BIBLIOGRAPHY, INDEX, AND DATA SOURCES FOR GROUND-WATER HYDROLOGY AND GEOLOGY OF COLORADO WEST OF THE CONTINENTAL DIVIDE

By Edward R. Banta and Theresa Jo Lane

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ABSTRACT

The potential for development of the ground-water resources in Colorado west of the Continental Divide is great; however, sources of data concerning the geohydrology of the area are disorganized and scattered. This report presents a bibliography, an index, and sources of available data about the ground-water hydrology and geology of Colorado west of the Continental Divide. Interpretive reports, data reports, and geologic maps dated 1871 through 1989 are referenced and indexed. Sources of site-specific data from wells and test holes are tabulated.

INTRODUCTION

Ground-water resources in Colorado west of the Continental Divide have not been used extensively because of the general abundance of surface water and because of a lack of knowledge about the aquifer systems in the area. However, the potential for development of the ground-water resources in western Colorado is great. To effectively develop, administer, and manage these potential resources, Federal, State, and other agencies need to use all available data concerning the geohydrology of Colorado west of the Continental Divide, but sources of these data are disorganized and scattered. In 1989, the U.S. Geological Survey, in cooperation with the Colorado Water Conservation Board, began to identify, reference, and index the sources of geohydrologic data for western Colorado to establish a central source of information for use by ground-water hydrologists.

This report presents a bibliography, an index, and sources of the available data about the ground-water hydrology and geology of Colorado west of the Continental Divide. Interpretive reports, data reports, and geologic maps are referenced in the bibliography section. The bibliography is intended to be comprehensive for 1871, the date of the earliest report referenced, through 1989. These publications are indexed by county, technical content, geohydrologic unit, and selected descriptors in the index section. Numbers following the index entries refer to numbers assigned to each reference in the bibliography section. Some reference numbers intentionally have been skipped as a result of deletion of duplicate references. References that are oriented toward ground-water hydrology were scanned to determine the types of tabulated data and maps available in each. These are referenced in indented sub-indexes

under county, descriptor, and geohydrologic-unit entries in the index; references to reports containing thematic maps are listed under the index entry: "Maps, by geohydrologic unit and theme." Extensive efforts have been made to ensure that all citations in this bibliography are correct. However, not all references could be verified; as a result, some citations may contain errors or may be incomplete. Entries in the index were derived from publication titles, from other bibliographies (references 16, 17, 18, 19, and 1287), and from scanning the publications oriented toward ground-water hydrology. Where index entries include sub-index entries, the sub-index entries were determined by intersection of the sets of references for which the main index entry and the sub-index entry apply individually. This approach produces a thoroughly indexed bibliography, but one which should be used with awareness of the method used to produce it. For example, a report that discusses several geohydrologic units and includes aquifer-test results for some, but not all, of those units will be listed under "Aquifer tests" under each of the geohydrologic units discussed, even though aquifer-test results are not included in the report for all geohydrologic units discussed in the report.

Sources of site-specific data from wells and test holes are listed in table 1. Those sources include Federal and State agencies and private firms. The wells and test holes from which the data were obtained were drilled to be water-, oil-, or gas-withdrawal wells, monitoring wells, or oil, gas, or mineral test holes.

The authors thank Jerry Blair of American Stratigraphic Company; Richard Anderson of Anderson Stratigraphic and Geologist Service; Robert Quillin, Jeff Deckler, and George Moravec of the Colorado Department of Health; Carol Tremain of the Colorado Department of Natural Resources, Geological Survey; Berhan Keffelew and James Pendleton of the Colorado Department of Natural Resources, Mined Land Reclamation Division; James Kenney of the Colorado Department of Natural Resources, Oil and Gas Conservation Commission; George Van Slyke of the Colorado Department of Natural Resources, Division of Water Resources; Brandy Gilmore of the Colorado Highway Department; Joseph Kulik of Denver Earth Resources Library; Lawrence Sanek of MJ Systems; William Werrell of the National Park Service; Mark Chase of Petroleum Information; George Knoll of the Southern Ute Indian Reservation, Natural Resources Division; Steve Manydeeds of the U.S. Bureau of Indian Affairs; Fred Conrath, Bruce Fowler, and Kent Hoffman of the U.S. Bureau of Land Management; Karl Starch of the U.S. Bureau of Mines; Lynn Johnson of the U.S. Bureau of Reclamation; and Darcy Campbell, George Dancik, and Pat Smith of the U.S. Environmental Protection Agency for providing information concerning data held by their organizations.

