UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PLATE 1

ARIZONA

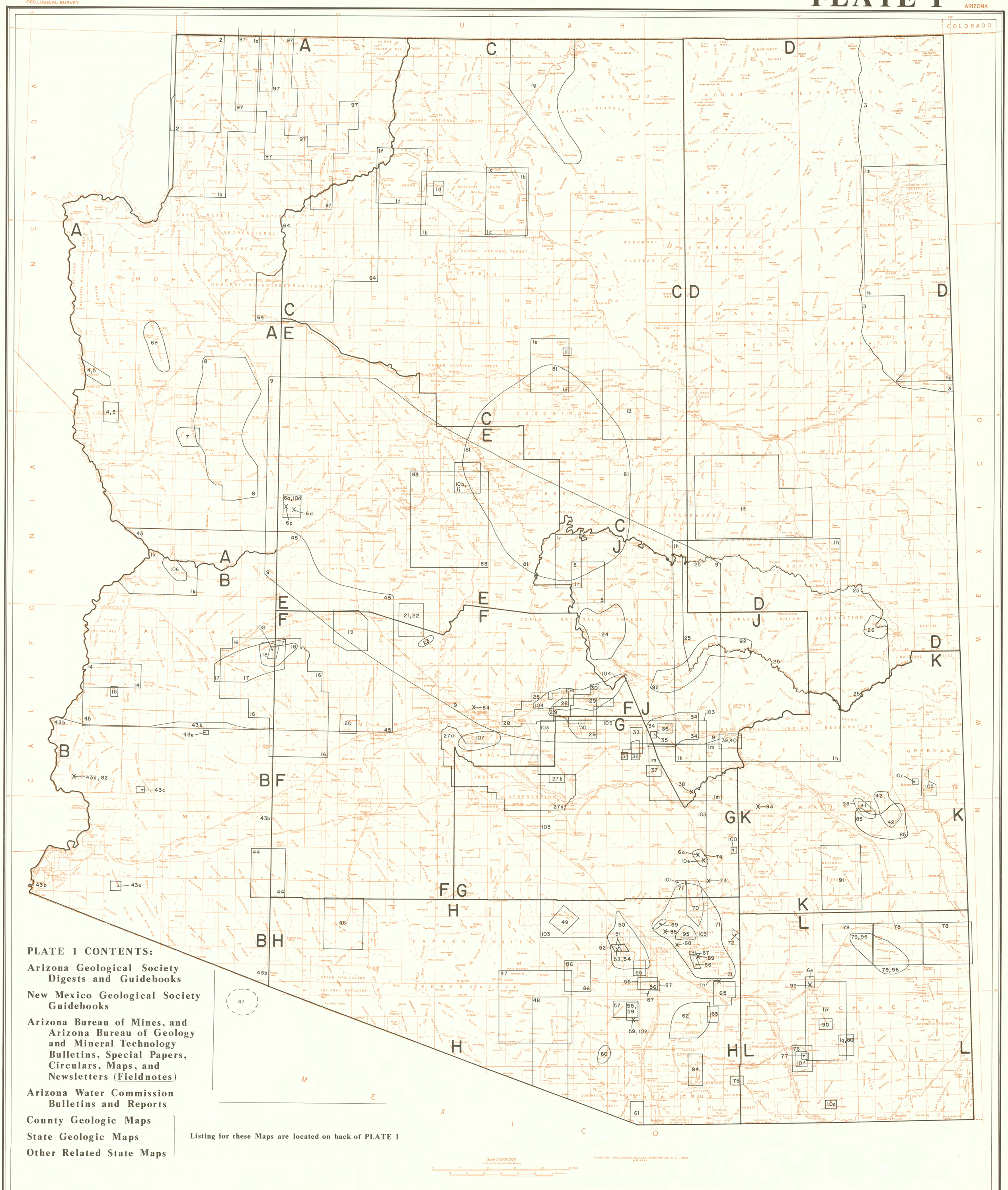

PLATE 1 CONTENTS:

- Arizona Geological Society Digests and Guidebooks
- New Mexico Geological Society Guidebooks
- Arizona Bureau of Mines, and Arizona Bureau of Geology and Mineral Technology Bulletins, Special Papers, Circulars, Maps, and Newsletters (Fieldnotes)
- Arizona Water Commission Bulletins and Reports
- County Geologic Maps
- State Geologic Maps
- Other Related State Maps

} Listing for these Maps are located on back of PLATE 1

Scale 1:1000000
1 inch equals approximately 16 miles

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1960
M R 3737

