



U.S. GEOLOGICAL SURVEY FIELD RECORDS LIBRARY DENVER, COLORADO

WALDEMAR THEODORE SCHALLER
(1882-1967)

NOTES, CORRESPONDENCE, PAPERS

1899 - 1965

(7 Linear Feet and 1 Map Folder)

Waldemar T. Schaller was born in Oakland, California, on August 3, 1882 and died in Washington, D.C., on September 28, 1967. He became interested in natural science and mineral collecting at an early age and was encouraged by his father. After receiving the Bachelor of Science degree in 1903 from the University of California at Berkeley, he joined the U.S. Geological Survey in Washington, D.C., as a junior chemist in the Division of Physical and Chemical Research. He left the Survey for 6 months in 1912 to obtain his Ph.D. degree at the University of Munich and again for a brief period in 1920 to work in private industry. Otherwise, Schaller remained with the U.S. Geological Survey his entire career until his retirement in 1952 and then informally for another 12 years. He published about 300 articles in the fields of mineralogy and geochemistry and described more than 40 new minerals.

INVENTORY

By

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U.S. Geological Survey Field Records Library
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Location of Field Notebooks Boxed Pending Transfer

W.T. SCHALLER PERSONAL CORRESPONDENCE. VARIOUS DATES.

<u>Folder Number</u>	<u>Description</u>
NO-08568	Correspondence files, including: Correspondence "To" file (A-Z); correspondence "From" file: L-W. Box 1. Correspondence "From" File: Y-Z. Box 2.
NO-08569	The Gem Tourmaline Field of Southern California. Box 2.
NO-08570	Photographic techniques; potash; Tintic Standard Mine (Utah). Box 2.
NO-08571	Notes on minerals investigations. Boxes 3, 4, 5.
NO-08572	Notebook 1. n.d. San Diego. n.d. Geologic and general notes on specimens, sketches. Localities: Smiths Mt. granite, Mt. Smith Mine, Mesa Grande, the Frenchman's Mine. Box 5.
NO-08573	Notebook 2. n.d. Pala, Lithia mine – notes and sketches of underground workings; tourmaline mine, Pala – geologic notes, notes on specimens; Hunzite mine, Rincon, Sickler, Cuahuilla, Tannenbaum, San Diego Mine, Ramona, South Park (Peak?), Everly, Greyhound. Box 5.
NO-08574	Notebook 3. Specimens coll. 1905 (from 102 up), i.e. 201-216. Geologic notes, notes on samples, sketches. Localities include Pala, Royal None Such, Pala Chief, Tourmaline Queen Mine, Hiriant Hill, Catherina, Hiriant claim, Tann[enbaum], Esmeralda, Ramona. On p. 53, notes on reports that "Pt (with gold) is reported from Gairota Honda..." in Santa Barbara County. In back – list of photos, 1 page of miscellaneous notes. Box 5.
NO-08575	Notebook 4. n.d. Brief notes on pegmatites at certain localities in Connecticut, Maine, and Massachusetts. Box 5.
NO-08576	Notebook 5. n.d. In front: Plate 25 from vol. 3, Bulletin of the Dept. of Geology, Univ. of California, showing Gem Mine near Pala, with annotations. In the notebook, map segments from various quadrangles – some enlarged, with annotations, are attached to notebook pages. Box 5.
NO-08577	Notebook 7. 1905-1906. Sketches, calculations for various mineral crystal specimens: albite, tellurite, celestite, artificial salt, stilbite, solumbite, vesuvianite, siderite, hiddenite, barite. Box 5.
NO-08578	Notebook 8. n.d. Sketches, calculations for various mineral crystal specimens. In first part of notebook, specimens are identified as "Tray xxx"; in later part of notebook, specific minerals by name: pyrite, pisanite, chalcantite, lawsonite,

