

Bibliography of the U.S. Bureau of Mines' Publications on Idaho, 1919-1979

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BIBLIOGRAPHY OF THE U.S. BUREAU OF MINES'
PUBLICATIONS IN IDAHO, 1919-1979

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PUBLICATIONS ON IDAHO, 1919--1979

by

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INTRODUCTION

The following U. S. Bureau of Mines' sources were used in compiling this bibliography:

Bureau of Mines Special Publications

*SP 1 (1910-1960); SP 1-66 (1960-1964); SP 1-70 (1965-1969);
SP 6-75 (1970-1974); SP 10-77 (1976); SP 2-79 (1977); SP 1-80
(1978), and the*

*Bureau of Mines Monthly List of New Publications, nos. 765-790
(1979-1981).*

This bibliography lists by the order of publication number the following U. S. Bureau of Mines' publications which deal specifically with Idaho: *Bulletins, Cooperative Publications with the U. S. Geological Survey, Information Circulars, Mineral Industry Surveys, Mineral Yearbook Chapters, Open-File Reports, Outside Publications, Reports of Investigations, State Mineral Profiles, and Technical Papers.*

Information on ordering publications other than Open-File Reports can be obtained from:

Branch of Production and Distribution
Division of Publication
U. S. Bureau of Mines
4800 Forbes Avenue
Pittsburgh, PA 15213
(412) 621-4500

U. S. Bureau of Mines' Open-File Reports can be obtained from:

National Technical Information Service
U. S. Department of Commerce
Springfield, VA 22161
(202) 487-4650

Libraries maintaining a file of U. S. Bureau of Mines' publications are the best sources for reports published by the Bureau, especially when the

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publications are out of print (indicated in this bibliography by an asterisk*) or copies are no longer available from the Bureau or NTIS. The following libraries in Idaho are repositories for U. S. Bureau of Mines' publications:

Boise Public Library and Information Center, Boise
 Boise State University Library, Boise
 College of Idaho, Terteling Library, Caldwell
 College of Southern Idaho Library, Twin Falls
 Idaho State Law Library, Boise
 Idaho State Library, Boise
 Idaho State University Library, Pocatello
 Ricks College, David O. McKay Library, Rexburg
 University of Idaho, College of Law Library, Moscow
 University of Idaho Library, Moscow

The publications and reports of the U. S. Bureau of Mines on Idaho from 1919 through 1979 are listed as follows:

BULLETINS

- *B 127. Gold dredging in the United States, by Charles Janin, 1918, 226 p., 63 plates.
- *B 166. A preliminary report on the mining districts of Idaho, by Thomas Varley, C. A. Wright, E. K. Soper, and D. C. Livingston, in cooperation with the University of Idaho, 1919, 113 p.
- *B 205. Flotation tests of Idaho ores, by C. A. Wright, J. G. Parmelee, and J. T. Norton, 1921, 70 p.
- *B 363. Gold mining and milling in the United States and Canada, current practices and costs, by C. F. Jackson and J. B. Knaebel, 1932, 151 p.
- *B 381. Lead and zinc mining and milling in the United States, current practices and costs, by C. F. Jackson, J. B. Knaebel, and C. A. Wright, 1935, 204 p.
- *B 390. Stoping methods and costs, by C. F. Jackson and E. D. Gardner, 1936, 296 p.
- *B 460. Diatomites of the Pacific Northwest as filter-aids, by K. G. Skinner, A. A. Dammann, R. E. Swift, G. B. Eyerly, and G. R. Shuck, Jr., 1944, 87 p.

