

Studies on Idaho's Geology and  
Minerals Released by the U.S. Bureau  
of Mines and the U.S. Geological  
Survey for 1985

Julie Gange

Technical Report 87-1  
1987

Idaho Geological Survey  
University of Idaho  
Moscow, Idaho 83844

STUDIES ON IDAHO'S GEOLOGY AND MINERALS  
RELEASED BY THE U.S. BUREAU OF MINES AND THE  
U.S. GEOLOGICAL SURVEY FOR 1985

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INTRODUCTION

The federal agencies studying the geology and minerals of Idaho are the U.S. Bureau of Mines and the U.S. Geological Survey.

U.S. Bureau of Mines' publications, other than Open-File Reports and Mineral Industry Surveys can be obtained from:

Branch of Production and Distribution  
Division of Publications  
U.S. Bureau of Mines  
4800 Forbes Avenue  
Pittsburgh, PA 15213  
Telephone: (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  
Telephone: (202) 487-4650

The "PB" number following the entry must be provided when ordering from NTIS.

U.S. Bureau of Mines' Mineral Industry Surveys may be obtained from:

Branch of Editorial Services  
Bureau of Mines  
U.S. Department of the Interior  
4900 LaSalle Road  
Avondale, MD 20782

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<sup>1</sup>Idaho Geological Survey, University of Idaho, Moscow, Idaho 83843.

U.S. Geological Survey's publications, other than Open-File Reports, can be obtained from:

Public Inquiries Office  
 U.S. Geological Survey  
 678 U.S. Courthouse  
 West 920 Riverside Avenue  
 Spokane, WA 99201  
 Telephone: (509) 456-2524

U.S. Geological Survey's Open-File Reports can be obtained from:

Open-File Services Section  
 Branch of Distribution  
 U.S. Geological Survey  
 Box 25425, Federal Center  
 Denver, CO 80225  
 Telephone: (303) 236-7476

#### SOURCES

Sources for this compilation were the monthly lists of new publications from the U.S. Bureau of Mines and the U.S. Geological Survey issued from January 1985 through June 1986.

#### U.S. BUREAU OF MINES

##### BULLETIN

B 675. Mineral facts and problems, 1985 edition, by staff, Bureau of Mines. 956 p.

##### INFORMATION CIRCULAR

IC 9060. Fluorspar availability--market economy countries and China: A minerals availability appraisal, by Catherine C. Kilgore, Sandra R. Kraemer, and James A. Bekkala. 57 p., 22 figs.

##### MINERAL INDUSTRY SURVEY

The mineral industry of Idaho in 1985 (annual, preliminary). 2 p.

##### MINERAL INSTITUTE REPORTS

MIR 3-85. Delineation of abandonment procedures for the Bunker Hill and Crescent Mines, Shoshone County, Idaho, by Kathleen M. Hampton. 64 p., 13 figs.

- MIR 4-85. Analysis of water movement in an underground lead-zinc mine, Coeur d'Alene mining district, Idaho, by Daniel L. Erikson. 115 p., 26 figs.
- MIR 5-85. Acid water implications for mine abandonment, Coeur d'Alene mining district, Idaho, by John A. Riley. 148 p., 25 figs.

#### OPEN-FILE REPORTS

- OFR 4-85. Copper, lead, zinc, gold, and silver waste disposal activities and practices in the United States, by Luis V. Coppa. 195 p., 47 figs.
- OFR 37-85. Analysis of recharge to an underground lead-zinc mine, Coeur d'Alene mining district, Idaho, by Joel A. Hunt. 91 p., 16 figs.
- OFR 62-85. Evaluation and demonstration of underhand stoping to control rock bursts, by D.D. Bush, W. Blake, and M.P. Board. 191 p., 76 figs.
- OFR 79-85. Strategic and critical materials program annual report, by R.E. Chaney. 281 p., 109 figs.