1. Darton, N.H., 1925, A resume of Arizona geology, Arizona Bureau of Mines Bulletin 119.
   a. plate 39, p. 118, scale 1:500,000
   b. plate 43, p. 128, scale 1:350,000
   c. plate 46, p. 137, scale 1:300,000
   d. plate 48, p. 140, scale 1:180,000
   e. plate 57, p. 157, scale 1:270,000
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   h. plate 65, p. 199, scale 1:700,000
   j. figure 34, p. 212, no scale given
   k. figure 39, p. 217, scale 1:600,000
   m. plate 72, p. 268, scale 1:127,000
   n. figure 94, p. 283, scale 1:30,000
   p. figure 100, p. 292, scale 1:300,000
   q. figure 102, p. 294, scale 1:15,000
   r. figure 70, p. 250, scale 1:127,000
   s. figure 30, p. 208, scale 1:400,000
2. Moore, R.T., 1972, Geology of the Virgin and Beaverdam Mountains, Arizona: Arizona Bureau of Mines Bulletin 186, plate 1 scale 1:62,500.
3. Silver, Caswell, and Hoover, W.B., 1951, Geologic map of the San Juan basin: New Mexico Geological Society Guidebook 2 (Southern Arizona Guidebook); attached map following p. 167, scale 1:700,000.
4. Lausen, Carl, 1931, Geology and ore deposits of the Oatman and Katherine districts, Arizona: Arizona Bureau of Mines Bulletin 131, plate 1 scale 1:42,200; plate 2 scale 1:100,000.
5. Wilson, E.D., Cunningham, J.B., and Butler, G.M., 1934, Arizona lode gold mines and gold mining: Arizona Bureau of Mines Bulletin 137, revised 1967; Arizona Bureau of Geology and Mineral Technology. See also earlier edition by Lausen, C., and Wilson, E.D., 1915: University of Arizona Bulletin 120, plate 1 scale 1:191,000.
6. Arizona Bureau of Mines, 1950, Arizona zinc and lead deposits, part 1: Arizona Bureau of Mines Bulletin 156.
   a. figure 38, p. 124, scale 1:80,000
   b. figure 40, p. 130, scale 1:1,200
   c. figure 43, p. 134, scale 1:1,800
   d. figure 24 (supplement) scale 1:6,000
   e. figure 14 (supplement) scale 1:62,500
   f. figure 45 (supplement) scale 1:33,000
7. Stensrud, H.L., and More, Syver, 1980, Precambrian geology and massive sulfide environments of the west-central Hualapai Mountains, Mohave County, Arizona: Arizona Geological Society Digest 12 (Western Arizona), p. 155-165, figure 2 scale 1:100,000.
8. Davidson, E.S., 1973, Water-resources appraisal of the Big Sandy area, Mohave County, Arizona: Arizona Water Commission Bulletin 6, plate 1 scale 1:63,360.
9. Donnelly, M.E., and Hahn, G.A., 1981, Review of the Precambrian volcanogenic, massive sulfide deposits in central Arizona and the relationship to their depositional environment: Arizona Geological Society Digest 14 (Relations of Tectonics to Ore Deposits in the Southern Cordillera), p. 11-21, figure 2 scale 1:1,250,000. Note: outcrop map only of Precambrian units.
