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LOUIS COWLES CONANT
(1902 - 1999)

NOTES, CORRESPONDENCE, PAPERS

1935 – 1973

(11.75 linear ft. and 16 map folders)

INVENTORY

By

Carol A. Edwards and Clay M. Martin
U.S. Geological Survey Field Records Collection
MS 914, Box 25046, Federal Center
Denver, CO 80225-0046
September 2008

Location of Field Notebooks: CS 17-4 through 8

SELMA GROUP AND PRE-SELMA GROUP GEOLOGIC STUDIES IN ALABAMA. 1935-1967.

<u>Item Number</u>	<u>Description</u>
NO-08210	Notebook. L.C. Conant. Tuscaloosa 1. Station locations C-1 through C-60. 1944. Note inside cover says notes are chiefly in Cottondale quadrangle, a few in Tuscaloosa quadrangle. Geologic and stratigraphic notes, sketches, measured sections. A few added notes in ink from 1952. Numbers given for related aerial photographs.
NO-08211	Notebook. L.C. Conant. Tuscaloosa 2. Station locations C-61--C-170. 1944-1945. Note inside cover says notes chiefly in Cottondale quadrangle. Geologic and stratigraphic notes, sketches. Numbers given for related aerial photographs.
NO-08212	Notebook. L.C. Conant. Tuscaloosa 3. Station locations C-171--C-260. 1945. On a front sheet: C 171-219. Chiefly Cottondale, Eoline, Coker, and Gordo east of Warrior R., including parts of Tuscaloosa, Cottondale, and Blocton quads and nearby areas. C 220-260. Mostly Samantha quadrangle but scattered notes in other areas. Geologic and stratigraphic notes, measured sections. Numbers given for related aerial photographs.
NO-08213	Notebook. L.C. Conant. Tuscaloosa 4. Station locations C-261--C-570. 1945. There are some M-xxx localities (notes by J.H. Morris). Note on front sheet says notes are chiefly Cottondale, Eoline, and Coker in Samantha and Searles quadrangles and nearby areas. Geologic and stratigraphic notes, sketches. Numbers given for related aerial photographs.
NO-08214	Eargle, Dolan Hoye. 1944-1947. Station locations E-1--E-483. On front sheet: "Eargle's notes, chiefly in Pickens Co., a few in Lamar and Tuscaloosa Co., Ala. Numbers and letters indicate air photo number, or the photo strip (e.g. P 8)." Listing of elevations of stations; elevations of certain bench marks. Sections in vicinity of McShan-Gordo Contact. Greene, Pickens, Lamar Counties, Alabama. Data also from sites in Hale County. Geologic notes, sketches.
NO-08215	Notebook. WHM (Watson H. Monroe). Tuscaloosa project. Station locations W1-W72. 1944. Note by L.C. Conant inside cover says: "These notes probably all on the Cottondale, Ala. quad. 1:62,500." Geologic and stratigraphic notes, measured sections. Some numbers for related aerial photographs. A little water damage.
NO-08216	Notebook. WHM (Watson H. Monroe). Tuscaloosa project. Station locations W75-W325. 1944-1945. Note by L.C. Conant inside cover: "Notes chiefly in Pickens Co., Ala., some in Lamar Co., some perhaps in western Tuscaloosa Co." Geologic and stratigraphic notes. Numbers given for related aerial photographs.

- NO-08217 Notebook. WHM (Watson H. Monroe). Tuscaloosa project. Station locations W326-W476. 1945. Note by L.C. Conant inside cover: "Notes on area entirely west of Warrior River, Ala., or nearly so." Geologic and stratigraphic notes, measured sections. Numbers given for related aerial photographs.
- NO-08218 Notebook. WHM (Watson H. Monroe). Tuscaloosa project. Station locations W477-W764. 1945-1946. Note by L.C. Conant? inside cover: "Notes of W.H. Monroe chiefly or entirely west of Warrior River, Alabama." Geologic and stratigraphic notes, notes on fossils, measured sections. Numbers given for related aerial photographs.
- NO-08219 Eargle, Dolan Hoye. Unbound notes. 1945. Alabama and Mississippi. Geologic and stratigraphic notes; measured sections; results of microscopic examinations; sketches; copies of notes of L.W. Stephenson on Coastal Plain, 1908 and 1909. Various localities in Bibb, Greene, Hale, Pickens, and Tuscaloosa Counties, Alabama and Itawamba County, Mississippi. See index sheet in front of notes for listing; notes divided by geographic area.
- NO-08220 Expandable envelope with:
 Folder 1 - copy of inventory;
 Folder 2 - work plan and accomplishments reports (1964, 1968) for project on Pre-Selma Cretaceous of Alabama and adjacent states by Louis C. Conant;
 - reports on referred fossils: 1935, 1950, 1965;
 - correspondence of Conant with others, and copies of other correspondence, related to Conant's studies in Alabama. Correspondents include W.H. Monroe, L.W. Stephenson, D.H. Eargle, Esther Applin, Douglas E. Jones (Univ. of Alabama), Thomas A. Simpson (Geological Survey of Alabama), Philip E. LaMoreaux (Geological Survey of Alabama), Ernest E. Russell (Mississippi State University). Dates are 1940, 1943, 1945-1946, 1959, 1964-1966;
 - preliminary, incomplete draft of proposed report on the Alabama Pre-Selma Coastal Plain studies by Monroe, D.H. Eargle, L.C. Conant, et al prepared by L.C. Conant, 1967;
 - report on radiocarbon dating of certain wood and charcoal samples;
 - correspondence regarding Charles W. "Bill" Drennen's thesis and his proposed reclassification of the Tuscaloosa stratigraphy. Correspondents include W.H. Monroe, L.C. Conant, Charles W. Drennen;
 - correspondence regarding transfer of piece of amber to the U.S. National Museum, 1950;
 - data copied from L.W. Stephenson's notebooks of 1909 and 1923.
- NO-08784 Conant, L.C. Notebook 5. 1945-1946. Localities C-571 to C-792. The first notebook sheet gives an explanation for the numbering system and summary of contents: "C-571 to C-677: chiefly Cottondale, Eoline, Coker, and Gordo Formations of Samantha quadrangle and nearby areas; C-678 to C-755: mostly areas farther east such as Searles quadrangle, Bibb County, etc.; C-756 to end of book [C-792]: mostly Eutaw and McShan of western part of map 64 [i.e. U.S.

Geological Survey Oil and Gas Investigations Preliminary Map 64. 1947]. Stratigraphic and geologic notes, along with related aerial photo numbers and a few sketches. Also, Road Log of examination of new Highway 11 from Bucksville westward (7/25/45); sinkholes east of Centerville, beside Highway 6 (10/15/45); some notes on fossils and localities; Miscellaneous notes, sinkhole area (11/7/45); Tombigbee River Bluff, Plymouth Bluff (4/10/46). In back of notebooks is list of photos taken.