COOPERATIVE PUBLICATIONS WITH THE U. S. GEOLOGICAL SURVEY

- GS 5-70. Mineral resources of the Sawtooth Primitive Area, Idaho, by T. H. Kiilsgaard, V. L. Freeman, and J. S. Coffman, 1970. U. S. Geological Survey Bulletin 1319-D, 174 p.
- GS 4-72. Mineral resources of the Salmon River Breaks Primitive Area, Idaho, by P. L. Weis, L. J. Schmitt, Jr., and E. T. Tuckek, with a section on aeromagnetic survey by W. E. Davis, 1972, 91 p. U. S. Geological Survey Bulletin 1353-C.
- GS 1-73. Mineral resources of the Idaho Primitive Area and vicinity, Idaho, by F. W. Cater, D. M. Pinckney, W. B. Hamilton, R. L. Parker, R. D. Weldin, T. J. Close, and N. T. Zilka, with a section on the Thunder Mountain district by B. F. Leonard, and a section on aeromagnetic interpretation by W. E. Davis, 1973, 431 p. U. S. Geological Survey Bulletin 1304.
- GS 4-75. Mineral resources of the Clear Creek-Upper Big Deer Creek Study Area, contiguous to the Idaho Primitive Area, Lemhi County, Idaho, by F. W. Cater, D. M. Pinckney, and R. B. Stotelmeyer, 1975, 41 p. U. S. Geological Survey Bulletin 1391-C.

INFORMATION CIRCULARS

- *IC 6026. Reduction mills in Idaho in 1925, by C. N. Gerry, 1927, 29 p.
- *IC 6063. Mine rescue organization in the Coeur d'Alene mining district, Idaho, by W. J. Fene and Hugh McDermont, 1928, 4 p.
- *IC 6232. Mining methods and costs at the Hecla and Star mines, Burke, Idaho, by C. H. Foreman, 1930, 21 p.
- *IC 6238. Mining methods at the Morning mine of the Federal Mining & Smelting Company, Mullan, Idaho, by C. E. Wethered and L. J. Coady, 1930, 13 p.
- *IC 6240. Mining practice at Harmony Mines Company, Baker, Idaho, by R. D. Gardner, 1930, 8 p.
- *IC 6285. Milling methods and costs at the Harmony mines, Baker, Idaho, by R. D. Gardner, 1930, 18 p.

- *IC 6314. Milling methods and costs at the northern Idaho mills of the Bunker Hill & Sullivan Mining and Concentrating Company, by R. S. Handy, 1930, 53 p.
- *IC 6372. Mining methods at the Page mine of the Federal Mining & Smelting Company, Page, Idaho, by J. E. Berg, 1930, 8 p.
- IC 6382. Mine ventilation in the Coeur d'Alene mining district, Idaho, by G. E. McElroy, 1931, 37 p.
- *IC 6407. Mining methods of the Bunker Hill & Sullivan Mining and Concentrating Company, Kellogg, Idaho, by U. E. Brown, 1931, 9 p.
- *IC 6587. Milling methods and costs at the Morning concentrator of the Federal Mining & Smelting Company, Mullan, Idaho, by M. P. Dalton, 1932, 11 p.
- *IC 6590. Milling methods and costs at the Page concentrator of the Federal Mining & Smelting Company, Kellogg, Idaho, by G. S. Price, 1932, 6 p.
- *IC 6600. Milling methods and costs at the lead concentrator of the Hecla Mining Company, Gem, Idaho, by W. L. Ziegler, 1932, 16 p.
- *IC 6823. Mining methods and costs at the mine of the St. Joseph Lead Company, Atlanta, Idaho, by E. D. Gardner, 1935, 7 p.
- *IC 6836. Milling methods and costs at the concentrator of the St. Joseph Lead Company, Atlanta, Idaho, by E. D. Gardner, 1935, 10 p.
- *IC 6876. Mineral industries survey of the United States--Idaho, Shoshone County, Coeur d'Alene district. The Silver Belt and the Sunshine mine of the Coeur d'Alene district, by C. E. Julihn and F. W. Horton, 1936, 16 p.
- *IC 6985. Gold mining and milling methods and costs at the Gold Hill mine of Talache Mines, Inc., Quartzburg, Idaho, by J. H. Skidmore, 1938, 15 p.
- *IC 7023. Reconnaissance of placer-mining districts in Idaho County, Idaho, by S. H. Lorain and O. H. Metzger, 1938, 93 p.
- *IC 7024. Mining and milling methods and costs of the Golden Anchor Mining Company, Burgdorf, Idaho, by S. H. Lorain and W. B. Davis, 1938, 15 p.
- *IC 7028. Reconnaissance of placer mining in Boise County, Idaho, by O. H. Metzger, 1938, 34 p.