10. Butler, B.S., and Wilson, E.D., 1938, Some Arizona ore deposits: Arizona Bureau of Mines Bulletin 145; with detailed maps.
    a. plate 7 scale 1:10,000
    b. plate 8 scale 1:125,000
    c. plate 16 scale 1:20,000
    d. plate 25 scale 1:6,000
    e. plate 36 scale 1:4,200
    f. plate 28 scale 1:10,000
11. Smiley, T.L., 1958, The geology and dating of Sunset Crater, Flagstaff, Arizona: New Mexico Geological Society Guidebook 9 (Black Mesa Basin), p. 186-190, scale 1:1,000,000.
12. Shoemaker, Eugene, and others, 1978, Barringer Meteorite Crater, Coconino County, Arizona: Arizona Bureau of Geology and Mineral Technology Special Paper 2 (Central Arizona), p. 151-159, figure 1 scale 1:300,000.
13. Bahr, C.W., 1962, The Holbrook anticline, Navajo County, Arizona: New Mexico Geological Society Guidebook 13 (Mogollon Rim Region), p. 118-122, map in pocket, scale 1:144,000.
14. Wilson, E.D., 1961, Gold placers and placering in Arizona: Arizona Bureau of Mines Bulletin 168, figure 4 scale 1:230,000.
15. Marshak, S.J., 1980, Preliminary study of Mesozoic geology in the southern Dome Rock Mountains, southwestern Arizona: Arizona Geological Society Digest 12 (Western Arizona), p. 123-133, figure 4 scale 1:15,000.
16. Metzger, D.G., 1957, Geology and ground-water resources of the Harquahala plains area, Maricopa and Yuma Counties, Arizona: Arizona Land Department Water Resources Report 3, scale 1:126,720. See also Denis, E.E., 1971, revised edition: Arizona Land Department Water Resources Report No. 45, plate 2 scale 1:62,500, covering part of same area.
17. Reynolds, S.J., Keith, S.B., and Coney, P.J., 1980, Stacked overthrusts of Precambrian crystalline basement and inverted Paleozoic sections emplaced over Mesozoic strata, west-central Arizona: Arizona Geological Society Digest 12 (Western Arizona), p. 45-52, figure 2 scale 1:125,000.
18. Varga, R.J., 1977, Geology of the Socorro Peak area, western Harquahala Mountains: Arizona Bureau of Geology and Mineral Technology Circular 20, scale 1:33,000.
19. Rehrig, W.A., Shafiqullah, M., and Damon, P.E., 1980, Geochronology, geology, and listric normal faulting of the Vulture Mountains, Maricopa County, Arizona: Arizona Geological Society Digest 12 (Western Arizona), p. 89-110, figure 2 scale 1:125,000.
20. Euge, K.W., Lund, W.R., and Scott, J.D., 1978, Geology of the Palo Verde Nuclear Generating Station and adjacent areas, Maricopa County, Arizona: Arizona Bureau of Geology and Mineral Technology Special Paper 2 (Central Arizona), p. 115-121, figure 1 scale 1:80,000.
21. Jahns, R.H., 1952, Pegmatite deposits of the White Picacho district, Maricopa and Yavapai Counties, Arizona: Arizona Bureau of Mines Bulletin 162, plates 17, 21, and 24 scale 1:240.
22. London, David, and Burr, D.M., 1978, Lithium pegmatites of the White Picacho district, Maricopa and Yavapai Counties, Arizona: Arizona Bureau of Geology and Mineral Technology Special Paper 2 (Western Arizona), p. 61-73, figure 2 scale 1:40,000; with detailed maps.
23. Statt, R.M., and others, 1978, Precambrian Pikes Peak iron formation, central Arizona: Arizona Bureau of Geology and Mineral Technology Special Paper 2 (Central Arizona), p. 73-83, figure 2 scale 1:35,000.
24. Shumann, H.H., and Thomsen, B.W., 1972, Hydrologic regimen of lower Tonto Creek basin, Gila County, Arizona—a reconnaissance study: Arizona Water Commission Bulletin 3, figure 4 scale 1:210,000.
25. Moore, R.T., 1968, Mineral deposits of the Fort Apache Indian Reservation, Arizona: Arizona Bureau of Mines Bulletin 177, plate 2 scale 1:250,000.