- NO-08785 Conant, L.C. Notebook 6. 1945-1947. Localities C-793 to C-1060. Inside front cover: "notes chiefly in Bibb, Hale, Perry, and Chilton Counties." There are also notes taken in Tuscaloosa County. Stratigraphic and geologic notes, along with related aerial photo numbers, traverse notes, a few sketches. Notes on visit to Millers Pottery (Perry County, 2/4/47). Several margin notes toward back of notebook that are dated 1948. List of photos taken in back of notebook.
- NO-08786 Conant, L.C. Notebook 7. 1947, 1964. Localities C-1061 to C-1241. Inside cover: "Notes chiefly in Perry, Autauga, Elmore, Dallas, and Chilton Counties." There are also notes for localities in Montgomery and Tuscaloosa Counties. Notes for localities 1061 to 1228 are dated 1947; notes for localities 1229 to 1241 are dated 1964. Stratigraphic and geologic notes, along with related aerial photo numbers, traverse notes; some margin notes in 1947 section are dated 1964 and 1965. Toward end of notebook there are notes of photos taken.
- NO-08787 Conant, L.C. Notebook 8. 1964. Localities C-1242 to C-1293. Inside front cover: "Chiefly notes on scattered localities in Autauga, Bibb, Chilton, Dallas, Elmore, Hale, and Perry Counties, a few in Tuscaloosa County." Stratigraphic and geologic notes, traverse notes, measured sections, notes of photos taken. Also, margin notes dated 1953 and 1965; a few sketches; notes on samples (5/8/64).
- NO-08788 Conant, L.C. Notebook 9. 1964. Localities C-1294 to C-1376. Inside front cover: "Notes on localities in Autauga, Dallas, and Elmore Counties." Stratigraphic and geologic notes, related aerial photo numbers, traverse notes, notes of photos taken, margin notes, a few sketches.
- NO-08789 Conant, L.C. Notebook 10. 1965, 1967. Localities C-1377 to C-1444. Inside front cover: "Notes on Autauga, Bibb, Chilton, Dallas, Hale, Lowndes, and Perry Counties." There are also notes in Elmore and Tuscaloosa Counties. First page: "May 5, 1965 – Millers Pottery." Stratigraphic and geologic notes, numbers of related aerial photos, traverse notes, notes of photos taken, margin notes, a few sketches. Notes on Alabama River trip, and on revisit to sinkhole localities.
- NO-08790 Conant, L.C. Notebook 11. 1967. Nine pages of notes on a boat trip along the tailrace canal in Elmore County.
- NO-08791 Eargle, D.H. Pre-Selma Alabama. 1948-1949. Localities E-1 to E-125. Inside cover: "Notes on Autauga and Elmore Counties, Alabama." Geologic and

stratigraphic notes, measured sections, numbers of related aerial photos, traverse notes, margin notes, some notes on fossils. Several pages of notes, "C.W.D.", i.e. Charles W. Drennen.

- NO-09153 Eargle, D.H. Pre-Selma of Alabama. 1949. Localities E-126 to E-288. Geologic and stratigraphic notes and sections, and sketches. Locales include Elmore, Macon, and Tallapoosa Counties.
- NO-09154 Eargle, D.H. and Charles W. Drennen. Pre-Selma of Alabama. 1949. Localities E-289 to E-385. Geologic and stratigraphic notes and sections. Locales include Lee, Macon, and Russell Counties, Alabama.
- NO-09155 Eargle, D.H. Pre-Selma notes. Seale quadrangle, Alabama. 1949. Localities E-206 to E-207 and S-1 to S-12. Geologic and stratigraphic notes and sections.
- NO-08792 Monroe, W.H. Field notes, Autauga County, Alabama. 1945. Localities A-1 to A-23. Ten pages of geologic and stratigraphic notes, numbers of related aerial photographs. Some margin notes, notes on A-22 dated 1965.
- NO-08793 Morris, J.H. Field notes, May – November 1944. Localities M-1 to M-251. Geologic and stratigraphic notes, and numbers of related aerial photos. In back of notes is listing of the elevation for each station location.
- NO-08794 Envelope with: 1 sheet with Explanation of Symbols Used on Conant's Manuscript Maps; copy of letter dated January 16, 1947 to Watson Monroe, probably from Louis Conant, discussing field work in Hale and Perry Counties, summer plans, and related topics; 4 pages of typed notes on Hale County, by Conant?
- NO-08795 Four document boxes with:
- "Logs of pre-Selma wells watched by Monroe", including: strip logs of 4 wells drilled by the USGS in 1954, in Bibb, Perry, and Tuscaloosa Counties – Boykin No. 2, Cleveland No. 1, Crawford No. 1, and Webb No. 1; memorandum dated December 7, 1954, to W.P. Huleatt from W.C. Culbertson describing the drilling project; report by E.R. Applin on cuts made on the USGS Webb No. 1 (January 1955); report by E.R. Applin on additional samples studied from the USGS Webb No. 1 – core test; letter dated January 1955 to Watson H. Monroe from E.R. Applin giving reports on samples cut and studied from the USGS Boykin No. 2; report by E.R. Applin on samples cut from the USGS Crawford No. 1 (January 1955); report by E.R. Applin on additional samples studied from the USGS Boykin No. 2 – core test well; record of Crawford No. 1 well and coring record; record of Cleveland No. 1 well and coring record; record of Boykin No. 2 well and coring record; USGS Boykin No. 1 – "Driller's log (modified with other data)"; record of Webb No. 1 well and coring record.
 - 44 folders with 1,030 black and white vertical aerial photographs, many of

which are annotated on the front and sometimes on the back as well.

- NO-09151 Twelve document boxes with 2,267 black and white vertical aerial photographs, many annotated. Boxes 1-2: Autauga County; boxes 3-4: Bibb County; box 5: Elmore and Hale Counties; boxes 6-7: Marion County; box 8: Perry County; boxes 9-10: Russell County; boxes 10-12: Lamar County.
- MA-01718 Map folder with 6 items:
- one copy each of Cottdale and Tuscaloosa, Alabama 15' quadrangles with field annotations by L.C. Conant (used in preparing OM 37);
 - one copy each of Samantha and Searles, Alabama 15' quadrangles with field annotations by L.C. Conant (used in preparing OM 64);
 - one copy of Eutaw, Alabama 15' quadrangle with field annotations by W.H. Monroe (used in preparing OM 50 or other work). ("Used in..." information from notes by L.C. Conant which accompanies maps.)
 - copy of map titled "Bauxite Deposits of Barbour and Henry Counties, Alabama" (September 1942) with annotations.
- MA-01882 Map folder with 5 items (publication date of map in parentheses):
- Autauga County General Highway and Transportation Map (1937). "Chiefly locations of Monroe localities (e.g. A4). Lines and notes in E. by Eargle. A few other notes and localities of Conant. All in 1948 or earlier";
 - Chilton County General Highway and Transportation Map (1937). - "Compilation and most of the mapping by Conant, some by Eargle, especially in the east. Reconnaissance by Monroe." Map stamped "L.C. Conant";
 - Blocton 15' quadrangle (1940) with color and geologic annotations; map stamped "L.C. Conant";
 - Montgomery 15' quadrangle (1930) with annotations. "Eargle and Monroe notes";
 - Chilton County General Highway Map (1949). "Geology by L.C. Conant and D.H. Eargle, 1945-1947."
- MA-01883 Map folder with 9 items (publication date of map in parentheses):
- U.S. Geological Survey Topographic Index Map of Alabama (1963) showing "Status of project 34-15" as of January 1964, by L.C. Conant;
 - Elmore County General Highway and Transportation Map (1937) which is an index to Eargle Field Localities;
 - Elmore County – highway map of central part of county with incomplete geology by D.H. Eargle, ca. 1942;
 - Hale County General Highway Map (1949) – "These lines [contour lines?] probably by Conant";
 - Lowndes County General Highway and Transportation Map (1937) – "Field notes by Eargle, including some Monroe information";
 - Marengo County General Highway Map (1950) with annotations;
 - Perry County General Highway Map (1949) – "Mapping by Conant (briefly) in 1946-1947. (Lines on Soil map are more complete and more detailed)";

- Talladega National Forest (Oakmulgee Division) (1940) – “Penciled contact reconnaissance by Morris, Gordo/Coker”;
- Talladega National Forest (Oakmulgee Division) (1940) – “Compilation by Conant. Many early observations, especially the Gordo/Coker contact, by Morris. Reconnaissance by Monroe.”

