DESCRIPTION
The Keith Martin Collection consists of mining papers and publications collected by Martin during his work with Kennecott Copper Company in New Mexico and Arizona. The majority of the collection is professional publications in the fields of mining and geology collected by Martin over the years. Included with the publications are three of Martin’s own professional papers. The collection also has Martin’s notebooks on the Mineral Park copper deposits; personal and professional correspondence during the 1950s; and various notes, maps and reports from his exploratory geological work in Mexico, Arizona and other states in the Southwest.

9 Boxes, 4.5 linear ft.

BIOGRAPHICAL NOTE
Keith Martin was born on September 23, 1925 in Greenwich, Connecticut. After serving in the United States Army Air Corps from 1943 until 1945, he used his G.I. Bill to complete his high school education at Wilbraham Academy, (graduating in 1947) and continuing onto Williams College. Upon graduating from Williams in 1951, he had been recruited by the Kennecott Copper Corp. and sent to the University of Arizona for additional training under the tutelage of B.S. Butler. He worked for Kennecott as an exploration geologist in Arizona and the southwest. Eventually he became a member of the Kennecott subsidiary, Bear Creek Mining company. In 1955, upon the death of his first wife, Gloria Best, he left Kennecott. Eventually, he went to work as a freelance consultant in geology. During this time he discovered the large deposit of low-grade copper ore now known as Ithaca Peak in northwest Arizona near Kingman and with the help of Harrison Schmitt, geologist for the Duval Corp., convinced Duval to begin mining there. He also did exploratory work in Panama and Mexico. He returned to Tucson in 1958 and established Concrete Designs with Donlon LoBiondo, a fellow geologist. He married his second wife, June Johnson Caldwell in 1966. He died on February 18, 2008.

ACQUISITION
Donated by June Martin in 2010.

ACCESS
There are no restrictions on access to this collection.

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PROCESSING
The collection was processed by Dave Tackenberg in January 2011.
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f. 57  Publication - “Copper deposits of part of Helvetia Mining District, Pima County, Arizona” by S.C. Creasey and George L. Quick 1955
f. 58  Publication - “Ground water in Avra-Altar Valley, Arizona” by David A. Andrews 1937
f. 59  Publication - “Mineral resources of the San Carlos Indian Reservation, Arizona” by Calvin S. Blomfield and Andrew F. Shride 1956
f. 60  Publication - “Mineral resources: Navajo-Hopi Indian Reservations, Arizona-Utah” Vol. I 1955
f. 61  Publication - “The Wallapai Mining District Cerbat Mountains Mohave County, Arizona” by McClelland G. Dings 1951
f. 62  Publication - “Grouting diamond-drill holes at the Christmas Mine, Gila County, Arizona” by Stanton L. Tainter 1949
f. 63  Publication - “Manganese resources of the Artillery Mountain Region Mohave County, Arizona” by S. G. Lasky and B. N. Webber 1949
f. 64  Publication - “Report of investigations: Artillery Peak manganese deposits Mohave County, Arizona” by Robert S. Stanford and Lincoln A. Stewart 1948
f. 65  Publication - “Devonian and Mississippi rocks of Central Arizona” by John W. Huddle and Ernest Dobrovolny 1952
f. 66  Publication - “Late Paleozoic stratigraphy of Central Cochise County, Arizona” by James Gilluly, John R. Cooper and James Steele Williams 1954
f. 67  Publication - “Concentration of oxide manganese ores from vicinity of Winkelman, Pinal County, Arizona” by K. C. Dean, H. D. Shedden and W. W. Agey 1952
f. 68  Publication - “A comparative study of statistical analysis and analytical
data from Massic Canyon manganese deposit, Artillery Mountains Region, Mohave County, Arizona” by Scott W. Hazen, Jr. 1958

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Publication - “Geology of the Christmas Copper Mine, Gila County Arizona” by Nels P. Peterson and Roger W. Swanson 1956

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Publication - “Tungsten deposits in Arizona” by Eldred D. Wilson 1941

Publication - “Bibliography of the geology and mineral resources of Arizona” by Eldred D. Wilson 1939

Publication - “A review of the mineral potential of the Ithica Park area of Mineral Park” by Keith Martin 1956

Publication - “Arizona manganese-silver ores” by T. M. Romslo and S. F. Ravitz 1947


Publication - “Arizona Geological Society: guidebook for field trip excursions in Southern Arizona” 1952

Publication - “Discovery of Pima orebody” 1954

Papers dealing with mineralogy in Arizona 1950

Publication - “Bibliography of New Mexico geology and mineral technology through 1950” by Marian R. Burks and John H. Schilling 1955