26. Merrill, R.K., and Péwé, T.L., 1977, Late Cenozoic geology of the White Mountains, Arizona: Arizona Bureau of Geology and Mineral Technology Special Paper 1, plate 1 scale 1:48,000.
27. Wilson, E.D., 1969, Mineral deposits of the Gila River Indian Reservation, Arizona: Arizona Bureau of Mines Bulletin 179.
    a. plate 2 scale 1:250,000
    b. plate 3 scale 1:12,000
28. Péwé, T.L., 1978, Terraces of the lower Salt River valley in relation to the late Cenozoic history of the Phoenix basin, Arizona: Arizona Bureau of Geology and Mineral Technology Special Paper 2 (Central Arizona), p. 1-14, figures 8-22 scale 1:28,000.
29. Sheridan, M.F., 1968, Volcanic geology along the western part of the Apache trail, Arizona: Arizona Geological Society Guidebook 3 (Southern Arizona), p. 227-230, figure 1 scale 1:115,000.
30. _____, 1978, The Superstition cauldron complex: Arizona Bureau of Geology and Mineral Technology Special Paper 2 (Central Arizona), p. 85-96, maps 1-8 scale 1:33,000.
31. Peterson, D.W., 1966, The geology of the Picketpost Mountain, northeast Pinal County, Arizona: Arizona Geological Society Digest 8, p. 159-176, figure 4 scale 1:24,000.
32. Short, M.N., and others, 1943, Geology and ore deposits of the Superior mining area, Arizona: Arizona Bureau of Mines Bulletin 151, plate 1 scale 1:12,000; with mine maps.
33. Hammer, D.F., and Webster, R.N., 1962, Generalized geologic map of part of the Superior area, Pinal County, Arizona: New Mexico Geological Society Guidebook 13 (Mogollon Rim Region), p. 148-152, map in pocket, scale 1:62,500.
34. Peterson, N.P., and others, 1952, Structural history of the Globe-Miami copper district: Arizona Geological Society Guidebook 1 (Field Trip Excursions, Southern Arizona), p. 123-127, figure 43 scale 1:40,000.
35. Peterson, N.P., 1952, Castle Dome copper deposit: Arizona Geological Society Guidebook 1 (Field Trip Excursions, Southern Arizona), p. 128-131, figure 44 scale 1:20,000.
36. Reed, E.F., and Simmons, W.W., 1962, Geological notes on the Miami Inspiration mine: New Mexico Geological Society Guidebook 13 (Mogollon Rim Region), p. 153-157, figure 1 scale 1:15,000.
37. Metz, R.A., Phillips, C.H., and Caviness, C.R., 1968, Recent developments in the geology of the Ray area: Arizona Geological Society Guidebook 3 (Southern Arizona), p. 137-146, figure 1 scale 1:24,000.
38. Eastlick, J.T., 1958, New developments at the Christmas Mine, Arizona: Arizona Geological Society Digest 1, p. 1-6, scale 1:4,800.
39. Moore, R.T., and Vuich, J.S., 1977, An evaluation of the olivine resources of the San Carlos Apache Indian Reservation and recommendations for potential development: Laboratory of Native Development, Systems Analysis and Applied Technology (NADSAT), Office of Arid Lands Studies, University of Arizona, 34 p., figure 1 scale 1:24,000.
40. Wohletz, K.H., The eruptive mechanism of the Peridot Mesa vent, San Carlos, Arizona: Arizona Bureau of Geology and Mineral Technology Special Paper 2 (Central Arizona), p. 167-171, figure 2 scale 1:48,000.
41. Cook, Annan, and Robinson, R.F., 1962, Geology of Kennecott Copper Corporation's Safford copper deposit: New Mexico Geological Society Guidebook 13 (Mogollon Rim Region), p. 143-148, figure 1 scale 1:36,000.
42. Heindl, L.A., 1960, Geology of the lower Bonita Creek area: Arizona Geological Society Digest 3, p. 35-40, figure 1 scale 1:110,000.