- MA-01884 Map folder with 16 items. Copies of topographic quadrangles with geologic annotations; some maps also show corresponding aerial photo strip numbers. Each map has notes telling who did the geologic work shown on that map, those are given below; publication date of map showing in parentheses:
- Autaugaville 15' (1947) – Mapping chiefly by Conant, some early observations by Monroe and Eargle;
 - Benton 15' (1957) – Mapping chiefly by Conant; some early work by Monroe and Eargle;
 - Billingsley 15' (1959) – 2 copies. One copy stamped “L.C. Conant” with mapping chiefly by Conant and reconnaissance by Eargle. Second copy has mapping by Eargle but only in upper half of map;
 - Elmore 15' (1959) – 2 copies. One copy, stamped “L.C. Conant”, with mapping west of Coosa River chiefly by Conant, incorporating some earlier information by Eargle; localities east of Coosa river by Eargle. Second copy has compilation by Conant, but only in northwest corner of map;
 - Montgomery 15' (1958) – stamped “L.C. Conant”; mapping by Conant but many of the outcrops first studied by Eargle his notebook of 1948-1949 describing outcrops, E1-E125);
 - Montevally 15' (1910) – stamped “L.C. Conant”, mapping by Conant;
 - Mount Meigs 15' (1958) – compilation by Conant based largely on information on photos made by Eargle;
 - Plantersville 15' (1959) – 2 copies. One copy stamped “L.C. Conant.” Compilation and most of the mapping by Conant. Some early observations by Monroe. Second copy has compilation by Conant, but only in north part of map (in Chilton County);
 - Selma 15' (1958) – stamped “L.C. Conant.” Compilation and most of the mapping by Conant, incorporating many earlier observations by Monroe and Eargle;
 - Selma 7.5' (1958) – compilation and detailed mapping by Conant, incorporating many earlier observations by Monroe and some by Eargle;
 - Summerfield 15' (1959) – 2 copies. One copy stamped “L.C. Conant.” Compilation and most of the mapping by Conant, some early observations by Monroe. Second copy has mapping and compilation by Conant, but only in northeast corner of map;
 - Wetumpka 15' (1959) – Annotations only in southwest part of map. Mapping west of Coosa River by Conant; see Eargle’s notebook of 1948-1949 (outcrops, E1-E125) for notes on outcrops.

- MA-01885 Map folder with 9 items. USGS quadrangle maps from folder labeled “Field Sheets Areas Publication” (publication date of quadrangle map shown in

parentheses):

- Structure contours, southeast part of Cottondale quadrangle. Contours probably by Jim Morris;
- Cottondale 15' (advance sheet) – mapping chiefly by Conant and Monroe; Cottondale 15' (1934) – 2 copies. One copy is compilation by Conant for USGS Oil and Gas Investigations Preliminary Map 37. Second copy has notes probably by Eargle or Monroe;
- Samantha 15' (advance sheet) – Mapping chiefly by L.C. Conant; Conant compilation for Oil and Gas Investigations Map 64;
- Searles 15' (advance sheet) – Conant compilation for Oil and Gas Investigations Preliminary Map 64;
- Portion of a map (not a USGS quadrangle map) showing generalized geology in the area of Tuscaloosa and west;
- Tuscaloosa 15' (1926) – 2 copies. One copy has notes probably by W.H. Monroe, including added geographic names along the Black Warrior River. Second copy is a compilation by Conant prior to publication of Oil and Gas Investigations Preliminary Map 37.

MA-01886 Map folder with 5 unpublished highway profiles:

- Profile of part of US Highway 82 (Alabama Highway 6) I vicinity of Eoline and southeast, Bibb County (type locality of Eoline Formation), with photocopy (2 sheets);
- Profile showing geology along Alabama Highway 6 (US Highway 82), vicinity of Eoline, Alabama. Geology by D.H. Eargle. Includes typed description of beds, Eoline type section, with black and white, and color, photocopies (4 sheets);
- Profile of county road east of Spring Hill Church, 3 miles southeast of Coker, Tuscaloosa County (type locality of Coker Formation), geology by W.H. Monroe and D.H. Eargle, plus photocopy;
- Original drawing for profile along US Highway 82 (Alabama Highway 6), above;
- Field sheet, highway profile, with description of beds – Eoline type section.

MA-01887 Map folder with 10 Alabama county soil maps with additional annotations, including notes on who did the geology and/or mapping. Some maps show aerial photo strip numbers (publication date of soil map shown in parentheses):

- Dallas County (1932) – mapping in north chiefly by Conant; notes in south by Monroe, probably about 1939;
- Perry County (1930) – compilation and most of the mapping by Conant; many earlier observations by Monroe, especially along the Selma-Eutaw contact;
- Perry County (1902) – scattered notes;
- Franklin County (1927) – a few notes in southwest part of map, especially around towns of Vina and Atwood. The figures near Vina are probably elevations;
- Hale County (1935) – compilation and most of the mapping by Conant, reconnaissance by Monroe, also the basal Selma contact chiefly by Watson H.

Monroe;

- Dallas County (1905) – scattered notes;
- Hale County (1909) – scattered notes;
- Marion County (1907) – scattered notes;
- Sumter County (1904) – scattered notes;
- Pickens County (1916) – scattered notes.

MA-01888 Map folder with 4 maps (1 in 2 pieces) (publication date of soil map shown in parentheses):

- Tuscaloosa County soil map (1911) in 2 pieces. Notes mostly by Drennen, some by Conant. “The northern part of this county is not included in any of the USGS 1:62,000 publications, L.C.C. [Louis C. Conant]”;
- Marion County soil map (1907) – mapping by D.H. Eargle. Probably incorporated into USGS Oil and Gas Investigations Preliminary Map 37;
- Hale County soil map (1935) with geologic annotations as well as notes on geographic features, especially along the Black Warrior River;
- General Highway Map Perry County Alabama 1949. Annotations on map showing aerial photograph flight lines.

MA-02024 Map folder with 14 items:

- Elmore County, Alabama General Highway and Transportation Map, 1937. Geologic annotations and station locations added by D.H. Eargle;
- Lee County, Alabama General Highway and Transportation Map. 1937. On map: “Pre-Selma of East Alabama. Index to Field Stations, Lee County. Descriptions of map localities referred to photo numbers are on the photos.” D.H. Eargle;
- Elmore County General Highway and Transportation Map. 1937. Geologic annotations and station localities by D.H. Eargle;
- Russell County, Alabama General Highway and Transportation Map. 1937. D.H. Eargle. “Pre-Selma of Eastern Alabama. Index to Field Stations. Russell County. Descriptions of the map localities referred to photo numbers are on the photos”;
- Tallapoosa County, Alabama General Highway and Transportation Map. 1937. D.H. Eargle. “Pre-Selma of Eastern Alabama. Index to Field Stations. Russell County. Descriptions of the map localities referred to photo numbers are on the photos”;
- Tallapoosa County, Alabama General Highway and Transportation Map. 1944. D.H. Eargle. Geologic annotations;
- Macon County, Alabama General Highway and Transportation Map. 1937. D.H. Eargle. Pre-Selma of Eastern Alabama. “Index to Field Stations. Descriptions of localities referred to photo numbers are on the photos”;
- Lee County, Alabama General Highway and Transportation Map. 1942. D.H. Eargle. “Eargle’s mapping”. Geologic annotations;
- Macon County, Alabama. Soil Map. “Eargle’s manuscript of geologic mapping”;
- Opelika, Alabama-Georgia 30’ quadrangle. D.H. Eargle. With geologic

