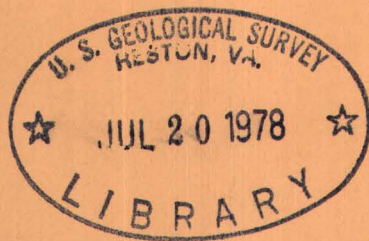


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U. S. Geological Survey Trace Elements and Related Reports through 1954

By Harriet B. Smith and Virginia K. Blatcher



Trace Elements Investigations Report 500

UNITED STATES DEPARTMENT OF THE INTERIOR
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Geology and Mineralogy

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

U. S. GEOLOGICAL SURVEY TRACE ELEMENTS AND RELATED REPORTS
THROUGH 1954*

by

Harriet B. Smith and Virginia K. Blatcher

January 1955

Trace Elements Investigations Report 500

This preliminary report is distributed without editorial and technical review for conformity with official standards and nomenclature. It is not for public inspection or quotation.

*This report concerns work done on behalf of the Divisions of Raw Materials and Research of the U. S. Atomic Energy Commission.

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U. S. GEOLOGICAL SURVEY TRACE ELEMENTS AND RELATED REPORTS
THROUGH 1954

By Harriet B. Smith and Virginia K. Blatcher

INTRODUCTION

This report supersedes TEI-400, "U. S. Geological Survey Trace Elements and related reports through 1953."

Part I is a numerical list of U. S. Geological Survey Trace Elements Investigations and Memorandum reports 1/. This part lists not only reports (followed by a date) that have been transmitted to the U. S. Atomic Energy Commission, but also reports in preparation (followed by an asterisk) for which tentative titles were available on December 31, 1954. If a report, or portion of a report, has been published, the fact is indicated by the abbreviation of the medium of publication. (See also Part II.)

Part II is a reference guide to Trace Elements and related reports that are available to the public (this part supersedes Part I of Bulletin 1019-B). These reports are grouped according to the type of publication or release. If a report, or portion of the report, has been published in more than one form, appropriate cross-references are given to indicate the other forms of publication. Abstracts published in Nuclear Science Abstracts are not included in Part II; however, if the abstract of a Trace Elements report has been published in NSA, that fact is indicated in Part I. Publications in process on December 31, 1954, are designated by an asterisk.

1/ Reports prepared by the Geologic Division of the Geological Survey on behalf of the Division of Raw Materials and the Division of Research of the U. S. Atomic Energy Commission.

Part III is a finding list of states, areas, and subjects and supersedes Part II of Bulletin 1019-B. It is based on information derived mostly from the titles of reports and, where titles are of a general nature, from a cursory review of the reports. This list is not a complete index of the information given in Trace Elements and related reports, but is designed to find subjects of major interest. Because of the numerous entries for Colorado and Utah, information has been listed by counties and, where possible, by subject under these states. Other states have county listings only if a county is included in the title of a report; otherwise, areas may be listed separately under the state. Major subjects are listed separately in the index and also, where appropriate, under states. Analytical methods and subjects related to analytical research are listed under Analytical Methods and Research, but not separately throughout the index. Most mineralogic studies are included under the heading Mineralogy, but are not necessarily listed according to location.

Part IV is an author index. The words "with" and "and" are used to indicate seniority of authorship. For example, a listing of Smith and Brown indicates that Smith is the senior author. A listing of Smith with Brown indicates that Brown is the senior author.

In both parts III and IV all Trace Elements reports are listed, as well as other related reports that have not been issued as Trace Elements reports.

The following abbreviations have been used: TEI, Trace Elements Investigations report; TEM, Trace Elements Memorandum report; OF, open file; TIS, Technical Information Service release; C, Circular; B, Bulletin; P, Professional Paper; MC, Maps and Charts; J, Journal; and NSA, Nuclear Science Abstracts.

U. S. GEOLOGICAL SURVEY TRACE ELEMENTS
AND RELATED REPORTS THROUGH 1954

by

Harriet B. Smith and Virginia K. Blatcher

PART I. NUMERICAL LIST OF TRACE ELEMENTS REPORTS

(* Indicates report is in preparation. Title subject to change)

Abbreviations used: OF, Open File; TIS, Technical Information Service; C, Circular; B, Bulletin; P, Professional Paper; MC, Maps and Charts; NSA, Nuclear Science Abstracts.

1. Trace Elements Investigations Reports

1. Slaughter, A. L. and Clabaugh, S. E., Eastern black shale reconnaissance, a preliminary report: (Confidential). August 1944.
2. Foster, M. D., Grimaldi, F. S., and Stevens, R. E., Preliminary report on methods of analysis for very small percentages of uranium: (Unclassified). November 1944.
3. Slaughter, A. L. and Clabaugh, S. E., Radioactivity of some North Carolina pegmatites, preliminary report: (Unclassified). August 1944.
4. Harder, J. O. and Wyant, D. G., Preliminary report on a trace elements reconnaissance in western states: (Official use only). October 1944.
5. Butler, A. P., Jr., and Chesterman, C. W., Investigation of trace elements in the Phosphoria formation in southwestern Montana, preliminary report: (Confidential). January 1945.
6. Harder, J. O. and Reed, J. C., Preliminary report on radioactivity of some Alaskan placer samples: (Unclassified). February 1945.
7. Fleischer, Michael and Harder, J. O., The occurrence of germanium: (Unclassified). February 1945.
8. Brill, K. G., Jr., Nelson, J. M., and Prouty, C. E., Preliminary report, trace elements investigations, Hickman and adjacent Counties, Tennessee: (Secret). February 1945.