#### MINERAL LAND ASSESSMENT REPORTS

- MLA 28-85. Mineral resources of the Hell's Half Acre Wilderness study area (BLM No. ID-33-15), Bingham and Bonneville Counties, Idaho, by Phillip R. Moyle and Richard A. Winters. 21 p., 4 figs.
- MLA 46-85. Mineral resources of the Gooding City of Rocks study areas, Gooding County, Idaho, by Phillip R. Moyle. 49 p., 8 figs.
- MLA 48-85. Mineral resources of the Battle Creek Wilderness study area, Owyhee County, Idaho, by Richard A. Winters. 10 p., 2 figs.
- MLA 54-85. Mineral resources of the Deep Creek-Owyhee River study areas, Owyhee County, Idaho, by Donald O. Capstick and Alan R. Buehler. 14 p., 2 figs.
- MLA 59-85. Mineral resources of the Worm Creek Roadless study area, Bear Lake County, Idaho, by Richard L. Rains. 11 p., 2 figs.
- MLA 64-85. Mineral resources and occurrences in part of the Frank Church-River of No Return Wilderness, Custer, Idaho,

Lemhi and Valley Counties, Idaho, compiled by James Ridenour. 211 p., 29 figs.

MLA 68-85. Mineral resources of the Owyhee River Canyon Wilderness study area, Owyhee County, Idaho, by Peter N. Gabby. 15 p., 2 figs.

MLA 73-85. Mineral resources of the Juniper Creek study area, Owyhee County, Idaho, by Donald E. Graham. 9 p., 2 figs.

MLA 77-85. Mineral resources of the Little Owyhee River Wilderness study area, Owyhee County, Idaho, by Alan R. Buehler and Donald O. Capstick. 15 p., 2 figs.

#### REPORTS OF INVESTIGATIONS

RI 8927. Cobalt recovery from copper leach solutions, by T.H. Jeffers and M.R. Harvey. 12 p., 3 figs.

RI 8947. Vanadium extraction from Idaho mudstones, by M. Hayashi, I.L. Nichols, and J.L. Huiatt. 1985. 13 p., 7 figs.

RI 8972. Field measurement and finite-element modeling of circular and rectangular shaft shapes in the Coeur d'Alene mining district, Idaho, by Michael J. Beus and Samuel S.M. Chan. 23 p., 24 figs.

RI 8982. Hot acid leaching of vanadium from western phosphate beneficiation tailings, by D.G. Collins, J.H. Russell, and A.R. Rule. With an economic evaluation by Thomas A. Phillips. 18 p., 9 figs.

#### USBM STUDIES ON IDAHO PRIOR TO 1985

The following studies were not included in previous IGS Technical Report 86-4.

#### BULLETIN

B 1382-E. Gold in the Black Pine mining district, southeast Cassia County, Idaho, by B.T. Brady. 1984. p. E1-E15 (Reprint).

## MINERAL INDUSTRY SURVEY

The mineral industry of Idaho in 1984 (annual, preliminary). 2 p.

## OPEN-FILE REPORT

OFR 191-84. The effectiveness of organization and management training on safety and productivity in metal/non-metal underground mining, by Fred E. Fiedler, Cecil H. Bell, Jr., Martin N. Chemers, and Dennis Patrick. 1983. 296 p., 25 figs.

## PREPRINT FROM MINERALS YEARBOOK, 1983

The mineral industry of Idaho, by W.L. Rice, E.H. Bennett, and M.M. Miller. 11 p., 1 fig.

## U.S. GEOLOGICAL SURVEY

## BULLETINS

B 1656. Mississippian and Pennsylvanian stratigraphy in southwest Montana and adjacent Idaho, edited by W.J. Sando. 19 p.

B 1658 A-S. Symposium on the geology and mineral deposits of the Challis 1 degree by 2 degree quadrangle, Idaho, edited by D.H. McIntyre. 227 p.

## CIRCULAR

C 0949. USGS research on mineral resources, 1985; program and abstracts, edited by Kathleen Krafft. 72 p. Precious and base metal mineralization in the Coeur d'Alene district, Idaho, during Proterozoic metamorphism of the Belt Basin, by D.L. Leach, G.P. Landis, and A.H. Hofstra. p. 28-29. Metals in plants; exploration of the Red Mountain gold-bearing stockwork, Yellow Pine district, Idaho, by B.F. Leonard, J.A. Erdman, and D.M. McKown. p. 30.