- NO-02324 L.C. Conant, J.H. Morris, W.B. Baldwin, H.A. Tourtelot, R. Heller. Field notebook with data from WPA auger holes 701-719 and 730-750, and Bureau of Mines drill holes 1-98, from Pontotoc County, Mississippi. 1942-1943.
- NO-02325 L.C. Conant. Field notebook with section data and notes on bauxite properties and outcrops in the Pontotoc district and adjacent areas in Pontotoc and Lafayette Counties, Mississippi. 1942-1943.
- NO-02326 Conant, L.C. Field notebook with vertical angle data from the Pinedale area, Union County, the Pontotoc district, Pontotoc County, and the Fowler area, Benton County, Mississippi. 1942-1943.
- NO-02327 One document box and one expandable envelope with aerial photos of Kemper, Lafayette, Lauderdale, Noxubee, Pontotoc, Union, and Winston Counties, Mississippi. No dates. Also included is a 139-page manuscript entitled "Bauxite and kaolin investigations in Mississippi, 1941-43", by L.C. Conant, dated July 1944.

Published as: U.S. Geological Survey. Bulletin 1199-B. 1965.

CHATTANOOGA SHALE AND RELATED ROCKS OF CENTRAL TENNESSEE AND NEARBY AREAS. 1947-1973.

- NO-03456 Kehn, T.M. Youngs Bend area, Smithville and Sligo Bridge 7.5' quadrangles, De Kalb County, Tennessee. Drill holes YB 1-4, 6-7, 9-15. 1952-1953.
- NO-03457 Kehn, T.M., Glover, L. III, Soren, J., Conant, M.L. Drill holes YB 16-38, Youngs Bend area, Smithville and Sligo Bridge 7.5' quadrangles, De Kalb County; drill holes YB 39-46, Eastern Highland Rim area, De Kalb, Cannon, Warren, Coffee, and Moore Counties, Tennessee. 1953.
- NO-03458 Kehn, T.M., Conant, L.C., Conant, M.L., Glover, L. III. Drill holes YB 51-52, Jackson and Putnam Counties; drill hole NV 53, Davidson County; drill holes NV 56, 62-63, Sumner County; drill holes NV 59-61, Macon County--Tennessee; drill holes AL 64, 66, Blount County, Alabama, AL; drill holes SL 1-2 (Sligo area), DeKalb County, Tennessee. 1953.
- NO-04431 Swanson, Vernon E. Eastern Oil Shale Investigations, Chattanooga shale. Field Notebook. Summer 1949. Table of Contents at beginning of notes. Original field notes--mainly stratigraphic notes, with notes on samples, occasional mention of fossils, sketches; most locations are in Tennessee. Localities or topics include: Flynn Creek cryptovolcanic area and other sites at Olive Hill, Tenn., Linden, Centerhill, Rockdale, Theta, Pegram, Nashville, Smyrna, Gruetli, Coalmont, Spence, Lantana, Cookeville, Crawford, Little Crab, Oakley, Franklin, Burwood, Boston, Santa Fe, Williamsport, Water Valley, Jones Valley, Cross Key,

Hampshire, Lynville, Yokeley, Screavner, Cornersville, Lewisburg, Fayetteville, Pulaski, Waco, Bodenham, Waynesboro, Ardmore, Taft, Riverside, Flatwood, New Johnsonville, Centerville, Pasqua—all in Tennessee. Also, thicknesses of Chattanooga Formation from well records - by county; several well cuttings studies; interpretation of Chattanooga-Maury absence-phosphate area; interpretation of regional geology along Western Rim, and comments on peculiar occurrence near Pulaski. Also, notes on well cuttings from Barren County, Kentucky. See typed copy of these notes at NO-8678, folder 8.

- NO-04432 Swanson, Vernon E. Eastern Oil Shale Investigations. Field Notes. Review of Pertinent Chattanooga Outcrops in Tennessee, June 7-30, 1950. Also, Southern Tennessee Notes, October 15-18, 1950. Index sheet in front. Geologic and stratigraphic notes, possibly notes on samples, a few sketches. On pages 48-49—“Field Sketches of Bone Removal.” Lauderdale and Limestone Counties, Alabama; Davidson, Giles, Hamilton, Hardin, Hickman, Jackson, Lawrence, Perry, Sumner, Wayne, and White Counties, Tennessee.
- NO-04433 Swanson, Vernon E. Pre-Selma Upper Cretaceous Rocks of Northwestern Alabama and Northeastern Mississippi. 1950. Index sheet in front. Geologic and stratigraphic notes, possibly notes on samples, sketches. Tuscaloosa, Lamar, and Pickens Counties, Alabama; Bedford County, Tennessee. Also, pp. 97 - typed copy of “Monroe statements regarding Livingston fault area” by Louis Conant, August 21, 1951. Also, pp. 101 - typed notes, “Trip Through the Livingston, Alabama Area with Monroe and Drennen”, June 1, 1952, with original notes for this section beginning on page 107.
- NO-04434 Swanson, Vernon E. Miscellaneous Notes on Chattanooga Shale. Index sheet in front. Geologic and stratigraphic notes. Topics include: Chattanooga and Maury thin-section descriptions, 1951; Chattanooga in Mississippi and Alabama wells—notes on trip to oil company offices in Jackson, Mississippi, 1951; Pre-Chattanooga soil—excerpts from field notes, 1949-1950; office examination of phosphate nodules from Maury Formation, 1951; Chattanooga in well cuttings in Colbert County, Alabama, 1951; petrographic description of Hardin siltstone thin section; type section of Chattanooga shale, Cameron Hill, Chattanooga, Tennessee, “taken from Hass’ unpublished manuscript, ‘Age of Chattanooga Shale’(1947)’”; descriptions of sandstone thin sections of Chattanooga and Maury, 1952; notes on Chattanooga shale from various USGS Folios.
- NO-04435 Swanson, Vernon E. Eastern Oil Shale Investigations. Field notes and possibly notes on samples, 1951 and 1952. Index sheet in front. Field notes, sketches, for November 6-18, 1951 at various locations in Tennessee and Alabama. Notes on field conference, November 14-15, 1951, with L.C. Conant, Philip B. King, Robert B. Newman, Marcus Cattermole, and Swanson. Notes from examination of cores at Huntsville and Redstone Arsenal, November 17, 1951. Notes on Tuscaloosa-Birmingham, Centerville area. Field notes, April 28-May 10, 1952, including conference with W.H. Hass, Preston Cloud, and James S. Williams.

Notes on outcrop localities obtained from Pohl Collection at Vanderbilt University, Nashville, Tennessee. Bibb, Blount, Jefferson, Madison and Shelby Counties, Alabama; Cumberland County, Kentucky; Cheatham, Coffee, Davidson, Jackson, Lewis, Rutherford, Sevier, Sumner and Williamson Counties, Tennessee. 1951. See also NO-8678, folder 9 for typed version of these notes.

