

INFORMATION SERIES 76

Colorado Geothermal Bibliography

By

Erik J. Oerter

Frederick E. Berkman

Christopher J. Carroll

DOI: <https://doi.org/10.58783/cgs.is76.anzt6997>



Colorado Geological Survey
Department of Natural Resources
Division of Minerals and Geology
Denver, Colorado
2008

FOREWORD

Recently, there has been increased interest in renewable sources of energy because of the increasing costs of fossil fuels and environmental impacts from the use of fossil fuels. Geothermal energy is a renewable form of energy that at higher temperatures can be used for producing electrical power and at somewhat lower temperatures can be used directly for heating of buildings, industrial processes, greenhouse agriculture, aquaculture, and recreational/health resorts. This bibliography was created in an effort to promote the exploration, development, and use of geothermal resources within Colorado. As we move forward in these endeavors, it is important to take advantage of the knowledge and resources available from past geothermal research. This updated bibliography comprises all known published and unpublished documents pertaining to the geothermal resources of Colorado through 2007. Therefore, it supersedes our previous geothermal bibliography (Colorado Geological Survey Bulletin 44, 1981). Hopefully, this new edition will assist you in finding relevant geothermal resource information about Colorado.

This project was jointly funded by the Governor's Energy Office (federal funds) and the Colorado Geological Survey (Colorado Department of Natural Resources Severance Tax Operational Fund). Severance taxes are derived from the production of gas, oil, coal, and minerals.

Matthew A. Sares
Deputy Director

Vincent Matthews
State Geologist and Division Director

- Andrews, G.W., 1980, Travertine at Poncha hot springs, Chaffee County, Colorado: U. S. Geological Survey Professional Paper 1175, 13 p.
- Applegate, J.K., Goebel, V.S., Kallenberger, P., and Rossow, J., 1981, The use of seismic reflection techniques in geothermal areas throughout the U.S., *in* Society of Exploration Geophysicists, 51st annual meeting., Tulsa, OK, p. 11.
- Arestad, J.F., 1977, Resistivity studies in the upper Arkansas Valley and northern San Luis Valley, Colorado: Golden, Colorado School of Mines, Master of Science, 129 p.
- Baker, K.H., 1976, Heat flow studies in Colorado and Wyoming: Laramie, University of Wyoming, Master of Science, 142 p.
- Bakewell, C.A., and Herron, E.H., 1979, Low-temperature, direct use geothermal energy costs: Geothermal Resources Council Transactions, v. 3, September, p. 23-26.
- Bamford, R.W., 1978, Geochemistry of solid materials from two US geothermal systems and its application to exploration: Earth Science Laboratory, University of Utah.
- Barrett, J.K., and Pearl, R.H., 1976, Hydrogeological data of thermal springs and wells in Colorado: Colorado Geological Survey Information Series 6, 124 p.
- Barrett, J.K., and Pearl, R.H., 1976, Utilization of geothermometer and isotope models in the Buena Vista thermal area, Colorado: Abstracts with Programs - Geological Society of America, v. 8, no. 6, p. 768.
- Barrett, J.K., and Pearl, R.H., 1978, An appraisal of Colorado's geothermal resources: Colorado Geological Survey Bulletin 39, 224 p.
- Barrett, J.K., Pearl, R.H., and Pennington, A.J., 1976, Map showing thermal springs, wells, and heat-flow contours in Colorado: Colorado Geological Survey Information Series 4.
- Battocletti, L., 2006, The economic, environmental, and social benefits of geothermal use in Colorado, Bob Lawrence and Associates, 6 p.
- Beeland, G.V., Schumann, E., and Wieland, M., 1980, Geothermal leasing and permitting data base: a tool for future planning. Final report, 22 August 1979-31 December 1980, U.S. Department of Energy, 124 p.

- Behrendt, J.C., and Bajwa, L.Y., 1974, Bouguer gravity and generalized elevation maps of Colorado: U.S. Geological Survey Geophysical Investigations Map GP-896, 2 plates.
- Benecke, D.M., 1983, A geothermal gradient analysis of the Paradox Basin, Colorado and Utah: Memphis, TN, Memphis State University, Master of Science.
- Berkman, F.J., and Carroll, C.J., 2007, Interpretive geothermal heat flow map of Colorado: Colorado Geological Survey Map Series 45, 2 Plates.
- Berkman, F.J., and Carroll, C.J., 2007, Interpretive geothermal gradient map of Colorado: Colorado Geological Survey Map Series 46, 1 plate.
- Berry, G.W., Grim, P.J., and Ikelman, J.A., 1980, Thermal springs list for the United States: National Oceanic and Atmospheric Administration Geophysical Records Documentation No. 12, 59 p.
- Berthoud, E.L., 1866, Description of the hot springs of Soda Creek, their location, number, temperature, and altitude, and the geological features of the surrounding locality, together with the remarkable discovery of a human skeleton and a fossil pine tree in the boulder and gravel formation of Soda Bar *in* Philadelphia Academy of Natural Sciences Proceedings, October 13, 1860, p. 342-345.
- Bethke, P.M., 1983, The Creede mining district, Colorado as a target for drilling into the roots of a hydrothermal system: Abstracts with Programs, The Geological Society of America, v. 15; 5, Rocky Mountain Section, 36th annual meeting, p. 435.
- Bierman, S.L., Stover, D.F., and Lamont, W.J., 1978, Geothermal energy in the western United States: New York, Praeger, 466 p.
- Birch, F.S., 1947, Crustal structure and surface heat flow near Colorado Front Range: American Geophysical Union Transactions, v. 28, no. 5, p. 792-797.
- Birch, F.S., 1947, Temperature and heat flow in a well near Colorado Springs: American Journal of Science, v. 245, p. 733-753.
- Birch, F.S., 1948, Flow of heat in the Front Range (abstract): Geological Society of America Bulletin, v. 59, no. 12, part 2, p. 1312.
- Birch, F.S., 1950, Flow of heat in the Front Range, Colorado: Geological Society of America Bulletin, v. 61, no. 6, p. 567-634.

- Blackmer, J., 1939, Geology of the Steamboat Springs area, Routt Co., Colorado, with a special emphasis on thermal springs: Boulder, University of Colorado, Master of Science.
- Bliss, J.D., 1983, Colorado; basic data for thermal springs and wells as recorded in GEOTHERM: U. S. Geological Survey Open-File Report 83-429, 176 p.
- BLM, 1975, Development of energy minerals in northwest Colorado: U. S. Department of the Interior, Bureau of Land Management, 28 p.
- Bloomquist, R.G., 2006, Ouray hot springs motels, lodges and spas, Ouray, CO: Geo-Heat Center Bulletin, December, p. 7-9.
- Bodell, J.M., and Chapman, D.S., 1982, Heat flow in the north-central Colorado Plateau: Journal of Geophysical Research B, v. 87, no. 4, p. 2869-2884.
- Bond, M.A., 1981, An integrated geophysical study of the Shaw Warm Spring area, San Luis Valley, south-central Colorado: Golden, Colorado School of Mines, Master of Science, 162 p.
- Bretz, T.E., 1974, Rules and regulations relating to geothermal leases on Colorado State owned lands, *in* Proceedings of a Symposium on Geothermal Energy and Colorado, Colorado Geological Survey Bulletin 35, p. 91-96.
- Bridwell, R.J., 1976, Lithospheric thinning and late Cenozoic thermal and tectonic regime of the northern Rio Grande Rift, *in* Guidebook of the 27th Field Conference, New Mexico Geological Society, p. 283-292.
- Bridwell, R.J., and Baldrige, W.S., 1976, Thermal models from regional heat flow in the northern Rio Grande Rift: Abstracts with Programs - Geological Society of America, v. 8, no. 5, Rocky Mountain Section 29th annual meeting, p. 572.
- Britt, T.L., and Hornbeck, J.M., 1996, Energy resources, *in* Blair, R., ed., The western San Juan Mountains; their geology, ecology, and human history: Niwot, University Press of Colorado, p. 96-112.
- Bronder, L.D., Meyer, R.T., Roberts, S.G., and Gertsch, W.U., 1979, Evaluation of state taxes and tax incentives and their impact on the development of geothermal energy in western states: Geothermal Resources Council, Transactions, v. 3, September, p. 65-68.
- Budney, G.S., and Childs, F., 1982, Geothermal district heating systems, *in* 1982 International District Heating Association Conference, Chateau Mont St. Anne, Quebec, Canada, p. 30.

-
- Buelow, K.L., 1980, Geothermal studies in Wyoming and Northern Colorado with a geophysical model of the Southern Rocky Mountains near the Colorado-Wyoming border: Laramie, University of Wyoming, Master of Science, 150 p.
- Burroughs, R.L., 1981, A Summary of the geology of the San Luis Basin, Colorado-New Mexico with emphasis on the geothermal potential for the Monte Vista Graben: Colorado Geological Survey Special Publication 17, 30 p.
- Burton, W.A., Jr., 1974, Geothermal resources; legal and tax considerations, *in* Proceedings of a Symposium on Geothermal Energy and Colorado, Colorado Geological Survey Bulletin 35, p. 71-78.
- Butt, C.R.M., Gole, M.J., and Dyck, W., 2000, Helium, *in* Hale, M., ed., Geochemical remote sensing of the sub-surface., Elsevier. Amsterdam-Oxford-New York, International. 2000.
- Cappa, J.A., 1994, Results of the 1992-1993 low-temperature geothermal assessment program in Colorado: Geo-Heat Center Bulletin, July, p. 9-14.
- Cappa, J.A., and Hemborg, H.T., 1995, Low temperature geothermal assessment program 1992-1993: Colorado Geological Survey Open-File Report 95-1, 20 p.
- Chapin, C.E., 1971, The Rio Grande Rift, part 1, modifications and additions, *in* James, H.L., ed., Guidebook of the San Luis Basin, Colorado, 2nd Field Conference: New Mexico Geological Society, p. 191-201.
- Chapman, D.S., Willett, S.D., Deming, S.D., and Brigaud, F., 1987, Thermal fields and fluid flow in sedimentary basins, *in* XIX general assembly; abstracts, Vancouver, BC, Canada, International Union of Geodesy and Geophysics, p. 77.
- Chavvenet, R., 1890, Analysis of mineral waters of Colorado: Colorado School of Mines Biannual Report.
- Choate, R., and Rightmire, C.T., 1982, Influence of the San Juan Mountain geothermal anomaly and other Tertiary igneous events on the coalbed methane potential in the Piceance, San Juan, and Raton basins, Colorado and New Mexico, *in* Komar, C.A., ed., Proceedings, Unconventional gas recovery symposium., Society of Petroleum Engineers, p. 151-164.