## EARTHQUAKE INFORMATION BULLETIN

Earthquake Information Bulletin, v. 17, no. 3, May-June 1985. p. 81-120.



## HYDROLOGIC INVESTIGATIONS ATLAS

HA-0674. Hydrologic conditions at the Idaho National Engineering Laboratory, Idaho, 1979-1981 update, by B.D. Lewis and R.G. Jensen. Two sheets.

## MISCELLANEOUS FIELD INVESTIGATIONS

MF-0890. Geologic map of the Ireland Springs-Samaria area, southeastern Idaho and northern Utah, by L.B. Platt. Scale 1:48,000.

MF-1354-H. Map showing analysis of linear features in the Wallace 1 degree by 2 degree quadrangle, Idaho-Montana, by L.C. Rowan, and T.L. Purdy. Scale 1:250,000.

MF-1466-D. Map showing geochemistry of stream sediments in the Jerry Peak Wilderness study area, Custer County, Idaho, by J.E. Callahan, D.H. McIntyre, E.F. Cooley, and T.M. Cookro. Scale 1:50,000.

MF-1566-C. Geophysical maps of the Mount Naomi Roadless Area, Cache County, Utah, and Franklin County, Idaho, by D.R. Mabey.

MF-1619-A. Mineral resource potential map of the West and East Palisades Roadless Areas, Idaho and Wyoming, by S.S. Oriel, J.C. Antweiler, and D.W. Moore, U.S. Geological Survey; and J.R. Benham, U.S. Bureau of Mines; with contributions by D.R. Mabey, U.S. Geological Survey. Two sheets. Scale 1:50,000.

MF-1619-B. Geologic map of the West and East Palisades Roadless Areas, Idaho and Wyoming, by S.S. Oriel and D.W. Moore. Two sheets. Scale 1:50,000.

MF-1715. Geologic map and cross sections of the Caribou Mountain area, southeastern Idaho, by J.R. Huntsman and L.B. Platt. Scale 1:48,000.

MF-1773. Complete Bouguer gravity anomaly map of Idaho, compiled by Viki Bankey, Michael Webring, D.R. Mabey, and M.D. Kleinkopf, U.S. Geological Survey; and E.H. Bennett, Idaho Geological Survey. Scale 1:500,000.

MF-1812. Geologic map of the Hawkins quadrangle, Bannock County, Idaho, by L.D. Platt. Scale 1:24,000.

## MINERAL INVESTIGATIONS RESOURCE MAPS

- MR-0072. Maps showing selected geology and phosphate resources of the Stewart Flat quadrangle, Caribou County, Idaho, by P.D. Derkey, Ken Paul, Pamela Palmer, Mahasti Fakourbayat, N.J. Wotruba, Idaho Bureau of Mines and Geology; and David Hovland, U.S. Bureau of Land Management. Three sheets. Scale 1:24,000.
- MR-0074. Maps showing selected geology and phosphate resources of the Harrington Peak quadrangle, Bear Lake and Caribou Counties, Idaho, by P.D. Derkey, Bea Johnson, and Pamela Palmer, Idaho Bureau of Mines and Geology; and R.D. Hovland, Bureau of Land Management. Three sheets. Scale 1:24,000.
- MR-0075. Maps showing selected geology and phosphate resources of the Snowdrift Mountain quadrangle, Bear Lake and Caribou Counties, Idaho, by P.D. Derkey, Ken Paul, Bea Johnston, Pamela Palmer, Alexandra Zemanek, Mahasti Fakourbayat, Idaho Bureau of Mines and Geology; and R.D. Hovland, Bureau of Land Management. Three sheets. Scale 1:24,000.
- MR-0076. Maps showing selected geology and phosphate resources of the Meade Peak quadrangle, Bear Lake and Caribou Counties, Idaho, by P.D. Derkey and Pamela Palmer. Three sheets. Scale 1:24,000.
- MR-0080. Maps showing selected geology and phosphate resources of the Johnson Creek quadrangle, Caribou County, Idaho, by Pamela Palmer, Warren Barrash, P.D. Derkey, N.J. Wotruba, Mahasti Fakourbayat, Idaho Bureau of Mines and Geology; and S.T. Miller, U.S. Bureau of Land Management. Three sheets. Scale 1:24,000.

