangle, Alaska: Alaska Division of Geological and Geophysical Surveys Open-File Map AOF-10, 1 sheet, scale 1:250,000.
- Alaska Division of Geological and Geophysical Surveys, 1973, Amphitheater Mountains and vicinity: Alaska Division of Geological and Geophysical Surveys Annual Report 1973, p. 30-31, 34.
- Alaska Division of Geological and Geophysical Surveys, 1973, K-Ar dating pinpoints cessation of movement along Hines Creek strand of Denali fault system: Alaska Division of Geological and Geophysical Surveys Annual Report 1973, p. 27.
- Alaska Division of Geological and Geophysical Surveys, 1974, Annual report 1973: Anchorage, Alaska, 59 p.
- Alaska Division of Geological and Geophysical Surveys, 1976, Biennial report, 1974-1975: College, Alaska, 53 p.

MOUNT HAYES QUADRANGLE

- Alaska Division of Mines and Minerals, 1961, Report of the year 1961, Juneau, Alaska, 108 p.
- Alaska Division of Mines and Minerals, 1962, Report of the year 1962, Juneau, Alaska, 119 p.
- Alaskan Geology Branch, U. S. Geological Survey, 1972, The status of mineral resource information on the major land withdrawals of the Alaska Native Claims Settlement Act of 1971: U. S. Geological Survey Open-File Report 546, 164 p.
- Anderson, G. S., 1970, Hydrologic reconnaissance of the Tanana basin, central Alaska: U. S. Geological Survey Hydrologic Investigation Atlas HA-319, 4 sheets.
- Andreasen, G. E., Grantz, Arthur, Zietz, Isidore, and Barnes, D. F., 1964, Geologic interpretation of magnetic and gravity data in the Copper River Basin, Alaska: U. S. Geological Survey Professional Paper 316-H, p. 135-153.
- Andresen, M. J., Church, R. E., and Pewe, T. L., 1963, Sedimentology of unfrozen large-scale patterned ground, Donnelly Dome area, Alaska [abs.]: Geological Society of America Special Paper 73, p. 287.
- Armstrong, A. K., 1975, Carboniferous corals of Alaska, a preliminary report: U. S. Geological Survey Professional Paper 823-C, p. 45-57.
- Barnes, D. F., 1967, Four preliminary gravity maps of parts of Alaska: U. S. Geological Survey Open-File Report 278, 5 p.
- Barnes, D. F., 1977, Preliminary Bouger gravity map of central Alaska: U. S. Geological Survey Open-File Map 77-168-C, 1 sheet, scale 1:1,000,000.
- Barnes, D. F., 1977, Gravity map of the eastern part of southern Alaska: U. S. Geological Survey Open-File Map 77-169-C, 1 sheet, scale 1:1,000,000.
- Barnes, D. F., and MacCarthy, G. R., 1956, Tests of geophysical prospecting techniques in areas of sporadic permafrost in interior Alaska [abs.]: Geological Society of America Bulletin, v. 67, no. 12, p. 1805.
- Barnes, D. F., and MacCarthy, G. R., 1964, Preliminary report on tests of the application of geophysical methods to Arctic groundwater problems: U. S. Geological Survey Open-File Report 244, 32 p.

MOUNT HAYES QUADRANGLE

- Barnes, F. F., 1967, Coal resources of Alaska: U. S. Geological Survey Bulletin 1242-B, p. B1-B36.
- Beikman, H. M., 1974, Preliminary geologic map of the southeast quadrant of Alaska: U. S. Geological Survey Miscellaneous Field Studies Map MF-612, 2 sheets, scale 1:1,000,000.
- Beikman, H. M., Holloway, C. D., and MacKevett, E. M., Jr., 1977, Generalized geologic map of the eastern part of southern Alaska: U. S. Geological Survey Open-File Map 77-169-B, 1 sheet, scale 1:1,000,000.
- Beikman, H. M., and Lathram, E. H., 1976, Preliminary geologic map of northern Alaska: U. S. Geological Survey Miscellaneous Field Studies Map MF-789, 2 sheets, scale 1:1,000,000.
- Benninghoff, W. S., and Holmes, G. W., 1961, Preliminary report on upper Cenozoic carbonaceous deposits in the Johnson River area, Alaska Range [abs.] in Raasch, G. O., ed., Geology of the Arctic: Toronto, University Toronto Press, v. 1, p. 599.
- Berg, H. C., and Cobb, E. H., 1967, Metalliferous lode deposits of Alaska: U. S. Geological Survey Bulletin 1246, 254 p.
- Bond, G. C., 1965, Bedrock geology of the Gulkana Glacier area, Alaska Range [abs.]: Geological Society of America Special Paper 82, p. 355-356.
- Bond, G. C., 1965, Bedrock geology of the Gulkana Glacier area, Alaska Range: Unpublished M. S. thesis, University of Alaska, 45 p.
- Bond, G. C., 1969, Permian sedimentation and paleogeography in the east-central Alaska Range, Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 1, pt. 6, p. 3-4.
- Bond, G. C., 1970, Early Permian sedimentation and paleogeography in east-central Alaska Range, and regional implications [abs.]: American Association of Petroleum Geologists Bulletin, v. 54, no. 12, p. 2470-2471.
- Bond, G. C., 1973 A late Paleozoic volcanic arc in the eastern Alaska Range, Alaska: Journal of Geology, 1973, v. 81, p. 557-575.
- Bond, G. C., 1976, Geology of the Rainbow Mountain-Gulkana Glacier area, eastern Alaska Range, with emphasis on upper Paleozoic strata: Alaska Division of Geological and Geophysical Surveys Geologic Report 45, 47 p.

MOUNT HAYES QUADRANGLE

- Bottge, R. G., 1975, Impact of a natural-gas pipeline on mineral and energy development in Alaska: U. S. Bureau of Mines Open-File Report 20-75, 177 p. + 101 maps. (Also available as National Technical Information Services PB 240 638/AS.)
- Brogan, G. E., Cluff, L. S., Korrinda, M. K., and Slemmons, D. B., 1975, Active faults of Alaska, in N. Pavoni and R. Green, eds., in Recent Crustal Movements: Tectonophysics, v. 29 (1-4), p. 73-85
- Brooks, A. H., 1900, A reconnaissance in the White and Tanana river basins, Alaska, in 1898: U. S. Geological Survey 20th Annual Report, pt. 7, p. 425-494.
- Brooks, A. H., 1903, Placer gold mining in Alaska in 1902: U. S. Geological Survey Bulletin 213, p. 41-48.
- Brooks, A. H., 1904, Placer mining in Alaska in 1903: U. S. Geological Survey Bulletin 225, p. 43-59.
- Brooks, A. H., 1905, Placer mining in Alaska in 1904: U. S. Geological Survey Bulletin 259, p. 18-31.
- Brooks, A. H., 1906, The geography and geology of Alaska, a summary of existing knowledge, with a section on climate by Cleveland Abbe, Jr., and a topographic map and description thereof, by R. U. Goode: U. S. Geological Survey Professional Paper 45, 327 p.
- Brooks, A. H., 1907, The mining industry in 1906: U. S. Geological Survey Bulletin 314, p. 19-39.
- Brooks, A. H., 1908, The mining industry in 1907: U. S. Geological Survey Bulletin 345, p. 30-53.
- Brooks, A. H., 1910, The mining industry in 1909: U. S. Geological Survey Bulletin 442, p. 20-46.
- Brooks, A. H., 1911, Geologic features of Alaskan metalliferous lodes: U. S. Geological Survey Bulletin 480, p. 43-93.
- Brooks, A. H., 1912, The mining industry in 1911: U. S. Geological Survey Bulletin 520, p. 17-44.
- Brooks, A. H., 1913, The mining industry in 1912: U. S. Geological Survey Bulletin 542, p. 18-51.
- Brooks, A. H., 1914, The Alaskan mining industry in 1913: U. S. Geological Survey Bulletin 592, p. 45-74.