- *IC 7039. Gold mining and milling in Idaho County, Idaho, by S. H. Lorain, 1938, 90 p.
- *IC 7082. Reconnaissance of placer-mining districts in Lemhi County, Idaho, by S. H. Lorain and O. H. Metzger, 1939, 81 p.
- IC 7194. Mining and milling methods and costs at the Yellow Pine mine, Stibnite, Idaho, by J. D. Bradley, 1942, 12 p.
- IC 7230. Methods and costs of concentrating hubnerite ores at the Ima tungsten mine, Lemhi County, Idaho, by C. M. Dice, 1943, 14 p.
- IC 7425. Methods and costs of sinking the Silver Summit shaft, Wallace, Idaho, using a mechanical mucking machine, by G. M. Grismer and R. J. Hundhausen, 1948, 12 p.
- IC 7426. Methods and costs of sinking a 2½-compartment shaft at the Hope mine, Clark Fork, Idaho, by R. J. Hundhausen, 1948, 13 p.
- IC 7428. Mining and milling methods and costs at the Little Pittsburg lead-zinc mine, Shoshone County, Idaho, by R. J. Hundhausen, 1948, 21 p.
- *IC 7443. Exploration, development, mining, and milling of a unique tungsten ore body at the Yellow Pine mine, Stibnite, Idaho, by J. W. Cole and H. D. Bailey, 1948, 24 p.
- IC 7525. Method and cost of driving the Rock Creek tunnel, Hecla Mining Company, Shoshone County, Idaho, by D. W. Butner, 1949, 5 p.
- IC 7529. Phosphate-rock mining in southeastern Idaho, by D. W. Butner, 1949, 18 p.
- IC 7560. Mining methods and costs at the Highland Surprise mine, Shoshone County, Idaho, by D. W. Butner, 1950, 11 p.
- IC 7649. Filling with unclassified tailing in modified cut-and-fill stopes, Dayrock mine, Wallace, Idaho, by P. H. Toepfer, 1952, 14 p.
- IC 7743. Mining methods and costs at the Morning mine, American Smelting & Refining Company, Shoshone County, Idaho, by J. R. Reynolds, 1956, 40 p.
- IC 7752. Ceramic industry development and raw material resources of Oregon, Washington, Idaho, and Montana, by H. J. Kelly, K. G. Strandberg, and J. I. Mueller, 1956, 77 p.
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- IC 7783. Methods and costs of deepening the Crescent shaft, Bunker Hill & Sullivan Mining and Concentrating Company, Kellogg, Shoshone County, Idaho, by E. B. Olds and E. W. Parsons, 1957, 19 p.
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- IC 7961. Methods and costs of shaft sinking in the Coeur d'Alene district, Shoshone County, Idaho, by J. R. McWilliams and E. G. Erickson, 49 p.
- IC 7964. Methods and costs of driving drifts, crosscuts, and raises in the Coeur d'Alene mining district, Shoshone County, Idaho, by G. T. Krempasky, 45 p.
- IC 8050. The Pacific Northwest ferroalloy industry, by G. A. Kingston, 1962, 26 p.
- IC 8159. Methods and costs of rock drilling at the Silver Summit mine, Hecla Mining Company, Shoshone County, Idaho, by D'Arcy Banister and H. R. Wellman, 19 p.
- IC 8207. Economic aspects of silver production in the Coeur d'Alene mining region, Shoshone County, Idaho, by F. B. Fulkerson, 1964, 20 p.
- IC 8381. Mineral transportation costs in the Pacific Northwest, methodology and application of a statistical analysis, by J. J. Gray, N. S. Petersen, and G. A. Kingston, 1968, 30 p.
- IC 8782. Multivariate analysis techniques with application in mining, by P. C. McWilliams and D. R. Tesarik, 1978, 40 p.

MINERAL INDUSTRY SURVEYS

The U. S. Bureau of Mines has published annually a short summary describing the mineral industry in Idaho for the years 1952 to 1980. This summary presents preliminary production figures for the state that are finalized in the *Minerals Yearbook Chapter* for Idaho published later.

MINERALS YEARBOOK CHAPTER

The U. S. Bureau of Mines annually prepares a chapter for the *Minerals Yearbook* describing the mineral industry in Idaho. These chapters are a complete record of mining in Idaho from 1924. The U. S. Geological Survey prepared similar chapters for a volume, entitled *Mineral Resources of the United States*, covering precious and base metals from 1907 through 1923 and gold and silver production from 1903 to 1906.