- calcite, vanadinite, tibethenite, spodumene, and dumontcrite. Box 5.
- NO-08579 Notebook 9. n.d. Quartz. Three pages of sketches and calculations. Box 5.
- NO-08580 Notebook 10. "Xtl Measurements". 1904- Notes, sketches, calculations for various mineral crystal specimens. Includes where found, and for whom analysis was done. Minerals include: albite, beryl, lumostierite, cobalt, hornblende, tridymite with hornblende, cassiterite, anhydrite, columbite, lepidolite, gypsum, topaz, tourmaline, franklinite, muscovite, plus some crystals that are only numbered, not named. Box 5.
- NO-08581 Notebook 11. Calomel, Eglestonite. 1906- Notes, sketches, calculations for various mineral crystal specimens, including jarosite, alunite, calomel, tapiolite, monazite, zircon, "gypsum or barite", eglestonite, cassiterite. Box 5.
- NO-08582 Notebook 12. Micro. 1904-1906. Notes, calculations, sketches from microscopic examination of various mineral crystals, including gyrolite, lepidolite, mica, sand concentrate, siderite, montroydite, laumontite, terlinguaite, eglestonite, roselite, endlichite, carnotite, kleinite, powellite, ludwigite (?), antlerite, cupiodesoizite. A few minerals are not specifically identified. Box 5.
- NO-08583 Notebook 13. Index Refract. 1904- . Notes, calculations, and a few sketches, for mineral specimens, including artificial feldspar glass, calcite, albite, tourmaline, eglestonite, quartz, artificial emerald, feldspar, orthoclase, oligoclase, andesine, labradorite, bytonite, anosetin(?), californite, hureanlite, palaite, stewartite, plancherite, hisingerite, vanadium carnotite, opal, garnet, xonothite. Also, notes on some related laboratory work. Box 5.
- NO-08584 Notebook 14. Micro. 2E. Notes on microscopic examination of various minerals, including muscovite, lepidolite, variscite. June 1924 on page 51. Box 5.
- NO-08585 Notebook 15. 1906-1909. Miscell. Barite, bismite. Notes, calculations, sketches, for various minerals, including: siderite, barite, microlite, laumonite, roselite, wulfenite, manganese oxide, calcite, endlichite, adamite, magnetite, vesuvianite, caledonite, bismuth mineral, sanidine, pyromorphite, thorium phosphate, phenacite, mosesite, and pisanite. Box 5.
- NO-08586 Notebook 16. Terlinguaite nos. 6, 7, 8, 9, 10, 11, 12; eglestonite; montroydite no. 3, 5-24. 1906- Calculations, sketches, a few notes, for mineral specimens, including terlingualite, montroydite, and eglestonite. Box 5.
- NO-08587 Notebook 17. n.d. Tourmaline, axinite, kleinite, Terlinguaite no. 1, 3. Barite, Gypsum. Calculations, sketches, and a few notes on mineral specimens, including: columbite, reebellite, siderite, muscovite, tourmaline, axinite, montroydite, staurolite, terlinguaite, gypsum, and barite. Box 5.

- NO-08588 Notebook 18. n.d. Terlinguaite No. 2, 4, 5, 6. Montroydite no. 1, 2, 4. Eglestonite. Calomel No. 1. Calculations, sketches, a few notes, for mineral specimens of terlinguaite, montroydite, calcite, eglestonite, calomel. Box 5.
- NO-08589 Notebook 19. 1910-1911. Notes, sketches, calculations, for various minerals, including tourmaline and zeolite. Notes on pages 1-25 only. Box 6.
- NO-08590 Notebook 20. n.d. Geologic notes, sketches – California T.F. [Tourmaline Field}. Localities: Pala Chief Hill, Tourmaline Queen region, Esmeralda claim, various numbered cuts, Stewart mine, Kunzite Hill, and Anita claims. Box 6.
- NO-08591 Notebook 21. 1949. Geologic and mineralogic notes, notes on mineral specimens, sketches, travel notes. Topics and localities noted: Death Valley – Shoshone, priceite, 20 Mule Team Canyon, Inyoite Tunnel, sodium borates, Annie Oakley mine at Ryan. Box 6.
- NO-08592 Notebook No. 22. 1907-1910. Calculations, sketches, notes, on mineral specimens including: tantalite, wolframite, calcite, arsenopyrite, orthoclase, axinite, carlosite, augite, terberite, wortzite, variscite, cosalite, and turquoise. Box 6.
- NO-08593 Notebook 23. Sketches, calculations, measurements, notes, for various mineral specimens including tourmaline and beryl. List of “Slides of crushed minerals from Pala [Calif.] all from alteration of lithiophilite” gives slide number, brief description of mineral, and specimen number. List of thin sections; forms set up on pages to record remarks on observation of each thin section, but only one form has entries. Additional notes on thin sections. Box 6.
- NO-08594 Notebook. Sp. Gr. 1903-1908. Calculations for various mineral specimens. Box 6.
- NO-08595 San Diego. 1915. Geologic notes in Pala area. Localities include Pala Mt., Mareno Mt., Temecula road, tin mine at NE corner or rim of Chichuahua valley. Box 6.
- NO-08596 Notebook. Pala – 1924. Embudo, N. Mex., 1924. Geologic notes and sketches, and notes on pegmatites, in the Pala district, San Diego County, California. Localities include Rincon, ABC Mine, Buster Brown or White Cloud claim, Pala Chief Hill, El Molina mine, Spur Hill, Temecula Road, Monseratt Mt., Stewart Canyon, East Hill, Bernardo, Hiriart Hill, Granite Mt. mine, Mt. Lily mine, Douglas mine, Anita mine, Agua Tibia Mt., T.K. [Tourmaline King] Mine, Ed Fletcher Jr. mine, T.Q. {Tourmaline Queen} mine, and Emerald mine. Also, geologic and general notes on pegmatites in Embudo, New Mexico area; localities include Harding mine (also called Glass mine). Box 6.
- NO-08597 Pegmatite notes – New York. August 1926. Geologic notes and sketches. Localities include: Barrett’s quarry, Roe’s spar bed, Thomas mine, Crown Point Feldspar Company quarry. Box 6.