## OPEN-FILE REPORTS

- OF 85-0102.  $^{40}\text{Ar}/^{39}\text{Ar}$  age-spectrum data for the Buffalo Hump mining district, Clearwater Mountains, central Idaho, by L.W. Snee, Karen Lund, and K.V. Evans. 12 p.
- OF 85-0114. Gravity base stations in the Wallace 1 degree by 2 degree quadrangle, Montana and Idaho, by Viki Bankey and M.D. Kleinkopf. 19 p.
- OF 85-0115. Gravity base stations in the Hamilton and Elk City 1 degree by 2 degree quadrangles, Montana and Idaho, by Viki Bankey and M.D. Kleinkopf. 13 p.

- OF 85-0117. A case for plants in exploration; gold in Douglas-fir at the Red Mountain stockwork, Yellow Pine district, Idaho, by J.A. Erdman, B.F. Leonard, and D.M. McKown. 20 p.
- OF 85-0159. Water-quality data for Marsh Creek, Rock Creek, and Cedar Draw, southern Idaho, 1979-81, by S.A. Frenzel and M.L. Jones. 43 p.
- OF 85-0167. Solute distribution in waters in the Snake River basin, Idaho and eastern Oregon, by W.H. Low. 2 over-size sheets, scale 1:100,000.
- OF 85-0280. Principal facts for two-hundred-thirty-five gravity stations near Craters of the Moon, Idaho, by Carol Finn, D.R. Spydell, and D.L. Williams. 10 p.
- OF 85-0290-A. Proceedings of workshop XXVIII on the Borah Peak, Idaho earthquake; Volume A, edited and convened by R.S. Stein and R.C. Bucknam. 686 p.
- OF 85-0290-B. Proceedings of Workshop XXVIII on the Borah Peak, Idaho earthquake, edited and convened by R.S. Stein and R.C. Bucknam; Volume B, Fault scarps, landslides and other features associated with the Borah Peak earthquake of October 28, 1983, central Idaho; a field trip guide, by A.J. Crone, with a section on the Doublespring Pass road trench, by M.H. Hait, Jr. 23 p., 3 over-size sheets, scale 1:24,000.
- OF 85-0330. Ground-water levels, 1980, Snake River Plain, Idaho and eastern Oregon, by M.D. Bassick. 80 p.
- OF 85-0460. Remote sensing data and interpretations applied to the mineral appraisal of Dillon, Montana and Idaho 1 degree by 2 degree quadrangle, by T.L. Purdy, L.C. Rowan, and D.B. Segal. 4 p., 8 35-mm color slides.
- OF 85-0517. Preliminary geologic map of the Eastport area, Idaho and Montana, by R.F. Burmester. 10 p., 1 over-size sheet, scale 1:48,000.
- OF 85-0545. Contraction and extension faults in the southern Beaverhead Mountains, Idaho and Montana, by Betty Skipp. 170 p., 3 over-size sheets; 2 sheets, scale 1:250,000.
- OF 85-0559. Water use on the Snake River Plain, Idaho and eastern Oregon, by S.A. Goodell. 94 p.
- OF 85-0576. Spectral properties (0.4 to 25 microns) of selected rocks associated with disseminated gold and silver deposits in Nevada and Idaho, by M.D. Krohn. 38 p.