-
- Christopherson, K., 1979, The Steamboat Springs, Colorado geothermal systems: Geophysical and Geological Investigations: Geothermal Resources Council, Transactions, v. 3, September, p. 113-116.
- Christopherson, K.R., 1979, A geophysical study of the Steamboat Springs, Colorado geothermal systems: Boulder, University of Colorado, Master of Science.
- Christopherson, K.R., Nervick, K.H., and Heran, W.D., 1981, Audio-magnetotelluric and telluric profiling studies in the Shaw Warm Springs region, Colorado: U. S. Geological Survey Open-File Report 81-958: 16 p.
- Cillessen, J.L., and Gonzales, D.A., 2003, A model for the origin of thermal springs in Animas River valley, La Plata County, southwestern Colorado: Geological Society of America, Rocky Mountain Section, 55th annual meeting, p. 36.
- Clarkson, G., and Reiter, M., 1984, Analysis of terrestrial heat-flow profiles across the Rio Grande Rift and southern Rocky Mountains in northern New Mexico, *in* New Mexico Geological Society thirty-fifth annual field conference, New Mexico Geological Society, p. 39-44.
- Coe, B.A., 1978, Geothermal energy development in Colorado; processes, promises and problems: Colorado Geological Survey Information Series 9, 52 p.
- Coe, B.A., 1979, An opportunity-direct use of hydrothermal energy in Colorado: Geothermal Resources Council, Transactions, v. 3, September, p. 117-119.
- Coe, B.A., 1979, Colorado geothermal commercialization program, semi-annual report: Idaho Falls, U.S. Department of Energy, Division of Geothermal Energy, 88 p.
- Coe, B.A., 1980, Colorado geothermal commercialization project, semi-annual progress report: State geothermal commercialization programs in the Rocky Mountain Basin and Range Region, Chapter 3, DOE/ID/12018-1: Idaho Falls, U.S. Department of Energy.
- Coe, B.A., 1980, Community development of geothermal energy in Pagosa Springs Colorado: Colorado Geological Survey Open-File Report 80-11, 58 p.
- Coe, B.A., 1980, The effect of human judgment on geothermal leasing - a case study: Geothermal Resources Council, Transactions, v. 4, September, p. 767-770.

-
- Coe, B.A., 1980, Geothermal energy potential in the San Luis Valley, Colorado: Colorado Geological Survey Open-File Report 80-13, 44 p.
- Coe, B.A., 1982, Industrial market opportunities for geothermal energy in Colorado: Colorado Geological Survey Special Publication 20, 66 p.
- Coe, B.A., Dick, J.D., Galloway, M.J., Gross, J.T., Meyer, R.T., Raskin, R., and Zocholl, J.R., 1982, Geothermal potential for commercial and industrial direct heat applications in Salida, Colorado. Final report, U.S. Department of Energy, 285 p.
- Coe, B.A., and Forman, N.A., 1980, Regulation of geothermal energy development in Colorado: Colorado Geological Survey Information Series 15, 27 p.
- Coe, B.A., and Zimmerman, J., 1981, Geothermal energy opportunities at four Colorado towns: Colorado Geological Survey Open-File Report 81-2, 60 p.
- Colorado Geological Survey, 1978, Geothermal energy-Colorado's untapped resource: Pamphlet, Colorado Geological Survey.
- Colorado Office of Energy Conservation, 1984, Pagosa Springs geothermal project. Final technical report, 15 p.
- Colorado Oil and Gas Conservation Commission, 1976, Rules and regulations, rules of practice and procedure for the development and production of geothermal resources: Colorado Department of Natural Resources, 35 p.
- Colorado State Planning Office, 1962, Springs of Colorado, Colorado Year Book 1959-1961: Colorado State Planning Division, p. 470-471.
- Comstock, T.B., 1884, Hot spring formations in Red Mountain district, Colorado: American Institute of Metallurgical Engineers, Transactions, v. 17, p. 261-264.
- Comstock, T.B., 1886, Extinct geyser basin: American Journal of Science, v. 132, no. 3, p. 320.
- Comstock, T.B., 1886, Extinct geyser basin: American Naturalist, v. 20, p. 963-965.
- Coury and Associates, 1979, An environmental report on the construction and operation of a geothermal district heating system in Pagosa Springs, Colorado.

-
- Coury and Associates, 1980, Direct utilization of geothermal energy for Pagosa Springs, Colorado. Preliminary design report: US. Department of Energy.
- Coury, G.E., and Vorum, M., 1977, Non-electric utilization of geothermal energy in the San Luis Valley, Colorado. First quarterly progress report, January 14 - April 30, 1977, Coury and Associates Inc, 12 p.
- Coury, G.E., and Vorum, M., 1978, San Luis Valley, Colorado; a region of high potential for geothermal development, Direct utilization of geothermal energy: U. S. Department of Energy, Division of Geothermal Energy, p. 73-80.
- Crewdson, R.A., 1976, A geothermal assessment of Colorado, *in* Field guidebook for conference on exploration for the geothermal reservoir, May 4-5, 1976, Golden, CO, Colorado School of Mines, p. 35.
- Crowley, C.J., 1977, Developments in Four Corners-Intermountain area in 1976: American Association of Petroleum Geologists Bulletin, v. 61, no. 8, p. 1204-1207.
- Crowley, C.J., 1978, Developments in Four Corners-Intermountain area in 1977: American Association of Petroleum Geologists Bulletin, v. 62, no. 8, p. 1360-1363.
- Decker, E.R., 1966, Crustal heat flow in Colorado and New Mexico: American Geophysical Union Transactions, v. 47, no. 1, p. 180-181.
- Decker, E.R., 1967, Terrestrial heat flow in Colorado and New Mexico: Cambridge, MA, Harvard University, Thesis.
- Decker, E.R., 1969, Heat flow in Colorado and New Mexico: Journal of Geophysical Research, v. 74, p. 550-559.
- Decker, E.R., 1973, Geothermal heat studies in southern Rocky Mountain region 1971-1973: Rocky Mountain Section 26th Annual Meeting, Geological Society of America, v. 5, p. 475-476.
- Decker, E.R., 1979, Thermal gradients and heat flow data in Colorado and Wyoming: Report LA-7993, Los Alamos National Lab, 9 p.
- Decker, E.R., 1994, Thermal data for the Creede Caldera moat project coreholes: Geological Society of America, 1994 annual meeting, Abstracts with Programs, v. 26; 7, p. 401.

- Decker, E.R., and Birch, F.S., 1974, Basic heat flow data from Colorado, Minnesota, New Mexico and Texas, *in* U.S. Geological Survey Open-File Report 74-9, p. 5-6 through 5-34.
- Decker, E.R., Bucher, G.J., Buelow, K.L., and Heasler, H.P., 1984, Preliminary interpretation of heat flow and radioactivity in the Rio Grande rift zone in central and northern Colorado, *in* Rio Grande Rift: Northern New Mexico, New Mexico Geological Society 35th Annual Field Conference, p. 45-49.
- Decker, E.R., Bucher, G.J., Buelow, K.L., and Heasler, H.P., 1984, Geothermal studies in the Rio Grande rift zone in central and northern Colorado: The Geological Society of America, 97th annual meeting, Abstracts with Programs, v. 16; 6, 485 p.
- Decker, E.R., and Buelow, K.L., 1981, Heat flow, radioactivity, gravity, and geothermal resources in northern Colorado and southern Wyoming: Technical Report to the U.S. Department of Energy, 43 p.
- Decker, E.R., Buelow, K.L., and Heasler, H.P., 1980, Geothermal studies in Wyoming and northern Colorado: American Geophysical Union Transactions, v. 61, no. 17, p. 363.
- Decker, E.R., Heasler, H.P., Buelow, K.L., Baker, K.H., and Hallin, J.S., 1988, Significance of past and recent heat-flow and radioactivity studies in the southern Rocky Mountains region: Geological Society of America Bulletin, v. 100, no. 12, p. 1851-1885.
- Dellechiaie, F., 1981, A hydrogeochemical comparison of the Waunita hot springs, Hortense, Castle Rock and Anderson hot springs, *in* Zacharakis Ted, G., ed., Geothermal resources assessment of Waunita hot springs, Colorado: Colorado Geological Survey Special Publication 16, p. 31-38.
- Dick, J.D., 1976, Geothermal reservoir temperatures in Chaffee County, Colorado, Monroe, Northeast Louisiana University, Master of Science, 171 p.
- Dick, J.D., and Pearl, R.H., 1978, Exploration for nonelectric geothermal resources in Colorado: American Association of Petroleum Geologists Bulletin, v. 62, no. 5, p. 882-883.
- Dickerson, R.P., Barton, H.N., Blank, H.R., Jr., and Scott, D.C., 1990, Mineral resources of the Tabeguache Creek Wilderness Study Area, Montrose County, Colorado: U. S. Geological Survey Bulletin 1715-E, 15 p.