- NO-08598 1927. California. Notebook. Notes on kernite; Red Mt., Fallbrook, Mesa Grande mine. Box 6.
- NO-08599 Notebook. Potash Mine. New Mexico. 1931. Brief notes. Box 6.
- NO-08600 Notebook. Kramer. 1934. Geologic notes, notes of samples taken, sketches. Named localities include: Saddleback Mt., Suckow Borax mine, Baker mine, Western deposit, P.C. Mine. Box 6.
- NO-08601 Notebook. On cover: Rocks. Kramer. Includes notes on specimens, nos. 1-90; sections (crystals?) xx18 from the Kramer district, Mohave Desert, California. Also, gives slide number for many specimens. No date. Box 6.
- NO-08602 Pala. 1934. Geologic notes, sketches, notes on pegmatites. Mines: Mission, Giddings, Douglas, Stewart, Sholder-Trotter, Victor, Mesa Grande, Esmeralda, Katerina, San Pedro, El Molino, Pete Labat, Mack beryl mine at Rincon, Chihuahua Valley, Jacumba, Pacific mine near Camp, mine at Dehesa, T.Q [Tourmaline Queen], T.K. [Tourmaline King], Pala Chief Hill. Box 6.
- NO-08603 California. 1934. Tourmaline Field, Borates, Potash. One page of notes on S.P. mine (p. 10). Box 6.
- NO-08604 1936. Notes from trip to Virginia, North Carolina, South Carolina, Georgia, Arkansas; itinerary only for New York. Minerals and localities mentioned include: Wolff's Knob, VA, Boyer farm, VA, barite, nickel, spodumene, King's Mt., NC, Graves Mt., NC, Brewer mine, SC, Corundum Hill, NC, Fairy Stone Park, VA, Galax, VA, quartz and wavelite in Arkansas, Dug Hill-Ced Gar AR, Silver City, AR, wollastonite, potash, Sulphur Spirngs, AR, Magnet Cove, AR, taemilite, novaculite, nepheline, and brookite. Box 6.
- NO-08605 Notebook. Sp. Gr. 1939-1941. Calculations for various mineral specimens. Box 6.
- NO-08606 Notebook. Notes regarding California trip, 1949. Also, brief notes on conference with H.S. Gale on April 17. Box 6.
- NO-08607 Notebook. n.d. Pala Pegmatites notes. Geologic notes and sketches. Localities include Stewart Canyon, Stewart Hill-Sholder-Trotter claim, Little Stewart, Tourmaline Queen mine, Pala Chief Hill, Spur Hill, Hiriant Hill, San Pedro Ledge, El Molino. Box 6.
- NO-08608 Notebook. W.T.S. 1954-1963. Begins with Ca-Bor. Exp. 848 (Jan. 5/54) – continues with more notes on borate experiments, plus notes on ocean water, hulsite, and larderellite. Box 6.
- NO-08609 Originally in small 3-ring binder. Sketches and calculations for mineral

specimens, including kornelite, szomolnokite, argentojarosite, plumbojarosite, sylvanite, ptilolite, hydroboracite, calcite, and thaumasite. Box 6.