NO-04436 Swanson, Vernon E. Eastern Oil Shale Investigations. Field notes, 1952. Index sheet in front. Geologic and stratigraphic notes and sketches, and sample data; also, some photos attached to pages with notes. Includes some notes by B. Kilburn and John Snider. Notes are for localities SK1-SK48, LC-55. Notes on Joints in Fort Payne Chart. Notes on various GRID localities. Photos are by Tom Kehn. Blount, Cherokee, DeKalb, Etowah, Jackson and Langston Counties, Alabama; Chattanooga County, Georgia; Cumberland and Marion Counties, Kentucky; and, DeKalb, Stewart, and Wayne Counties, Tennessee.

NO-08678 Six document boxes with 46 folders:

- 1. Chattanooga Shale. Field notes - L.C. Conant. Geologic and stratigraphic notes, grouped by locality, covering 1947-1958 (bulk, 1947-1951). Tab markers identify locality subgroups.
- 2. Chattanooga Shale. Conant - Black Shale. Miscellaneous/conferences. Notes on various field conferences and related field trips, May 1952-September 1953.
- 3. Chattanooga Shale, Madison County, Alabama. Notes by Louis C. Conant. Notes of field trip with LaMoreaux, Malmberg, Culbertson, and Glover on February 24, 1954.
- 4. Memo of Transmittal from L.C. Conant to Warren Finch (February 19, 1974) plus Conant's "Notes re the 1953 Vernon-Close wells through the Chattanooga Shale, Walker County, Georgia."
- 5. "Preliminary Summary Report on Chattanooga Shale Investigations" by Louis C. Conant, February 1954. Typed copy of report, with minor editing.
- 6. "Origin of the Chattanooga Shale," by L.C. Conant, read to the Kentucky Geological Society, November 2, 1951, plus notes by Conant on the talk and comments he received.
- 7. Chattanooga Shale notes by W.H. Hass, 1947-1949. Mixture of original and typed copies of stratigraphic notes, and sketches, for localities in Alabama, Mississippi, Tennessee. List of locality/section numbers on first page.
- 8. Chattanooga Shale. Eastern Oil Shale Investigations. Field Notebook. Vernon E. Swanson, Summer 1949. Typed copy of field notes—mainly stratigraphic notes, with occasional mention of fossils, map, table of contents; most locations are in Tennessee, plus some in Kentucky. Localities or topics include Flynn Creek cryptovolcanic area and other sites at Olive Hill, Tenn., Linden, Centerhill, Rockdale, Theta, Pegram, Nashville, Smyrna, Gruetli, Coalmont, Spence, Lantana, Cookeville, Crawford, Little Crab, Oakley, Franklin, Linton, Burwood, Boston, Santa Fe, Williamsport, Water Valley, Jones Valley, Cross Key, Hampshire, Swan Creek area, Lynville, Yokeley, Screavner, Cornersville, Lewisburg, Fayetteville, Pulaski, Waco, Bodenham,

Waynesboro, Ardmore, Taft, Riverside, Flatwood, New Johnsonville, Centerville, Pasqua—all in Tennessee. Also, thicknesses of Chattanooga Formation from well records - by county; several well cuttings studies; interpretation of Chattanooga-Maury absence-Phosphate area; interpretation of regional geology along Western Rim, and comments on peculiar occurrence near Pulaski. Also, notes on well cuttings from Barren County, Kentucky. See NO-4431 for original notes for this item.

- 9. Eastern Oil Shale Investigations. Vernon E. Swanson. Field notes, 1951 and 1952. Typed copy of notes. Field notes, sketches, for November 6-18, 1951 at various locations in Tennessee and Alabama. Notes on field conference, November 14-15, 1951, with L.C. Conant, Philip B. King, Robert B. Newman, Marcus Cattermole, and Swanson. Notes from examination of cores at Huntsville and Redstone Arsenal, November 17, 1951. Notes on Tuscaloosa-Birmingham, Centerville area. Field notes, April 28-May 10, 1952, including conference with W.H. Hass, Preston Cloud, and James S. Williams. Notes on outcrop localities obtained from Pohl Collection at Vanderbilt University, Nashville, Tennessee. See NO-4435 for original notes for this item.
- 10. Chattanooga Shale. Reconnaissance, Marion County, Kentucky. July 21-4, 1952. Vernon E. Swanson. Typed copy of notes.
- 11. Chattanooga Shale. Miscellaneous Notes. Vernon E. Swanson. Locations and descriptions of 36 pre-Chattanooga soil exposures visited during summers of 1949 and 1950. Notes of June 1950 on section 13G-81. Notes on South Tennessee, October 15-18, 1950. Also, notes of January 24, 1952 on Tuscaloosa-Birmingham-Centreville[sic] area, Alabama. See NO-4434 for original notes for this item.
- 12. Field counts by Robeck. Block 1. Chattanooga Shale. Radiometric field counts (by Geiger counter or scintillometer) made by R.C. Robeck in 1947-1948.
- 13. Chattanooga Shale. Field counts by Robeck. Blocks 3, 4 and 5. Radiometric field counts made in 1948.
- 14. Field Party Samples. Forms with sample information, including: lot number, location, sample number, thickness, physical determinations/uranium, fluorimetric determinations. Forms are preceded by several explanation and information sheets.
- 15. Field Party Samples. Additional forms and information sheets, as in folder 14.
- 16. Black Shale 3-4, Drilling Logs, Fort Payne. Drill hole logs.
- 17 and 18. Drill logs and core records. 1953.
- 19. Log by T.M. Kehn of Tom Brown DD hole, 7 miles south of Russellville, Logan County, Kentucky, Dot 7.5' quadrangle, September 1962.
- 20. Andrew Brown. Miscellaneous Letters and Notes Regarding Black Shale, 1957-1973. Letters, articles, and notes, as well as other material related to Brown's manuscript, "Economic Potential of the Chattanooga Shale in Tennessee." Correspondents include: Irving Breger, Louis C. Conant, Warren

Finch, Jerry C. Olson, Vernon E. Swanson, Edwin W. Tooker, and Harry Tourtelot.

- 21. Typed draft, "Economic Potential of the Chattanooga Shale in Tennessee" by Andrew Brown, with editing.
- 22. "Copy 4 of A. Brown's Ms." Typed copy of an apparent later version of the text, "Economic Potential of the Chattanooga Shale in Tennessee" by Andrew Brown.
- 23. Drafts of various figures and tables included in Brown's paper.
- 24. Typed copy, "Economic Potential of the Chattanooga Shale in Tennessee [by Andrew Brown] with a Chapter on the Precision of Determination of Uranium in Chattanooga Shale [by Irving May]." Also, draft figures, and a second copy of May's chapter.
- 25. Typed report, "The Precision of the Determination of Uranium in Chattanooga Shale" by Irving May.
- 26. Chattanooga Shale. Block 1 - Tennessee, chiefly DeKalb County. Stratigraphic notes by various authors, arranged by locality. 1947.
- 27. "Chattanooga Shale. Block 3, Sequatchie Valley, Tennessee," by Raymond C. Robeck, 1948. Typed report, with photos, correlation chart, and outcrop map.
- 28. Chattanooga Shale. Block 3 - Tennessee, Sequatchie Valley - R.C. Robeck. Notes of samples taken from sections R S1-S3, S6-S7, S14-S19. 1948.
- 29. Chattanooga Shale. Block 4. Notes by Ralph Smith. Geologic and stratigraphic notes, 1948.
- 30. Chattanooga Shale. Block 4 - Tennessee. Stratigraphic notes and sample notes, "chiefly by Ralph Smith's group" [on front of notes], northern part of Eastern Highland Rim, 1948.
- 31. Chattanooga Shale. Blocks 5 and 6 (Southern Part of Eastern Highland Rim) and Block 7 (Northeast Corner of Nashville Basin). Stratigraphic and sample notes by Ray Robeck, J.C. Reed, Jr., J.R. Houston, and others. 1948.
- 32. Chattanooga Shale. Block 8 (Kentucky) and Robeck Reconnaissance. Block 8 - stratigraphic and sample notes, 1948. Notes for New Albany, Indiana area, 1949; reconnaissance notes in Kentucky and Ohio, August 1948; original field notes, Block 8, by Ray Robeck, 1949.
- 33. Tuscaloosa office file of U[uranium] analyses. Geochemical analyses reports for Chattanooga shale samples, 1948-1952.
- 34 and 35. Miscellaneous and assorted black shale analyses.
- 36. Chattanooga Uranium Analyses. Reports on re-runs of analyses of Chattanooga shales.
- 37. Chart showing "Elements Distributed Fairly Evenly Throughout the Shale," n.d.
- 38. 1953 Core drilling results - Chattanooga shale. Requests for analysis, and sample analysis reports showing percent of uranium.
- 39. Memorandum to Warren Finch from Louis C. Conant, dated January 23, 1974, listing materials being transferred by Conant to Finch.
- 40. Core Storage - Chattanooga Shale. Correspondence and inventory lists