43. Wilson, E.D., 1933, Geology and mineral deposits of southern Yuma County, Arizona: Arizona Bureau of Mines Bulletin 134.
    a. figure 7, p. 191, scale 1:62,500
    b. plate 1 (pocket) scale 1:375,000
    c. plate 9 (pocket) scale 1:14,400
    d. plate 5 (pocket) scale 1:20,000
    e. plate 16 (pocket) scale 1:6,600
44. Tucker, W.J., Jr., 1980, Geology of the Aguila Mountains Quadrangle, Yuma, Maricopa, and Pima Counties, Arizona: Arizona Geological Society Digest 12 (Western Arizona), p. 111-122, figure 1 scale 1:135,000.
45. Reynolds, S.J., 1980, Geologic framework of west-central Arizona: Arizona Geological Society Digest 12 (Western Arizona), p. 1-16, figure 2 scale 1:550,000.
46. Gilluly, James, 1937, Geology and ore deposits of the Ajo Quadrangle: Arizona Bureau of Mines Bulletin 141, plate 1 scale 1:62,500; with detailed maps.
47. Galbraith, F.W., Heindl, L.A., and Sykes, G.G., 1959, Volcanic craters of the Pinacate Mountains, Sonora, Mexico: Arizona Geological Society Guidebook 2 (Southern Arizona Guidebook), p. 254-271, figure 57 scale 1:200,000.
48. Haxel, Gordon, and others, 1980, Reconnaissance geology of the Mesozoic and lower Cenozoic rocks of the southern Papago Indian Reservation, Arizona: Arizona Geological Society Digest 12 (Western Arizona), p. 17-30, figure 4 scale 1:300,000.
49. McClymonds, N.E., and others, 1959, Stratigraphy of the Waterman and Silver Bell Mountains (road log): Arizona Geological Society Guidebook 2 (Southern Arizona Guidebook), p. 212-218, figure 7 (p. 66), Waterman Mountains, scale 1:25,000; figure 45 (p. 212), Waterman and Silver Bell Mountains, scale 1:100,000.
50. Mayo, E.B., 1968, Stratigraphic and volcanic geology, Tucson Mountains (road log): Arizona Geological Society Guidebook 3 (Southern Arizona), p. 340, scale 1:160,000.
51. _____, 1966, Preliminary report on a structural study in the museum embayment, Tucson Mountains, Arizona: Arizona Geological Society Digest 8, p. 1-32, plate 1 scale 1:15,000.
52. Mayo, E.B., and Davis, G.H., 1976, Origin of the Red Hills-Piedmontite Hills uplift: Arizona Geological Society Digest 10 (Tectonic Digest), p. 103-132, figure 3 scale 1:25,000.
53. Mayo, E.B., 1963, Volcanic orogeny of the Tucson Mountains: Arizona Geological Society Digest 6, p. 61-82, figure 3 scale 1:8,000.
54. _____, 1961, Structure of the large phenocryst porphyry near Arizona-Sonora Desert Museum: Arizona Geological Society Digest 4, p. 1-15, scale 1:1,200.
55. Kinnison, J.E., 1959, Structure of the Saginaw Hill area, Tucson Mountains, Arizona: Arizona Geological Society Guidebook 2 (Southern Arizona Guidebook), p. 148-152, figure 27 scale 1:62,500.
56. Heindl, L.A., 1959, Geology of the San Xavier Indian Reservation, Arizona: Arizona Geological Society Guidebook 2 (Southern Arizona Guidebook), p. 152-159, figure 29 scale 1:125,000.
57. Lootens, D.J., 1966, Geology and structural environment of the Sierrita Mountains, Pima County, Arizona: Arizona Geological Society Digest 8, p. 33-56, scale 1:48,000.
58. Lutton, R.J., 1961, A lensoidal rhyolite near Twin Buttes, Arizona: Arizona Geological Society Digest 4, p. 43-47, scale 1:1,000.
59. Lynch, D.W., 1968, The geology of the Esperanza mine: Arizona Geological Society Guidebook 3 (Southern Arizona), p. 125-136, figure 1 scale 1:12,000.
60. Smith, Russell, 1966, Geology of the Cerro Colorado Mountains, Pima County, Arizona: Arizona Geological Society Digest 8, p. 131-146, plate 1 scale 1:20,000.