MOUNT HAYES QUADRANGLE

- Brooks, A. H., 1915, The Alaskan mining industry in 1914: U. S. Geological Survey Bulletin 622, p. 15-68.
- Brooks, A. H., 1916, The Alaskan mining industry in 1915: U. S. Geological Survey Bulletin 642, p. 16-71.
- Brooks, A. H., 1918, The Alaskan mining industry in 1916: U. S. Geological Survey Bulletin 662, p. 11-62.
- Brooks, A. H., 1919, Alaska's mineral supplies: U. S. Geological Survey Bulletin 666, p. 89-102.
- Brooks, A. H., 1921, The future of Alaska mining: U. S. Geological Survey Bulletin 714, p. 5-57.
- Brooks, A. H., 1922, The Alaskan mining industry in 1920: U. S. Geological Survey Bulletin 722, p. 7-67.
- Brooks, A. H., 1923, The Alaskan mining industry in 1921: U. S. Geological Survey Bulletin 739, p. 1-44.
- Brooks, A. H., 1925, Alaska's mineral resources and production, 1923: U. S. Geological Survey Bulletin 773, p. 3-52.
- Brooks, A. H., and Capps, S. R., 1924, The Alaskan mining industry in 1922: U. S. Geological Survey Bulletin 755, p. 3-49.
- Brooks, A. H., and Martin, G. C., 1921, The Alaskan mining industry in 1919: U. S. Geological Survey Bulletin 714, p. 59-95.
- Capps, S. R., 1910, Rock glaciers in Alaska: Journal of Geology, v. 18, p. 359-375.
- Capps, S. R., 1911, Mineral resources of the Bonnifield region: U. S. Geological Survey Bulletin 480, p. 218-235.
- Capps, S. R., 1912, The Bonnifield region, Alaska: U. S. Geological Survey Bulletin 501, 64 p.
- Capps, S. R., 1940, Geology of the Alaska Railroad region: U. S. Geological Survey Bulletin 907, 201 p.
- Carter, L. D., and Galloway, J. P., 1978, Preliminary geologic maps of the proposed natural gas pipeline route in the Tanana River valley, Alaska: U. S. Geological Survey Open-File Report 78-794, 26 p. + 3 sheets, scale 1:125,000.

MOUNT HAYES QUADRANGLE

- Cederstrom, D. J., 1952, Summary of ground-water development in Alaska, 1950: U. S. Geological Survey Circular 169, 37 p.
- Chapin, Theodore, 1918, The Nelchina-Susitna region, Alaska: U. S. Geological Survey Bulletin 668, 67 p.
- Chapin, Theodore, 1919, Platinum-bearing auriferous gravels of Chistochina River: U. S. Geological Survey Bulletin 692, p. 137-141.
- Chapman, R. M., and Saunders, R. H., 1954, The Kathleen-Margaret (K-M) copper prospect on the upper Maclaren River, Alaska: U. S. Geological Survey Circular 332, 5 p.
- Chapman, R. M., and Shacklette, H. T., 1960, Geochemical exploration in Alaska, in Geological Survey research 1960: U. S. Geological Survey Professional Paper 400-B, p. B104-B107.
- Childers, J. M., 1974, Flood surveys along TAPS route, Alaska: U. S. Geological Survey Open-File Report, 16 p.
- Childers, J. M., 1975, Channel erosion surveys along southern segment of the TAPS route, Alaska, 1972 and 1973: U. S. Geological Survey Open-File Report (basic data), 57 p.
- Childers, J. M., Nauman, J. W., Kernodle, D. R., and Doyle, P. F., 1978, Water resources along the TAPS route, Alaska, 1970-74: U. S. Geological Survey Open-File Report 78-137, 136 p.
- Churkin, Michael, Jr., 1973, Paleozoic and Precambrian rocks of Alaska and their role in its structural evolution: U. S. Geological Survey Professional Paper 740, 64 p.
- Cobb, E. H., 1972, Metallic mineral resource map of the Mount Hayes quadrangle, Alaska: U. S. Geological Survey Miscellaneous Field Studies Map MF-414, 1 sheet, scale 1:250,000.
- Cobb, E. H., 1973, Placer deposits of Alaska: U. S. Geological Survey Bulletin 1374, 213 p.
- Cobb, E. H., 1977, Placer deposits map of central Alaska: U. S. Geological Survey Open-File Report 77-168-B, 64 p. + map, scale 1:1,000,000.
- Cobb, E. H., 1979, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Mount Hayes quadrangle, Alaska: U. S. Geological Survey Open-File Report 79-238, 140 p.

MOUNT HAYES QUADRANGLE

- Cobb, E. H., and Kachadoorian, Reuben, 1961, Index of metallic and nonmetallic mineral deposits of Alaska compiled from published reports of Federal and State agencies through 1959: U. S. Geological Survey Bulletin 1139, 363 p.
- Decker, John, and Karl, Susan, 1977, Preliminary aeromagnetic map of central Alaska: U. S. Geological Survey Open-File Report 77-168-E, 1 sheet, scale 1:1,000,000.
- Decker, John, and Karl, Susan, 1977, Preliminary aeromagnetic map of the eastern part of southern Alaska: U. S. Geological Survey Open-File Report 77-169-E, 1 sheet, scale 1:1,000,000.
- Dickenson, K. A., and Campbell, J. A., 1978, Epigenetic mineralization and areas favorable for uranium exploration in Tertiary continental sedimentary rock in south-central Alaska - a preliminary report: U. S. Geological Survey Open-File Report 78-757, 13 p.
- Dobrovolsky, Ernest, Schmol, H. R., and Yehle, L. A., 1969, Geologic environmental factors related to TAPS (Trans-Alaska Pipeline System) from Valdez to Fairbanks, Alaska: U. S. Geological Survey Open-File Report 391, 1 sheet.
- Dodd, A. V., 1962, Mesoclimatic temperature differences in the Fort Greely area, Alaska [abs.]: Geological Society of America Special Paper 68, p. 114.
- Dorr, J. A., Jr., 1964, Tertiary non-marine vertebrates in Alaska - The lack thereof: American Association of Petroleum Geologists Bulletin, v. 48, no. 7, p. 1198-1203.
- Doyle, P. F., and Childers, J. M., 1977, Channel erosion surveys along TAPS route, Alaska, 1976: U. S. Geological Survey Open-File Report 77-170, 93 p.
- Eakins, G. R., Jones, B. K., and Forbes, R. B., 1977, Investigation of Alaska's uranium potential: Alaska Division of Geological and Geophysical Surveys Open-File Report 109, 202 p.
- Ebbiley, Norman, Jr., and Wright, W. S., 1948, Antimony deposits in Alaska: U. S. Bureau of Mines Report of Investigations 4173, 41 p.
- Eberlein, G. D., Gassaway, J. S., and Beikman, H. M., 1977, Preliminary geologic map of central Alaska: U. S. Geological Survey Open-File Map 77-168-A, 1 sheet, scale 1:1,000,000.