9. Slaughter, A. L. and Clabaugh, S. E., Preliminary report on trace elements reconnaissance in central and southwestern states: (Official use only). March 1945.
10. Fleischer, Michael and Harder, J. O., Trace elements investigations: The occurrence of indium: (Unclassified). April 1945.
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12. Butler, A. P., Jr., and Chesterman, C. W., Trace elements reconnaissance in Alabama, Georgia, and North Carolina, preliminary report: (Secret). May 1945.
13. Stead, F. W., Preliminary report on field measurements of radioactivity: (Unclassified). May 1945.
14. Fleischer, Michael and Harder, J. O., Trace elements investigations: The occurrence of columbium and tantalum: (Unclassified). 1945.
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16. Fahey, J. J. and Foster, M. D., Preliminary report on a method for the determinations of small quantities of thorium: (Unclassified). 1945.
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18. Slaughter, A. L., Radioactivity of Pennsylvanian black shales and coals in Kansas and Oklahoma, preliminary report: (Official use only). September 1945.
19. Brill, K. G., Jr., and Wolfe, J. R., Jr., Preliminary report, placer deposits of central Idaho: (Official use only). October 1945.
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21. Harder, J. O. and Stead, F. W., Reconnaissance for radioactive ore deposits in the United States, summary of progress: (Secret). December 1945.
22. Nelson, J. M. and Brill, K. G., Jr., Radioactivity of the Chattanooga shale east of the Mississippi River and south of the Ohio River, an interim report: (Secret; Fig. 1, Unclassified). August 1947.
23. Grimaldi, F. S., Elimination of interference by nickel in the determination of uranium by means of zinc amalgam reductors: (Unclassified). March 1946. (TIS; B-1006)

24. Chesterman, C. W. and Main, F. H., Reconnaissance investigations for trace elements in Utah, Colorado, Nevada, California, and Oregon, preliminary report: (Official use only). June 1947.
25. Gault, H. R., Black, R. F., and Lyons, J. B., Preliminary report on trace elements investigations in the Sweepstakes Creek area, Koyuk district, Seward Peninsula, Alaska: (Unclassified). May 1946. (C-250).
26. Robinson, G. D., Wedow, Helmuth, Jr., and Lyons, J. B., Trace elements investigations in the Cache Creek-Upper Peters area, Yentna district, Alaska: (Unclassified). March 1946. (B-1024-A*).
27. Killeen, P. L. and Ordway, R. J., Trace elements investigations at Ear Mountain, Seward Peninsula, Alaska: (Unclassified). May 1946. (B-1024-*).
28. Schlecht, W. G., Control chart method applied to errors in radioactive counting: (Unclassified). June 1946. (TIS).
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- 1G. Schlecht, W. G., Control chart method applied to radioactive counting: (Confidential). 1946.
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- 1K. Fleischer, Michael and Cameron, E. N., Geochemistry of beryllium: (Unclassified). 1946.
32. Brill, K. G., Jr., and Carroll, G. V., Preliminary report, placer deposits of monazite in North Carolina: (Unclassified). September 1946.
33. Rove, O. N., Trace elements reconnaissance: (Secret). December 1946.
34. Nelson, J. M. and Stratton, E. V., Trace elements reconnaissance in Indiana, Illinois, Missouri, Arkansas, and Kentucky, preliminary report: (Unclassified). May 1949.
35. Butler, A. P., Jr., Killeen, P. L., Page, G. B., and Rubey, W. W., Proposed program for and present status of the Geological Survey's investigation of domestic resources of radioactive raw materials: (Secret). January 1947.
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37. Fleischer, Michael and Rabbitt, J. C., The geochemistry of gallium: (Official use only). January 1947.
38. Wedow, Helmut, Jr., and Matzko, J. J., Trace elements reconnaissance along highways in the Tanana and Upper Copper River Valleys, Alaska: (Unclassified). March 1947. (C-331).
39. Moxham, R. M. and West, W. S., Trace elements investigations in the Serpentine-Kougarkok area, Seward Peninsula, Alaska: (Unclassified). November 1949. (C-265).
40. White, M. G., Trace elements investigations in placer mining areas near Teller, Alaska: (Official use only). 1947. (C-244).
41. Gault, H. R., Trace elements reconnaissance in the Candle Creek area, Fairhaven district, Seward Peninsula, Alaska: (Official use only). December 1949. (C-250).

42. Killeen, P. L. and White, M. G., Trace elements investigations in the
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1949. (C-331).
42. Killeen, P. L. and White, M. G., Trace elements reconnaissance on the
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(Unclassified). May 1950. (C-250).
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53. West, W. S., Reconnaissance for radioactive deposits in the Darby Mountains district, Seward Peninsula, Alaska: (Unclassified). March 1953. (C-300; NSA).
54. Moxham, R. M., Reconnaissance for radioactive deposits in the Manley Hot Springs-Rampart district, central Alaska: (Unclassified). May 1952. (C-317).
55. White, M. G., Reconnaissance for radioactive deposits along the upper Porcupine River, northeastern Alaska: (Unclassified). June 1951. (C-185).
56. Wedow, Helmut, Jr., Reconnaissance for radioactive deposits in the Eagle-Nation area, east-central Alaska, 1948: (Unclassified). August 1953. (C-316; NSA).
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59. King, R. U., Reconnaissance investigations for uranium in the Colorado Front Range, 1947-1951.*
60. Grimaldi, F. S. and Levine, Harry, The fluorimetric determination of aluminum in phosphate rock with 8-hydroxyquinoline: (Unclassified). August 1950. (B-992).
61. Wyant, D. G. and Beroni, E. P., Reconnaissance for trace elements in North Dakota and eastern Montana: (Pt. 1, Unclassified; Pt. 2, Confidential). February 1950. Issued in one part (Confidential). November 1949.
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71. Hinrichs, E. N., The pegmatites of the Errington-Thiel mine, Elko County, Nevada: (Unclassified). February 1950. (OF).
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77. McKelvey, V. E., Relation of uranium and phosphate in the Phosphoria formation: (Confidential). January 1950.
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79. Cathcart, J. B., Uranium-bearing sedimentary rocks in the land-pebble phosphate deposits of Florida: (Confidential). January 1950.
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93. Brown, Andrew, Experimental adit in the Chattanooga shale: (Confidential) March 1949.
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98. Grimaldi, F. S., Ward, F. N., and Kreher, Ruth, A direct quantitative fluorimetric method for the determination of small amounts of uranium in the field and laboratory: (Unclassified). June 1949. (TIS; B-1006).
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101. Rabbitt, J. C., The first annual report of the Trace Elements Section for the fiscal year 1949: (Unclassified). January 1950.
102. Altschuler, Z. S. and Boudreau, C. E., A mineralogical and chemical study of the leached zone of the Bone Valley formation of Florida, a progress report: (Unclassified). December 1949.
103. Frondel, J. W. and Fleischer, Michael, A glossary of uranium- and thorium-bearing minerals: (Unclassified). January 1950. (C-194; B-1009-*).
104. Fletcher, M. H., May, Irving, and Slavin, Morris, A transmission fluorimeter for use in the fluorimetric method of analysis for uranium: (Unclassified). August 1949. (OF; B-1006).