- OF 85-0593. Major-element analyses of latest Pleistocene-Holocene lava fields of the Snake River Plain, Idaho, by M.A. Kuntz, H.N. Elsheimer, L.F. Espos, and P.R. Klock. 64 p.
- OF 85-0598. Analytical results and sample-locality map of stream-sediment, heavy-mineral-concentrate, and water samples from the Sulphur Creek (I), Sulphur Creek (M), Sulphur Creek East, and Loon Creek Additions to the Frank Church-River of No Return Wilderness, Custer, Lemhi, and Valley Counties, Idaho, by B.M. Adrian, T.A. Roemer, J.C. Gray, and R.G. Eppinger. 95 p., 1 over-size sheet, scale 1:100,000.
- OF 85-0611. Geology of the Wallowa-Seven Devils volcanic (island) arc terrane between the Snake and Salmon rivers near Lucile, Idaho; Part I, Stratigraphy, structure, and metamorphism, by P.J. LeAnderson and Scott Richey. 30 p., 1 over-size sheet, scale 1:24,000.
- OF 85-0636. Aqueous radioactive- and industrial-waste disposal at the Idaho National Engineering Laboratory through 1982, by B.D. Lewis, J.M. Eagleton, and R.G. Jensen. 91 p.
- OF 85-0702. Analytical results and sample locality map for stream-sediment and panned-concentrate samples from the McEleny Addition and a part of the West Panther Creek Addition to the Frank Church-River of No Return Wilderness, Lemhi County, Idaho, by R.T. Hopkins, Jr., J.D. Sharkey, K.A. Romine, and G.A. Nowlan. 23 p., 1 over-size sheet, scale 1:50,000.
- OF 85-0703. Analytical results and sample locality map for stream-sediment and panned-concentrate samples from the Gospel Hump North Addition to the Frank Church-River of No Return Wilderness, Idaho County, Idaho, by R.T. Hopkins, Jr., T.A. Roemer, D.L. Kelley, and G.A. Nowlan. 18 p., 1 over-size sheet, scale 1:50,000.
- OF 85-0704. Analytical results and sample locality map for stream-sediment and panned-concentrate samples from the Mallard and Upper Bargamin Additions to the Frank Church-River of No Return Wilderness, Idaho County, Idaho, by R.T. Hopkins, Jr., T.A. Roemer, and G.A. Nowlan. 18 p., 1 over-size sheet, scale 1:50,000.
- OF 85-0705. Analytical results and sample locality map for stream-sediment and panned-concentrate samples from the Camas Creek Addition to the Frank Church-River of No Return Wilderness, Custer and Lemhi Counties, Idaho, by R.T. Hopkins, Jr., J.D. Sharkey, K.A. Romine, and G.A. Nowlan. 24 p., 1 over-size sheet, scale 1:100,000.

OF 85-0730. Analytical and stratigraphic data on the Meade Peak phosphatic Shale Member of the Phosphoria Formation at Freeman Pass, Caribou County, Idaho, by R.D. Hovland and E.D. Roberts-Tobey. 39 p.

#### WATER RESOURCE INVESTIGATION

WRI 85-4172. Geochemistry and hydrology of thermal springs in the Idaho batholith and adjacent areas, central Idaho, by H. W. Young. 44 p., 2 over-size sheets.

#### WATER-SUPPLY PAPER

W 2275. National water summary 1984; hydrologic events, selected water-quality trends, and ground-water resources. 467 p.

#### USGS STUDIES ON IDAHO PRIOR TO 1985

The following studies were not included in previous IGS Technical Report 86-4.

#### MISCELLANEOUS FIELD STUDIES MAP

MF-1466-E. Geologic and geochemical map of the Jerry Peak West and Boulder Creek Wilderness study areas, Custer County, Idaho, by D.H. McIntyre, S.W. Hobbs, J.F. Callahan, and G.D. May 1984. Scale 1:50,000.

#### OPEN-FILE REPORTS

OF 84-0189. Land use and land cover and associated maps for Brigham City, Utah-Idaho.

OF 84-0192. Land use and land cover and associated maps for Wallace, Montana-Idaho.

OF 84-0194. Land use and land cover and associated maps for Jordan Valley, Oregon-Idaho.

OF 84-0284. Analytical results and sample locality maps of stream-sediment, panned-concentrate, rock, and water samples from the West and East Palisades Roadless Areas, Idaho and Wyoming, by R.T. Hopkins, J.C. Antweiler, W.L. Campbell, and J.P. Fox. 56 p., 1 over-size sheet, scale 1:50,000.