Table 1.--*Sources of geohydrologic and geologic data for wells and test holes in western Colorado*

Organization name, mailing address, telephone number, and name or position of contact person	Data available and form of data (P, Paper; D, Digital; M, Microfilm)	Locations where data were obtained
American Stratigraphic Company 6280 E. 39th Ave. Denver, CO 80207 (303) 399-2746 Anyone	Lithologic logs: P,D Core descriptions or analyses: P,D Borehole-geophysical logs: P Drill-stem-test data: P	Rocky Mountain States plus North and South Dakota--from oil and gas wells and test holes only.
Anderson Stratigraphic and Geologist Service 385 S. Zuni St. Denver, CO 80223 (303) 937-9409 Richard Anderson	Core descriptions or analyses: P Drill-stem-test data: P	Rocky Mountain States--from oil and gas wells and test holes only.
Colorado Department of Health, Radiation Control Division 4210 E. 11th Ave. Denver, CO 80220 (303) 331-8480 Radiation Control Division Director	Water levels: P Lithologic logs: P Core descriptions or analyses: P Borehole geophysical logs: P Ground-water-quality analyses: P Aquifer-test data: P	Existing and proposed uranium mill sites near Maybell, Naturita, Sargents, Slick Rock, and Uravan.
Colorado Department of Health, Uranium Mill Tailings Remedial Action Program 4210 E. 11th Ave. Denver, CO 80220 (303) 331-4808 UMTRA Project Manager	Water levels: P Lithologic logs: P Ground-water-quality analyses: P	Uranium Mill Tailings Remedial Action (UMTRA) sites.
Colorado Department of Health, Water-Quality Control Division 4210 E. 11th Ave. Denver, CO 80220 (303) 331-4556 Ground-Water Unit Leader	Lithologic logs: P Ground-water-quality analyses: D	Parts of Delta and Montrose Counties.
Colorado Department of Natural Resources, Geological Survey Centennial Building, Room 715 1313 Sherman St. Denver, CO 80203 (303) 866-2611 Carol Tremain, Senior Geologist	Lithologic logs: P Core descriptions or analyses: P Borehole geophysical logs: P	Colorado State lands.
Colorado Department of Natural Resources, Mined Land Reclamation Division, Coal Program Centennial Building, Room 215 1313 Sherman St. Denver, CO 80203 (303) 866-3567 Reclamation Specialist	Water levels: P,M Lithologic logs: P,M Core descriptions or analyses: P,M Borehole geophysical logs: P,M Ground-water-quality analyses: P,M Aquifer-test data: P,M	Specific coal mines in Colorado.
Colorado Department of Natural Resources, Mined Land Reclamation Division, Minerals Program Centennial Building, Room 215 1313 Sherman St. Denver, CO 80203 (303) 866-3567 Program Supervisor for Minerals Program	Water levels: P,M Lithologic logs: P,M Core descriptions or analyses: P,M Borehole geophysical logs: P,M Ground-water-quality analyses: P,M Aquifer-test data: P,M	Locations scattered throughout State.

Table 1.--*Sources of geohydrologic and geologic data for wells and test holes in western Colorado*--Continued

Organization name, mailing address, telephone number, and name or position of contact person	Data available and form of data (P, Paper; D, Digital; M, Microfilm)	Locations where data were obtained
Colorado Department of Natural Resources, Oil and Gas Conservation Commission Suite 380 1580 Logan St. Denver, CO 80203 (303) 894-2100 Senior Engineer	Lithologic logs: M Core descriptions or analyses: M Borehole geophysical logs: M Ground-water-quality analyses: P Drill-stem-test data: M	Colorado.
Colorado Department of Natural Resources, Division of Water Resources Centennial Building, Room 821 1313 Sherman St. Denver, CO 80203 (303) 866-3447 Records Section	Water levels: P,M Lithologic logs: P,M Borehole geophysical logs: P Ground-water-quality analyses: P,M	Colorado.
Colorado Highway Department 4340 E. Louisiana Ave. Denver, CO 80222 (303) 757-9275 Chief Geologist	Water levels: P Lithologic logs: P Core descriptions or analyses: P	Highway rights-of-way in Colorado.
Denver Earth Resources Library Equitable Building, Suite B-1 730 17th St. Denver, CO 80202 (303) 825-5614 Manager	Lithologic logs: P,M Core descriptions or analyses: P,M Borehole geophysical logs: P,M Drill-stem-test data: P,M	Rocky Mountain States--from oil and gas wells and test holes only.
MJ Systems 5085 Oakland St. Denver, CO 80239 (303) 371-1960 Vice President of Domestic Operations	Lithologic logs: D,M Core descriptions or analyses: D,M Borehole geophysical logs: D,M Drill-stem-test data: D,M	United States--from oil and gas wells and test holes only.
National Park Service, Water Resources Division 301 S. Howes St. Fort Collins, CO 80521 (303) 221-5341 Chief, Water Resources Division or contact superintendents of individual national parks, monuments, or recreation areas	Water levels: P Lithologic logs: P Borehole geophysical logs: P Ground-water-quality analyses: P Aquifer-test data: P	National parks, national monuments, national recreation areas.
Petroleum Information P.O. Box 2612 Denver, CO 80201-2612 (303) 825-2299 Senior Sales Representative	Lithologic logs: P Core descriptions or analyses: D Borehole geophysical logs: P Drill-stem-test data: D	United States--from oil and gas wells and test holes only.
Southern Ute Indian Reservation, Natural Resources Division P.O. Box 737 Ignacio, CO 81137 (303) 563-4525 Chief, Natural Resources Division	Water levels: P Lithologic logs: P Ground-water-quality analyses: P	Southern Ute Indian Reservation.