regarding the Chattanooga shale cores, 1952-1972.

- 41. Copy of typed report, "Preliminary Report Chattanooga Shale Project to the Atomic Energy Commission" by E.D. Gardner, A.A. McKinney, and P.L. Russell, U.S. Bureau of Mines, March 1, 1954.
- 42. Personnel. Information on people assigned to the Chattanooga Shale Project, including a group of students from Antioch College employed at the Tuscaloosa, Alabama field office.
- 43. Aerial photographs, Blount County, Tennessee. Black and white aerial photographs, some with annotations: GP-1F:91-97, dated 3-3-49; GP-2F:9-15, 43-48, dated 3-3-49.
- 44. Aerial photographs, Blount County, Tennessee. Black and white aerial photographs: GP-2F: 63-67, 108-111, 129-135, all dated 3-3-49; 169-174, dated 3-5-49; GP-3F: 12-17, dated 3-5-49.
- 45. Three reports released during the International Conference on the Peaceful Uses of Atomic Energy (1955): "Uranium in Marine Black Shales of the United States" by Vernon E. Swanson, "Uranium in the Chattanooga Shale of Eastern Tennessee" by A. Brown, and "Environment of Accumulation of the Chattanooga Shale" by Louis C. Conant. Typed copy, "Statements by L.C. Conant on the investigations of the Chattanooga shale by the U.S. Geological Survey, AEC shale program meeting, June 2, 1953", typed copy of "Shallow-water Origin of the Chattanooga Shale" by Louis C. Conant - presented at black shale symposium, GSA Southeastern Section, Nashville, Tennessee, April 1953. Copy of US Bureau of Mines Report of Investigations 6932 (April 1967), which includes map (figure 2) showing USGS Reference Blocks used in the Chattanooga shale investigations. Copy of open-file report by James D. Vine, "Analyses of Some Upper Paleozoic Black Shales and Associated Rocks," February 23, 1966.
- 46. Two groups of bibliographic cards.

MA-01853 Group of maps titled: Cumberland River Watershed. Caney Fork River, Tennessee. Center Hill Reservoir. By U.S. Engineer Office, Nashville, October 1942. Note by Conant on front: "This album covers much of our more intensive investigations of the Chattanooga Shale. Some of the higher-numbered sheets especially, where the Shale is below lake level, have a little elevation and structural data that might be of use in some later more intensive study of the area."

MA-01854 Topographic and planimetric maps, some with annotations on front and/or back. Planimetric maps were produced by the U.S. Army Corps of Engineers or the Tennessee Valley Authority. Included are the Avondale, Baxter, Bean Station, Camp Forest, Chattanooga, Cumberland Springs, Daus (2 copies), Fairmount, Grassy Cove, Beech Grove, and Billingsley Gap, Tennessee, 7.5' quadrangles; the Franklin, Gainesboro(3 copies), Gordonsville, Carthage (2 copies), and Cookeville, Tennessee, 15' quadrangles; and the Gallatin, Tennessee, 30' quadrangle.

MA-01855 Topographic and planimetric maps, some with annotations on front and/or back. Planimetric maps were produced by the U.S. Army Corps of Engineers or the Tennessee Valley Authority. Included are the Henson Gap (2 copies), Hilham, Ketner Gap (2 copies), Lois, Lowryville, Manchester, Mount Airy, and Morgan Springs, Tennessee, 7.5' quadrangles; the Hollow Springs, Lafayette, and Lillydale, Tennessee, 15' quadrangles, and the McMinnville (2 copies), Hartsville, Lebanon, Livingston, and McMinnville, Tennessee, 30' quadrangles.

MA-01856 Topographic and planimetric maps, some with annotations on front and/or back. Planimetric maps were produced by the U.S. Army Corps of Engineers or the Tennessee Valley Authority. Included are the Ooltewah, Ovoca, Roddy, Savannah, Sequatchie (2 copies), Silver Point, and Windle, Tennessee, 7.5' quadrangles; the Nashville, Red Boiling Springs (2 copies), Ridgetop, Sequatchie Valley, Tompkinsville, Woodbury, and White Bluff, Tennessee, 15' quadrangles, and the Standingstone, Tennessee, 30' quadrangle.

Published as: U.S. Geological Survey. Professional Paper 357. 1961.

Published as: U.S. Geological Survey. Trace Elements Investigations Report 64. 1951.

Published as: U.S. Geological Survey. Trace Elements Investigations Report 224. 1952.

Published as: U.S. Geological Survey. Trace Elements Investigations Report 237. 1952.

Published as: U.S. Geological Survey. Trace Elements Investigations Report 528. 1958.

Published as: U.S. Geological Survey. Trace Elements Investigations Report 682. 1957.

GEOLOGY AT FORT BENNING, CHATTAHOOCHEE AND MUSCOGEE COUNTIES, GEORGIA. 1949.

NO-8221 Fort Benning Conference. June 4-5, 1949. L.C. Conant notes on conference with Louis Ray, Hoyer Eargle and Phil LaMoreaux and others at Fort Benning, Georgia, after Ray had mapped the area for the Army. Includes geologic notes and notes on conversations.

Published as: U.S. Geological Survey. Bulletin 1014. 1955.

COASTAL PLAIN STUDY, CECIL COUNTY, MARYLAND. 1966 – 1987.

