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Bibliography of studies dealing with ground water in Santa Fe County, 1886-1979

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This is one of many related papers that were included in the 1979 NMGS Fall Field Conference Guidebook.

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BIBLIOGRAPHY OF STUDIES DEALING WITH GROUND WATER IN SANTA FE COUNTY, 1886-1979

ROBERT L. BORTON
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Atkinson, W. W., Jr., 1961, Water supply: New Mexico Bureau of Mines and Mineral Resources Bulletin 77, p. 42.

Beaumont, E. C., 1971, Ground-water potential in the vicinity of section 34, T. 18 N., R. 8 E., Santa Fe County, New Mexico: Consult. rept. to Public Service Co. New Mexico, 24 p.

Black and Veatch, 1976, Report on the digital modeling of the Buckman well field (Santa Fe County): Consult. rept. to Public Service Co. of New Mexico, 33 p.

----, 1978a, Construction and testing report, Buckman well no. 1 (New Mexico RG-20516-5-5): Consult. rept. to Public Service Co. of New Mexico, 33 p.

, 1978b, Construction and testing report, Buckman well no. 2 (New Mexico RG-20516-5-6): Consult. rept. to Public Service Co. of New Mexico, 40 p.

Borton, R. L., 1968, General geology and hydrology of north-central Santa Fe County, New Mexico: New Mexico State Engineer Open-File Report, 21 p.; (abs.) *in* New Mexico Geological Society Guidebook 19, p. 210-211.

– ---, 1974, A listing of geohydrologic data for 106 exploratory holes drilled by Nuclear Dynamics, Inc., in Rio Arriba, Sandoval, and Santa Fe Counties, 1970-72: New Mexico State Engineer Open-File Report, 9 p.

Brown, A. F., 1970, Ground-water survey of the Phillip McKee Ranch (Santa Fe County) for AM REP: Consult. rept., 12 p.

Bryan, K., 1928, Water supply for irrigation by artesian wells at Tesuque Pueblo, New Mexico: U.S. Geological Survey Open-File Report, 19 p.

– ---, 1938, Geology and ground-water conditions of the Rio Grande depression in Colorado and New Mexico, *in* (U.S.) National Resources Committee, regional planning, part VI-the Rio Grande Basin in Colorado, New Mexico, and Texas, 1936-37: U.S. Government Printing Office, Washington, v. 1, pt. 2, p. 197-225.

Budding, A. J., 1972, Natural resources: New Mexico Bureau of Mines and Mineral Resources Geologic Map 24.

Clark, F. W., 1886 (Analysis of) Water from mineral spring one mile west of Santa Fe, New Mexico: U.S. Geological Survey Bulletin 27, p. 76.

Consulting Professionals, Inc., 1975, Hydrogeologic report, La Tierra subdivision, Santa Fe County, New Mexico: Consult. rept. to Robert Weil, 12 p., 1 app.

----, 1977, Hydrologic report, La Tierra subdivision, phase 3, Santa Fe County, New Mexico: Consult. rept. to Robert Weil, 13 p.

----, 1978, Hydrogeologic report, La Tierra subdivision, phase 4, Santa Fe County, New Mexico: Consult. rept. to Robert Weil, 11 p., 1 app.

Coonce, C. A., and Associates, 1977a, Capling subdivision, preliminary water-availability study for Cipriano Martinez, Santa Fe, New Mexico: Consult. rept. to Cipriano Martinez, 9 p.

– 1977b, Montoya subdivision, water-availability study for Cipriano Martinez, Santa Fe, New Mexico: Consult. rept., 20 p.

– ---, 1977c, Santa Fe Downs property, water-availability study for Cipriano Martinez, Santa Fe, New Mexico: Consult. rept. to Cipriano Martinez, 8 p.

– ---, 1977d, Villa subdivision, preliminary water-availability study for Cipriano Martinez, Santa Fe, New Mexico: Consult. rept. to Cipriano Martinez, 9 p.

Dinwiddie, G. A., 1964, Availability of ground water for irrigation of the Pojoaque Pueblo grant, Santa Fe County, New Mexico: U.S. Geological Survey Open-File Report, 11 p.

, 1967, Rio Grande basin-geography, geology, and hydrology, *in* Water resources of New Mexico: New Mexico State Planning Office, Santa Fe, p. 129-142.

Earth Environmental Consultants, Inc., 1976, Geohydrologic conditions in the area of Bachelor Draw subdivision and Lynch Place subdivision (Santa Fe County): Consult. rept. to Fred C. Hill, 13 p.