-
- Dimick, N.J., 2007, The ability to predict ground water flow in a structurally faulted river valley with naturally occurring hot springs using multivariate geochemical analyses: Golden, Colorado School of Mines, Master of Science, 85 p.
- Dixon, J., 2002, Evaluation of bottom-hole temperatures in the Denver and San Juan basins of Colorado: Colorado Geological Survey Open-File Report 02-15, 41 p.
- Dixon, J., 2004, Evaluation of bottom-hole temperatures in the Canon City Embayment, Hugoton Embayment, North Park, Paradox, Piceance, Raton, and Sand Wash basins of Colorado: Colorado Geological Survey Open-File Report 04-1, 44 p.
- Earth Science Lab, 1980, Reference list, Routt-Steamboat Hot Spring, Routt County, Colorado: Utah Research Institute.
- Ebeling, F.A., 1979, Pagosa Springs geothermal distribution and heating system, *in* Direct Heat Application Program Summary, Annual Meeting Geothermal Resources Council, Reno, p. 41-49.
- Edwards, C.L., Reiter, M.A., Shearer, C., and Young, W., 1977, Terrestrial heat flow and crustal radioactivity in northeastern New Mexico and southeastern Colorado: Geological Society of America Bulletin, v. 89, p. 1341-1350.
- Edwards, C.L., Reiter, M.A., and Shearer, C.R., 1975, Terrestrial heat flow in northeastern New Mexico and southeastern Colorado, *in* Rocky Mountain sections, AAPG and SEPM annual meeting; Rocky Mountain energy resources, discovery and development., Tulsa, OK, American Association of Petroleum Geologists, p. 908.
- EG&G Inc., 1981, Geothermal direct heat applications program summary, *in* Semi-annual review meeting, Boise, U.S. Department of Energy, Division of Geothermal Energy, p. 193.
- EG&G Inc., 1982, Direct use geothermal PON and PRDA projects under DOE-ID administration: Idaho Falls, U. S. Department of Energy, Division of Geothermal Energy, 19 p.
- Eggleston, R.E., and Reiter, M., 1984, Terrestrial heat-flow estimates from petroleum bottom-hole temperature data in the Colorado Plateau and the eastern Basin and Range Province: Geological Society of America Bulletin, v. 95, no. 9, p. 1024-1034.

- Eichelberger, J.C., and Westrich, H.R., 1980, Geology of the Rio Grande Rift, *in* Goff, F., and Waters, Aaron, C., eds., Continental Scientific Drilling Program thermal regimes; comparative site assessment geology of five magma-hydrothermal systems: Los Alamos National Laboratory, p. 37-50.
- Eidel, J.J., Heasler, H.P., Buelow, K.L., Decker, E.R., and McCarthy, K.P., 1983, Scientific drilling to study the roots and margins of hydrothermal mineral systems, *in* The Geological Society of America, Rocky Mountain Section, 36th annual meeting; Cordilleran Section, 79th annual meeting., p. 435.
- Elliott, W.C., Roden, T.M.K., and Higley, D.K., 1996, Thermal history of the Denver Basin "hot spot", *in* American Association of Petroleum Geologists 1996 annual convention., Tulsa, OK, p. 41.
- Emmons, W.H., and Larsen, E.S., 1913, The hot springs and mineral deposits of Wagon Wheel Gap, Colorado: Economic Geology, v. 8, p. 235-246.
- Energy Research and Development Administration, 1977, Hot dry rock geothermal energy: Status of exploration and assessment, Division of Geothermal Energy, 206 p.
- Engen, I.A., 1981, Preliminary conceptual design for geothermal space heating conversion of School District 50 joint facilities at Pagosa Springs, Colorado. GTA Report No. 6, U.S. Department of Energy, Idaho National Engineering Laboratory, 30 p.
- Engen, I.A., Keller, J.G., DiBello, E.G., Broadus, C.R., and Sanders, R.D., 1982, Selected geothermal technical assistance efforts at EG&G Idaho, Inc, U.S. Department of Energy, Idaho National Engineering Laboratory, 94 p.
- Epis, R.C., Scott, G.R., Taylor, R.B., and Chapin, C.E., 1976, Cenozoic volcanic, tectonic, geomorphic features of central Colorado, *in* Epis, R.C., and Weimer, R.J., eds., Studies in Colorado field geology, Professional Contributions no. 8: Golden, Colorado School of Mines, p. 323-338.
- Erdman, J.A., 1996, The analysis of rabbitbrush (genus *Chrysothamnus*) and the detection of a possible hidden geothermal field in the northern San Luis Valley, *in* Thompson, A., Hudson, Mark, and Pillmore, Charles, L., eds., Geologic excursions to the Rocky Mountains and beyond, field trip guidebook for the 1996 Annual Meeting, GSA, Denver, Colorado Geological Survey Special Publication 44, p. 2.
- Erdman, J.A., Hinkle, M.E., Watson, K., Gallagher, A.J., Ager, C.M., and Smith, K.S., 1993, A new approach to geothermal exploration; integrating geochemistry with remote sensing, *in* Baker, Charles, E., and Coury, Anny, B., eds.: U. S. Geological Survey Open-File Report 93-680, p. 9.

-
- Erdman, J.A., and VanTrump, G., 1993, Analytical results, basic statistics, and locality map of rabbitbrush (genus *Chrysothamnus*) samples from the Mineral Hot Springs and Valley View Hot Springs known geothermal resource areas, northern San Luis Valley, Colorado: U. S. Geological Survey Open-File Report 93-17A, 18 p.
- Felmlee, J.K., and Cadigan, R.A., 1978, Radium and uranium data for mineral springs in eight western states: U.S. Geological Survey Open-File Report 78-561, 48 p.
- Finn, T.M., 2005, Geothermal gradient map of the southwestern Wyoming Province, SW Wyoming, NW Colorado, NE Utah, *in* U.S.W.P.A. Team, ed., Petroleum Systems and geologic assessment of oil and gas in the SW Wyoming Province: U.S. Geological Survey Digital Data Series DDS-69-D.
- Fleischman, D.J., 2007, An assessment of geothermal resource development needs in the western United States: Washington, D.C., Geothermal Energy Association, 138 p.
- Foley, D., and Dorscher, M., 1982, Tables of co-located geothermal resource sites and BLM wilderness study areas: Open-File Report 107: Salt Lake City, Utah Research Institute, Earth Science Lab, 170 p.
- Fuchs, R.L., and Hutter, G.W., 1975, Geothermal energy: slow-growing industry finally heats up: *Engineering and Mining Journal*, v. 176, no. 1, p. 89-93.
- Gaca, J.R., and Karig, U.E., 1966, Gravity survey in the San Luis Valley area, Colorado: U. S. Geological Survey Open-File Report 66-46, 43 p.
- Galloway, M.J., 1979, Potential drilling problems in low-temperature geothermal areas, *in* Giddings, T., ed., National Water Well Association, Ground Water Technology Division, Technical education session: Urbana, IL, p. 495.
- Galloway, M.J., 1980, Hydrogeological and geothermal investigations of Pagosa Springs, Colorado, with a section on mineralogical and petrographic investigation of samples from geothermal wells 0-1 and P-1, Pagosa Springs, CO: Colorado Geological Survey Special Publication 10, 95 p.
- Garcia, M.B., 1997, Town of Pagosa Springs geothermal heating system: *Geo-Heat Center Bulletin*, v. 18, no. 3, p. 6.

-
- Garing, K.L., and Connor, F.R., 1981, Groundwater heat pumps in Colorado; an efficient and cost-effective way to heat and cool your home: Colorado Geological Survey Special Publication 18, 32 p.
- Garing, K.L., and Coury, G.E., 1979, Adaptation of geothermal energy to produce alcohol from agricultural commodities, *in* Expanding the geothermal frontier, Geothermal Resources Council Annual Meeting, Reno, NV, p. 241-244.
- Geo-Heat Center, 2003, Ouray Hot Springs pool, Ouray, Colorado: Geo-Heat Center Bulletin, June, p. 4-6.
- Geo-Heat Center, 2004, Geothermal publications list for Geopowering the West States: Klamath Falls, OR, Geo-Heat Center, 145 p.
- George, R.D., Hurtis, H.A., Lester, O.C., Crook, J.K., and Yeo, J.B., 1920, Mineral waters of Colorado: Colorado Geological Survey Bulletin 11, 474 p.
- Geothermex, 1981, Waunita Hot Springs, Colorado geothermal prospect reconnaissance evaluation and recommendations, *in* Zacharakais, T.G., ed., Geothermal resources assessment of Waunita Hot Springs, Colorado, Colorado Geological Survey Special Publication 16, p. 17-25.
- Gibbons, A.B., 1997, Mineral resource potential; leasable minerals (energy sources); hydrothermal resources, *in* Van Loenen, Richard, E., Gibbons, Anthony, B., Raby, Andrew, G., and Dersch, John, S., eds., Mineral resource potential and geology of the San Juan National Forest, Colorado; with a section on salable minerals: U. S. Geological Survey Bulletin 2127, p. 127-130.
- Gillette, B., and Butterfield, L.J.W., 2004, Meta-analysis of available data to determine sites of significant geothermal potential in Colorado: Golden, CO, National Renewable Energy Laboratory, 26 p.
- Godwin, L.H., Haigler, L.B., Rioux, R.L., White, D.E., Muffler, L.J.P., and Wayland, R.G., 1971, Classification of Public Lands valuable for geothermal steam and associated geothermal resources: U.S. Geological Survey Circular 647, 18 p.
- Goering, S.W., and Connor, F.R., 1980, Geothermal-based industrial park development in south-central Colorado: Geothermal Resource Council, Transactions, v. 4, September, p. 565-567.