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2. The [redacted] and the [redacted] have been identified as being involved in the [redacted] activities.

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3013. Griffith, R. F. and Overstreet, W. C., Buffalo Creek monazite placer, Cleveland and Lincoln Counties, North Carolina: (Official use only). (TIS).
3014. Griffith, R. F. and Overstreet, W. C., Sandy Run monazite placer, Rutherford County, North Carolina: (Official use only). January 1953. (TIS).
3015. Hansen, L. A. and White, A. M., Monazite placers on South Muddy Creek, McDowell County, and Silver Creek, Burke County, North Carolina: (Official use only). March 1954. (TIS).
3016. Hansen, L. A. and Cuppels, N. P., Monazite placer on the First Broad River and its tributaries, Cleveland County, North Carolina: (Official use only). August 1954.
3017. Hansen, L. A. and Cuppels, N. P., Monazite placer at the junction of the North Tyger River with the Middle Tyger River, Spartanburg County, South Carolina: (Official use only). December 1954.
3018. Hansen, L. A. and Caldwell, D. W., Monazite placers on Rabon Creek, Laurens County, and Big Generostee Creek, Anderson County, South Carolina: *
3019. Hansen, L. A. and Theobald, P. K., Jr., Monazite placers of the Broad River and Thicketty Creek, Cherokee County, South Carolina: *

The following information was obtained from a review of the records of the [redacted] and is being furnished to you for your information. It is requested that you keep this information confidential and not discuss it with anyone outside of your organization.

The records indicate that [redacted] was involved in a series of activities that were conducted in the [redacted] area. These activities were carried out between the years of [redacted] and [redacted]. The activities were of a [redacted] nature and were intended to [redacted].

The information contained in this report is based on the records of the [redacted] and is not intended to be used for any other purpose. It is requested that you keep this information confidential and not discuss it with anyone outside of your organization.

PART II. TRACE ELEMENTS AND RELATED REPORTS

AVAILABLE TO THE PUBLIC

Many U. S. Geological Survey Trace Elements / and related reports have been made available to the public, either by open-file release, reproduction and distribution by Technical Information Service (referred to as TIS), U. S. Atomic Energy Commission, or publication by the Geological Survey or in a scientific journal.

The following list has been compiled as a reference guide to Geological Survey Trace Elements reports on radioactive raw materials that have been made available to the public, through December 31, 1954. These reports are listed according to the type of publication or release. Some reports have been released in more than one form, for which cross-references are indicated in parentheses where appropriate. The abbreviations for the form of publication have been explained under Introduction.

1. Reports released in open file

(* Indicates report is in preparation)

These reports may be consulted at the U. S. Geological Survey Library, Room 1033, GSA Building, Washington 25, D. C., and at various depositories, whose addresses are indicated after the date of open file, either by symbol, or complete address. Symbols are used for the following depositories:

/ Reports prepared by the Geologic Division of the Geological Survey on behalf of the Division of Raw Materials and the Division of Research of the U. S. Atomic Energy Commission. (TEI - Trace Elements Investigations Report; TEM - Trace Elements Memorandum Report; reports with no TE designation are not numbered into the Trace Elements Reports Series.)

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- B - Office of the Director, Montana Bureau of Mines and Geology, Butte, Montana
- BA - Atomic Energy Commission, Butte Suboffice, Butte, Montana
- D - Geological Survey Public Inquiries Office, Room 468, New Customhouse, Denver, Colorado
- DA - Atomic Energy Commission, Denver Exploration Branch, Denver Federal Center, Denver, Colorado
- GJ - Geological Survey, Grand Junction, Colorado
- GJA - Atomic Energy Commission, Grand Junction Operations Office, Grand Junction, Colorado
- H - Atomic Energy Commission, Hot Springs Suboffice, Hot Springs, South Dakota
- IM - Idaho Bureau of Mines and Geology, Moscow, Idaho
- LA - Geological Survey Public Inquiries Office, Room 807, Post Office and Courthouse, Los Angeles, California
- R - Atomic Energy Commission, Richfield Suboffice, Richfield, Utah
- SF - Geological Survey Public Inquiries Office, Room 724, Appraisers Building, San Francisco, California
- SL - Geological Survey Public Inquiries Office, Room 504, Federal Building, Salt Lake City, Utah
- SLA - Atomic Energy Commission, Salt Lake Exploration Branch, Salt Lake City, Utah
- T - Arizona Bureau of Mines, University of Arizona, Tucson, Arizona
- U - University of Utah, Salt Lake City, Utah
- W - Geological Survey, S. 157 Howard Street, Spokane, Washington

a. Trace Elements Investigations Reports

TEI

- 47. Grimaldi, F. S. and Levine, Harry, The rapid fluorimetric determination of uranium in low-grade ores, a preliminary report: Oct. 12, 1950. (TIS; B-1006, Pt. 6)
- 71. Hinrichs, E. N., The pegmatites of the Errington-Thiel mine, Elko County, Nevada: Dec. 28, 1949: Office of Director, Nevada Bureau of Mines, Reno, Nev.; Cornell University Library, Ithaca, N. Y.
- 104. Fletcher, M. H., May, Irving, and Slavin, Morris, A transmission fluorimeter for use in the fluorimetric method of analysis for uranium: Oct. 12, 1950. (B-1006, Pt. 11)
- 109. Fischer, R. P., The Uravan mineral belt: July 7, 1951: GJ; SL. (B-988-A)
- 118. Silverman, S. R., Fuyat, R. K., and Weiser, J. D., The quantitative determination of calcite associated with carbonate-bearing apatites: Oct. 19, 1951: D; SL; T. (TIS; J-146).
- 120. Fletcher, M. H. and May, Irving, An improved fluorimeter for the determination of uranium in fluoride melts: Oct. 12, 1950. (TIS; B-1006, Pt. 10)