- OF 84-0285. Analytical results and sample locality map of stream-sediment, panned-concentrate, rock, and water samples from the Italian Peak and Italian Peak Middle Roadless Areas, Idaho and Montana, by R.T. Hopkins, W.L. Campbell, J.C. Antweiler, and J.P. Fox. 41 p., 1 over-size sheet, scale 1:62,500.
- OF 84-0527. Land use and land cover and associated maps for Dubois, Idaho.
- OF 84-0528. Land use and land cover and associated maps for Idaho Falls, Idaho.
- OF 84-0700. Distribution of samples of nonmagnetic heavy-mineral concentrates having anomalous concentrations of bismuth, molybdenum, tin, and tungsten from the Wallace 1 degree by 2 degree quadrangle, Montana and Idaho, by D.L. Leach and J.A. Domenico. 7 p., 1 over-size sheet, scale 1:250,000.
- OF 84-0714. Water-quality data for selected wells on or near the Idaho National Engineering Laboratory, 1949 through 1982, by J.C. Bagby, L.J. White, and R.G. Jensen. 797 p.
- OF 84-0763. Proceedings of Conference XXVI; a workshop on evaluation of regional and urban earthquake hazards and risk in Utah, edited by W.W. Hays and P.L. Gori. 692 p. A lesson learned from the Idaho earthquake hazards litigation efforts; the need for earthquake planning scenarios and the needed information they could provide, by C.D. Meek. 642-646 p.
- OF 84-0776. Preliminary geologic map of the Mount Baird quadrangle, Bonneville County, Idaho, and Teton and Lincoln Counties, Wyoming, by D.W. Moore, N.B. Woodward, and S.S. Oriel. 12 p., 1 over-size sheet, scale 1:24,000.
- OF 84-0784. Geology of the Boiling Springs and Garden Valley 15-minute quadrangles, Boise and Valley Counties, Idaho, by P.L. Weis. 13 p., 1 over-size sheet, scale 1:125,000.
- OF 84-0833. Analytical results and sample locality map for stream-sediment and panned-concentration samples from The Pinnacles Addition to the River of No Return Wilderness, Valley County, Idaho, by B.M. Adrian, J.D. Sharkey, and G.A. Nowlan. 19 p., 1 over-size sheet, scale 1:48,000.

#### WATER-RESOURCE INVESTIGATIONS

- WRI 83-4117-A. Maps showing ground-water units, ground-water levels, springs, and depth to ground water, Basin and Range Province, Idaho, by J.E. Reed, M.S. Bedinger, W.H. Langer, D.A. Mulvihill, and J.L. Mason. 1984. 6 p., 1 over-size sheet, scale 1:500,000.

- WRI 83-4117-B. Maps showing distribution of dissolved solids and dominant chemical type in ground water, Basin and Range Province, Idaho, by T.H. Thompson and Richard Chappell. 1984. 5 p., 1 over-size sheet, scale 1:500,000.
- WRI 83-4117-C. Map showing outcrops of granitic rocks, ash-flow tuff, and Laharic breccia, Basin and Range Province, Idaho, by K.A. Sargent and J.E. Jenness. 1984. 7 p., 1 over-size sheet, scale 1:500,000.
- WRI 83-4117-D. Map showing outcrops of thick, dominantly argillaceous sedimentary and metasedimentary rocks, Basin and Range Province, Idaho, by W.D. Johnson, Jr. 1984. 7 p., 1 over-size sheet, scale 1:500,000.
- WRI 84-4071. Description and some hydrogeologic implications of cored sedimentary material from the Radioactive Waste Management Complex, Idaho, by C.T. Rightmire. 1984. 33 p.
- WRI 84-4132. Cost effectiveness of the stream-gaging network in Idaho, by W.A. Harenberg, R.L. Moffatt, and R.W. Harper. 109 p. 1985.
- WRI 84-4201. Hydrogeology of eastern Michaud Flats, Fort Hall Indian Reservation, Idaho, by N.D. Jacobson. 1984. 31 p.
- WRI 84-4294. Results of geohydrologic test drilling in the eastern Snake River Plain, Gooding County, Idaho, by R.L. Whitehead and G.F. Lindholm. 1985. 30 p., 1 over-size sheet.