- Goering, S.W., Connor, F.R., and Coury, G.E., 1980, Geothermal agriculture industrial park development in south-central Colorado: Oregon Institute of Technology, Geo-Heat Center Quarterly Bulletin, v. 5, no. 4, p. 3-8.
- Goering, S.W., Coury, G.E., and Garing, K.L., 1979, An analysis of the design, economics and federal tax impacts of proposed geothermal greenhouse operations near the Baca Grande Development, San Luis Valley, Colorado: Geothermal Resources Council, Transactions, v. 3, September, p. 253-256.
- Goering, S.W., Coury, G.E., and Garing, K.L., 1979, Geothermal energy applications to the barley malting industry in the San Luis Valley, Colorado: American Society of Heating, Refrigerating, and Air-Conditioning Engineers Transactions, v. 85, no. 1, p. 951-961.
- Goering, S.W., Garing, K.L., and Coury, G., 1984, Direct utilization of geothermal energy for Pagosa Springs, Colorado. Final report, June 1979-June 1984, U.S. Department of Energy, 205 p.
- Goering, S.W., Garing, K.L., Coury, G.E., and Fritzler, E.A., 1980, Residential and commercial space heating and cooling with possible greenhouse operation; Baca Grande Development, San Luis Valley, Colorado: Idaho Falls, U.S. Department of Energy, 282 p.
- Goff, F., and Tully, J., 1994, Geothermal assessment of Archuleta County and the Pagosa Springs Aquifer, Colorado: Geothermal Resources Council Transactions, v. 18, October, p. 191-197.
- Goff, F., and Waters, A.C., 1980, Continental Scientific Drilling Program thermal regimes; comparative site assessment geology of five magma-hydrothermal systems; introduction and conclusion, *in* Rowley, J., Hawkins, W., and Gardner, J., eds., Continental Scientific Drilling Program thermal regimes; comparative site assessment geology of five magma-hydrothermal systems, Los Alamos National Laboratory, p. 1-5, 83-84.
- Gosnold, W.D., 1984, Heat flow and ground water movement in the Central Great Plains, *in* Jorgensen, D.G., and Signor, D.C., eds., Geohydrology of the Dakota Aquifer.: Worthington, OH, National Water Well Association, p. 70-75.
- Gosnold, W.D., 1986, Heat flow in the north central United States: American Geophysical Union, 1986 Fall meeting transactions, v. 67; 44, p. 1238.
- Gould, D.B., 1934, Terraced deposit of an extinct thermal spring in South Park, Colorado: Iowa Academy of Science Proceedings, v. 41, no. 1934, p. 241.

- Grant, P.R.J., 1980, Geothermal energy development: The question of resource definition as it affects state land leasing policies: Idaho Falls, U.S. Department of Energy, Division of Geothermal Energy.
- Greider, R., 1974, Economic considerations for geothermal exploration in the western United States, *in* Proceedings of a Symposium on Geothermal Energy and Colorado, Denver, CO, Colorado Geological Survey Bulletin 35, p. 45-60.
- Griffith, J.L., 1980, State geothermal commercialization programs in ten Rocky Mountain states. Semi-annual progress report, July-December 1979, U.S. Department of Energy, 325 p.
- Grose, L.T., 1971, Geothermal energy; geology, exploration, and developments; Part 1: Mineral Industries Bulletin, v. 14, no. 6, p. 1-14.
- Grose, L.T., 1974, Summary of geology of Colorado related to geothermal energy potential, *in* Proceedings of a Symposium on Geothermal Energy and Colorado, Colorado Geological Survey Bulletin 35, p. 11-29.
- Guffanti, M., and Nathenson, M., 1980, Preliminary map of temperature gradients in the conterminous United States: Geothermal Resources Council, Transactions, v. 4, September, p. 53-56.
- Gwinn, C., 1981, Heat flow measurements in the San Luis Valley and Canon City areas, Colorado: Dallas, TX, Department of Geological Sciences, Southern Methodist University, Baccalaureate of Science, 80 p.
- Gwinn, C., 1981, 1981, Miscellaneous maps and logging information for holes C-TH-1 through C-TH-12, San Luis and Canon City, Colorado: Unpublished Report: Dallas, TX, Department of Geological Sciences, Southern Methodist University, 5 p.
- Hagedorn, D.N., 1985, The calculation of synthetic thermal conductivity logs from conventional geophysical well logs: Dallas, TX, Southern Methodist University, Master of Science, 110 p.
- Hallin, J.S., 1973, Heat flow and radioactivity studies in Colorado and Utah, 1971-1972: Laramie, University of Wyoming, Master of Science, 108 p.
- Hanny, J.A., and Lunis, B.C., eds., 1979, Colorado hydrothermal commercialization baseline: Idaho Falls, ID, E.G.&G., Inc., 38 p.
- Harder, V., Morgan, P., and Swanberg, C.A., 1980, Geothermal resources in the Rio Grande Rift: origins and potential: Geothermal Resources Council, Transactions, v. 4, September, p. 61-64.

- Harris, R.C., 1979, State government workshop on barriers and incentives of geothermal energy resources, *in* National Conference of State Legislatures, Denver, Colorado, p. 14.
- Headon, W.B., 1909, Notes on some mineral springs: Colorado Scientific Society Proceedings, v. 9, p. 259-272.
- Healy, F.C., 1980, Geothermal energy potential in Chaffee County, Colorado: Colorado Geological Survey Open-file Report 80-10: Denver, CO, 47 p.
- Healy, F.C., 1980, Colorado Geothermal Commercialization Program. Semi-annual report, January-June 1980, U.S. Department of Energy, 21 p.
- Heasler, H.P., Buelow, K.L., and Decker, E.R., 1983, Geothermal studies in Wyoming, Colorado, and Montana: American Geophysical Union, Transactions, v. 64; 18, p. 321.
- Heasler, H.P., Decker, E.R., and Buelow, K.L., 1982, Heat flow studies in Wyoming; 1979 to 1981, *in* Ruscetta, Carl, A., ed., Geothermal Direct Heat Program; roundup technical conference proceedings; Volume I; papers presented; State Coupled Resource Assessment Program., p. 292-312.
- Hederman, W.F.J., and Cohen, L.A., 1981, Economics of geothermal direct heat applications: Geothermal Resources Council Transactions, v. 5, p. 647-650.
- Henrichs Geoexploration Company, 1981, Geothermal resistivity resource evaluation survey, Waunita Hot Springs Project, Gunnison County, Colorado, *in* Zacharakis, Ted, G., ed., Geothermal resources assessment of Waunita Hot Springs, Colorado: Colorado Geological Survey Special Publication 16, p. 39-51.
- Hermance, J.F., 1985, Characterizing thermal energy and mass transport in volcanic caldera complexes; the role of scientific drilling, *in* Observation of the continental crust through drilling, International Symposium, May 20-25, 1984, Tarrytown, NY, Springer-Verlag, p. 68-87.
- Hewlett, E.M., Erickson, M.V., and Walet, K.M., 1981, The utilization of geothermal energy in the production of fuel grade ethanol in the San Luis Valley, Colorado: Geothermal Resources Council Transactions, v. 5, p. 515-518.

- Higley, D.K., and Gautier, D.L., 1988, Burial history reconstruction of the Lower Cretaceous Sandstone in the Wattenberg Field, Colorado, "hot spot", *in* Carter, L., M., ed., USGS research on energy resources, 1988, program and abstracts.: U.S. Geological Survey Circular 1025, p. 20-21.
- Hinkle, M.E., and Erdman, J.A., 1995, Geochemical and biogeochemical surveys near the Mineral and Valley View Hot Springs known geothermal resource areas, northern San Luis Valley, Colorado: U. S. Geological Survey Open-File Report 95-569, 44 p.
- Hoffman, J.P., 1975, The seismic history of the Rio Grande Rift: Earthquake Information Bulletin, v. 7, no. 3, U.S. Geological Survey, 8-16 p.
- Horn, T.G., 1877, Report on the mineral springs of Colorado: Colorado State Board of Health, Annual Report, Colorado Board of Health, 43 p.
- Johnson, B.R., and Ellis, C.E., 1984, Sangre de Cristo Wilderness Study Area, Colorado, *in* Marsh, S.P., Kropschot, S.J., and Dickinson, R.G., eds., Wilderness mineral potential; assessment of mineral-resource potential in U.S. Forest Service lands studied 1964-1984: U. S. Geological Survey Professional Paper 1300, p. 475-478.
- Jordan, J.M., 1974, Geothermal investigations in the San Luis Valley, Colorado, Colorado School of Mines, Master of Science, 89 p.
- K.W. Nickerson and Associates, 1981, Waunita Hot Springs project, Gunnison County, Colorado, *in* Zacharakis, Ted, G., ed., Geothermal resources assessment of Waunita Hot Springs, Colorado: Colorado Geological Survey Special Publication 16, p. 1-16.
- Keller, G.R., and Adams, H.E., 1976, A reconnaissance microearthquake survey of the San Luis Valley, southern Colorado: Seismological Society of America Bulletin, v. 66, no. 1, p. 345-347.
- Keller, G.V., 1974, Geophysics of Colorado and geothermal energy, *in* Proceedings of a Symposium on Geothermal Energy and Colorado, Colorado Geological Survey Bulletin 35, p. 31-43.
- Keller, G.V., 1978, Geophysical surveys at Pagosa Springs and Glenwood Springs, Colorado: Unpublished report for the Colorado Geological Survey: Golden, Department of Geophysics, Colorado School of Mines, 18 p.
- Kelley, S.A., and Blackwell, D.B., 2002, Subsurface temperatures in the southern Denver Basin, Colorado: Rocky Mountain Geology, v. 37, no. 2, p. 189.