61. Nelson, F.J., 1968, Volcanic stratigraphy and structure of the Pena Blanca and Walker Canyon areas, Santa Cruz County, Arizona: Arizona Geological Society Guidebook 3 (Southern Arizona), p. 171-182, figure 3 scale 1:48,000.
62. Drewes, Harald, and Finnel, T.L., 1968, Mesozoic stratigraphy and Laramide tectonics of part of the Santa Rita and Empire Mountains, southeast of Tucson, Arizona: Arizona Geological Society Guidebook 3 (Southern Arizona), p. 315-317, figure 1 scale 1:125,000.
63. Galbraith, F.W., 1952, The Empire Mountains, Pima County, Arizona: Arizona Geological Society Guidebook 2 (Southern Arizona Guidebook), p. 127-133, figure 23 scale 1:48,000.
64. Koons, Donaldson, 1964, Structure of the eastern Hualapai Indian Reservation, Arizona: Arizona Geological Society Digest 7, p. 97-114, figure 2 scale 1:500,000.
65. Brennan, D.J., 1962, Tertiary sedimentary rocks and structures of the Cienega Gap area, Pima County, Arizona: Arizona Geological Society Digest 5 (Cenozoic Geology), p. 45-58, figure 4.1 scale 1:80,000.
66. Davis, G.H., 1978, Third day road log: New Mexico Geological Society Guidebook 29 (Land of Cochise), p. 84-85, figure 40.1a scale 1:4,800; figure 40.1c scale 1:1,000.
67. McColly, R.A., 1961, Geology of the western portion of the Saguaro National Monument: Arizona Geological Society Digest 4, p. 87-92, scale 1:50,000.
68. Fair, C.L., and Jinks, J.E., 1961, Santa Catalina foothills fault in the Pontatoc area: Arizona Geological Society Digest 4, p. 131-132, figure 1 scale 1:52,000.
69. Pashley, E.F., Jr., 1963, Reinterpretation of the anticlinal structure along Pusch Ridge, Santa Catalina Mountains, Arizona: Arizona Geological Society Digest 6, p. 49-51, figure 1 scale 1:75,000.
70. DuBois, R.L., 1959, Geology of the Santa Catalina Mountains (road log): Arizona Geological Society Guidebook 2 (Southern Arizona Guidebook), p. 218-224, figure 46 scale 1:185,000.
71. Moore, B.N., 1952, Geologic map of Santa Catalina and Rincon Mountains: Arizona Geological Society Guidebook 1 (Field Trip Excursions, Southern Arizona), p. 50, scale 1:150,000.
72. Chew, R.T., 1962, The Mineta Formation, a middle Tertiary unit in southeastern Arizona: Arizona Geological Society Digest 5 (Cenozoic Geology), p. 35-44, figure 3.1 scale 1:63,000.
73. Hatheway, A.W., 1968, Subsidence at the San Manuel copper mine, Arizona: Arizona Geological Society Guidebook 3 (Southern Arizona), p. 113-125, figure 1 scale 1:9,600.
74. Peterson, N.P., 1938, Geology and ore deposits of the Mammoth mining camp area, Pinal County: Arizona Bureau of Mines Bulletin 144, plate 1 scale 1:4,400; with mine maps.
75. Dockweiler, R.A., 1978, Geologic map of the northern Huachuca Mountains (road log—second day): New Mexico Geological Society Guidebook 29 (Land of Cochise), p. 58, scale 1:25,000.
76. Butler, B.S., Wilson, E.D., and Rasor, C.A., 1938, Geology and ore deposits of the Tombstone district: Arizona Bureau of Mines Bulletin 143, plate 3 scale 1:24,000; plate 4, 1:6,000.
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79. Erickson, R.C., 1968, Geology and geochronology of the Dos Cabezas Mountains, Cochise County, Arizona: Arizona Geological Society Guidebook 3 (Southern Arizona), p. 192-194, figure 1 scale 1:160,000.