OPEN-FILE REPORTS

- OFR 5-71. Preliminary investigation of a low-grade gold deposit in Custer County, Idaho, by D. W. Lockard and W. L. Rice, 1970, 58 p.
- OFR 13-74. Solution to problems of pollution associated with mining in northern Idaho, by D. R. Ralston, B. D. Trexler, Jr., C. J. Wai, W. T. Renison, and F. E. Rickman, Jr., 1973, 99 p.
- OFR 46-75. Electromagnetic noise in Lucky Friday mine, by W. W. Scott, J. W. Adams, W. D. Bensema, and H. Dobroski, 1974, 129 p.

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- OP 85-73. Destressing test at the Galena mine, Wallace, Idaho, by Wilson Blake, Society of Mining Engineers, Transactions, A.I.M.E., v. 252, September 1972, p. 294-299.
- OP 93-73. Renovation of wastes by mine tailings ponds, by L. L. Mink, R. E. Williams, A. T. Wallace, and Lewis McNay, Mining Engineering, v. 25, no. 7, July 1973, p. 81-88.
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REPORTS OF INVESTIGATIONS

- *RI 2618. Hindered-settling classification in relation to table concentration of Idaho lead-zinc ores, by A. W. Fahrenwald, 1924, 1 p.
- *RI 2794. Some feldspathic materials of the Pacific Northwest, by Hewitt Wilson, 1927, 13 p.
- *RI 3088. Smelting in the lead blast furnace. Handling rich ores. VI. Conditions and problems introduced by increasing ratio of concentration, by G. L. Oldright and Virgil Miller, 1931, 7 p.
- *RI 3898. Exploration of the Avon mica district, Latah County, Idaho, by G. C. Reed, 1946, 23 p.
- *RI 3992. Clark Fork lead-zinc district, Bonner County, Idaho, by S. H. Lorain, 1946, 10 p.
- *RI 3999. Little Pittsburg lead-zinc mine, Shoshone County, Idaho, by J. A. Herdlick, 1947, 8 p.
- *RI 4012. Blackbird cobalt deposits, Lemhi County, Idaho, by G. C. Reed and J. A. Herdlick, 1947, 14 p.
- *RI 4133. Concentration of fluorite ores from Arizona, California, Idaho, Montana, Nevada and Wyoming, by J. V. Batty, H. D. Snedden, G. M. Potter, and B. K. Shibler, 1947, 29 p.
- *RI 4188. Sidney mine, Pine Creek area, Shoshone County, Idaho, by R. M. Gammell and R. J. Hundhausen, 1948, 11 p.
- RI 4209. BeVan quartz-crystal prospect, Lemhi County, Idaho, by J. A. Herdlick, 1948, 6 p.
- RI 4277. Investigation of the Hornsilver lead-zinc property, Butte County, Idaho, by R. N. Roby, 1948, 15 p.
- RI 4279. Concentration of copper-cobalt ores from the Blackbird district, Lemhi County, Idaho, by R. R. Wells, W. G. Sandell, H. D. Snedden, and T. F. Mitchell, 1948, 21 p.
- RI 4597. Experimental diamond core-drilling in the Phosphoria Formation in southeastern Idaho, by A. E. Long, 1949, 29 p.
- RI 4620. Laboratory concentration of mercury ores from Oregon, California, Idaho, and Nevada, by R. R. Wells, 1950, 19 p.