MOUNT HAYES QUADRANGLE

- Eberlein, G. D., and Menzie, W. D., 1978, Maps and tables describing areas of metalliferous mineral resource potential of central Alaska: U. S. Geological Survey Open-File Report 78-1-D. 43 p. + 2 pl., scale 1:1,000,000.
- Emmett, W. W., 1972, The hydraulic geometry of some Alaskan streams south of the Yukon River: U. S. Geological Survey Open-File Report 545, 102 p.
- Fogleman, K., Stephens, C., Lahr, J. C., Helton, S., and Allan, M., 1978, Catalog of earthquakes in southern Alaska, October-December 1977: U. S. Geological Survey Open-File Report 78-1097, 28 p.
- Forbes, R. B., and Smith, T. E., 1973, A solution to the Denali fault offset problem: Alaska Division of Geological and Geophysical Surveys Annual Report 1973, p. 25-27.
- Forbes, R. B., Smith, T. E., and Turner, D. L., 1974, Comparative petrology and structure of the Maclaren, Ruby Range and Coast Range belts: implications for offset along the Denali fault system [abs.]: Geologic Society of America Cordilleran Section Meeting Program, Las Vegas, Nevada.
- Forbes, R. B., Turner, D. L., Stout, J. H., and Smith, T. E., 1973, Cenozoic offset along the Denali fault, Alaska [abs.]: EOS (American Geophysical Union Transactions, v. 54, no. 4, p. 495.
- Foster, H. L., Albert, N. R. D., Griscom, Andrew, Hessin, T. D., Menzie, W. D., Turner, D. L., and Wilson, F. H., 1979, The Alaskan Mineral Resource Assessment Program: Background information to accompany folio of of geologic and mineral resource maps of the Big Delta quadrangle, Alaska: U. S. Geological Survey Circular 783, 19 p.
- Foster, H. L., and Holmes, G. W., 1965, A large transitional rock glacier in the Johnson River area, Alaska Range, in Geological Survey research 1965: U. S. Geological Survey Professional Paper 525-B, p. B112-B116.
- Gedney, L., Shapiro, L., Van Wormer, D., and Weber, F., 1972, Correlation of epicenters with mapped faults, east-central Alaska, 1968-1971: U. S. Geological Survey Open-File Report 535, 7 p.
- Geist, O. W., and Pewe, T. L., 1957, Quantitative measurements of the 1937 advance of Black Rapids Glacier, Alaska: Proceedings of the Fifth Alaska Science Conference, p. 51-52.

MOUNT HAYES QUADRANGLE

- Gilbertson, R. L., 1969, Biostratigraphy of the Upper Paleozoic rocks in the Gulkana Glacier area, Alaska: Unpublished M. S. thesis, University of Wisconsin, 43 p.
- Hamilton, T. D., and Robinson, Stephen, 1977, Late Holocene (Neoglacial) environmental changes in central Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 9, no. 7, p. 1003.
- Hance, J. H., 1937, The recent advance of Black Rapids Glacier: Journal of Geology, v. 45, p. 775-783.
- Hanson, L. G., 1963, Bedrock geology of the Rainbow Mountain area, Alaska Range, Alaska: Alaska Division of Mines and Minerals Geologic Report 2, 82 p.
- Hawkins, J. W., Jr., and Ragan, D. M., 1965, Relict charnockitic rocks, granulite-facies gneisses, and migmatites in a polymetamorphic complex, Gulkana Glacier region, eastern Alaska Range; Part 2, petrology [abs.]: Geological Society of America Special Paper 82, p. 257.
- Hill, T. P., and Werner, M. A., 1972, Chemical composition of sedimentary rocks in Alaska, Idaho, Oregon, and Washington: U. S. Geological Survey Professional Paper 771, 319 p.
- Hollick, Arthur, 1936, The Tertiary floras of Alaska, with a chapter on the geology of the Tertiary deposits, by P. S. Smith: U. S. Geological Survey Professional Paper 182, 185 p.
- Holmes, G. W., 1959, Glaciation in the Johnson River-Tok area, Alaska Range [abs.]: Geological Society of America Bulletin, v. 70, p. 1620.
- Holmes, G. W., 1965, Geologic reconnaissance along the Alaska Highway, Delta River to Tok Junction, Alaska: U. S. Geological Survey Bulletin 1181-H, p. H1-H19.
- Holmes, G. W., compiler, 1967, Location of pingo-like mounds observed from the ground, from aerial reconnaissance, and on aerial photographs in interior Alaska: U. S. Geological Survey Open-File Report 268, 13 p.
- Holmes, G. W., and Benninghoff, W. S., 1957, Terrain study of the Army Test Area, Fort Greely, Alaska: Washington, D. C., U. S. Geological Survey, Military Geologic Branch, v. 1, 287 p.; v. 2, maps.

MOUNT HAYES QUADRANGLE

- Holmes, G. W., and Foster, H. L., 1968, Geology of the Johnson River area, Alaska: U. S. Geological Survey Bulletin 1249, 49 p.
- Holmes, G. W., Hopkins, D. M., and Foster, H. L., 1963, Pingos in central Alaska [abs.]: Geologic Society of America Special Paper 73, p. 173.
- Holmes, G. W., Hopkins, D. M., and Foster, H. L., 1966, Distribution and age of pingos of interior Alaska, in Proceedings, Permafrost, International Conference, Lafayette, Indiana, 1963; National Academy Science Publication 1287, p. 88-93.
- Holmes, G. W., Hopkins, D. M., and Foster, H. L., 1968, Pingos in central Alaska: U. S. Geological Survey Bulletin 1241-H, p. H1-H40.
- Holmes, G. W., and Pewe, T. L., 1965, Geologic map of the Mount Hayes D-3 quadrangle, Alaska: U. S. Geological Survey Geological Quadrangle Map GQ-366, 1 sheet, scale 1:63,360.
- Hudson, Travis, and Weber, F. R., 1977, The Donnelly Dome and Granite Mountain faults, south-central Alaska, in Blean, K. M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U. S. Geological Survey Circular 751-B, p. B64-B66.
- Jackman, A. H., 1951, Landforms near Big Delta, Alaska [abs.]: Geological Society of America Bulletin, v. 62, no. 12, p. 1553.
- Joesting, H. R., 1942, Strategic mineral occurrences in interior Alaska: Alaska Department of Mines Pamphlet 1, 46 p.
- Kachadoorian, Reuben, Hopkins, D. M., and Nichols, D. R., 1953, A preliminary report of geologic factors affecting highway construction in the area between the Susitna-Maclaren Rivers, Alaska: U. S. Geological Survey Open-File Report 92, 73 p.
- Kachadoorian, Reuben, and Pewe, T. L., 1955, Engineering geology of the southern half of the Mt. Hayes A-5 quadrangle, Alaska: U. S. Geological Survey Open-File Report 110, 27 p.
- Kaufman, M. A., 1964, Geology and mineral deposits of the Denali-Maclaren River area, Alaska: Alaska Division of Mines and Minerals Geologic Report 4, 19 p.
- Kleist, J. R., 1971, The Denali Fault in the Canwell Glacier area, east-central Alaska Range: Unpublished M. S. thesis, University of Wisconsin, 111 p.

MOUNT HAYES QUADRANGLE

- Kleist, J. R., 1972, Kink bands along the Denali Fault: *Geologic Society of America Bulletin*, v. 83, no. 11, p. 3487-3490.
- Koschmann, A. H., and Bergendahl, M. H., 1968, Principle gold-producing districts of the United States: U. S. Geological Survey Professional Paper 610, 283 p.
- Krinsley, D. B., 1964, Influence of snow cover on frost penetration [abs.]: *Geological Society of America Special Paper* 76, p. 300.
- Krinsley, D. B., Davies, W. E., Rachlin, J., and Newton, E. G., 1971, Existing environment of natural corridors from Prudhoe Bay, Alaska, to Edmonton, Canada: U. S. Geological Survey Open-File Report 502, 104 p.
- Lamke, R. D., 1972, Floods in the summer of 1971 in south-central Alaska: U. S. Geological Survey Open-File Report 542, 88 p.
- Link, D. A., 1976, Factors controlling suspended sediment in streams draining currently glaciated basins [abs.]: *American Association of Petroleum Geologists Bulletin*, v. 60, no. 4, p. 693.
- Loeffler, R. M., and Childers, J. M., 1978, Channel erosion surveys along the TAPS route, Alaska 1977: U. S. Geological Survey Open-File Report 78-611, 90 p.
- MacKevett, E. M., Jr., 1964, Ore controls at the Kathleen-Margaret (Maclaren River) copper deposit, Alaska, in *Geological Survey research 1964*: U. S. Geological Survey Professional Paper 501-C, p. C117-C120.
- MacKevett, E. M., Jr., and Holloway, C. D., 1977, Map showing metalliferous and selected nonmetalliferous mineral deposits in the eastern part of southern Alaska: U. S. Geological Survey Open-File Map 77-169-A, 1 sheet and 99 p. tabular material, scale 1:1,000,000.
- MacKevett, E. M., Jr., Singer, D. A., and Holloway, C. D., 1978, Maps and tables describing metalliferous mineral resource potential of southern Alaska: U. S. Geological Survey Open-File Report 78-1-E, 45 p. + maps, scale 1:1,000,000.
- Maloney, William, 1918, Report of the Territorial Mine Inspector to the Governor of Alaska for the year 1917: Juneau, Alaska, 50 p.
- Martin, G. C., 1907, The Alaska coal fields: U. S. Geological Survey Bulletin 314, p. 40-46.