- Kelley, S.A., and Blackwell, D.D., 2002, Subsurface temperatures in the southern Denver Basin, Colorado, *in* Johnson, Kirk, R., Reynolds, Robert, G., and Reynolds, Michele, L., eds., Paleontology and stratigraphy of Laramide Strata in the Denver Basin (Part I). University of Wyoming. Laramie.
- Kleeman, W.T., and Savage, V.H., 1977, Geothermal resources as an alternative for an area with an energy problem; the Rio Grande region: Geothermal Resources Council, Transactions, v. 1, p. 169-171.
- Kleinkopf, M.D., Peterson, D.L., and Johnson, R.B., 1970, Reconnaissance geophysical studies of the Trinidad quadrangle, south-central Colorado, U.S. Geological Survey Professional Paper 700-B, p. B78-B85.
- Klusman, R.W., Cowling, S., Culvey, B., Roberts, C., and Schwab, P.A., 1977, Preliminary evaluation of secondary controls on mercury in soils of geothermal districts: Geothermics, v. 6, p. 1-8.
- Klusman, R.W., and Landress, R.A., 1978, Secondary controls on mercury in soils of geothermal areas: Journal of Geochemical Exploration, v. 9, no. 1, p. 75-91.
- Klusman, R.W., and Leroy, M.P., 1996, Potential for use of gas flux measurements in surface exploration for geothermal resources: Geological Society of America, 28th annual meeting, Abstracts with Programs, v. 28; 7, p. 347.
- Knepper, D.H., Jr., 1974, Tectonic analysis of the Rio Grande Rift Zone, central Colorado: Golden, Colorado School of Mines, Doctor of Philosophy, 237 p.
- Knepper, D.H., Jr., 1976, Late Cenozoic structure of the Rio Grade rift zone, central Colorado, *in* Epis, R.C., and Weimer, R.J., eds., Studies in Colorado field geology, Colorado School of Mines Professional Contributions, no. 8: Golden, CO, p. 421-430.
- Knepper, D.H., Jr., and Grose, L.T., 1976, Structure, volcanism, and geothermal features of the northern Rio Grande rift zone, Colorado, *in* Epis, R.C., and Weimer, R.J., eds., Studies in Colorado field geology, Colorado School of Mines Professional Contributions, no. 8: Golden, CO, p. 403-420.
- Koenig, J.B., and Hutterer, G.W., 1975, Geothermal prospecting along aligned features in the western United States, Second United Nations symposium on the development and use of geothermal resources, May 20-29, 1975: Energy Policy, v. 3, no. 3, p. 245-246.

- Koulet, K.G., and Armstrong, J.A., 1978, An environmental report on the drilling and production testing of an exploratory geothermal well in Pagosa Springs, Colorado, Denver Research Institute, University of Denver, 69 p.
- Kron, A., and Heiken, G., 1980, Geothermal gradient map of the United States: Geothermal Resources Council, Transactions, v. 4, September, p. 69-71.
- Kron, A., and Stix, J., 1982, Geothermal gradient map of the United States (exclusive of Alaska and Hawaii): Geothermal Resources Council, Transactions, v. 6, October, p. 35-37.
- Kwass, P., 1981, Innovations in the financing of geothermal energy for direct-use applications: Cambridge, MA, Council for Community Development, Inc., 130 p.
- Ladwig, L.R., 1981, Colorado energy activity profile: Colorado Geological Survey Open-File Report 81-7, 12 p.
- Lakes, A., 1905, Geology of the hot springs of Colorado and speculations as to their origin and heat: Colorado Scientific Society Proceedings, v. 8, p. 31-37.
- Landers, W.S., 1974, Utility participation in a geothermal energy source, *in* Proceedings of a Symposium on Geothermal Energy and Colorado, Colorado Geological Survey Bulletin 35, p. 79-81.
- Laney, P., and Brizzee, J., 2003, Colorado geothermal resources map: Idaho Falls, Idaho National Engineering and Environmental Laboratory.
- Lange, A.L., 1976, Application of heat flux transducers to geothermal exploration, *in* 17th U. S. symposium on rock mechanics. Snowbird, Utah, United States. Aug. 25-27, 1976, p. 3B2.1 - 3B2.6.
- Lange, A.L., 1981, The geophysical environment around Waunita Hot Springs, *in* Zacharakis, Ted, G., ed., Geothermal resources assessment of Waunita Hot Springs, Colorado: Colorado Geological Survey Special Publication 16, p. 52-55.
- Lester, U.C., 1918, The radioactive properties of the mineral springs of Colorado: American Journal of Science, Series 4, v. 46, p. 621-637.
- Lewis, E.L., 1966, The thermal springs of Colorado--A resource appraisal: Boulder, University of Colorado, Master of Science, 91 p.

- Lindsey, D.A., Hassemer, J.R., Abrams, G.A., Taylor, R.B., and Hannigan, B.J., 1985, Mineral resources of the Black Canyon and South Piney Creek Wilderness Study Areas, Saguache County, Colorado, U. S. Geological Survey Bulletin 1716-A, p. A1-A15.
- Lowther, W.H., and Knowles, R.R., 1910, The mineral waters of Steamboat Springs: Western Chemist and Metallurgist, v. 6, p. 60-65.
- Lund, J.W., 2006, Steamboat Springs, Colorado: Geo-Heat Center Bulletin, September, p. 7-9.
- Lund, J.W., 2006, Strawberry Hot Springs: Geo-Heat Center Bulletin, September, p. 10-12.
- Lund, J.W., 2006, Hot Sulphur Springs, Colorado: Geo-Heat Center Bulletin, September, p. 13-14.
- Lunis, B.C., 1982, State geothermal commercialization programs in seven Rocky Mountain states. Semiannual progress report, July-December 1981, EG&G Idaho, Inc., 201 p.
- Lunis, B.C., and Hanny, J.A., 1979, Direct applications of geothermal energy market penetration analysis and infrastructure requirements: Geothermal Resources Council Transactions, v. 3, September, p. 397-399.
- Lyons, K., 2003, A regulatory guide to geothermal direct use development - Colorado, Washington State University Extension Energy Program, 14 p.
- Mallory, E.C.J., and Barrett, P.R., 1973, Chemistry and spectrochemical analysis of selected groundwaters in Colorado: U.S. Geological Survey Open-File Report, 47 p.
- Mamah, L., 1979, Time domain electromagnetic survey of Mineral-Valley View Hot Springs, Saguache County, Colorado: Golden, Colorado School of Mines, Master of Science, 134 p.
- Marlin, J.M., 1978, Regional operations research program for development of geothermal energy in the Southwest United States, Second quarterly report: New Mexico Energy Institute, New Mexico State University, 53 p.
- McCarthy, K.P., 1981, Ouray, Colorado; resource characteristics and future plans: Geothermal Resources Council, Transactions, v. 5, October, p. 545-548.

- McCarthy, K.P., 1982, Geothermal implications of warm mine water drainage at Lake City and Cripple Creek, Colorado: Open-File Report 82-5: Denver, CO, Colorado Geological Survey, 15 p.
- McCarthy, K.P., 1983, A helium exploration survey in the Animas Valley, Colorado, *in* Geothermal Resources Council, 1983 annual meeting, Portland, OR, Oct. 24-27, 1983, Transactions - Geothermal Resources Council, p. 311-314.
- McCarthy, K.P., Been, J.M., Reimer, G.M., Bowles, C.G., and Murrey, D.G., 1982, Helium and ground temperature of surveys at Steamboat Springs, Colorado: Colorado Geological Survey Special Publication 21, 12 p.
- McCarthy, K.P., Zacharakis, T.G., and Pearl, R.H., 1982, Geothermal resource assessment of Hartsel, Colorado: Colorado Geological Survey Resource Series 18, 86 p.
- McCarthy, K.P., Zacharakis, T.G., and Ringrose, C.D., 1982, Geothermal resource assessment of the Animas Valley, Colorado: Colorado Geological Survey Resource Series 17, 60 p.
- McCord, J., Reiter, M., and Phillips, F.M., 1992, Heat-flow data suggest large ground-water fluxes through Fruitland coals of the northern San Juan Basin, Colorado-New Mexico: *Geology*, v. 20, no. 5, p. 419-422.
- McDevitt, P.K., and Rao, C.R., 1978, District space heating potential of low temperature hydrothermal geothermal resources in the southwestern United States. Technical report: U.S. Department of Energy, Division of Geothermal Energy, 72 p.
- McGee, H.W., Meyer, H.J., and Pringle, T.R., 1989, Shallow geothermal anomalies overlying deeper oil and gas deposits in Rocky Mountain region: *American Association of Petroleum Geologists Bulletin*, v. 73, no. 5, p. 576-597.
- McNamara, J.J., and Kaufman, E.L., 1979, Hot dry rock geothermal resource ownership and the law: Los Alamos Scientific Laboratory, 42 p.
- Mdala, C.L., 1980, Magnetotelluric investigation in the San Luis Valley, Colorado: Golden, Colorado School of Mines, PhD Dissertation, 174 p.
- Meyer, H.J., and McGee, H.W., 1985, Oil and gas fields accompanied by geothermal anomalies in Rocky Mountain region: *American Association of Petroleum Geologists Bulletin*, v. 69, no. 6, p. 933-945.