- RI 4884. Concentration of oxide manganese ores from the vicinity of Cleveland, Bannock County, Idaho, by K. C. Vincent and D. T. Holmes, 1952, 14 p.
- RI 4908. Beneficiation of Sherman pyromorphite lead ore, by P. H. Floyd, W. A. Stickney, and R. R. Wells, 1952, 14 p.
- RI 4950. Hermada antimony deposit, Elmore County, Idaho, by C. C. Popoff, 1953, 28 p.
- RI 5098. Beneficiation of western phosphate ores, by W. A. Stickney and R. R. Wells, 1955, 13 p.
- RI 5105. Beneficiation studies of columbium-tantalum-bearing minerals in alluvial black-sand deposits, by J. E. Shelton and W. A. Stickney, 1955, 16 p.
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- RI 5395. Ilmenite and other black-sand minerals in the Gold Fork placer deposit, Valley County, Idaho, by R. H. Storch, 1958, 15 p.
- RI 5396. Ilmenite and other black-sand minerals in the Deadwood placer deposit, Valley County, Idaho, by R. H. Storch, 1958, 15 p.
- RI 5431. Preliminary studies in chlorinating titaniferous slags from Idaho ilmenite, by M. M. Barr, H. L. Gilbert, and D. D. Harper, 1958, 14 p.
- RI 5763. Chlorination of an Idaho ilmenite, by E. C. Perkins, H. Dolezal, and R. S. Lang, 1961, 16 p.
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- RI 5916. Recovery of thorium from ores in Colorado, Idaho, and Montana, by S. R. Borrowman and J. B. Rosenbaum, 1962, 35 p.
- RI 6211. Physical and chemical properties of some Pacific Northwest halloysitic clays, by H. J. Kelly, G. J. Carter, and T. R. Rehm, 1963, 32 p.
- RI 6253. Installation and evaluation of precast mine supports: A progress report, by G. T. Krempasky, 1963, 32 p.
- RI 6319. Titanium placer deposits of Idaho, by R. H. Storch and D. C. Holt, 1963, 69 p.

- RI 6330. Bovill clay and sand deposit, Latah County, Idaho. Geology, mineralogy, and beneficiation tests, by H. J. Kelly, G. J. Carter, and G. H. Todd, 1963, 56 p.
- RI 6401. Statistical analysis of some sample and assay data from bedded deposits of the Phosphoria Formation in Idaho, by Scott Hazen, Jr., 1964, 29 p.
- RI 6413. Determination of principal stress directions through an analysis of rock joint and fracture orientations, Star mine, Burke, Idaho, by E. W. Gresseth, 1964, 43 p.
- RI 6747. In-situ measurements of rock deformation in a vein type deep mine (in two sections). 2. Analysis of measurements in the Star mine, Burke, Idaho, by G. G. Waddell, 1966, 47 p.
- RI 6751. Petrographic and flotation studies on the Meade Peak, Idaho, phosphate samples, by J. W. Town, 1966, 16 p.
- RI 6801. An evaluation of the western phosphate industry and its resources (in five parts). 3. Idaho, by A. L. Service, 1966, 201 p.
- RI 6887. Deep mine stress determinations using flatjack and borehole deformation methods, by R. W. Ageton, 1967, 25 p.
- RI 6930. Batch and continuous-circuit beneficiation of western phosphate ores, by J. W. Town, C. W. Clark, C. W. Sanders, and E. E. Sullivan, 1967, 42 p.
- RI 6997. Stress ellipsoid determination in a rock-burst-prone area at a 4,000-foot depth, Galena mine, Wallace, Idaho, by R. W. Ageton, 1967, 23 p.
- RI 7038. Load-displacement measurement in a backfilled stope of a deep vein mine, by D. R. Corson and W. R. Wayment, 1967, 51 p.
- RI 7148. Beryllium resources of Idaho, Washington, Montana, and Oregon, by E. C. Pattee, R. M. Van Noy, and R. D. Weldin, 1968, 169 p.
- RI 7205. Evaluation of phosphate fines from southeastern Idaho, by J. W. Town and P. E. Sanker, 1968, 9 p.
- RI 7417. Geochemical investigations for gold, antimony, and silver at Stibnite, Idaho, by D. P. Banister, 1970, 7 p.
- RI 7425. Investigation of a low-grade gold deposit in the Orogrande district, Idaho, by W. L. Rice, 1970, 14 p.

- RI 7426. Kyanite resources in the northwestern United States (in two sections). 1. An investigation of selected kyanite-group mineral deposits. 2. A market study for western kyanite ores, by Ronald Van Noy, N. S. Petersen, and J. J. Gray, 1970, 81 p.
- RI 7546. Field evaluation of hydraulic backfill compaction at the Lucky Friday mine, Mullan, Idaho, by D. R. Corson, 1971, 24 p.
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- RI 8374. Citrate-process pilot-plant operation at the Bunker Hill Company, by Laird Crocker, D. A. Martin, and W. I. Nissen, 1979, 77 p.
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- *TP 696. Analyses of Arizona, California, Idaho, Nevada, and Oregon coals, 1947, 83 p.