MOUNT HAYES QUADRANGLE

- Martin, G. C., 1916, Triassic rocks of Alaska: Geological Society of America Bulletin, v. 27, no. 4, p. 685-718.
- Martin, G. C., 1919, The Alaskan mining industry in 1917: U. S. Geological Survey Bulletin 692, p. 11-42.
- Martin, G. C., 1920, The Alaskan mining industry in 1918: U. S. Geological Survey Bulletin 712, p. 11-52.
- Martin, G. C., 1926, The Mesozoic stratigraphy of Alaska: U. S. Geological Survey Bulletin 776, 493 p.
- Marvin, R. F., 1974, A tabulation of K-Ar, Rb-Sr, and Pb-alpha ages obtained from materials within the United States (including Alaska and Hawaii) during the years 1965 through 1968: U. S. Geological Survey Open-File Report 587, 245 p.
- Matteson, Charles, 1973, Geology of the Slate Creek area, Mt. Hayes A-2 quadrangle, Alaska, Masters thesis, University of Alaska.
- Matzko, J. J., and Freeman, V. L., 1963, Summary of reconnaissance for uranium in Alaska, 1955: U. S. Geological Survey Bulletin 1155, p. 33-49.
- Mayo, L. R., 1963, 1961 meteorology and mass balance of Gulkana Glacier, central Alaska Range, Alaska: unpublished Masters Thesis, University of Alaska, 52 p.
- Mayo, L. R., 1963, Regimen of Gulkana Glacier, central Alaska Range, Alaska [abs.]: Geological Society of America Special Paper 73, p. 288-289.
- Mayo, L. R., 1977, Glacier research, in Blean, K. M., ed., The United States Geological Survey in Alaska: accomplishments during 1976: U. S. Geological Survey Circular 751-B, p. B5-B6.
- Mayo, L. R., and Pewe, T. L., 1963, Ablation and net total radiation, Gulkana Glacier, Alaska; in Kingery, W. D., 1963, Ice and Snow: M.I.T. Press, Cambridge, Mass., p. 633-643.
- Mayo, Lawrence, and Pewe, T. L., 1963, Ablation and net total radiation, Gulkana Glacier, Alaska [abs.]: Geological Society of America Special Paper 73, p. 51.
- Meier, M. F., 1963, Mechanics of response of glaciers to climatic change—a progress report: Geological Society of America Special Paper 73, p. 205.

MOUNT HAYES QUADRANGLE

- Meier, M. F., Tangborn, W. V., Mayo, L. R., and Post, Austin, 1971, Combined ice and water balances of Gulkana and Wolverine Glaciers, Alaska, and South Cascade Glacier, Washington, 1965 and 1966 hydrologic years: U. S. Geological Survey Professional Paper 715-A, p. A1-A23.
- Mendenhall, W. C. 1900, A reconnaissance from Resurrection Bay to the Tanana River, Alaska, in 1898: U. S. Geological Survey 20th Annual Report, pt. 7, p. 265-340.
- Mendenhall, W. C., 1903, The Chistochina gold field, Alaska: U. S. Geological Survey Bulletin 213, p. 71-75.
- Mendenhall, W. C., 1905, Geology of the central Copper River region, Alaska: U. S. Geological Survey Professional Paper 41, 133 p.
- Mendenhall, W. C., and Schrader, F. C., 1903, The mineral resources of Mount Wrangell district, Alaska: U. S. Geological Survey Professional Paper 15, 71 p.
- Mertie, J. B., Jr., 1931, A geologic reconnaissance of the Dennison Fork district, Alaska: U. S. Geological Survey Bulletin 827, 44 p.
- Mertie, J. B., Jr., 1937, The Yukon-Tanana region, Alaska: U. S. Geological Survey Bulletin 872, 276 p.
- Miller, D. J., Payne, T. G., and Gryc, George, 1959, Geology of possible petroleum provinces in Alaska, with an annotated bibliography by E. H. Cobb: U. S. Geological Survey Bulletin 1094, 131 p.
- Moffit, F. H., 1909, Mining in the Kotsina-Chitna, Chistochina, and Valdez Creek regions: U. S. Geological Survey Bulletin 379, p. 153-160.
- Moffit, F. H., 1911, The upper Susitna and Chistochina districts: U. S. Geological Survey Bulletin 480, p. 112-127.
- Moffit, F. H., 1912, Headwater regions of Gulkana and Susitna Rivers, Alaska, with accounts of the Valdez Creek and Chistochina placer districts: U. S. Geological Survey Bulletin 498, 82 p.
- Moffit, F. H., 1927, Mineral industry of Alaska in 1925: U. S. Geological Survey Bulletin 792, p. 1-39.
- Moffit, F. H., 1932, The Slana district, upper Copper River region: U. S. Geological Survey Bulletin 824, p. 111-124.

MOUNT HAYES QUADRANGLE

- Moffit, F. H., 1937, Recent mineral developments in the Copper River region: U. S. Geological Survey Bulletin 880-B, p. 97-109.
- Moffit, F. H., 1938, Geology of the Slana-Tok district, Alaska: U. S. Geological Survey Bulletin 904, 54 p.
- Moffit, F. H., 1942, Geology of the Gerstle River district, Alaska, with a report on the Black Rapids Glacier: U. S. Geological Survey Bulletin 926-B, p. 107-160.
- Moffit, F. H., 1944, Mining in the northern Copper River region, Alaska: U. S. Geological Survey Bulletin 943-B, p. 25-47.
- Moffit, F. H., 1954, Geology of the eastern part of the Alaska Range and adjacent area: U. S. Geological Survey Bulletin 989-D, p. 65-218.
- Moore, E. A., 1962, Configuration of the surface velocity profile of Gulkana Glacier, central Alaska Range, Alaska: unpublished Masters Thesis, University of Alaska, 47 p.
- Mulligan, J. J., 1974, Mineral resources of the trans-Alaska pipeline corridor: U. S. Bureau of Mines Information Circular 8626, 24 p.
- Nauman, J. W., and Kernodle, D. R., 1973, Field water-quality information along the proposed trans-Alaska pipeline corridor, September 1970 through September 1972: U. S. Geological Survey Open-File Report 582, 22 p.
- Nauman, J. W., and Kernodle, D. R., 1974, Aquatic organisms from selected sites along the proposed trans-Alaska pipeline corridor, September 1970 to September 1972: U. S. Geological Survey Open-File Report, 23 p.
- Nauman, J. W., and Kernodle, D. R., 1975, Water-quality changes during a salmon run in an interior Alaska stream: U. S. Geological Survey Journal of Research, v. 3, no. 1, p. 103-106.
- Nauman, J. W., and Kernodle, D. R., 1977, Aquatic organisms from selected sites along the trans-Alaska pipeline corridor, September 1970 to September 1972: U. S. Geological Survey Open-File Report 77-634, 55 p.
- Nelson, G. L., 1978, Geohydrology of the Delta-Clearwater area, in Johnson, K. M., ed., The United States Geological Survey in Alaska—Accomplishments during 1977: U. S. Geological Survey Circular 772-B, p. B38.