- TEI
125. Sims, P. K., Tooker, E. W., and Osterwald, F. W., Radioactive deposits in Eureka Gulch area, Central City district, Gilpin County, Colorado (3 geologic maps only): Feb. 15, 1954: D.
127. Stieff, L. R. and Stern, T. W., The preparation of nuclear-track plates and stripping films for the study of radioactive minerals: Feb. 26, 1951. (J-163).
129. Stern, T. W., A catalog of study material of radioactive minerals: Oct. 19, 1951: D; SL; T. (TIS)
133. Fletcher, M. H., May, Irving, and Anderson, J. W., The design of the Model V transmission fluorimeter: Oct. 19, 1951: D; SL; T. (TIS; B-1006, Pt. 12)
138. Staatz, M. H. and Trites, A. F., Jr., Geology of Quartz Creek pegmatite district, Gunnison County, Colorado: July 15, 1952: D; SL; Columbia University Library, New York, N. Y. (P-265*)
139. Thurston, W. R., Pegmatites of the Crystal Mountain district, Larimer County, Colorado: July 15, 1952: D; SL; Columbia University Library, New York, N. Y. (B-1011*)
144. Phair, George and Onoda, Kiyoko, Hydrothermal uranothorite in fluorite breccias from the Blue Jay mine, Jamestown, Boulder County, Colorado: Oct. 19, 1951: D; SL; T. (TIS; J-133).
- 148A. Rabbitt, J. C., Summary of the research work of the Trace Elements Section, Geochemistry and Petrology Branch, for the period April 1, 1948 -- December 31, 1950: Oct. 19, 1951: D; SL; T. (TIS)
151. Rabbitt, J. C., Summary of the research work of the Trace Elements Section, Geochemistry and Petrology Branch, for the period January 1 -- March 31, 1951: Oct. 19, 1951: D; SL; T. (TIS)
152. Cuttitta, Frank, A photometric method for the estimation of the oil yield of oil shale: Oct. 19, 1951: D; SL; T. (TIS; B-992)
168. Kaiser, E. P., King, R. U., Wilmarth, V. R., Stugard, Frederick, Jr., Wyant, D. G., Gott, G. B., and others, Selected papers on uranium deposits in the United States: June 10, 1952: D; SL. (C-220; J-71, 86, 87, 169, 188, 190).
176. Wilmarth, V. R. and Vickers, R. C., The Robinson and Weatherly uraniferous pyrobitumen deposits near Placerville, San Miguel County, Utah: Sept. 16, 1953: D; GJ.
183. McKelvey, V. E., Davidson, D. F., O'Malley, F. W., Smith, L. E., Armstrong, F. C., and Sheldon, R. P., Stratigraphic sections of the Phosphoria formation in Idaho, 1947-48, Part I: Aug. 15, 1951: B; IM; SL; U; W; Geol. Survey, Montpelier, Idaho; Wyoming Geol. Survey Laramie, Wyo. (C-208)

- TEI
184. McKelvey, V. E., Smith, L. E., Hoppin, R. A., and Armstrong, F. C., Stratigraphic sections of the Phosphoria formation in Wyoming, 1947-48: Aug. 15, 1951: B; IM; SL; U; W; Geol. Survey, Montpelier, Idaho; Wyoming Geol. Survey, Laramie, Wyo. (C-210)
185. McKelvey, V. E., Smith, L. E., Kinney, D. M., Huddle, J. W., Hosford, G. F., Sears, R. S., Sprouse, D. P., and Stewart, M. D., Stratigraphic sections of the Phosphoria formation in Utah, 1947-48: Aug. 15, 1951: B; IM; SL; U; W; Geol. Survey, Montpelier, Idaho; Wyoming Geol. Survey, Laramie, Wyo. (C-211)
186. Swanson, R. W., Klepper, M. R., Lowell, W. R., Honkala, F. S., Cressman, E. R., Bostwick, D. A., Payne, O. A., and Ruppel, E. T., Stratigraphic sections of the Phosphoria formation in Montana, 1947-48: Aug. 15, 1951: B; IM; SL; U; W; Geol. Survey, Montpelier, Idaho; Wyoming Geol. Survey, Laramie, Wyo. (C-209, -260)
187. McKelvey, V. E., Hoppin, R. A., Armstrong, F. C., Gulbrandsen, R. A., Smith, L. E., and Campbell, R. M., Stratigraphic sections of the Phosphoria formation in Idaho, 1947-48, Part II: Oct. 4, 1951: B; IM; SL; U; W; Geol. Survey, Montpelier, Idaho; Wyoming Geol. Survey, Laramie, Wyo. (C-301)
188. O'Malley, F. W., Davidson, D. F., Hoppin R. A., and Sheldon, R. P., Stratigraphic sections of the Phosphoria formation in Idaho, 1947-48, Part III: Apr. 25, 1952: B; IM; SL; W; Wyoming Geol. Survey, Laramie, Wyo. (C-262)
221. West, W. S. and White, M. G., The occurrence of zeunerite at Brooks Mountain, Seward Peninsula, Alaska: Aug. 25, 1952: SF; U. S. Geol. Survey Offices in Juneau, Anchorage, Fairbanks, and College, Alaska; Territorial Dept. of Mines Offices in Juneau, College, and Nome, Alaska. (C-214)
233. Stugard, Frederick, Jr., Geologic map of parts of Glastonbury and Middle Haddam quadrangle, Conn. (Map only): Nov. 25, 1953: Director's Office, Connecticut Geol. and Natural History Survey, Trinity College, Hartford, Conn.; Geol. Survey, Beltsville, Md.
237. Conant, L. C., Origin of the Chattanooga shale: Oct. 7, 1952: Alabama Geol. Survey, University, Ala.; Kentucky Geol. Survey, Lexington, Ky.; Division of Geol., State Office Bldg., Nashville, Tenn. (J-31).
246. Swanson, R. W., McKelvey, V. E., and Sheldon, R. P., Progress report on investigations of western phosphate deposits: June 21, 1953: D; IM; SL; W; Geol. Survey, Montpelier, Idaho. (C-297)
254. Stugard, Frederick, Jr., Physical exploration for uranium during 1951 in the Silver Reef district, Washington County, Utah: Jan. 11, 1954: D; SL.