Geohydrology Associates, Inc., 1978, Preliminary evaluation, geology and hydrology for the city of Santa Fe land application sites: Consult. rept. to Scanlon and Associates, 38 p.

Glassmire, S. H., 1959, Santa Fe water report: Consult. rept. to Public Service Co. of New Mexico, 45 p.

Hagerman, C. de B., 1964a, Ground-water report, Episcopal Church property, Canada de los Alamos (Santa Fe County): Consult. rept. to Episcopal Church, 4 p.

, 1964b, Water availability, Lawrence tract, Santa Fe County, New Mexico: Consult. rept., 3 p.

----, 1967, Ground-water availability, Galisteo Creek (Santa Fe County): Consult. rept., 7 p.

, 1970, Geology and water_ potential, Coronado site (Santa Fe County): Consult. rept., 8 p.

– ---, 1973, Availability of water, McKee tract, Galisteo area, Santa Fe County, New Mexico: Consult. rept., 12 p.

– ---, 1974a, McKee Flats #1 well test: Consult. rept., 12 p.

– 1974b, Geologic units and hydrologic conditions, Santa Fe County, New Mexico: Consult. rept. to Board of Santa Fe County Commissioners, 29 p.

----, 1975, Reconnaissance survey, test well site area, Tesuque Pueblo (Santa Fe County): Consult. rept., 3 p.

----, 1977, Ground-water availability, Lamoreaux tract, Agua Fria, Santa Fe County: Consult. rept., 4 p.

Harshbarger and Associates, 1976, Water requirements and aquifer analysis for in-situ leaching pilot test, Cerrillos, New Mexico: App. A, Analysis of the 5-day pump test of well P-3 (ODR-51), 1975; App. B, Analysis of the 4-day pump test of well P-4 (ODR-51), 1975; and App. C, Analyses of pump tests on monitor wells in the peripheral zone, Cerrillos project, 1975: Consult. rept. to Occidental Minerals Corp.

Herkenhoff, Gordon, and Associates, no date, Water avail-

ability, *in* Sketch plan submitted data for Cerros Cantando, Santa Fe County, New Mexico: Consult. rept., 28 p. (1976).

Hydrotechnics, 1973, The hydrology of the Sunlit Hills area, Santa Fe County, New Mexico: Consult. rept. to Sunlit Hills, 114 p.

Jenkins, D. N., 1977a, Aquifer characteristics, projected long-term effects of pumping, and water quality at the site of the proposed Gonzales subdivision (Santa Fe County): Geohydrology Assocs., Inc., Consult. rept., 17 p.

– 1977b, Supplemental geohydrologic data for the Las Dos area, Santa Fe County, New Mexico: Geohydrology Assocs., Inc., Consult. rept. to Steve Fiance and Assocs., 25 p.

– ---, 1977c, Preliminary geohydrologic investigation of the Las Dos area, Santa Fe County, New Mexico: Geohydrology Assocs., Inc., Consult. rept. to Steve Fiance and Assocs., 11 p.

– ---, 1977d, Geohydrologic investigation of the Turquoise Trail subdivision area, Santa Fe County, New Mexico- Geohydrology Assocs., Inc., Consult. rept. to Lee Wilson and Assocs., 24 p.

----, 1978a, Preliminary geohydrologic investigation of the proposed Gunn subdivision near Tesuque, Santa Fe, New Mexico: Consult. rept. to Stephen R. Fiance and Assocs., 13 p., 3 apps.

– 1978b, Supplemental geohydrologic data for the proposed Los Caminitos subdivision, phase I, Santa Fe, New Mexico: Geohydrology Assocs., Inc., Consult. rept. to Stephen R. Fiance and Assocs., 35 p., 1 app.

John, E. C., Enyart, E. and Purtymun, W. D., 1967, Records of wells, test holes, springs, and surface-water stations in the Los Alamos area, New Mexico: U.S. Geological Survey Open-File Report, 129 p.

Kelley, T. E., 1977a, Geohydrologic conditions at Rancho Alegre subdivision, Santa Fe County, New Mexico: Geohydrology Assocs., Inc., Consult. rept. to Leverton Engineering, 29 p., 1 app.

– 1977b, Preliminary report, geohydrologic conditions at Cow Springs ranch subdivision, Santa Fe County, New Mexico: Geohydrology Assocs. Consult. rept. to Martinez Surveying, 20 p.