80. Wilson, E.D., 1927, Geology and ore deposits of the Courtland-Gleeson region: Arizona Bureau of Mines Bulletin 123, plate 1 scale 1:24,000.
81. Lehner, R.E., 1962, Cenozoic history of the Jerome area, Yavapai County, Arizona: New Mexico Geological Society Guidebook 13 (Mogollon Rim Region), p. 84-97, figure 4 scale 1:700,000.
82. Lundin, R.J., and others, 1980, Yuma to Quartzsite via U.S. 95 (road log): Arizona Geological Society Digest 12 (Western Arizona), p. 308-317, map of Black Rock mine on p. 316, scale 1:3,720.
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86. Bikerman, Michael, 1968, The geology of the Roskruge Mountains—a brief summary: Arizona Geological Society Guidebook 3 (Southern Arizona), p. 183-191, figure 2 scale 1:125,000.
87. Percious, J.K., 1968, Geology and geochronology of the Del Bac Hills, Pima County, Arizona: Arizona Geological Society Guidebook 3 (Southern Arizona), p. 199-209, figure 1 scale 1:46,875.
88. Mayo, E.B., 1964, Folds in the gneiss beyond North Campbell Avenue, Tucson, Arizona: Arizona Geological Society Digest 7, p. 123-146, figure 2 scale 1:1,020.
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94. Menges, C.M., and McFadden, L.D., 1981, Evidence for a latest Miocene to Pliocene transition from Basin-Range tectonics to post-tectonic landscape evolution in southeastern Arizona: Arizona Geological Society Digest 13, p. 151-160, figure 2 scale 1:450,000.
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97. Hamblin, W.K., and Best, M.G., 1970, The western Grand Canyon district (road log): Utah Geological Society Guidebook to the Geology of Utah No. 23, Salt Lake City, p. 93-154, figures 1-34 scale 1:70,000.
98. Dunn, P.G., 1978, Geologic structure of the Safford district, Arizona: Arizona Geological Society Digest 11 (Porphyry Copper Symposium), p. 9-15, figure 2 scale 1:100,000.
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100. Guthrie, J.O., and Moore, D.G., 1978, Geology of the Copper Creek area, Bunker Hill mining district, Galiuro Mountains, Arizona: Arizona Geological Society Digest 11 (Porphyry Copper Symposium), p. 25-31, figure 1 scale 1:27,000.
101. Durning, W.P., and Davis, J.D., 1978, The root characteristics of porphyry copper deposits: Society Digest 11 (Porphyry Copper Symposium), p. 81-89, figure 2 scale 1:15,600.
102. Aiken, D.M., and West, R.J., 1978, Some geologic aspects of the Sierrita-Esperanza copper-molybdenum deposit, Pima County, Arizona: Arizona Geological Society Digest 11 (Porphyry Copper Symposium), p. 117-128, figure 1 scale 1:42,000.
103. Keith, S.B., 1980, The great southwestern Arizona overthrust oil and gas play: drilling commences, in Fieldnotes: Arizona Bureau of Geology and Mineral Technology, v. 10, no. 1, p. 1-8, figure 1 scale 1:500,000.
104. Scarborough, R.B., 1981, Reconnaissance geology: Goldfield and northern Superstition Mountains, in Fieldnotes: Arizona Bureau of Geology and Mineral Technology, v. 11, no. 4, p. 6-10, scale 1:180,000.
105. Cunningham, J.E., 1981, Preliminary detailed geologic map and cross-sections of the Clifton Hot Springs and San Francisco River area: Arizona Bureau of Geology and Mineral Technology, Geothermal Group Open-File Report 81-22, scale 1:24,000.
106. Wicklein, P.C., 1980, Geologic map and cross-sections of the Bill Williams district, Yuma County, Arizona: Arizona Bureau of Geology and Mineral Technology Open-File Report 80-2, scale 1:24,000.
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108. Keith, S.B., and others, 1982, Preliminary geologic map of the western Harquahala Mountains, west-central Arizona: Arizona Bureau of Geology and Mineral Technology Open-File Report 82-6, scale 1:12,000.