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258. Cressman, E. R., Geology of the Dry Valley quadrangle, Idaho: Aug. 25, 1952: IM; SL; W. (B-1015-I*)
259. Meyers, W. B., Geology and mineral deposits of the northwest quarter Willis quadrangle and adjacent Brown's Lake area, Beaverhead County, Montana: July 28, 1952: B; IM; W.
260. Gulbrandsen, R. A., McLaughlin, K. P., Honkala, F. S., Clabaugh, S. E., and Krauskopf, K. B., Geologic map and structure sections of the Johnson Creek quadrangle, Caribou County, Idaho: Aug. 25, 1952: IM; SL; W.
261. Gillerman, Elliot and Whitebread, D. H., The uranium-bearing nickel-cobalt-native silver deposits in the Black Hawk district, Grant County, New Mexico (Fig. 3 only -- "Geologic map of the Black Hawk mining district, Grant County, New Mexico): July 14, 1954: D; LA; SF; SL; T; Bur. of Mines, Mineral Resources, Socorro, N. Mex. (B-1009-*)
263. McKelvey, V. E., Swanson, R. W., and Sheldon, R. P., The Permian phosphorite deposits of western United States: Mar. 30, 1953: D; SL; W. (J-107).
265. Cathcart, J. B., Blade, L. V., Davidson, D. F., and Ketner, K. B., The geology of the Florida land-pebble phosphate deposits: Mar. 30, 1953: D; SL; Geol. Survey, Plant City, Fla. (J-26).
271. McKelvey, V. E., Cathcart, J. B., Altschuler, Z. S., Swanson, R. W., and Lutz, Katherine, Domestic phosphate deposits: Mar. 30, 1953: D; SL; W; Geol. Survey, Plant City, Fla. (J-104).
279. Shoemaker, E. M. and Luedke, R. G., Map of the uranium region of the Colorado Plateau: Mar. 30, 1953: D; GJ; SL; T; Bur. of Mines, Mineral Resources, Socorro, N. Mex.
282. Becraft, G. E., Meschter, D. Y., and Gross, E. B., Geologic map of the Comet area, Jefferson City quadrangle, Jefferson County, Montana: Oct. 8, 1952: B; SL; W. (C-277)
287. Finch, W. I., Geology of the Shinarump No. 1 uranium mine, Seven Mile Canyon area, Grand County, Utah: Jan. 11, 1954: GJ; SL. (C-336)
304. Sims, P. K., Drake, A. A., and Moench, R. H., Preliminary geologic and vein maps of part of the Central City district, Gilpin and Clear Creek Counties, Colorado: Jan. 11, 1954: D.
312. Lowell, W. R., Geologic map and structure sections of the southwest quarter Willis quadrangle, Beaverhead County, Montana: Mar. 30, 1953: B; IM; W; Dept. of Geology, Indiana University, Bloomington, Ind.

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323. Honkala, F. A., Preliminary report on geology of the phosphate deposits in the Centennial Range, Montana-Idaho: June 22, 1953: B; IM; SL; U; W; Wyoming Geol. Survey, Laramie, Wyo. (J-80).
345. Troyer, M. L., McKay, E. J., Soister, P. E., and Wallace, S. R., Summary of investigations of uranium deposits in the Pumpkin Buttes area, Johnson and Campbell Counties, Wyoming (Fig. 1 only -- "Geologic map of the east-central part of the Pumpkin Buttes area, Campbell County, Wyoming"): Aug. 20, 1954: D; LA; SF; SL; Geol. Survey Offices at Geology Hall, Univ. of Wyo., Laramie, Wyo.; 1214 Big Horn Ave., Worland, Wyo.; and 315 Federal Bldg., Billings, Mont.; Bur. of Mines, Rapid City, S. Dak.; DA; HA; AEC Caspers Suboffice, Casper, Wyo. (C-338)
353. Olson, J. C. and Wallace, S. R., Thorium in the Powderhorn district, Gunnison County, Colorado (Fig. 3 only -- "Geologic map of the Little Johnnie thorium deposit, Gunnison County, Colorado," by S. R. Wallace, J. C. Olson, and J. E. Roadifer): July 19, 1954: D; GJ; SL.
356. Tschanz, C. M., Fuller, G. W., and Laub, D. C., The copper and uranium deposits of the Coyote district, Mora County, New Mexico (Paper entitled "Copper and uranium mineralization in the Coyote mining district, Mora County, New Mexico," by D. C. Laub): July 28, 1954.
387. Moxham, R. M., Airborne radioactivity surveys for phosphate in Florida: Apr. 2, 1954: D; GJ; SL; Geol. Survey Offices at Menlo Park, Calif.; Custer, S. Dak.; Casper and Worland, Wyo.; Plant City, Fla.; Bldg. 211, Camp Roosevelt, Ocala, Fla.; Dinner Key, S. Bayshore Drive, Miami, Fla.; New Dining Hall Bldg., Fla. State Univ., Tallahassee, Fla.; Bur. of Mines, Rapid City, S. Dak.; BA; DA; GJA; H; R; SLA; AEC Buying Stations at Shiprock, N. Mex., and Monticello, Utah; AEC Suboffices at Casper, Wyo.; Albuquerque, N. Mex.; Phoenix, N. Mex.; Ishpeming, Mich. (C-230)

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b. Trace Elements Memorandum Reports