Koopman, F. C., 1977, Estimated ground-water flow, volume of water in storage, and potential yield of wells in the Pojoaque River drainage basin, Santa Fe, New Mexico: U.S. Geological Survey Open-File Report 74-159, 33 p.

Kruger, W. C., and Associates, no date, Water-supply wells, penitentiary of New Mexico, Santa Fe, New Mexico: Consult. rept., 6 p. (1953).

Larrazola, 0. A., Jr., 1951, Geology and ground-water resources in the vicinity of Santa Fe, New Mexico: Consult. rept. to Public Service Co. of New Mexico, 18 p.

Lyons, W. C. and Updegraff, C. D., 1978, Geohydrology of the Hyde Park Estates, unit 3, subdivision: Consult. rept. to Santa Fe Agency, 26 p.

Manera, P. A., 1970, Review of the geology and hydrology of the Tesuque Pueblo grant, Santa Fe County, New Mexico: Consult. rept., 6 p.

Minton, E. G., 1970, Water resources, El Dorado at Santa Fe: Consult. rept. to AM REP, 13 p.

Mourant, W. A., 1972, A proposal for a study of the water resources of Santa Fe County, New Mexico: U.S. Geological Survey Open-File Report, 54 p.

New Mexico Interstate Stream Commission and the New Mexico State Engineer Office, 1974, County profile, Santa Fe County-water resources assessment for planning purposes: New Mexico Interstate Stream Commission, New Mexico State Engineer, 47 p.

New Mexico State Engineer, various dates (1965 to 1975), Estancia underground water basin; Composite plots and contours of specific conductance from sampling in winter 1965-66 and summer 1966 (1965); Chemical characteristics of ground water (1965); Specific conductance of ground water, winter 1965-66 (no date); Specific conductance of ground water, composite winter of 1965-66 and summer of 1966 (1966); Specific conductance of ground water, summer 1966 (1966); Depth to water in wells, 1948 (1965); Depth to water in wells, 1965 (1965); Change in ground water level, 1948-1965 (1965); Change in ground water level, 1960-65 (1965); Thickness of alluvium, valley fill and lake deposits (1965); Thickness of alluvium, valley fill and lake deposits, revised March 1967 (1965); Average thickness of saturated alluvium in administrative blocks (1965); Thickness of saturated alluvium, 1965 (1965); Thickness of saturated alluvium, 1965, revised March 1967 (1965); Average thickness of saturated alluvium in administrative blocks as of 1965, revised 1975 (1965); Calculated volume of water in the alluvium in administrative blocks (1965); Calculated volume of water in the alluvium in administrative blocks, revised March 1967, corrected May 1969 and October 1971 (1967); Untitled geology map (no date); Untitled geology map (1967); Estimated coefficients of transmissibility (1965); Work sheet, print of estimated coefficients of transmissibility with an early 1965 thickness of saturated alluvium superposed (no date); Generalized logs and other information pertaining to wells (1967); Cross sections showing elevations of land surface and base of valley fill and of water table as of February 1965 (1965); Pumping centers (no date); Hydrographs (no date); Status of water rights as of February 1966 (no date); Status of water rights as of 1967 (no date): New Mexico State Engineer Open-File Maps, 28 sheets.

----, 1976, Santa Fe River hydrographic survey report, v. 1: New Mexico State Engineer, Apps. C, 80 p.; D, 14 p.; E, 10 p.; and F, 4 p.

----, 1978, Santa Fe River hydrographic survey report, v. 2: New Mexico State Engineer, Apps. C, 87 p.; D, 59 p.; DD, 56 p.; E, 36 p.; and F, 8 p. (1979).

Olsen, C. E., 1977, Uranium hydrogeochemical and stream sediment pilot survey of the Estancia Valley, Bernalillo, Santa Fe, San Miguel, and Torrance Counties, New Mexico, part I, text and data listings; part II, plates: Los Alamos Scientific Laboratory Report LA-6650-MS, 32 p., 4 apps., 9 plates.

Rapp, J. R., 1960, Availability of ground water for irrigation on the San Ildefonso Pueblo grant, Santa Fe County, New Mexico: U.S. Geological Survey Open-File Report, 20 p.

Reiland, L. J. and Koopman, F. C., 1974, Estimated availability of surface and ground water in the Pojoaque River drainage basin, Santa Fe County, New Mexico: U.S. Geological Survey Open-File Report 74-151,35 p.