- Meyer, R.T., and Bronder, L.D., 1980, Evaluation of state taxes and tax incentives and their impact on the development of geothermal energy in the western United States: Geothermal Resources Council, Transactions, v. 4, September, p. 739-741.
- Meyer, R.T., Coe, B.A., and Dick, J.D., 1981, Appendices of an appraisal for the use of geothermal energy in state-owned buildings in Colorado; Section A, Alamosa; Section B, Buena Vista; Section C, Burlington; Section D, Durango; Section E, Glenwood Springs; Section F, Steamboat Springs: Colorado Geological Survey Open-File Report 81-3, 145-166 p.
- Meyer, R.T., Coe, B.A., and Dick, J.D., 1981, An appraisal of the use of geothermal energy in state-owned buildings in Colorado: Colorado Geological Survey Resource Series 14, 65 p.
- Meyer, R.T., and Roberts, S.G., 1979, Economic analysis of geothermal energy options for the Baca Grande development: Denver, CO, Western Energy Planners.
- Miller, W.L., 1974, Geothermal energy and the environment, *in* Proceedings of a Symposium on Geothermal Energy and Colorado: Colorado Geological Survey Bulletin 35, p. 61-70.
- Morgan, P., Harder, V., and Giordano, T.H., 1986, Heat and fluid flow in the Rio Grande Rift; a possible modern thermal analogue of a Mississippi Valley type ore-forming system, *in* Nesbitt, R.W., and Nichol, I., eds., Geology in the real world; the Kingsley Dunham volume: London, Institute of Mineralogy and Metallurgy, p. 295-305.
- Morgan, P., Harder, V., Swanberg, C.A., and Daggett, P.H., 1981, A groundwater convection model for Rio Grande rift geothermal resources: Geothermal Resources Council - Transactions, v. 5, October, p. 193-196.
- Mossman, M.H., 1974, Requirements for private industry in developing geothermal energy, *in* Proceedings of a Symposium on Geothermal Energy and Colorado: Colorado Geological Survey Bulletin 35, p. 83-87.
- Muffler, J.P., 1978, Assessment of geothermal resources of the United States - 1978: U.S. Geological Survey Circular 790, 170 p.
- Muhm, J.R., 1979, Position Paper - Geothermal energy in Colorado: Colorado Communicator, v. 9, no. 2, p. 18-19.
- Munroe, R.J., and Sass, J.H., 1974, Basic heat-flow data from western United States - Colorado, *in* U.S. Geological Survey Open-File Report 74-9, p. 3-68 through 77.

-
- Murray, D.K., 1976, Energy resource development map of Colorado: Colorado Geological Survey Map Series 6: Denver, CO.
- Musgrave, J.A., Poths, J., and Norman, D.I., 1994, Fluid inclusion noble gas geochemistry of hydrothermal systems in the Rio Grande Rift, Geological Society of America, 1994 annual meeting, abstracts with programs, p. 356.
- Nannen, L.W., Kreith, F., and West, R.E., 1976, An investigation of the technical and economical feasibility of using low temperature geothermal sources in Colorado: Energy, v. 1, no. 2, p. 179-216.
- O'Connell, M.F., and Gilgan, G.A., 1978, Radioactivity associated with geothermal waters in the western US: A modeling effort to calculate working levels of Radon 222: Las Vegas, USEPA Office of Radiation programs.
- O'Connell, M.F., and Kaufmann, R.F., 1976, Radioactivity associated with geothermal waters in the western US: Technical Note ORPILV-75-8A: Las Vegas, USEPA Office of Radiation programs.
- Olson, H.J., and Dellechiaie, F., 1976, Mount Princeton geothermal area, Chaffee County, Colorado, *in* Epis, R.C., and Weimer, R.J., eds., Studies in Colorado field geology: Professional Contributions of the Colorado School of Mines: Golden, Colorado School of Mines, p. 431-438.
- Ortiz, T.A., and Fedor, D., 1979, New Mexico Southwest Regional Geothermal Development Operations Research Project. Appendix 9 of regional operations research program for development of geothermal energy in the Southwest United States. Final technical report, June 1977--August 1978, U.S. Department of Energy, Division of Geothermal Energy, 104 p.
- Parker, J.M., and Maurer, R.A., 1983, An economic feasibility study for a geothermal-coal hybrid power plant in Chaffee County, Colorado: Colorado School of Mines Quarterly, v. 78, no. 1, p. 34.
- Pearl, R.A., and Coe, B., 1979, Geothermal energy development in Colorado. Appendix 7 of regional operations research program for development of geothermal energy in the Southwest United States. Final technical report, June 1977--August 1978: Idaho Falls, U.S. Department of Energy, Division of Geothermal Energy, 52 p.
- Pearl, R.H., 1972, Geothermal resources of Colorado: Colorado Geological Survey Special Publication 2, 54 p.

-
- Pearl, R.H., 1972, Geothermal resources of Colorado; a summary: Davis, CA, Geothermal Resources Council, 7 p.
- Pearl, R.H., 1973, Geothermal resources of Colorado: American Association of Petroleum Geologists Bulletin, v. 57, no. 5, p. 960-961.
- Pearl, R.H., 1974, Proceedings of a symposium on geothermal energy and Colorado: Colorado Geological Survey Bulletin 35, 102 p.
- Pearl, R.H., 1974, Geothermal resources of Colorado: Geothermal Energy, v. 2, no. 1, p. 18-20.
- Pearl, R.H., 1975, Recent geothermal developments in Colorado: Geothermal Energy, v. 3, no. 6, p. 45-47.
- Pearl, R.H., 1977, Use of geothermometer models in the exploration for a hydrogeothermal resource, *in* Exploration Frontiers of the Central and Southern Rockies,: Rocky Mountain Association of Geologists, 1977 Symposium, Denver, CO, p. 417-421.
- Pearl, R.H., 1978, 1977-78 Year end report for geothermal reservoir assessment and confirmation program for direct heat applications in Colorado, U.S. Department of Energy, 7 p.
- Pearl, R.H., 1979, Colorado's hydrothermal resource base - An assessment: Colorado Geological Survey Resource Series 6, 144 p.
- Pearl, R.H., 1980, Geothermal Resources of Colorado: Colorado Geological Survey Map Series 14, 1 plate.
- Pearl, R.H., 1981, Hydrothermal resources of western Colorado, *in* New Mexico Geological Society; Thirty-second field conference. Oct. 8-10, 1981, Socorro, NM, p. 333-335.
- Pearl, R.H., 1981, Revised 1979 year end report for geothermal reservoir assessment and confirmation program for direct heat applications in Colorado: U.S. Department of Energy, 42 p.
- Pearl, R.H., 1982, Description of the drill cuttings from a deep geothermal well drilled at Alamosa, Colorado: U.S. Department of Energy.
- Pearl, R.H., 1983, Final technical report for the geothermal-reservoir assessment and confirmation program for direct-heat applications in Colorado: Colorado Geological Survey, 24 p.

- Pearl, R.H., and Barrett, J.K., 1976, Geothermal resources of the upper San Luis and Arkansas Valley, Colorado, *in* Epis, R.C., and Weimer, R.J., eds., *Studies in Colorado Field Geology: Professional Contributions no. 8*: Golden, Colorado School Mines, p. 439-445.
- Pearl, R.H., and Barrett, J.K., 1977, Use of hydrogeology, geochemistry, and geothermometer models in reconnaissance exploration for a hydrogeothermal resource: *American Association of Petroleum Geologists Bulletin*, v. 61, no. 8, p. 1386.
- Pearl, R.H., and Coe, B., 1980, Potential for geothermal energy development in Colorado, *in* Kent, H.C., and Porter, K.W., eds., *Symposium on Colorado geology*: Denver, Rocky Mountain Association of Geologists, p. 247-249.
- Pearl, R.H., Galloway, M.J., and Dick, J.D., 1978, The Pagosa Springs Project--The first permitted geothermal wells in Colorado: *Geothermal Resources Council, Transactions*, v. 2, July, p. 517-519.
- Pearl, R.H., and Healy, F.C., 1980, 1980 Mid-Term report--The Colorado geothermal commercialization project, in *State geothermal commercialization programs in the Rocky Mountain Basin and Range region, Semi-Annual Progress Report, January - June, 1980*: U.S. Department of Energy.
- Pearl, R.H., Zacharakais, T.G., and Repplier, F.N., 1981, A summary of D.O.E. funded geothermal resource assessment efforts in Colorado by the Colorado Geological Survey, *in* Ruscetta, C.A., and Foley, D., eds., *Geothermal direct heat program: Glenwood Springs technical conference proceedings. Volume I. Papers presented, State Coupled Geothermal Resource Assessment Program*: Salt Lake City, Earth Science Laboratory, University of Utah Research Institute, p. 100-104.
- Pearl, R.H., Zacharakais, T.G., and Ringrose, C.D., 1983, Geothermal resource assessment of the Steamboat-Routt Hot Springs area, Colorado: *Colorado Geological Survey Resource Series 22*, 86 p.
- Pearl, R.H., Zacharakis, T.G., Repplier, F.N., and McCarthy, K.P., 1981, *Bibliography of geothermal reports in Colorado*: *Colorado Geological Survey Bulletin 44*, 24 p.
- Pearl, R.H., Zacharakis, T.G., and Repplier, F.R., 1981, A summary of DOE funded geothermal resource assessment efforts in Colorado by the Colorado Geological Survey, *in* Ruscetta, Carl, A., and Foley, D., eds., *Geothermal Direct Heat Program; Glenwood Springs technical conference proceedings; Volume 1, Papers presented; State Coupled Geothermal Resource Assessment Program*, p. 100-104.