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31. Klepper, M. R., Forty-Niner, King Solomon Ridge, and West End claims near Clancy, Jefferson County, Montana: Oct. 19, 1951: D; SL; T. (TIS)
96. Staff, Wamsutter (Red Desert) area, Wyoming, progress report: Oct. 19, 1951: D; SL; T. (TIS)
97. Staff, Colorado Front Range area, progress report: Oct. 19, 1951: D; SL; T. (TIS)
104. Thurston, W. R., Exploration of the Buckhorn mica mine, Larimer County, Colorado: July 12, 1950: D; State Mine Inspector, 220 State Bldg., Denver, Colo. (B-1011)*
105. Thurston, W. R., Exploration of the Hyatt pegmatite, Larimer County, Colorado: Mar. 8, 1951: D; Office of State Commissioner of Mines, State Museum Bldg., Denver, Colo. (B-1011)*
106. Thurston, W. R., Exploration of the Big Boulder prospect, Larimer County, Colorado: Mar. 8, 1951: D; Office of State Commissioner of Mines, State Museum Bldg., Denver, Colo. (B-1011)*
149. Jaffe, E. B. and Sherwood, A. M., Physical and chemical comparison of modern and fossil tooth and bone material: Oct. 19, 1951: D; SL; T. (TIS)
183. Page, L. R., Interim report of geologic investigation, Lost Creek schroeckingerite deposits, Sweetwater County, Wyoming: Oct. 19, 1951: D; SL; T. (TIS)
205. Fischer, R. P., MacKallor, Jules, and Brown, C. N., Base maps of a part of the Thompsons district, Grand County, Utah: May 26, 1952: D; GJ; SL; U; Library, Denver Federal Center, Denver, Colo.
212. Wyant, D. G. and Stugard, Frederick, Jr., Indian Creek uranium prospects, Beaver County, Utah: Nov. 30, 1951: D; SL.
214. Stugard, Frederick, Jr., Uranium resources in the Silver Reef (Harrisburg) district, Washington County, Utah: Oct. 8, 1951: D; SL; U.
229. Roberts, W. A. and Gude, A. J., 3rd., Uranium-bearing deposits west of Clancy, Jefferson County, Montana: Mar. 14, 1952: B; W; Helena Public Library, Helena, Montana. (B-988-F)

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235. Wedow, Helmuth, Jr., White, M. G., and Moxham, R. M., Interim report on an appraisal of the uranium possibilities of Alaska: July 16, 1952: Geol. Survey Offices in Juneau, Anchorage, Palmer, Fairbanks, and College, Alaska; Territorial Dept. of Mines Offices in Juneau, Ketchikan, Anchorage, College, and Nome, Alaska; Bureau of Mines, Anchorage, Alaska.
251. Weeks, A. D., Red and gray clay underlying ore-bearing sandstone of the Morrison formation in western Colorado: Oct. 19, 1951: D; SL; T. (TIS).
252. Fletcher, M. H. and Warner, E. R., A fluorimeter for solutions: Oct. 19, 1951: D; SL; T. (TIS; C-311).
292. Gude, A. J., 3rd., and McKeown, F. A., Results of exploration at the Old Leyden coal mine, Jefferson County, Colorado: Mar. 30, 1953: D, GJ.
301. Luedke, R. G. and Shoemaker, E. M., Tectonic map of the Colorado Plateau: July 23, 1953: D; GJ; SL; T; Bur. of Mines, Mineral Resources, N. Mex. School of Mines, Socorro, N. Mex.; Office of the Area Director, Bureau of Indian Affairs, Window Rock, Ariz.
355. West, W. S., Reconnaissance for a uranothorianite-bearing lode in the vicinity of the headwaters of the Peace River, Candle quadrangle, Seward Peninsula, Alaska: Oct. 27, 1952: SF; Geol. Survey Offices in Juneau, Anchorage, Fairbanks, and College, Alaska; Territorial Dept. of Mines Offices in Juneau, College, Ketchikan, and Nome, Alaska. (C-250).
364. Hackman, R. J., Photogeologic map, Aneth-2 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
365. Hackman, R. J., Photogeologic map, Aneth-3 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
366. Hackman, R. J., Photogeologic map, Aneth-4 quadrangle, San Juan County, Utah, Aug. 25, 1952: D; GJ; SL.
367. Hackman, R. J., Photogeologic map, Aneth-7 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
368. Hackman, R. J., Photogeologic map, Aneth-8 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
369. Hackman, R. J., Photogeologic map, Bluff-1 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL. (MC-50)*
370. Hackman, R. J., Photogeologic map, Bluff-8 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL. (MC-54)*
371. Ray, R. G., Photogeologic map, Bluff-13 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.

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372. Tolbert, G. E., Photogeologic map, Carlisle-1 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
373. Tolbert, G. E., Photogeologic map, Carlisle-8 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
374. Tolbert, G. E., Photogeologic map, Carlisle-9 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
375. Tolbert, G. E., Photogeologic map, Carlisle-16 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
376. Hackman, R. J., Photogeologic map, Elk Ridge-13 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
377. Hackman, R. J., Photogeologic map, Elk Ridge-16 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL. (MC-85)*
378. Tolbert, G. E., Photogeologic map, Mt. Peale-5 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
379. Tolbert, G. E., Photogeologic map, Mt. Peale-6 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
- 379A. Tolbert, G. E. and Hackman, R. J., Photogeologic map, Mt. Peale-6 quadrangle, San Juan County, Utah: July 23, 1953: D; GJ; SL.
380. Tolbert, G. E., Photogeologic map, Mt. Peale-11 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
- 380A. Hackman, R. J. and Tolbert, G. E., Photogeologic map, Mt. Peale-11 quadrangle, San Juan County, Utah: Feb. 5, 1953: D; GJ; SL.
381. Tolbert, G. E., Photogeologic map, Mt. Peale-12 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
382. Tolbert, G. E., Photogeologic map, Mt. Peale-14 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
383. Ray, R. G., Photogeologic map, Stinking Spring Creek-11 quadrangle, Emery County, Utah: Aug. 25, 1952: D; GJ; SL.
384. Fischer, W. A., Photogeologic map, Stinking Spring Creek-12 quadrangle, Emery County, Utah: Aug. 25, 1952: D; GJ; SL.
385. Hackman, R. J., Photogeologic map, Verdure-9 quadrangle, Colorado-Utah: Aug. 25, 1952: D; GJ; SL.
386. Hackman, R. J., Photogeologic map, Verdure-10 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.