MOUNT HAYES QUADRANGLE

- Nielson, L. E., 1968, Some hypothesis on surging glaciers: Geological Society of America Bulletin, v. 79, no. 9, p. 1195-1201.
- Nielson, L. E., and Post, A. S., 1953, The Castner Glacier Region, Alaska: Journal of Glaciology, v. 2, p. 277-280.
- Nokleberg, W. J., Albert, N. R. D., Herzon, P. L., and Zehner, R. E., 1980, Accreted andean-type arc and island-arc terranes in southern Mount Hayes Quadrangle, Alaska [abs.]: Geological Society of America Abstracts with Programs, Cordilleran Section, v. 12, no. 3, p. 145.
- Nokleberg, W. J., Albert, N. R. D., and Zehner, R. E., 1979, The ophiolite of Tangle Lakes in the southern Mount Hayes quadrangle, eastern Alaska Range: An accreted terrane? in Johnson, K. M., and Williams, J. R., eds., 1979, The United States Geological Survey in Alaska--Accomplishments during 1978: U. S. Geological Survey Circular 804-B, p. B96-B97.
- Ostenso, N. A., 1955, Gravity studies of Jarvis Glacier, Alaska Range [abs.]: Geological Society of America Bulletin, v. 66, no. 12, p. 1707.
- Ostenso, N. A., and Holmes, G. W., 1962, Gravimetric determinations of ice thickness of Jarvis Glacier, Alaska, in Geological Survey research 1962: U. S. Geological Survey Professional Paper 450-C, p. C93-C96.
- Ostenso, N. A., Sellmann, P. V., and Pewe, T. L., 1965, Bottom topography of Gulkana Glacier, Alaska Range [abs.]: Geological Society of America Special Paper 82, p. 145-146.
- Overstreet, W. C., 1967, The geologic occurrence of monazite: U. S. Geological Survey Professional Paper 530, 327 p.
- Overstreet, W. C., Crenshaw, G. L., Hubert, A. E., Rosenblum, Sam, and Smith, R. J., 1975, Experimental results of atomic absorption analyses for indium and thallium in 803 nonmagnetic concentrates from Alaska: U. S. Geological Survey Open-File Report 75-253, 78 p.
- Overstreet, W. C., Hamilton, J. C., Boerngen, J. G., Rosenblum, Sam, Marsh, W. R., and Sainsbury, C. L., 1975, Minor elements in nonmagnetic concentrates from Alaska: National Technical Information Service PB-238 989/AS, 440 p.
- Packer, D. R., Brogan, G. E., and Stone, D. B., 1975, New data on plate tectonics of Alaska, in Pavoni, N., and Green, R., eds.,

MOUNT HAYES QUADRANGLE

- Recent Crustal Movements: Tectonophysics, v. 29 (1-4), p. 87-102
- Page, R. A., 1971, Microearthquakes on the Denali fault near the Richardson Highway, Alaska [abs.]: EOS Transactions of the American Geophysical Union, v. 52, p. 278.
- Page, R. A., 1972, Crustal deformation on the Denali fault, Alaska, 1942-1970: Journal of Geophysical Research, v. 77, p. 1528-1533.
- Petocz, R. G., 1967, Preliminary observations on Fusilinidae from the east-central Alaska Range: Journal of Paleontology, v. 41, p. 1547-1549.
- Petocz, R. G., 1970, Biostratigraphy and lower Permian Fusilinidae of the upper Delta River area, east-central Alaska Range, Alaska: Geological Society of America Special Paper 130, 94 p.
- Pewe, T. L., 1951, Recent history of the Black Rapids Glacier, Alaska: Geological Society of America Bulletin, v. 62, no. 12, pt. 2, p. 1558.
- Pewe, T. L., 1952, Preliminary report of multiple glaciation in the Big Delta area, Alaska [abs.]: Geological Society of America Bulletin, v. 63, no. 12, p. 1289.
- Pewe, T. L., 1953, Big Delta area, Alaska, in Pewe, T. L., et. al., Multiple glaciation in Alaska: U. S. Geological Survey Circular 289, p. 8-10.
- Pewe, T. L., 1955, Origin of the upland silt near Fairbanks, Alaska: Geological Society of America Bulletin, v. 66, no. 6, p. 699-724.
- Pewe, T. L., 1957, Recent history of Canwell and Castner glaciers, Alaska [abs.]: Geological Society of America Bulletin, v. 68, no. 12, pt. 2, p. 1779.
- Pewe, T. L., 1961, Multiple glaciation in the headwaters area of the Delta River, central Alaska, in Geological Survey research 1961: U. S. Geological Survey Professional Paper 424-D, p. D200-D201.
- Pewe, T. L., 1961, University of Alaska Gulkana Glacier Expedition, 1960: Arctic, v. 14, p. 236-237.
- Pewe, T. L., 1963, Glaciology and glacial geology studies of Gulkana Glacier, Alaska [abs.]: Geological Society of America Special Paper 73, p. 290.

MOUNT HAYES QUADRANGLE

- Pewe, T. L., 1963, University of Alaska Gulkana Glacier project, 1962: Arctic, v. 16, p. 46-47.
- Pewe, T. L., 1975, Quaternary geology of Alaska: U. S. Geological Survey Professional Paper 835, 145 p.
- Pewe, T. L., 1975, Quaternary stratigraphic nomenclature in unglaciated central Alaska: U. S. Geological Survey Professional Paper 862, 32 p.
- Pewe, T. L., Burbank, Lawrence, and Mayo, L. R., 1967, Multiple glaciation in the Yukon-Tanana Upland, Alaska: U. S. Geological Survey Miscellaneous Geological Investigations Map I-507, 1 sheet, scale 1:500,000.
- Pewe, T. L., Church, R. E., and Andreson, M. J., 1969, Origin and paleoclimatic significance of large-scale patterned ground in the Donnelly Dome area, Alaska: Geologic Society of America Special Paper no. 103, 87 p.
- Pewe, T. L., Ferrians, O. J., Jr., Nichols, D. R., and Karlstrom, T. N. V., 1965, Central and south-central Alaska: INQUA Guidebook for field conference F, Nebraska Academy of Science, 141 p.
- Pewe, T. L., and Holmes, G. W., 1964, Geology of the Mt. Hayes D-4 quadrangle, Alaska: U. S. Geological Survey Miscellaneous Geological Investigations Map I-394, 2 sheets, scale 1:63,360.
- Pewe, T. L., and Taylor, L. W., 1953, Ablation measurements on Black Rapids Glacier, Alaska: American Geophysical Union Transactions, v. 34, p. 345.
- Pewe, T. L., and others, 1953, Multiple glaciation in Alaska, a progress report: U. S. Geological Survey Circular 289, 13 p.
- Plafker, G., Hudson, T., and Richter, D. H., 1977, Preliminary observations on late Cenozoic displacements along the Totschunda and Denali fault systems: U. S. Geological Survey Circular 751-B, p. B67-B69.
- Post, A. S., 1960, The exceptional advances of the Muldrow, Black Rapids and Susitna Glaciers: Journal of Geophysical Research, v. 65, p. 3703-3712.
- Post, Austin, 1967, Effects of the March 1964 Alaska earthquake on glaciers: U. S. Geological Survey Professional Paper 544-D, p. D1-D42

MOUNT HAYES QUADRANGLE

- Purington, C. W., 1905, Methods and costs of gravel and placer mining in Alaska: U. S. Geological Survey Bulletin 263, 273 p.
- Ragan, D. M., 1964, Structures at the base of an icefall on the Gulkana Glacier, eastern Alaska Range [abs.]: Geological Society of America Special Paper 76, p. 220-221.
- Ragan, D. M., 1966, An origin of foliation in glacial ice by shear, eastern Alaska Range [abs.]: Geological Society of America Special Paper 87, p. 132-133.
- Ragan, D. M., and Hawkins, J. W., Jr., 1965, Relict charnockitic rocks, granulite-facies gneisses and migmatites in a polymetamorphic complex, Gulkana Glacier region, eastern Alaska Range: Part 1, structure [abs.]: Geological Society of America Special Paper 82, p. 272.
- Ragan, D. M., and Hawkins, J., W., Jr., 1966, A polymetamorphic complex in the eastern Alaska Range: Geologic Society of America Bulletin, v. 77, no. 6, p. 597-604.
- Ragan, D. M., and Horlocker, Noel, 1963, Preliminary restudy of the Totatlanika Schist in the northern Alaska Range [abs.]: Geological Society of America Special Paper 73, p. 61.
- Reger, R. D., 1964, Recent glacial history of Gulkana and College Glaciers, central Alaska Range, Alaska: unpublished M. S. thesis, University of Alaska, 75 p., Journal of Geology, v. 76, no. 1, p. 2-76.
- Richter, D. H., 1966, Geology of the Slana District, south-central Alaska: Alaska Division of Mines and Minerals Geologic Report 21, 51 p.
- Richter, D. H., 1966, Upper Slana River-Mentasta Pass, eastern Alaska Range [abs.], in Alaska Division of Mines and Minerals, Report for the year 1966: Juneau, Alaska, p. 85-86.
- Richter, D. H., 1967, Geology of the upper Slana-Mentasta Pass area, south-central Alaska: Alaska Division of Mines and Minerals Geologic Report 30, 25 p.
- Richter, D. H., and Dutro, J. T., Jr., 1975, Revision of the type Mankomen Formation (Pennsylvanian and Permian), Eagle Creek area, eastern Alaska Range, Alaska: U. S. Geological Survey Bulletin 1395-B, p. B1-B25.