Publication - “Bibliography of New Mexico geology and mineral technology, 1951-1955” by Constance F. Schiling and John
H. Schilling 1956
f. 94 Publication - “Guidebook of Southwestern New Mexico” Fourth Field Conference 1953
f. 95 Publication - “Geology of the Santa Rita Mining Area, New Mexico” by A. C. Spencer and Sidney Paige 1935
f. 96 Publication - “Hypogene texture and mineral zoning in a copper-bearing granodiorite porphyry stock Santa Rita, New Mexico” by Richard L. Nielsen 1968
f. 97 Publication - “Hydrothermal alteration at Santa Rita, New Mexico” by Paul F. Kerr, J. L. Kulp, C. Meade Patterson and Robert J. Wright 1950
f. 98 Publication - “Geology of a disseminated copper district near Hillsboro, Sierra County, New Mexico” by Frederick J. Kuelmer 1955

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f. 100 Publication - “Correlation of copper mineralization with hydrothermal alteration in the Santa Rita Porphyry Copper District, New Mexico” by Paul Leroy 1952
f. 101 Publication - “Geologic structures surrounding the Santa Rita Intrusive, New Mexico” by Keith Martin 1955
f. 102 Publication - “Volumetric chemical changes and their genetic relationship to shattering at Chino Santa Rita, New Mexico” by Keith Martin 2001
f. 103 Publication - “Fluorspar deposits of Burro Mountains and vicinity, New Mexico” by Elliot Gillerman 1952
f. 104 Publication - “Records of the wells drilled for oil and gas in New Mexico” by B. G. H. Dixon, D. H. Baltz and T. F. Stripp 1954
f. 106 Publication - “Rock alteration as a guide to ore - East Tintic District, Utah” by T. S. Lovering 1949
f. 107 Publication - “Geology and mineral deposits of the Boleo Copper District, Baja California, Mexico” by Ivan F. Wilson 1955
f. 109 Publication - “Certain terms of mining geology as defined and used” by Harrison Schmitt 1954
f. 112 Publication - “Some facts about ore deposits” by G. Montague Butler 1935
f. 113 Publication - “Bibliography of U.S. Geological Survey publications on copper (to January 1, 1952)” by Gwendolyn W. Luttrell 1952

Box 9
f. 114 Publication - “Field tests for the common metals” by George R. Fansett 1951
f. 115 Publication - “Calculations from diamond-drill sampling - a comparison of methods” by C. W. Greenhalgh and Junior Member of A.I.M.E.” 1935
f. 116 Publication - “Study of radioactivity in modern stream gravels as a
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f. 117 Publication - “The enrichment of sulphide ores” by William Harvey Emmons 1913
f. 118 Program for 20th session of the International Geological Congress 1956
f. 119 Publication - “Tables of fluorescent and radioactive minerals” by Robert L. Hershey 1955
f. 120 Publication - “Geochemical prospecting abstracts through June 1952” by John W. Harbaugh 1953
f. 121 Publication - “Principles of geochemical prospecting” by H.E. Hawkes 1957
f. 122 Publication - “Microscopic determination of the ore minerals” by M. N. Short 1940
f. 123 Publication - “How tonnage and grade relations help predict ore reserves” by S. G. Lasky 1950
f. 124 Publication - “Photogeologic procedures in geologic interpretations and mapping” by Richard G. Ray 1956
f. 125 Publication - “Rapid analysis of silicate rocks' by Leonard Shapiro and W. W. Brannock 1956
f. 126 Publication - “The uses of induced polarization in mining exploration” by Don Mills 1956
f. 127 Publication - “Intergrowths of bornite and chalcopyrite” by G. M. Schwartz 1957
f. 128 Publication - “Radioactive uranium and thorium” by John W. Anthony 1948
f. 129 Publication - “Annotated bibliography of papers on geochemical prospecting for ores” by H. E. Hawkes 1948
f. 130 Publication - “Concentration of bastinaesite and other cerium ores” by J. B. Zadra, A. L. Engel and E. S. Shedd 1952
f. 131 Publication - “Treatment and sale of black sands” by M W. van Bernewitz 1938
f. 132 Publication - “The chromograph, a new analytical tool for laboratory and field use” by Rollin E. Stevens and Hubert W. Lakin 1949
f. 133 Publication - “The solubility and transfer of silica and other non-volatiles in steam” by Thomas Gillingham 1948
f. 134 Publication - “Interpretation and current status of ground-water rights” 1960
f. 135 Publication - “Mining exploration: foundations of organization” by Thomas W. Mitcham 1955
f. 136 Publication - “Time, distance and drawdown relationships in a pumped ground-water basin” 1960
f. 137 Publication - “Relative abundance of nickel in the Earth's crust” by Roger Clark Wells 1943
f. 138 Publication - “A professional guide for junior engineers” by William E. Wickenden 1949
f. 139 Publication - “Manganese concentrates from open-hearth slags by lime-clinkering (Sylvester) process)” by Robert Ruppert 1952
f. 140 Publication – “Chinoite, a new mineral” by Carl W. Beck and David B. Givens 1953