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387. Hackman, R. J., Photogeologic map, Verdure-11 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
388. Hackman, R. J., Photogeologic map, Verdure-12 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
389. Hackman, R. J., Photogeologic map, Verdure-13 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
390. Hackman, R. J., Photogeologic map, Verdure-14 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
391. Hackman, R. J., Photogeologic map, Verdure-15 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
392. Hackman, R. J., Photogeologic map, Verdure-16 quadrangle, Colorado-Utah: Aug. 25, 1952: D; GJ; SL.
393. Hackman, R. J., Photogeologic map, Aneth-5 quadrangle, San Juan County, Utah: Oct. 8, 1952: D; SJ; SL.
394. Bates, C. E., Photogeologic map, Stinking Spring Creek-14 quadrangle, Emery County, Utah: Oct. 8, 1952: D; GJ; SL.
395. Hackman, R. J., Photogeologic map, Verdure-7 quadrangle, San Juan County, Utah: Oct. 27, 1952: D; GJ; SL.
396. Hackman, R. J., Photogeologic map, Elk Ridge-12 quadrangle, San Juan County, Utah: Oct. 8, 1952: D; GJ; SL.
397. Bates, C. E., Photogeologic map, Stinking Spring Creek-13 quadrangle, Emery County, Utah: Oct. 8, 1952: D; GJ; SL.
398. Tolbert, G. E., Photogeologic map, Mt. Peale-13 quadrangle, San Juan County, Utah: Oct. 8, 1952: D; GJ; SL.
399. Hackman, R. J., Photogeologic map, Verdure-1 quadrangle, Colorado-Utah: Oct. 27, 1952: D; GJ; SL.
400. Hackman, R. J., Photogeologic map, Aneth-6 quadrangle, San Juan County, Oct. 8, 1952: D; GJ; SL.
401. Ray, R. G., Photogeologic map, Bluff-14 quadrangle, Navajo Indian Reservation, San Juan County, Utah: Oct. 27, 1952: D; GJ; SL.
402. Ray, R. G., Photogeologic map, Setsiltso Springs-3 quadrangle, Navajo Indian Reservation, Apache County, Arizona: Oct. 27, 1952: D; GJ; SL; T.

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403. Hackman, R. J., Photogeologic map, Verdure-8 quadrangle, Colorado-Utah: Oct. 27, 1952: D; GJ; SL.
404. Ray, R. G., Photogeologic map, Setsiltso Springs-4 quadrangle, Navajo Indian Reservation, Apache County, Arizona: Nov. 24, 1952: D; GJ; T.
405. Hackman, R. J., Photogeologic map, Verdure-6 quadrangle, San Juan County, Utah: Oct. 27, 1952: D; GJ; SL.
406. Hackman, R. J., Photogeologic map, Verdure-2 quadrangle, San Juan County, Utah: Oct. 27, 1952: D; GJ; SL.
407. Hackman, R. J., Photogeologic map, Elk Ridge-8 quadrangle, San Juan County, Utah: Oct. 27, 1952: D; GJ; SL.
408. Hackman, R. J., Photogeologic map, Verdure-5 quadrangle, San Juan County, Utah: Oct. 8, 1952: D; GJ; SL.
409. Fischer, W. A., Photogeologic map, Clay Hills-13 quadrangle, Navajo Indian Reservation, San Juan County, Utah: Oct. 8, 1952: D; GJ; SL.
410. Hackman, R. J., Photogeologic map, Elk Ridge-1 quadrangle, San Juan County, Utah: Oct. 27, 1952: D; GJ; SL.
411. Eckstein, W. H., Photogeologic map, Agathla Peak-2 quadrangle, Navajo Indian Reservation, Navajo County, Arizona: Jan. 9, 1953: D; GJ; T.
412. Hackman, R. J., Photogeologic map, Agathla Peak-4 quadrangle, Navajo Indian Reservation, Navajo County, Arizona: Oct. 8, 1952: D; GJ; T.
413. Fischer, W. A., Photogeologic map, Clay Hills-12 quadrangle, Piute Indian Reservation, San Juan County, Utah: Oct. 27, 1952: D; GJ; SL.
414. Eckstein, W. H., Photogeologic map, Clay Hills-15 quadrangle, Navajo Indian Reservation, San Juan County, Utah: Oct. 27, 1952: D; GJ; SL.
433. Hackman, R. J., Photogeologic map, Verdure-3 quadrangle, San Juan County, Utah: Oct. 8, 1952: D; GJ; SL.
438. Hackman, R. J., Photogeologic map, Verdure-4 quadrangle, San Juan County, Utah: Oct. 27, 1952: D; GJ; SL.
439. Ray, R. G., Photogeologic map, Setsiltso Springs-5 quadrangle, Navajo Indian Reservation, Apache County, Arizona: Oct. 27, 1952: D; GJ; T.