MOUNT HAYES QUADRANGLE

- Richter, D. H., and Jones, D. L., 1970, Structure and stratigraphy of eastern Alaska Range, Alaska [abs.], American Association of Petroleum Geologists Bulletin v. 54, no. 12, p. 2502.
- Richter, D. H., Sharp, W. N., Dutro, J. T., Jr., and Hamilton, W. B., 1977, Geologic map of parts of the Mount Hayes A-1 and A-2 quadrangles, Alaska: U. S. Geological Survey Miscellaneous Investigations Series Map I-1031, 1 sheet, scale 1:63,360.
- Rose, A. W., 1964, Rainy Creek, Delta River district [abs.], in Alaska Division of Mines and Minerals, Report for the year 1964: Juneau, Alaska, p. 44.
- Rose, A. W., 1964, Paxson, Chistochina district [abs.], in Alaska Division of Mines and Minerals, Report for the year 1964: Juneau, Alaska, p. 45.
- Rose, A. W., 1965, Amphitheater Mountains, central Alaska Range [abs.], in Alaska Division of Mines and Minerals, Report for the year 1965: Juneau, Alaska, p. 67-68.
- Rose, A. W., 1965, Eureka Creek, central Alaska Range [abs.], in Alaska Division of Mines and Minerals, Report for the year 1965: Juneau, Alaska, p. 68-69.
- Rose, A. W., 1965, Geology and mineral deposits of the Rainy Creek area, Mt. Hayes quadrangle, Alaska: Alaska Division of Mines and Minerals Geologic Report 14, 51 p.
- Rose, A. W., 1966, Geology of part of the of Amphitheater Mountains, Mt. Hayes quadrangle, Alaska: Alaska Division of Mines and Minerals Geologic Report 19, 14 p.
- Rose, A. W., 1966, Geological and geochemical investigations in the Eureka Creek and Rainy Creek areas, Mt. Hayes quadrangle, Alaska: Alaska Division of Mines and Minerals Geologic Report 20, 36 p.
- Rose, A. W., 1966, Upper Chistochina River, eastern Alaska Range [abs.], in Alaska Division of Mines and Minerals, Report for the year 1966: Juneau, Alaska, p. 84.
- Rose, A. W., 1967, Geology of the upper Chistochina River area, Mt. Hayes quadrangle, Alaska: Alaska Division of Mines and Minerals Geologic Report 28, 39 p.
- Rose, A. W., and Saunders, R. H., 1965, Geology and geochemical investigations near Paxson, northern Copper River Basin, Alaska: Alaska Division of Mines and Minerals Geologic Report 13, 35 p.

MOUNT HAYES QUADRANGLE

- Ross, C. P., 1933. The Valdez Creek mining district: U. S. Geological Survey Bulletin 849-H, p. 425-468.
- Rowett, C. L., 1969, Upper Paleozoic stratigraphy and corals from the east-central Alaska Range, Alaska: Arctic Institute of North America Technical Paper 23, 80 p. + 13 pl.
- Rowett, C. L., 1969, Upper Paleozoic stratigraphy and fossil corals from the east-central Alaska Range, Alaska: Arctic Institute of North America Technical Paper 22, 120 p.
- Rowett, C. L., 1975. Stratigraphic distribution of Permian corals in Alaska: U. S. Geological Survey Professional Paper 823-D, p. 59-75.
- Rutter, N. W., 1961, Foliation and other structures of Gulkana Glacier, Central Alaska: unpublished Masters Thesis, University of Alaska, 51 p.
- Rutter, N. W., 1962, Foliation of Gulkana Glacier, central Alaska Range, Alaska [abs.]: Geological Society of America Special Paper 68, p. 119-120.
- Saunders, R. H., 1961, Susitna-Maclaren area, in Alaska Division of Mines and Minerals, Report for the year 1961: Juneau, Alaska, p. 37-40.
- Saunders, R. H., 1967, Mineral occurrences in the Yukon-Tanana region, Alaska: Alaska Division of Mines and Minerals Special Report 2, 58 p.
- Schrader, F. C., and Spencer, A. C., 1901, The geology and mineral resources of a portion of the Copper River district, Alaska: U. S. Geological Survey Special Publication, 94 p.
- Scully, D. R., Leveen, L. S., and George, R. S., 1978, Surface water records of Cook Inlet basin, Alaska, through September 1975: U. S. Geological Survey Open-File Report 78-498, 102 p.
- Sellmann, P. V., 1962, Flow and ablation of Gulkana Glacier, Alaska: unpublished Masters Thesis, University of Alaska, 36 p.
- Sellmann, P. V., 1962, Preliminary report on the ablation and flow, Gulkana Glacier, central Alaska Range, Alaska [abs.]: Geological Society of America Special Paper 68, p. 120.
- Shacklette, H. T., 1965, Bryophytes associated with mineral deposits and solutions in Alaska: U. S. Geological Survey Bulletin 1198-C,

MOUNT HAYES QUADRANGLE

p. C1-C18.

- Sherwood, K. W., 1979, Stratigraphy, metamorphic geology, and structural geology of the central Alaska Range, Alaska, Phd dissertation, University of Wisconsin, microfilm.
- Sherwood, K. W., and Craddock, Campbell, 1979, General geology of the central Alaska Range between the Nenana River and Mount Deborah: Alaska Division of Geological and Geophysical Surveys Open-File Report 116, 22 p. + 3 pl., scale 1:63,360
- Sieh, K. E., and Cluff, L. S., 1975, Studies of recent displacements along the Denali fault, south-central Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 7, no. 3, p. 423.
- Skibitzke, H. E., 1977, Some aspects of remote sensing for consideration in planning environmental monitoring of the Alaska Pipeline, Alaska: U. S. Geological Survey Open-File Report 77-643, 32 p. + 9 sheets.
- Slatt, R. M., 1972, Geochemistry of meltwater streams from nine Alaskan glaciers: Geological Society of America Bulletin, v. 83, no. 4, p. 1125-1131.
- Sloan, C. E., 1976, Water-resource investigations of the Valdez-Delta Junction area, in Cobb, E. H., ed., The United States Geological Survey in Alaska: accomplishments during 1975: U. S. Geological Survey Circular 733, p. 47.
- Sloan, C. E., Zenone, Chester, and Mayo, L. R., 1975, Icings along the trans-Alaska pipeline route: U. S. Geological Survey Open-File Report 75-87, 39 p.
- Sloan, C. E., Zenone, Chester, and Mayo, L. R., 1976, Icings along the trans-Alaska pipeline route: U. S. Geological Survey Professional Paper 979, 31 p.
- Smith, P. S., 1926, Mineral industry of Alaska in 1924: U. S. Geological Survey Bulletin 783, p. 1-30.
- Smith, P. S., 1929, Mineral industry of Alaska in 1926: U. S. Geological Survey Bulletin 797, p. 1-50.
- Smith, P. S., 1930, Mineral industry of Alaska in 1927: U. S. Geological Survey Bulletin 810, p. 1-64.
- Smith, P. S., 1930, Mineral industry of Alaska in 1928: U. S. Geological Survey Bulletin 813, p. 1-72.