Santa Fe City Planning Department, 1972, Water study, Santa Fe planning area: Santa Fe City Planning Dept., 59 p.

Santa Fe County, 1978, Santa Fe County general plan: Santa Fe County brochure, 6 p.

Shomaker, J. W., 1974, Interpretation of well logs in Buckman well field, and general limits of Tesuque Formation aquifer: Consult. rept. to Black and Veatch, 15 p.

– ---, 1975, Drilling and testing of wells in shallow alluvium of Rio Grande channel, Buckman area, Santa Fe County, New Mexico: Consult. rept. to Black and Veatch, 3 p.

Sorensen, E. F., 1977, Water use by categories in New Mexico counties and river basins, and irrigated and dry cropland acreage in 1975: New Mexico State Engineer Technical Report 41, p. 20, 24, 27, 30, 33.

Spiegel, S. J., 1955, Aquifer performance test, Sol y Lomas well no. 6 (Santa Fe County): Consult. rept., 9 p.

----, no date, Reconstructed report of water availability of the Glorieta Ranch of Mrs. Maud Martin, Glorieta Pass, Santa Fe County, New Mexico: Consult. rept., 3 p. (1972).

Spiegel, Z., 1953, Geology, geophysics, and water yield near Santa Fe, New Mexico: Geological Society of America Bulletin, v.64, p.1515.

----, 1969, Ground-water conditions in the vicinity of Rio en Medic community, Santa Fe County, New Mexico: New Mexico State Engineer Open-File Report, 4 p.

, 1972, Interpretation and application of an aquifer performance test on well RG-20229 at Pojoaque Terrace trailer court site, H. C. McDonald, Santa Fe County, New Mexico: Consult. rept., 17 p.

----, 1973, Analysis of aquifer performance test data, overlook unit II, well 1 (T16N, R10E, 21.413), Santa Fe County, New Mexico: Consult. rept., 37 p.

, 1975, Preliminary report on the hydrology of the Cienega area, Santa Fe County, New Mexico: Consult. rept. to Santa Fe Downs, 34 p., 8 apps.

----, 1979, Hydrology of the Charles F. Spencer property and Canada Ancha area, Hyde Park road, Santa Fe County, New Mexico: Consult. rept., 34 p., 1 app.

Spiegel, Z. and Baldwin, B., 1963, Geology and water resources of the Santa Fe area, New Mexico, *with contributions by* F. E. Kottlowski and E. L. Barrows, and *with a section on* geophysics, by H. A.Winkler: U.S. Geological Survey Water-Supply Paper 1525, 258 p.; U.S. Geological Survey Open-File Report, 403 p., 1958.

Stamets, R. L., no date, Ground-water report, Canada de los Alamos (Santa Fe County): Consult. rept. to W. F. Turney and Assocs., 3 p. (1960).

– ---, no date, Ground-water report, North La Cueva (Santa Fe County): Consult. rept. to W. F. Turney and Assocs., 3 p. (1960).

Summers, W. K., 1969, Ground-water resources of the San Cristoval grant, Santa Fe County, New Mexico: New Mexico Technical Research Foundation memo. rept., 50 p.

----, 1979, Hydrologic predictions of the water-level changes around the Osage well (Santa Fe, New Mexico) if it were to pump 35.8 acre-feet annually: W. K. Summers and Assocs., Inc., Consult. rept. to Public Service Co. of New Mexico, 51 p., 4 apps.

Theis, C. V., A reconnaissance of ground-water conditions in the vicinity of Madrid, New Mexico: U.S. Geological Survey Open-File Report, 8 p.

Titus, F. B., Jr., 1961, Ground-water geology of the Rio Grande trough in north-central New Mexico, with sections on the Jemez caldera and the Lucero uplift: New Mexico Geological Society Guidebook 12, p.186-192.

Trauger, F. D., 1967, Hydrology and general geology of the Pojoaque area, Santa Fe County, New Mexico: U.S. Geological Survey Open-File Report, 32 p.

, 1974, Geohydrologic conditions in Bachelor Draw area near Edgewood, Santa Fe County, New Mexico: Earth Environmental Consults. Inc., Consult. rept. to Bella Vista Home and Develop. Co., 20 p.

U.S. Department of Agriculture and New Mexico State Engineer, 1969, Ground water, *in* Water and related land resources, Chama-Otowi sub-basin, upper Rio Grande basin, New Mexico: U.S. Department Agriculture, New Mexico State Engineer, App. II, p. 69-79.