-
- Pearl, R.H., Zacharakis, T.G., and Ringrose, C.D., 1982, Geothermal resource assessment of Hot Sulphur Springs, Colorado: Colorado Geological Survey Resource Series 23, 50 p.
- Pell, K., Nydahl, J., Donnelly, D., Swanson, H., and Griffin, R., 1983, Geothermal heating of the bridges and tunnels in Glenwood Canyon, *in* Proceedings of the 33rd annual Highway Geology Symposium, Colorado Geological Survey Special Publication 22, p. 168-185.
- Phetteplace, D.R., and Kunze, J.F., 1983, Geothermal exploratory-well project: City of Alamosa, Colorado. Final report, September 1980-April 1983: Idaho Falls, Energy Services Inc., 133 p.
- Pritchett, R.W., 1994, Prosperity and land in Colorado; Front Range urban corridor: *The Mountain Geologist*, v. 31, no. 4, p. 119-127.
- Rafferty, K.D., 1989, A materials and equipment review of selected U. S. geothermal district heating systems: Klamath Falls, Geo-Heat Center, Oregon Institute of Technology, 383 p.
- Rafferty, K.D., 1990, An overview of U.S. Geothermal District Heating Systems: American Society of Heating, Refrigeration and Air Conditioning Engineers Transactions, v. 96, no. 2, p. 912-917.
- Reimer, G.M., Roberts, A.A., and Denton, E.H., 1976, The use of helium detection to locate energy resources: Abstracts with Programs - Geological Society of America, v. 8, no. 6, p. 1063-1064.
- Reiter, M., 2008, Geothermal anomalies in the crust and upper mantle along Southern Rocky Mountain transitions. *Geological Society of America Bulletin*: Vol. 120, No. 3, p. 431-441.
- Reiter, M., and Clarkson, G., 1983, Geothermal studies in the San Juan Basin and the Four Corners area of the Colorado Plateau II. Steady-State models of the thermal source of the San Juan Volcanic Field: *Tectonophysics*, v. 91, p. 253-269.
- Reiter, M., Edwards, C.L., Mansure, A.J., Peterson, B.K., Shearer, C., and Young, W., 1979, Deep terrestrial heat flow measurements in New Mexico and neighboring geologic areas, New Mexico Energy Institute, University of New Mexico, 77 p.

- Reiter, M., Edwards, C.L., Shearer, C., and Weidman, C., 1974, Terrestrial heat flow studies associated with the Rio Grande Rift and neighboring geologic provinces, *in* Nakamura, Y., ed., Conference on research for the development of geothermal energy resources; resources exploration and assessment.: Washington, D.C., p. 112.
- Reiter, M., and Mansure, A.J., 1983, Geothermal studies in the San Juan Basin and the Four Corners area of the Colorado Plateau; I, Terrestrial heat-flow measurements: *Tectonophysics*, v. 91, no. 3-4, p. 233-251.
- Reiter, M., Mansure, A.J., and Shearer, C., 1979, Geothermal characteristics of the Colorado Plateau: *Tectonophysics*, v. 61, p. 183.
- Reiter, M., Minier, J., and Gutjahr, A., 1985, Variance analysis of estimates and measurements of terrestrial heat flow: *Geothermics*, v. 14, no. 4, p. 499-509.
- Reiter, M., and Shearer, C., 1980, Deep terrestrial heat-flow studies in southwestern United States: *American Association of Petroleum Geologists Bulletin*, v. 64, no. 5, p. 771-772.
- Reiter, M.A., Edwards, C.L., Hartman, H., and Weidman, C., 1975, Terrestrial heat flow along the Rio Grande Rift, New Mexico and southern Colorado: *Geological Society of America Bulletin*, v. 68, no. 6, p. 811-818.
- Reiter, M.A., Mansure, A.J., and Shearer, C., 1979, Geothermal Characteristics of the Rio Grande Rift within the Southern Rocky Mountain Complex, *in* Riecker, R.E., ed., *Rio Grande Rift: tectonics and magmatism*: Washington, D. C., American Geophysical Union, p. 253-267.
- Renner, J.L., et. al., 1976, Selected geothermal resources data: hydrothermal convection systems in the states of AK, AZ, CA, CO, HA, ID, MT, NV, NM, Or, UT, WA, WY: National Technical Information Service Report USGS-CD-76-001, U.S. Geological Survey.
- Repplier, F.N., and Fargo, R.L., 1981, Geothermal gradient map of Colorado: Colorado Geological Survey Map Series 20, 1 plate.
- Repplier, F.N., Relf, N.M., and Columbia, R.K., 1981, Groundwater temperature map of Colorado: Colorado Geological Survey Map Series 21, 1 plate.
- Repplier, F.N., Zacharakis, T.G., and Ringrose, C.D., 1982, Geothermal resource assessment of Idaho Springs, Colorado: Colorado Geological Survey Resource Series 16, 50 p.

- Republic Geothermal Inc., 1980, Geothermal Reservoir Well Stimulation Program: Technology Transfer: Santa Fe Springs, U.S. Department of Energy, Division of Geothermal Energy, 137 p.
- Ringrose, C.D., 1980, Temperature--Depth profiles in the San Luis Valley and Canon City area, Colorado: Colorado Geological Survey Open-File Report 80-12.
- Ringrose, C.D., and Pearl, R.H., 1981, Soil mercury investigations, Waunita Hot Springs, *in* Zacharakis Ted, G., ed., Geothermal resources assessment of Waunita Hot Springs, Colorado: Colorado Geological Survey Special Publication 16, p. 63-69.
- Roberts, A.A., Friedman, I., Donovan, T.J., and Denton, E.H., 1975, Helium survey, a possible technique for locating geothermal reservoirs: Geophysical Research Letters, v. 2, no. 6, p. 209-210.
- Rogers, W.L., 1974, Geothermal energy and the Energy Crisis: banquet speech, *in* Proceedings of a Symposium on geothermal energy and Colorado, Colorado Geological Survey Bulletin 35, p. 97-102.
- Rold, J.W., 1974, Geothermal energy and Colorado - An Introduction, *in* Proceedings of a Symposium on geothermal energy and Colorado, Colorado Geological Survey Bulletin 35, p. 1-9.
- Romero, J., and Fawcett, D., 1978, Geothermal resources of south central Colorado and their relationship to ground and surface waters: Colorado Division of Water Resources Investigations 78-2, 127 p.
- Romero, J.C., 1978, Potential geothermal reservoirs in southern Colorado, *in* U.S. Geological Survey Professional Paper 1100, p. 208.
- Romero, J.C., and Fawcett, D.W., 1977, Geothermal exploration in central Colorado: American Association of Petroleum Geologists Bulletin, v. 61, no. 8, p. 1389.
- Roy, R.F., Decker, E.R., Blackwell, D.B., and Birch, F.S., 1968, Heat flow in the United States: Journal of Geophysical Research, v. 73, p. 5207-5221.
- Ruscetta, C., A., ed., 1982, Geothermal Direct Heat Program, roundup technical conference proceeding, volume I, papers presented, State Coupled Resource Assessment Program: Salt Lake City, Earth Science Laboratory, University of Utah Research Institute, 312 p.

- Ruscetta, C.A., 1982, Geothermal direct heat program: roundup technical conference proceedings. Volume II. Bibliography of publications. State-coupled geothermal resource assessment program: Salt Lake City, Earth Science Laboratory, University of Utah Research Institute, 67 p.
- Sacarto, D.M., 1976, State policies for geothermal development: Denver, National Conference of State Legislatures, 94 p.
- Sass, J.H., Lachenbruch, A.H., Munroe, R.J., Greene, G.W., and Moses, T.H., 1971, Heat flow in the western United States: *Journal of Geophysical Research*, v. 76, no. 26, p. 6376-6413.
- Sass, J.H., and Robertson, T.A., 1998, Potential for "enhanced geothermal systems" in the Western United States, *in* International Conference 4th Hot-Dry-Rock (HDR) Forum, Strasbourg, France 1998, Schweizerbart, Stuttgart, p. 35-42.
- Schwochow, S.D., Boreck, D.L., and Collins, D.B., 1979, The Colorado Geological Survey and the mineral industry-energy resource development: *Mines Magazine*, v. 69; 5, p. 5-9.
- Segall, P., and Mossop, A., 1995, Beyond Rangely; poro- and thermoelasticity induced seismicity, International Union of Geodesy and Geophysics; XXI general assembly; abstracts., p. 364.
- Seitz, N., 1982, Geothermal electric generation. Final report, Unknown Origin, 10 p.
- Sharp, W.N., 1970, Extensive zeolitization associated with hot springs in central Colorado: U.S. Geological Survey Professional Paper 700-B, p. B14-B20.
- Simpson, H.D., 1994, Geothermal well rules: Denver, CO, State of Colorado, Division of Water Resources, Office of the State Engineer, 25 p.
- Simpson, H.D., 2001, Variance from Rule 7.1 of the geothermal well rules: Policy Memorandum 2001-1: Denver, Division of Water Resources, Office of the State Engineer, 4 p.
- Simpson, H.D., 2004, Revocation of Policy Memorandum 2001-1: Denver, Division of Water Resources, Office of the State Engineer, 1 p.
- Simpson, H.D., 2004, Rules and regulations for permitting the development and appropriation of geothermal resources through the use of wells (Geothermal Rules): 2 CCR 402-10: Denver, Division of Water Resources, Office of the State Engineer, 30 p.

-
- Skalka, M., 1979, The Division of Geothermal Energy (U.S. Department of Energy) Direct Heat Application Program: Geothermal Resources Council, Transactions, v. 3, September.
- Sonnichsen, J.C., 1980, Review of water resource potential for developing geothermal resource sites in the western United States: National Technical Information Service Report HEDL-TME-79-74: Richland, WA, Hanford Engineering Development Laboratory, 76 p.
- Sorey, M.L., and Reed, M.J., 1984, Low-temperature geothermal resources in the Dakota Aquifer, *in* Proceedings of the First C. V. Theis conferences on geohydrology; Geohydrology of the Dakota Aquifer. Lincoln, NE. Oct. 5-6, 1982, National Water Well Association, p. 169-175.
- Soulliere, S., J., 1996, Geothermal Resources, *in* Soulliere, S.J., Toth, M.I., Bankey, V.L., Smith, S.M., Pitkin, J.A., Cookro, T.M., Robinson, R.L.N., Molnia, C.L., Wandrey, C.J., Law, B.E., Spencer, C.W., Barker, C.E., and Dersch, J.S., eds., Resource potential and geology of the Routt National Forest and the Middle Park Ranger District of the Arapaho National Forest, Colorado; with a section on salable minerals: U. S. Geological Survey Open-File Report 96-082, p. 130.
- Soulliere, S.J., 2000, Geothermal Resources, *in* Bankey, V., Soulliere, Sandra, J., and Toth, Margo, I., eds., Mineral resource potential and geology of the Routt National Forest and the Middle Park Ranger District of the Arapaho National Forest, Colorado: U. S. Geological Survey Professional Paper 1610, p. 97.
- Stevens, T.A., 1969, Possible relation of mineralization to thermal springs in the Creede district, San Juan Mountains, Colorado: A discussion: Economic Geology, v. 64, p. 696-698.
- Stone, R.T., 1974, Governmental leasing regulations, *in* Proceedings of a Symposium on Geothermal Energy and Colorado: Colorado Geological Survey Bulletin 35, p. 89-90.
- Stoughton, D.D.H., 1977, Interpretation of seismic reflection data from the San Luis Valley, south central Colorado: Golden, Colorado School of Mines, Master of Science, 100 p.
- Streufert, R.K., 1999, Geology and mineral resources of Gunnison County, Colorado: Colorado Geological Survey Resource Series 37, 76 p.