MOUNT HAYES QUADRANGLE

- Smith, P. S., 1932, Mineral industry of Alaska in 1929: U. S. Geological Survey Bulletin 824, p. 1-81.
- Smith, P. S., 1933, Mineral industry of Alaska in 1930: U. S. Geological Survey Bulletin 836, p. 1-83.
- Smith, P. S., 1933, Mineral industry of Alaska in 1931: U. S. Geological Survey Bulletin 844-A, p. 1-82.
- Smith, P. S., 1934, Mineral industry of Alaska in 1932: U. S. Geological Survey Bulletin 857-A, p. 1-91.
- Smith, P. S., 1934, Mineral industry of Alaska in 1933: U. S. Geological Survey Bulletin 864-A, p. 1-94.
- Smith, P. S., 1936, Mineral industry of Alaska in 1934: U. S. Geological Survey Bulletin 868-A, p. 1-91.
- Smith, P. S., 1937, Mineral industry of Alaska in 1935: U. S. Geological Survey Bulletin 880-A, p. 1-95.
- Smith, P. S., 1938, Mineral industry of Alaska in 1936: U. S. Geological Survey Bulletin 897-A, p. 1-107.
- Smith, P. S., 1939, Areal geology of Alaska: U. S. Geological Survey Professional Paper 192, 100 p.
- Smith, P. S., 1939, Mineral industry of Alaska in 1937: U. S. Geological Survey Bulletin 910-A, p. 1-113.
- Smith, P. S., 1939, Mineral industry of Alaska in 1938: U. S. Geological Survey Bulletin 917-A, p. 1-113.
- Smith, P. S., 1941, Fineness of gold from Alaska placers: U. S. Geological Survey Bulletin 910-C, p. 147-272.
- Smith, P. S., 1941, Mineral industry of Alaska in 1939: U. S. Geological Survey Bulletin 926-A, p. 1-106.
- Smith, P. S., 1942, Occurrences of molybdenum minerals in Alaska: U. S. Geological Survey Bulletin 926-C, p. 161-210.
- Smith, P. S., 1942, Mineral industry of Alaska in 1940: U. S. Geological Survey Bulletin 933-A, p. 1-102.
- Smith, S. S., 1917, The mining industry in the Territory of Alaska during the calendar year 1916: U. S. Bureau of Mines Bulletin 153, 89 p.

MOUNT HAYES QUADRANGLE

- Smith, T. E., 1972, Bedrock geology of the Mt. Hayes A-6 quadrangle, in Alaska Division of Geological Survey, Annual Report 1971: Anchorage, Alaska, p. 28-31.
- Smith, T. E., 1974, Regional geology of the Susitna-Maclaren River area, central Alaska, in Alaska Division of Geological and Geophysical Surveys Annual Report, 1973, p. 3-6.
- Smith, T. E., Kline, G. L., Kline, J. T., and Coursey, N. D., 1975, Analyses of stream-sediment samples, Mt. Hayes B-6 quadrangle, south-central Alaska: Alaska Division of Geological and Geophysical Surveys Open-File Report AOF-70, index map and table.
- Smith, T. E., and Lanphere, M. A., 1971, Age of the sedimentation, plutonism and regional metamorphism in the Clearwater Mountains region, Central Alaska: Isochron/West, no. 2, August 1971, p. 17-20.
- Smith, T. E., Tribble, T. C., and Stein, D. R., 1972, Preliminary results of stream sediment sampling, upper Maclaren River area, south-central Alaska: Alaska Division of Geological Survey Miscellaneous Paper 2, 6 p.
- Smith, T. E., Tribble, T. C., and Stein, D. R., 1973, Analyses of rock and stream-sediment samples, Mt. Hayes A-6 quadrangle, south-central Alaska: Alaska Division of Geological Surveys Geochemical Report 26, 2 sheets.
- Smith, T. E., and Turner, D. L., 1973, Geochronology of the Maclaren metamorphic belt, south-central Alaska, A progress report: Isochron/West, no. 7, p. 21-25.
- Smith, T. E., and Turner, D. L., 1974, Maclaren metamorphic belt of central Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 6, no. 3, p. 257.
- Stephens, C. D., Lahr, J. C., Fogleman, K. A., Allan, M. A., and Helton, S. M., 1979, Catalog of earthquakes in southern Alaska, January-March 1978: U. S. Geological Survey Open-File Report 79-718, 31 p.
- Stewart, B. D., 1921, Annual report of the Territorial Mine Inspector to the Governor of Alaska, 1920: Juneau, Alaska, 72 p.
- Stewart, B. D., 1933, Mining investigations and mine inspection in Alaska, including assistance to prospectors, biennium ending March 31, 1933: Juneau, Alaska, 192 p.

MOUNT HAYES QUADRANGLE

- Stewart, B. D., and Dyer, B. W., 1922, Annual report of the Territorial Mine Inspector to the Governor of Alaska, 1921: Juneau, Alaska, 96 p.
- Stout, J. H., 1965, Bedrock geology between Rainy Creek and the Denali Fault, Eastern Alaska Range, Alaska: Unpublished M. S. thesis, University of Alaska, 75 p.
- Stout, J. H., 1972, Regional metamorphism and structure along the Denali fault, east-central Alaska Range [abs.]: Geological Society of America Abstracts with Programs, v. 4, no. 7, p. 678.
- Stout, J. H., 1975, Summary of stream-sediment samples, Mt. Hayes A-4, A-5, B-4, and B-5 quadrangles, Alaska: Alaska Division of Geological and Geophysical Surveys Open-File Report AOF-68, 5 p. + map, tables.
- Stout, J. H., 1976, Geology of the Eureka Creek area, east-central Alaska Range: Alaska Division of Geological and Geophysical Surveys Geologic Report 46, 32 p.
- Stout, J. H., Brady, J. B., and Callender, Jonathan, 1972, Quaternary movement on the Denali fault in the Delta River area, Alaska, [abs.]: Geological Society of America Abstracts with Programs, v. 4, no. 3, p. 243.
- Stout, J. H., Brady, J. B., Weber, F., and Page, R. A., 1973, Evidence for Quaternary movement on the McKinley strand of the Denali Fault in the Delta River area, Alaska: Geological Society of America Bulletin, v. 84, p. 939-947.
- Taber, Stephen, 1943, Perennially frozen ground in Alaska: Its origin and history: Geological Society of America Bulletin, v. 54, no. 10, p. 1433-1548.
- Taber, Stephen, 1958, Complex origin of silts in the vicinity of Fairbanks, Alaska: Geological Society of America Bulletin, v. 69, no. 1, p. 131-136.
- Tangborn, W. V., Mayo, L. R., Scully, D. R., and Krimmel, R. M., 1977, Combined ice and water balances of Maclure Glacier, California, South Cascade Glacier, Washington, and Wolverine and Gulkana Glaciers, Alaska, 1967 hydrologic year: U. S. Geological Survey Professional Paper 715-B, p. B1-B19 + 4 pl.
- Toenges, A. L., and Jolley, T. R., 1949, Investigation of coal deposits in south-central Alaska and the Kenai Peninsula: U. S. Bureau of Mines Report of Investigations 4520, 37 p.