- NO-08610 Notebook. Calculations and a few sketches for various mineral specimens, including lepidolite(?), axinite, calcite, and siderite. Box 6.
- NO-08611 Notebook with list of specimens, 1-1310; plus, pegmatites other than California; dumortierite. Miscellaneous minerals, graphic granite, Sylmar PA-MD, potash, L-V-H-P, copper silicates. Specimens from Tintic Standard mine on separate sheet – “Thin Sections – Iron Borates.” No date. Box 6.
- NO-08612 California Pegmatites. n.d. Notes from publications, notes and data on minerals, sample analysis reports. Box 6.
- NO-08613 Petaca – Minerals. n.d. One sheet with heading “Petaca-Minerals” with brief notes; one sheet with heading “Harding-Jahns” with brief notes. Box 6.
- NO-08614 Notes on Maine and Connecticut. n.d. Geologic notes, notes on minerals. Localities: Topsham-Ararat Mt., Maine Feldspar Company workings, Pulsifer (Keith Kelly) Quarry, Pollucite mine, Berry’s mine, Newry mine, Perhaws Quarry, Mt. Mico, Goshen, White Rock Quarry, and Strockland Quarry. Box 6.
- NO-08615 Notebook. n.d. On first page: “List of Schaller’s photographs, no. 1336 to “. Numbers go through 1492, with brief description for each photo. Box 6.
- NO-08616 Index. X-ray photos. Small book plus several sheets with listings. Box 6.
- NO-08617 Notebook. n.d.. On cover: “Sketch Book, U.S. Geological Survey.” Each page is divided into 15 squares, each with a sketch of a crystal. Total of 74 sketches of specimens from these mines: Mesa Grande, Pala Chief, Himalaya Mine. Box 6.
- NO-08618 “Accounts.” Address book with checkbook-type balance, Feb. 6, 1949 – September 1949, including expenses related to an accident that occurred in May.
- NO-08619 Book with: names, addresses, phone numbers of colleagues, contacts at work; very brief notes on budget, specimens. No date. Box 7.
- NO-08620 Laboratory Notebook I. 1903-1908. Calculations for laboratory work; index in front of notebook. Box 7.
- NO-08621 Laboratory Notebook II. 1908-1912. 377 to 454. Schaller. Calculations for laboratory work. Box 7.
- NO-08622 Laboratory Notebook III. Oct. 15, 1912 to Dec. 30, 1930. 458- . Index on pp. 1-7; notes and calculations for laboratory work. Box 7.

- NO-08623 On cover of original 3-ring binder: Lab. Reports. 1938-1948. D 719-1918, E 1-249, F 2-90, p-548, S 34-127. Copies of analysis reports on various minerals for various scientists, plus a few other notes. Box 7.
- NO-08624 On cover of original 3-ring binder: IWS, X, IWX, IDC. Index on sheets in front of folder; copies of analysis reports on various minerals for various scientists, plus some other notes. 1940-1955. Box 7.
- NO-08631 Other Subject files. Box 7.
- Banded Structure.
 - Crystal drawings. “Mostly for USGS Bulletin 583. Colo. Ferzerite and Wolframite series...” 30 drawings.
 - Crystal Measurements. Measurements for certain specimens of these minerals: glauberite, quartz, anhydrite, diopside, babingtonite, bavenite, enargite, staurolite, and arsenopyrite.
 - Crystallography – Drawings and Calculations. Copy of article, “Crystal forms in the 32 crystal classes”; “Composition Book” with notes, sketches, calculations; additional sheets with notes, sketches, calculations.
 - Crystals. Notes, sketches, calculations for particular samples of these minerals: willemite, galena, calamine, inyorite, meyerhoffite 1-22, koechlinite 1-8, glauberite, variscite 1-18, lucinite 1-6, thaumasite, schneebergite, atopite.
 - Elements. Chemical.
 - Fusibility of minerals. Notes; list of minerals giving mineral name, chemical formula, temperature required(?); unsure of meaning of number in 4th column.
 - Ionic radii. Notes; sheaf of notes titled “Ionic Radii F.S. Grimaldi”.
 - Phosphate minerals – Drawings. Stewart mine, pala, except stewartite.
 - Assortment of items: list of abbreviations used in Schaller’s notes and their meanings; report on x-ray patterns of 34 samples of borates, including film numbers; x-ray identification of 2 residue samples from borate experiments; spectrographic analysis reports; mineral identification reports; notes on status of manuscripts of Schaller. Also, group of notes with unsigned comment –
 - Schaller’s Powder Patterns. List of mineral samples with film numbers (?).
 - 2V Calc. Working notes and calculations.
- NO-08632 Three card file boxes. Information on cards includes mineral data, data on mineral specimens and thin sections, bibliographic references. A number of card groups were originally held with rubber bands, and are now tied with cloth tape. There are groups of related cards within the boxes, but there are also large sections of cards without a clear order or organization to them. Cards remain in order as received. Boxes 7 and 8.

NO-08633 One box of thin sections, numbers GMM 1 thru 38. Box 8.