Table 1.--*Sources of geohydrologic and geologic data for wells and test holes in western Colorado*--Continued

Organization name, mailing address, telephone number, and name or position of contact person	Data available and form of data (P, Paper; D, Digital; M, Microfilm)	Locations where data were obtained
U.S. Bureau of Indian Affairs, Division of Energy and Minerals, Office of Trust Responsibility Room 239 730 Simms St. Lakewood, CO 80401 (303) 231-5070 Division Chief	Borehole geophysical logs: M Ground-water-quality analyses: P Drill-stem-test data: P,D	Ute Mountain Indian Reservation and Southern Ute Indian Reservation.
U.S. Bureau of Land Management, Craig District Office 455 Emerson St. Craig, CO 81625 (303) 824-8261 District Geologist	Water levels: P Lithologic logs: P Core descriptions or analyses: P Borehole geophysical logs: M Ground-water-quality analyses: P Aquifer-test data: P Drill-stem-test data: P	Craig district (Craig-Kremmling-Meeker area).
U.S. Bureau of Land Management, Grand Junction District Office 764 Horizon Drive Grand Junction, CO 81506 (303) 243-6561 Minerals Specialist	Water levels: P Lithologic logs: P Borehole geophysical logs: M Ground-water-quality analyses: P Drill-stem-test data: P	Grand Junction district (Glenwood Springs-Grand Junction area).
U.S. Bureau of Land Management, San Juan Resource Area Office Federal Building 701 Camino Del Rio Durango, CO 81301 (303) 247-4082 Minerals Staff Chief	Water levels: P Lithologic logs: P,M Core descriptions or analyses: P Borehole geophysical logs: P,M Ground-water-quality analyses: P Drill-stem-test data: P	Montrose district (Durango-Gunnison-Montrose area).
U.S. Bureau of Mines, Intermountain Field Operations Center Building 20 Denver Federal Center Denver, CO 80225 (303) 236-0474 Librarian	Lithologic logs: P Core descriptions or analyses: P	Federal public lands.
U.S. Bureau of Reclamation, Geohydraulics section Mail Code D5741, Denver Office P.O. Box 25007 Denver, CO 80225 (303) 236-8070 Head, Geohydraulics Section	Water levels: P,D Lithologic logs: P,D Core descriptions or analyses: P,D Borehole geophysical logs: P,D Ground-water-quality analyses: P,D	Areas close to Bureau projects (dams) and proposed projects along stream systems.
U.S. Environmental Protection Agency, Hazardous Waste Management Division Mail Code 8HWM-SM 999 18th St., Suite 500 Denver, CO 80202-2405 (303) 294-7596 Regional Hydrogeologist (Superfund)	Water levels: P,D,M Lithologic logs: P,M Borehole geophysical logs: P,M Ground-water-quality analyses: P,D,M Aquifer-test data: P,D,M	Superfund sites and surrounding areas.
U.S. Environmental Protection Agency, Hazardous Waste Management Division 999 18th St., Suite 500 Denver, CO 80202-2405 (303) 293-1506 Environmental Engineer for Colorado/Montana RCRA section	Water levels: P Lithologic logs: P Ground-water-quality analyses: P	Resource Conservation and Recovery Act (RCRA) sites.

Table 1.--*Sources of geohydrologic and geologic data for wells and test holes in western Colorado*--Continued

Organization name, mailing address, telephone number, and name or position of contact person	Data available and form of data (P, Paper; D, Digital; M, Microfilm)	Locations where data were obtained
U.S. Environmental Protection Agency, Hazardous Waste Management Division 999 18th St., Suite 500 Denver, CO 80202-2405 (303) 293-1262 Superfund Site Assessment Manager	Water levels: P Lithologic logs: P	Potential superfund sites.
U.S. Geological Survey, Water Resources Division, Colorado District Office P.O. Box 25046, Mail Stop 415 Denver, CO 80225-0046 (303) 236-4882 Chief, Hydrogeologic Unit or Chief, Surveillance Section	Water levels: D Ground-water-quality analyses: D Aquifer-test data: D	Colorado (National Water Information System files).
U.S. Geological Survey, Water Resources Division, Lakewood Field Headquarters P.O. Box 25046, Mail Stop 423 Denver, CO 80225-0046 (303) 236-9404 Chief, Lakewood Field Headquarters	Water levels: P Lithologic logs: P Borehole geophysical logs: P Aquifer-test data: P	Colorado.

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SUBJECT INDEX

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