MOUNT HAYES QUADRANGLE

- Trabant, D. C., 1976, Alaska glaciology studies, in Cobb, E. H., ed., The United States Geological Survey in Alaska: accomplishments during 1975: U. S. Geological Survey Circular 733, p. 45-47.
- Trabant, D. C., 1976, Glacier along TAPS route, in Cobb, E. H., ed., The United States Geological Survey in Alaska: accomplishments during 1975: U. S. Geological Survey Circular 733, p. 47.
- Turner, D. L., Grybeck, Donald, and Wilson, F. H., 1975, Radiometric dates from Alaska--A 1975 compilation: Alaska Division of Geological and Geophysical Surveys Special Report 10, 64 p.
- Turner, D. L., and Smith, T. E., 1974, Geochronology and generalized geology of the central Alaska Range, Clearwater Mountains and northern Talkeetna Mountains: Alaska Division of Geological and Geophysical Surveys Open-File Report AOF-72, 10 p. + map.
- Turner, D. L., Smith, T. E., and Forbes, R. B., 1974, Geochronology of offset along the Denali fault system in Alaska [abs.]: Geological Society of America Abstracts with Programs, v. 6, no. 3, p. 268-269.
- U. S. Army Corps of Engineers, 1953, Terrain and construction materials, Denali area, Alaska: Department of the Army Engineering Intelligence Study 248, 57 p. + maps.
- U. S. Army Corps of Engineers, 1960, Terrain study of the Delta River region, Alaska: Department of the Army Engineering Intelligence Study 264, 46 p. + maps.
- U. S. Army Corps of Engineers, 1960, Terrain study of the Exercise Freeze area, Copper River Basin, Alaska: Department of the Army Engineering Intelligence Study 292, Wash, D. C., 87 p. + maps.
- U. S. Bureau of Mines, 1973, Alaska 1:250,000 scale quadrangle map overlays showing mineral deposit locations, principle minerals, and number and types of claims: U. S. Bureau of Mines Open-File Report 20-73.
- U. S. Geological Survey, 1899, Maps and descriptions of routes of exploration in Alaska in 1898, with general information concerning the Territory: U. S. Geological Survey Special Publication, 138 p.
- U. S. Geological Survey, 1903, Investigations in Alaska, in U. S. Geological Survey: U. S. Survey 24th Annual Report, p. 78-107.

MOUNT HAYES QUADRANGLE

- U. S. Geological Survey, 1961, Geological Survey research, 1961: Synopsis of geologic and hydrologic results; U. S. Geological Survey Professional Paper 424-A, p. A1-A194.
- U. S. Geological Survey, 1964, Geological Survey research 1964: U. S. Geological Survey Professional Paper 501-A, p. A1-A367 [Mt. Hayes Quadrangle p. A119].
- U. S. Geological Survey, 1967, Geological Survey research 1967: U. S. Geological Survey Professional Paper 575-A, p. A1-A377 [Mt. Hayes Quadrangle p. A188].
- U. S. Geological Survey, 1968, Geological Survey research 1968: U. S. Geological Survey Professional Paper 600-A, p. A1-A371 [Mt. Hayes Quadrangle p. 116].
- U. S. Geological Survey, 1969, Geological Survey research 1969: U. S. Geological Survey Professional Paper 650-A, p. A1-A425 [Mt. Hayes Quadrangle p. A1, A51].
- U. S. Geological Survey, 1969, U. S. Geological Survey heavy metals program progress reports, 1968 - Field studies: U. S. Geological Survey Circular 621, 35 p.
- U. S. Geological Survey, 1972, Geological Survey research 1972: U. S. Geological Survey Professional Paper 800-A, p. A1-A320 [Mt. Hayes Quadrangle p. A53, A125].
- U. S. Geological Survey, 1973, Geological Survey research 1973: U. S. Geological Survey Professional Paper 850, 366 p. [Mt. Hayes Quadrangle p. 68-70].
- U. S. Geological Survey, 1973, Newly defined metamorphic belt in south-central Alaska in Alaska Division of Geological Survey Alaska Program, 1973: U. S. Geological Survey Circular 683, p. 45-46.
- U. S. Geological Survey, 1973, The Denali fault offset problem, in U. S. Geological Survey in Alaska Program, 1973: U. S. Geological Survey Circular 683, p. 46.
- U. S. Geological Survey, 1973, United States Geological Survey Alaska program, 1973: U. S. Geological Survey Circular 683, 56 p.
- U. S. Geological Survey, 1974, Geological Survey research 1974: U. S. Geological Survey Professional Paper 900, 349 p. [Mt. Hayes Quadrangle p. 150].

MOUNT HAYES QUADRANGLE

- U. S. Geological Survey, 1975, Geological Survey research 1975: U. S. Geological Survey Professional Paper 975, 373 p. [Mt. Hayes Quadrangle p. 67].
- U. S. Geological Survey, 1976, Geological Survey research 1976: U. S. Geological Survey Professional Paper 1000, 414 p. [Mt. Hayes Quadrangle p. 214].
- U. S. Geological Survey, 1977, Geological Survey research 1977: U. S. Geological Survey Professional Paper 1050, 411 p. [Mt. Hayes Quadrangle p. 191].
- Wahrhaftig, Clyde, and Hickox, C. A., 1955, Geology and coal deposits, Jarvis Creek Coal field, Alaska: U. S. Geology Survey Bulletin 989-G, p. 353-367.
- Wahrhaftig, Clyde, Turner, D. L., Weber, F. R., and Smith, T. E., 1975, Nature and timing of movement on the Hines Creek strand of the Denali Fault system, Alaska: *Geology*, v. 3, no. 8, p. 463-466.
- Waller, R. M., 1962, Ground-water movement in the Fort Greely area, Alaska [abs.]: Geological Society of America Special Paper 68, p. 123.
- Warfield, R. S., 1973, Rotary drilling for strippable coal in the Jarvis Creek coalfield, Alaska: U. S. Bureau of Mines Open-File Report 7-73, 32 p.
- Weber, F. R., 1971, Preliminary engineering geologic maps of the proposed trans-Alaska pipeline route, Mt. Hayes quadrangle: U. S. Geological Survey Open-File Map 493, 2 sheets, scale 1:125,000.
- Weber, F. R., and Turner, D. L., 1977, A late Tertiary thrust fault in the central Alaska Range, in Blean, K. M., ed., *The United States Geological Survey in Alaska: accomplishments during 1976*: U. S. Geological Survey Circular 751-B, p. B66-B67.
- Wedow, Helmuth, Jr., Killeen, P. L., and others, 1954, Reconnaissance for radioactive deposits in eastern interior Alaska, 1946: U. S. Geological Survey Circular 331, 36 p.
- Weller, J. M., Williams, J. S., Bell, W. A., Dunbar, C. O., Laudon, L. R., Moore, R. C., Stockdale, W. B., Warren, P. S., Caster, K. E., Cooper, C. L., Willard, Bradford, Croneis, Carey, Mallot, C. A., Price, P. H., and Sutton, A. H., 1948, Correlation of the Mississippian formations of North America: *Geological Society of America Bulletin*, v. 59, no. 2, p. 91-196.

MOUNT HAYES QUADRANGLE

- Wells, R. R., 1956, Laboratory concentration of various Alaska copper ores: U. S. Bureau of Mines Report of Investigations 5245, 9 p.
- White, M. G., Nelson, A. E., and Matzko, J. J., 1963, Radiometric investigations along the Taylor Highway and part of the Tanana River, Alaska: U. S. Geological Survey Bulletin 1155, p. 77-82.
- Williams, J. S., 1947, Permian rocks of the upper Yukon region, Alaska [abs.]: Geological Society of America Bulletin, v. 58, no. 12, p. 1241.
- Wilson, F. H., 1976, Map showing potassium-argon ages from the Big Delta quadrangle, Alaska: U. S. Geological Survey Open-File Report 76-436, 1 sheet, scale 1:250,000.
- Wilson, F. H., and Turner, D. L., 1975, Radiometric age map of Alaska--south-central Alaska: Alaska Division of Geological and Geophysical Surveys Open-File Report AOF-85, 12 p. + map.
- Wimmler, N. L., 1923, Placer mining in Alaska in 1922, in Stewart, B. D., Annual report of the Mine Inspector to the Governor of Alaska, 1922: Juneau, Alaska, p. 23-56.
- Wimmler, N. L., 1924, Placer mining in Alaska in 1923, in Stewart, B. D., Annual report of the Mine Inspector to the Governor of Alaska, 1923: Juneau, Alaska, p. 14-54.
- Yeend, Warren, 1980, Placer gold deposits, Mount Hayes Quadrangle, Alaska [abs.]: Geological Society of America, v. 12, no. 3, p. 161.