NO-09130 Cecil County, MD. 1. September 20 – October 28, 1966. Notes on visit to Delaware Geological Survey offices. Geological and stratigraphic notes and some sketches, notes on samples and fossils, notes on photos taken. Also, notes added

at later dates, and references to other notes by date and notebook number. Locales include: Galena boat yard, Fredericktown, Georgetown post office, Skipjack Cove marina, Duffy Creek marina, Duffy Creek, Cecilton area, Little Bohemia Creek headwaters, Bohemia Mills area, Sassafras River, Grays Hill, Chesapeake and Delaware Canal, Herring Creek, Scotchman Creek, Battery Point, Buttonwood Beach, Hall Creek, Grove Neck. Locality numbers with quadrangle name: C1-C17 (Cecilton); EL1-EL13 (Elkton); EV1-EV13 (Earleville); G1-G5 (Galena); M1-M2 (Millington); NW1-NW2 (Newark West); S1-S12 (Spesutie); SG-3 (St. George); and an unnumbered locale in Betterton quadrangle. The following Explanation appears on the first page of the notebook: "Notes in the 8 regular notebooks are keyed to the quadrangle maps by the abbreviations shown on the pocket holding the maps. Localities are numbered consecutively as studied, and are shown on the maps (you may [have] to hunt a while to find some of them). A key in the upper right margin of a map leads to the book and the date. Power-auger holes are recorded in two separate notebooks. Their numbers have the prefix X. Keys to these numbers are in one of the margins of the maps. Red-pencil locality numbers are from Maryland [Geological] Survey Bulletin 23 (some may be from Bulletin 21)." However, the power-auger holes are apparently identified with a "D" prefix. Also, many localities in the field notes are not identified in terms of a specific geographic locale, such as those stated in the notebook descriptions below. For the user of these materials, it may be better in some cases to check the quadrangle field map that contains the geographic location of interest, identify the locality number(s) of interest, and then go to the appropriate notebook for the field notes.

- NO-09131 Cecil County, MD. 2. October 31, 1966 – June 14, 1967. Second page: "Notes by J.P. Owens of toll-gate site on Kennedy Hy. (U.S. I-95), made during construction before landscaping." Geologic and stratigraphic notes, notes on samples and fossils, notes on photos taken. Also, notes added at later dates and references to other notes by date and notebook number. Locales include: Pond Neck Road, Pond Neck, Grove Neck, Sassafras River, Knight Island, Interstate Highway 95 (Kennedy Highway) entering near Havre de Grace, Blythedale area, Belvedere area, Foys Hill, route of Baltimore and Ohio Railroad, north of Principio Furnace, Mechanic Valley area. Locality numbers with quadrangle name: BV1-BV14 (Bay View); EL14 (Elkton); EV14-EV18 (Earleville); G6-G7 (Galena); HG1-HG16 (Havre de Grace); M3-M7 (Millington); NE1-NE15a (North East); RS1-RS6 (Rising Sun); S13 (Spesutie).
- NO-09132 Cecil County, MD. 3. June 15, 1967 – March 29, 1968. Geologic and stratigraphic notes, fossil and sample notes, notes on photos taken. Also, notes added at later dates, and references to other notes by date and notebook number. Notes on drive-pipe core samples taken for Corps of Engineers from Chesapeake and Delaware Canal just east of Delaware state line. Other locales include: Poplar Point, Baker Cove, Duck Point, Elk Neck, Cabin John Creek, Fredericktown area, Knight Island, Back Creek, McGill Creek, Cassidy's Wharf, Ordinary Point, Kentmore Bluff, Bohemia Mills area, Sandy Creek, Earleville area, Veazey Cove,

Little Bohemia Creek, Great Bohemia Creek, Hacks Point, Bohemia River, Herring Creek, Town Point Neck, Grove Point, Mt. Harmon Plantation, Losten well log, Thiokol Plant, Bloomingdale Plantation, Chester City and bridge area, Mechanic Valley area, Hyland Point, Thackery Point, Long Creek, Dogwood Creek, Colonial Acres, Baltimore and Ohio Railroad just east of Barksdale Crossing, West Branch area, Henderson Point, Mauldin Mountain, Georgetown post office, St. Georges Bridge area, Summit Bridge, Hawley Road. Also, list of suggested drill hole sites. Locality numbers with quadrangle name: BV15 (Bay View); C18-C34 (Cecilton); EL14b-EL29 (Elkton); EV18a-EV52 (Earleville); G3, G7-G12 (Galena); HG16-HG25 (Havre de Grace); M8 (Millington); NE15b-NE22 (North East); NW3a-NW6 (Newark West); RS7-RS8 (Rising Sun); S4, S11, S14-S15 (Spesutie); SG1-SG2 (St. George); SP3 (?).

- NO-09133 Cecil County, MD. 4. April 2 – July 30, 1968. Geologic and stratigraphic notes, notes on fossils and samples, notes on photos taken. Also, notes added at later dates, and references to other notes by date and notebook number. Also, notes from New Jersey field trip of May 2-3, and of field conference with Maryland Geological Survey personnel in Sassafras River area, June 4-5. Locales include: North East (town) area, Belvedere area, Hog Hill, various Pennsylvania Railroad cuts and locations, Firestone Polyvinyl Plant, Stump Point, Carpenter Point, Charlestown area, Broad Creek area, Black Hill area, Rhodes Mountain area, Plum Creek, Elk Neck, Walnut Lake Golf Course, Maryland Sand and Gravel Company, Mauldin Mountain, Bohemia River, Veazey Cove, Long Point Marina, Free School Point, Plum Point. Locality numbers and quadrangle name: BV16-BV17 (Bay View); C15, C19, C20, C35 (Cecilton); EL30-#L35 (Elkton); EV12, EV18a, EV30-EV32, EV34, EV52-EV63, EV65-EV70 (Earleville); HG26-HG44 (Havre de Grace); NE9, NE12, NE18, NE23-NE27, NE29-NE57, NE59, NE60 (North East); RS9 (Rising Sun); S16 (Spesutie).
- NO-09134 Cecil County, MD. 5. July 31 – November 27, 1968. Geologic and stratigraphic notes, traverse notes, notes on samples and fossils, notes on photos taken. Also, notes added at later dates, and references to other notes by date and notebook numbers. Magnetometer traverse notes; cross-section of southern Cecil County. Also, notes of trip through New Jersey with Minard (USGS) and Pickett of Delaware Geological Survey, October 22-24, 1968. Locales include: Elk Neck, Chesapeake and Delaware Canal area, Grays Hill, Aberdeen (Harford County), fish hatchery east of Elkton, Back Creek valley, Back Creek, Sassafras River, Singerly area, Woodlawn area, areas along Kennedy Highway (Interstate Highway 95), Cecilton area, Chester City area. Locality numbers with quadrangle names: BV10 (Bay View); C36-C48 (Cecilton); EL36-EL53 (Elkton); EV62, EV71-EV72 (Earleville); HG33, HG46-HG49 (Havre de Grace); NW7-NW15 (Newark West); RS10-RS11 (Rising Sun); S17-S18 (Spesutie).
- NO-09135 Cecil County, MD. 6. January 15, 1969 – March 12, 1970. Geologic and stratigraphic notes, notes on samples and fossils, notes on photos taken. Also, notes added at later dates, and references to other notes by date and notebook

number. Also, Kennedy Highway (Interstate Highway 95) traverse notes from March 9, 1970; water well stratigraphic data from Shore Well Drillers, Cecilton; notes from trip with Minard and others along Severn River area to see some of Minard's localities, May 5, 1969; notes from visit at Arundel Corporation at Baltimore on May 20, 1969. Locales include: Big Elk Creek, Kennedy Highway (Interstate Highway 95), Jackson Station area, Childs area, Cherry Hill area, Singerly, Baltimore and Ohio Railroad cuts, Elk Mills area, Leeds area, Laurel Run, Bay View area, Pleasant Hill area, Theodore area, Barksdale to Appleton, Long Creek, Chester City area, Elk Neck area, Cecilton, North East (town) area, Chesapeake and Delaware Canal, Crystal Beach area, Mauldin Mountain, Bohemia River, Veazey Cove, Parlor Point, Galena Boat Yard, Middle Neck area, Money Creek, Elkton. Locality numbers with name of quadrangle: BV7, BV18-BV37 (Bay View); C49-C54 (Cecilton); EL54-EL73 (Elkton); EV30, EV73-EV82 (Earleville); HG50-HG54, HG56-HG60 (Havre de Grace); M1 (Millington); NE63-NE68 (North East); NW16-NW35 (Newark West); RS12 (Rising Sun); SG2 (St. George).