Veneklasen, G. 0., 1974, Hydrology report, Sierra Vista subdivision, Santa Fe, New Mexico: Consult. rept. to J. D. Gundzi k, 14 p.

----, 1975, Hydrogeologic report, ABC Mechanical Co., Inc., tract, Airport road, Santa Fe, New Mexico: Consult. rept. to ABC Mechanical Co., Inc., 9 p., 1 app.

, 1977, Geohydrologic report, Lamphere-Rio Villa subdivision, Agua Fria road, Santa Fe County, New Mexico: Consult. rept. to James Lamphere, 11 p., 1 app.

Weir, J. E., Jr., 1956, Reconnaissance of the hydrology of the Pojoaque Valley, Santa Fe County, New Mexico: U.S. Geological Survey Open-File Report, 7 p.

West, F. G., no date, Geological report, Galisteo, Santa Fe County: Consult. rept. to W. F. Turney and Assocs., 2 p. (1961).

Wilson, G. W., 1970, Water resources, Simpson ranch, Santa Fe County, New Mexico: Consult. rept., 19 p.

– ---, no date, Ground-water resources of the Phillip McKee ranch, Santa Fe County, New Mexico: Consult. rept., 36 p. (1971).

Wilson, L., 1975, Water availability and land use policy in Santa Fe County: Consult. rept. to Santa Fe County, 56 p.

, 1976, Ground-water hydrology and water quality, report 2, geology and geohydrology, *in* ROMCOE environmental study, Oxymin Cerrillos project: Consult. rept. to Occidental Minerals Corp., p. 46-104.

– ---, Summary of data and observations resulting from the ROMCOE ground-water-level monitoring program: Consult. rept. to Occidental Minerals Corp., 8 p.

Wilson, L., Jenkins, D. and Anderson, S., 1977, Ground water, *in* Natural and hydrologic environment of the Las Tres Villas area, Santa Fe County, New Mexico: Lee Wilson and Assocs., and Stephen R. Fiance and Assocs., Consult. rept., ch. 11 of environmental inventory report submitted to Santa Fe County, p. II 22-11 48.

Wilson, L. and others, 1978, Santa Fe County water plan: Consult. rept. to Santa Fe County and New Mexico Interstate Streams Commission, 637 p.

Yates, J. C., 1968, Memorandum report on reconnaissance cost analysis of new irrigation from ground-water sources, Nambe-Pojoaque-Tesuque Indian Pueblo area, New Mexico: New Mexico State Engineer Open-File Report, 41 p.



John P. Miller, Professor of Geology, Harvard (now deceased), Rio Galisteo, New Mexico, 1959.—L. B. Leopold.



From Hamilton Mesa, in the Pecos Wilderness looking northwest, across the Pecos River valley, to the three Truchas Peaks. Dr. John P. Miller, at that time Associate Professor of Geology at Harvard University, died in July, 1961 of bubonic plague contracted near Santa Fe; Dr. Arthur Montgomery, Professor of Geology for many years at Lafayette College, Easton, Pennsylvania, now professor Emeritus, and former owner of the famous Harding mine, located near Dixon, New Mexico; Robert Rodden, at that time a graduate student field assistant, present location unknown. A Lee McAlester, at that time a graduate student field assistant, later for many years on the faculty at Yale University, now Academic Vice President at Southern Methodist University, Dallas, Texas. Photo taken during joint field work by John Miller, Arthur Montgomery and Patrick Sutherland, in their study of the geology of the southern Sangre de Cristo Mountains (published in 1963, Memoir 11, N.M. Bureau of Mines and Mineral Resources).—P. K. Sutherland, 1956.



Dr. and Mrs. Rousseau Flower, New Mexico Bureau of Mines and Mineral Resources, South Ladron Mountain, New Mexico, 1952.—A. K. Armstrong.



Rousseau Flower, New Mexico greenhorn, fall 1951, fresh from Albany, New York.—S. B. Jones.



John Shomaker, consulting geologist, Albuquerque, at kids fish pond, Mountain View ranch, Cowles, New Mexico, a few miles north of Terero, Spring 1972. The Forest Service purchased the Mountain View ranch and Cowles, sold or destroyed the buildings, and restored the land surface to contour. Another land mark has disappeared.—W. L. Hiss.



Enos J. Strawn, Stanolind geologist, shooting the rod in Tertiary Wasatch sandstone along the Animas River south of Bondad, Colorado, January, 1948.—E. J. Strawn.