- Swanberg, C.A., 1978, Chemistry of thermal and nonthermal groundwaters in the Rio Grande Rift and adjacent tectonic provinces, *in* 1978 International symposium on the Rio Grande Rift; program and abstracts. Santa Fe, NM, October 8-17, 1978, Los Alamos Scientific Laboratory, p. 279-288.
- Swanberg, C.A., 1980, Water quality of geothermal waters; Part 1, Distribution of saline water, *in* Icerman, L., Starkey, A., and Trentman, N., eds., State-coupled Low Temperature Geothermal Resource Assessment Program, fiscal year 1979; final technical report, p. 2.1-2.4.
- Swanberg, C.A., 1980, Water quality of geothermal waters; Part 2, Water quality of geothermal waters, *in* Icerman, L., Starkey, A., and Trentman, N., eds., State-coupled Low Temperature Geothermal Resource Assessment Program, fiscal year 1979; final technical report, p. 2.5-2.38.
- Swanberg, C.A., 1980, Subsurface temperatures of geothermal resources; Part 2, Catalogue of thermal waters, *in* Icerman, L., Starkey, A., and Trentman, N., eds., State-coupled Low Temperature Geothermal Resource Assessment Program, fiscal year 1979; final technical report, p. 1.18-1.30.
- Swanberg, C.A., and Morgan, P., 1985, Silica heat flow estimates and heat flow in the Colorado Plateau and adjacent areas: *Journal of Geodynamics*, v. 3, p. 65-85.
- Swanson, H.N., 1980, Evaluation of geothermal energy for heating highway structure: Colorado Department of Highways.
- Thomaidis, N.D., 1974, Developments in Four Corners-Intermountain area in 1973: *American Association of Petroleum Geologists Bulletin*, v. 58, no. 8, p. 1581-1585.
- U.S. Department of Energy, 1982, Geothermal progress monitor report No. 6, June 1982, U.S. Department of Energy, 95 p.
- U.S. Department of Energy, EG&G Inc, and University of Utah Research Institute, 1978, Regional hydrothermal commercialization plan, Rocky Mountain Basin and Range region: Idaho Falls, U.S. Department of Energy, Division of Geothermal Energy, 149 p.
- Uitti, P.B., 1980, Interpretation of seismic reflection data from the southern San Luis Valley south-central Colorado: Golden, Colorado School of Mines, Master of Science, 49 p.
- University of Denver, 1980, Municipal geothermal heat utilization plan for Glenwood Springs, Colorado: Denver Research Institute, 266 p.

-
- USDOE, 2005, Geothermal Technologies Program: Colorado: related information: GeoPowering the West (Fact Sheet), U.S. Department of Energy, 2 p.
- Van Loenen, R.E., Gibbons, A.B., Raby, A.G., and Dersch, J.S., 1997, Mineral resource potential and geology of the San Juan National Forest, Colorado; with a section on salable minerals: U. S. Geological Survey Bulletin 2127, 140 p.
- Vorum, M., Coury, G.E., Goering, S.W., and Fritzler, E.A., 1978, Non-electric utilization of geothermal energy in the San Luis Valley, Colorado, Final Report: Idaho Falls, U.S. Department of Energy, 151 p.
- Wagner, S., 1977, State taxation of other energy minerals compared with state taxation of geothermal resources: Special Report 4, Davis, Geothermal Resources Council, 82 p.
- Walton, G.E., 1883, Idaho, Middle Park, Rocky Mountain Springs, *in* Mineral Springs of the United States and Canada, Philadelphia, D. Appleton and Co., p. 304-305, 335.
- Waring, G.A., 1965, Thermal springs of the United States and other countries of the World--A summary: U. S. Geological Survey Professional Paper 492, 383 p.
- Warner, L.A., 1986, Strain rates, stress distribution and seismic potential in central Colorado, *in* Rogers, William, P., and Kirkham, Robert, M., eds., Contributions to Colorado seismicity and tectonics; a 1986 update: Colorado Geological Survey Special Publication 28, p. 28-42.
- Warren, R.E., Sclater, J.G., Vacquier, V., and Rof, R.F., 1969, Comparison of terrestrial heatflow and transient geomagnetic fluctuations in the southwestern United States: Geophysics, v. 34, no. 3, p. 463-478.
- Warren, W.J., Jr., 1986, A geothermal exploration project in Pagosa Springs, Colorado: Golden, Colorado School of Mines, Master of Science, 115 p.
- Wehlage, E.L., 1974, Colorado has sources of geothermal energy: Geothermal Energy, v. 2, no. 1, p. 21-24.
- Weimer, P., 1981, Bedrock geology of the Ridgeway area, northwestern flank, San Juan Mountains, Colorado, *in* Epis, Rudy, C., and Callender, Jonathan, F., eds., Western Slope, Colorado; western Colorado and eastern Utah.: Guidebook: Socorro, New Mexico Geological Society, p. 97-104.

- Western Energy Planners, 1982, Geothermal resource, engineering and economic feasibility study for the City of Ouray, Colorado: Aurora, CO, Western Energy Planners Ltd., 28 p.
- Western Governors' Association, 2006, Geothermal task force report, Western Governor's Association, 66 p.
- Whelan, T.W., 2002, Geothermal Resource Exploration and Definition II (GRED II), Volume I & II, Town of South Fork, CO.
- White, D.E., Hem, J.U., and Waring, G.A., 1963, Data of geochemistry 6th Ed., Chapter F, Chemical composition of subsurface waters: U. S. Geological Survey Professional Paper 440-F, 66 p.
- White, D.E., and Williams, D.L., 1975, Assessment of geothermal resources of the United States, 1975: U. S. Geological Survey Circular 726, 155 p.
- Williams, A.E., 1978, Circulation in a fossil geothermal area; delta¹⁸ O study, *in* Zartman, R.E., ed., Short papers of the fourth international conference, geochronology, cosmochronology, isotope geology, 1978: U. S. Geological Survey Open-File Report 78-701, p. 453-455.
- Williams, A.E., 1978, O¹⁸ depletion and hydrothermal flow patterns; Alamosa River Stock, Colorado: Abstracts with Programs - Geological Society of America, v. 10, no. 7, p. 516.
- Williams, A.E., and Sommer, M.A., II, 1977, O¹⁸ study of the Alamosa River Stock, a fossil geothermal area: Eos, Transactions, American Geophysical Union, v. 58, no. 6, p. 540.
- Witcher, J.C., 2005, A geothermal resources assessment of the Charlotte Hot Springs Resort area near Buena Vista, Colorado: Final Phase 1 report: Springfield, VA, McNeil Technologies, Inc., 51 p.
- Zacharakis, T.G., 1981, Revised heat flow map of Colorado: Colorado Geological Survey Map Series 18, 1 plate.
- Zacharakis, T.G., 1981, Temperature, heat flow maps, and temperature gradient holes, *in* Zacharakis, Ted, G., ed., Geothermal resources assessment of Waunita Hot Springs, Colorado: Colorado Geological Survey Special Publication 16, p. 56-62.
- Zacharakis, T.G., 1981, Geothermal resources assessment of Waunita Hot Springs, Colorado: Colorado Geological Survey Special Publication 16, 69 p.

Zacharakis, T.G., and Pearl, R.H., 1982, Geothermal resource assessment of Canon City, Colorado area: Colorado Geological Survey Resource Series 20, 81 p.

Zacharakis, T.G., Pearl, R.H., and Ringrose, C.D., 1983, Geothermal resource assessment of western San Luis Valley, Colorado: Colorado Geological Survey Resource Series 19, 71 p.

Zacharakis, T.G., Pearl, R.H., and Ringrose, C.D., 1983, Geothermal resource assessment of Ranger Warm Spring, Colorado: Colorado Geological Survey Resource Series 24, 65 p.

Zacharakis, T.G., Ringrose, C.D., and Pearl, R.H., 1981, Geothermal resources assessment of Ouray, Colorado: Colorado Geological Survey Resource Series 15, 70 p.

Zeisloft, J., and Sibbett, B.S., 1985, User Coupled Confirmation Drilling Program case study: City of Alamosa, Colorado, Alamosa No. 1 geothermal test well: Earth Science Laboratory, University of Utah Research Institute, 39 p.

Zietz, I., and Kirby, J.R., Jr., 1972, Aeromagnetic map of Colorado: U.S. Geological Survey Geophysical Investigations Map GP-880, 1 plate.

Zocholl, J.R., and Meyer, R.T., 1981, An engineering design for geothermal commercial and industrial direct heat applications in Salida, Colorado: Geothermal Resources Council Transactions, v. 5, p. 583-586.

Zohdy, A.A.R., and Bisdorf, R.J., 1993, A direct-current resistivity survey near Mineral Hot Springs, San Luis Valley, Colorado: U.S. Geological Survey Open-File Report 93-282, 61 p.