NO-09136 Cecil County, MD. 7. March 16, 1970 – April 11, 1972. Geologic and stratigraphic notes, notes on samples and fossils, notes on photos taken. Also, notes added at later dates and references to other notes by date and notebook number. Notes on meeting at Cecil County Environmental Health Services office about Cecil County sewage and water supply; notes of meeting with Robert Virtue, superintendent of public utilities at Perryville; notes of telephone conversation with Bryan McCoy of Arundel Corporation, Baltimore on December 9, 1970. Locales include: Perryville, Furnace Bay, Linton Run, Mill Creek, Theodore area, Kennedy Highway (Interstate Highway 95), Principio Furnace area, Elk Neck, Rhodes Mountain, Childs area, White Point, Red Point, Mason & Dixon's Belvedere plant, Woodlawn area, College Green, Mason and Dixon Sand and Gravel Division of York Building Products, Inc. Perryville plant, Englund Bluff, Maryland Sand Gravel and Stone Company, Earlton area, Webster, Mason and Dixon at North East, ruins of Whittaker Iron Company works, Principio Creek, North East (town) area, Plum Point area, Bainbridge Naval Training Center, Hance Point, Roach Point, White Bluff, Bull Mountain, Tysons Corners gravel pit. Locality numbers with quadrangle name: A1-A4 (Aberdeen); BV38-BV42 (Bay View); C55 (Cecilton); EL73a-EL-78 (Elkton); EV52, EV83-EV85 (Earleville); HG2, HG31, HG37-HG39, GH50, HG61-HG78 (Havre de Grace); NE16, NE47, NE61, NE71-NE79 (North East); NW36-NW47 (Newark West); RS6, RS13-RS18 (Rising Sun); S1, S19 (Spesutie).

NO-09137 Cecil County, MD. 8. April 11 and May 11, 1972. Geologic and stratigraphic notes. Also, notes added at later dates, and references to other notes by date and notebook number. Locales include Veazey Cove, Bohemia Mills. Locality numbers with quadrangle name: C8 (Cecilton); EL79 (Elkton); EV31, EV32, EV52a, EV77 (Earleville).

- NO-09138 Drilling. Cecil County. 1. June 10, 1968 – September 11, 1969. Stratigraphic notes and notes on fossils and samples, related to various drill holes and cuttings. Drill hole numbers and quadrangle name: BV D1-D3 (Bay View); C D1-D23 (Cecilton); EL D1-D25b (Elkton); EV D1-D20 (Earleville); G D1-D1a (Galena); H D1 (Hanesville); M D1 (Millington); RS D1-D3 (Rising Sun); S D1-D3 (Spesutie). Also, lists of “Suggested power auger hole sites” and “Suggested hole sites.”
- NO-09139 Drilling. Cecil County. 2. September 12 – December 4, 1969. Stratigraphic notes and notes on samples, related to various drill holes and cuttings. Drill hole numbers and quadrangle name: C D24-D25 (Cecilton); EL D25-D27 (Elkton); EV D23-D26 (Earleville); HG D1 (Havre de Grace); NE D1-D4 (North East). Also, on last page of notebook is list of “Suggested power hole sites.”
- NO-09140 Expandable envelope with: folder #1 – mostly photocopies received from Jon Edwards of the Maryland Geological Survey, related to M.W. Higgins’ report on Cecil County crystalline rocks [published as first part of Maryland Geological Survey Bulletin 37]; folder #2 – 4 black and white photos of sediment-filled pits or pots on Cape Cod, from R.N. Oldale, USGS, Office of Marine Geology; photo cliff exposure at Ryder Beach Road in Willfleet quadrangle, Massachusetts, Dec. 1964; 3 black and white photos of sediment-filled pits or pots from R.F. Black, University of Connecticut; analytical data, correspondence, and journal articles related to these sediment-filled pits/pots; folder #3 – reports on referred fossils; folder #4 – correspondence and related material concerning Conant’s work on the Atlantic Coastal Plain of Cecil County, Maryland and its publication, 1971-1977, 1983, 1987; folder #5 – “Quad. Notes. NE-EL [North East-Elkton] . Map, logs of observation wells and related material from a report to B.F. Goodrich Chemical Company, Cecil County, Maryland, from John Isbister of Geraghty & Miller, Inc., Consulting Ground-Water Geologists of Port Washington, New York, 1971; well record from Thompson Estates, Elkton, Maryland including well log and lithologic log, 1962; folder #6 – “Quad. Notes – So. Tier.” Geophysical logs and other well logs for wells at Earleville Fish Hatchery and at Elk Neck State Park, with penciled notes by Conant, 1967, 1968, 1971; folder #7 – “Quad. Notes – No. tier.” Two handwritten pages with “Features of special geologic interest” in Bay View and Newark West quadrangles; 2 sheets with explanation of 2 map units plus list of localities RS2-RS9, RS14 – all in Rising Sun quadrangle; typed “Information on selected wells” in Bay View and Newark West quadrangles; typed “Table 5 – Pits and quarries” – gives name, location, products, dates of operation, remarks – this table is dated 9/8/71; folder #8 – 2 black and white aerial photographs, GS-UI 1:4 and 4 (1952), a stereopair showing depressions believed to have resulted from removal of underlying material by downward movement of surface water – annotations on photos. Photos published as figure 74 in Maryland Geological Survey Bulletin 37, The Geology of Cecil County Maryland, by Michael W. Higgins and Louis C. Conant, 1990.

- MA-02009 In his section on the Atlantic Coastal Plain in Cecil County, Maryland in Maryland Geological Survey Bulletin 37 (1990), Conant mentions the assistance of James P. Owens, USGS, with the project. Each of the 7 maps in this folder is labeled “Copy of Jim Owens’ notes” and has information added in black ink. One copy of each of these 7.5’ quadrangles: Cecilton, Earleville, Galena, Havre de Grace, Millington, North East, and Spesutie.
- MA-02010 Map folder with: photocopy of key to map abbreviations used by Conant; hand-drawn tracing of portion of the Havre de Grace sheet with annotations, and unsigned note written at the bottom: “Mike [Michael W. Higgins, the coauthor of Maryland Geological Survey Bulletin 37?]: Tracing of portion of Havre de Grace sheet. The large granitic boulders probably merit a visit by you”; topographic map index sheet for Maryland and Delaware (both on one sheet) with information on whether photos are available for the quadrangles involved in this project; Conowingo Dam. MD-PA 7.5’ quadrangle map with pencil line showing location of new power line; annotated field maps of these 7.5’ quadrangles: Aberdeen, Bay View, Betterton, Cecilton, Earleview, Elkton, Galena, Havre de Grace, Hanesville, Millington, Newark West, North East, Rising Sun, and Spesutie – all in Maryland, plus Middletown and Saint Georges quadrangles, both in Delaware.
- MA-02011 Map folder with: draft copy, including Explanation, of Geologic Map of Cecil County, Maryland dated 1972.

Published as: U.S. Geological Survey. Professional Paper 974. 1976.

Published as: U.S. Geological Survey. Miscellaneous Geologic Investigations Map I-937. 1975.

Published as: U.S. Geological Survey. Journal of Research, v. 4 no. 3. 1976.

Published as: Maryland Geological Survey. Bulletin 37. 1990.