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440. Ray, R. G., Photogeologic map, Agathla Peak-8 quadrangle, Navajo Indian Reservation, Navajo County, Arizona: Nov. 24, 1952: D; GJ; T.
441. Ray, R. G., Photogeologic map, Agathla Peak-1 quadrangle, Navajo Indian Reservation, Navajo County, Arizona: Jan. 9, 1953: D; GJ; T.
442. Fischer, W. A., Photogeologic map, Clay Hills-14 quadrangle, Navajo Indian Reservation, San Juan County, Utah: Jan. 9, 1953: D; SL.
447. Hackman, R. J., Photogeologic map, Mt. Peale-15 quadrangle, San Juan County, Utah: Feb. 5, 1953: D; GJ; SL.
448. Hackman, R. J., Photogeologic map, Mt. Peale-16 quadrangle, Utah-Colorado: Jan. 9, 1953: D; SL.
449. Bates, C. E. and Eckstein, W. H., Photogeologic map, Clay Hills-16 quadrangle, Navajo Indian Reservation, San Juan County, Utah: Jan. 9, 1953: D; SL.
450. Hackman, R. J., Photogeologic map, Mt. Peale-9 quadrangle, Utah-Colorado: Jan. 9, 1953: D; SL.
451. Hackman, R. J., Photogeologic map, Mt. Peale-10 quadrangle, San Juan County, Utah: May 11, 1953: D; GJ; SL.
452. Hackman, R. J., Photogeologic map, Aneth-1 quadrangle, Utah-Colorado: Aug. 25, 1952: D; GJ; SL.
453. Hackman, R. J., Photogeologic map, Elk Ridge-9 quadrangle, San Juan County, Utah: Aug. 25, 1952: D; GJ; SL.
465. Hackman, R. J., Photogeologic map, Mt. Peale-8 quadrangle, Utah-Colorado: Jan. 9, 1953: D; SL.
466. Hackman, R. J., Photogeologic map, Mt. Peale-7 quadrangle, San Juan County, Utah: Feb. 5, 1953: D; GJ; SL.
467. Hackman, R. J., Photogeologic map, Mt. Peale-1 quadrangle, Grand and San Juan Counties, Utah, Montrose County, Colorado: Feb. 5, 1953: D; GJ; SL.
468. Ray, R. G., Photogeologic map, Agathla Peak-7 quadrangle, Navajo Indian Reservation, Navajo County, Arizona: Feb. 5, 1953: D; GJ; SL; T.
469. Fischer, W. A. and Condon, W. H., Photogeologic map, Navajo Mountain-9 quadrangle, Navajo Indian Reservation, San Juan County, Utah: Feb. 5, 1953: D; GJ; SL.

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470. Fischer, W. A. and Condon, W. H., Photogeologic map, Navajo Mountain-16 quadrangle, San Juan County, Utah: Feb. 5, 1953: D; GJ; SL.
499. Fischer, W. A. and Condon, W. H., Photogeologic map, Shanto Spring-1 quadrangle, Navajo Indian Reservation, Navajo County, Arizona: Feb. 5, 1953: D; GJ; SL; T.
500. Ray, R. G., Photogeologic map, Orange Cliffs-13 quadrangle, Garfield County, Utah: Feb. 5, 1953: D; GJ; SL.
501. Ray, R. G., Photogeologic map, Orange Cliffs-14 quadrangle, Garfield County, Utah: Feb. 5, 1953: D; GJ; SL.
508. Stead, F. W., Balsley, J. R., Moxham, R. M., and Reinhardt, P. W., Airborne radioactivity survey of the Pumpkin Buttes area, Campbell and Johnson Counties, Wyoming: June 10, 1953: D; GJ; SF; SL; Geol. Survey Offices at Casper, Wyo., and Custer, S. Dak.; Univ. of Wyoming, Laramie, Wyo.; Bur. of Mines, Rapid City, S. Dak.; BA; DA; GJA; H; R; SLA.
523. Ray, R. G., Photogeologic map, Orange Cliffs-11 quadrangle, Wayne and Garfield Counties, Utah: May 11, 1953: D; GJ; SL.
524. Ray, R. G., Photogeologic map, Orange Cliffs-12 quadrangle, Wayne and Garfield Counties, Utah: July 23, 1953: D; GJ; SL.
525. Hosley, V. M., Photogeologic map, Orange Cliffs-5 quadrangle, Wayne County, Utah: July 23, 1953: D; GJ; SL.
526. Hackman, R. J., Photogeologic map, Navajo Mountain-13 quadrangle, Navajo Indian Reservation, San Juan and Kane Counties, Utah: May 11, 1953: D; GJ; SL.
527. Hackman, R. J., Photogeologic map, Mt. Peale-4 quadrangle, Grand and San Juan Counties, Utah: July 23, 1953: D; GJ; SL.
528. Orkild, P. P., Photogeologic map, Stinking Spring Creek-5 quadrangle, Emery County, Utah: May 11, 1953: D; GJ; SL.
529. Scott, J. M., Photogeologic map, Circle Cliffs-9 quadrangle, Garfield County, Utah: June 22, 1953: D; GJ; SL; (MC-66)*
530. Hemphill, W. R., Photogeologic map, Stinking Spring Creek-6 quadrangle, Emery County, Utah: June 22, 1953: D; GJ; SL.
531. Hackman, R. J., Photogeologic map, Circle Cliffs-10 quadrangle, Garfield County, Utah: May 11, 1953: D; GJ; SL. (MC-67)*
532. Orkild, P. P., Photogeologic map, Stinking Spring Creek-4 quadrangle, Emery County, Utah: May 11, 1953: D; GJ; SL.

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536. Witkind, I. J., Thaden, R. E., and Lough, C. F., Preliminary report on geologic studies in the Monument Valley area, Arizona (3 maps only--Agathla Peak, Garnet Ridge, and Boot Mesa): May 11, 1953: D; GJ; SL; T.
541. Eckstein, W. H., Photogeologic map, Agathla Peak-6 quadrangle, Navajo Indian Reservation, Navajo County, Arizona: June 22, 1953: D; GJ; SL; T.
542. Orkild, P. P., Photogeologic map, Stinking Spring Creek-3 quadrangle, Emery County, Utah: June 22, 1953: D; GJ; SL.
543. Hemphill, W. R., Photogeologic map, Stinking Spring Creek-10 quadrangle, Emery County, Utah: July 14, 1954: D; GJ; SL.
544. Hosley, V. M., Photogeologic map, Carlisle-5 quadrangle, Wayne and San Juan Counties, Utah: July 23, 1953: D; GJ; SL.
545. Orkild, P. P., Photogeologic map, Stinking Spring Creek-15 quadrangle, Emery County, Utah: July 23, 1953: D; GJ; SL.
546. Condon, W. H., Photogeologic map, Emery-16 quadrangle, Emery County, Utah: July 23, 1953: D; GJ; SL.
547. Hosley, V. M., Photogeologic map, Carlisle-4 quadrangle, Wayne and San Juan Counties, Utah: July 23, 1953: D; GJ; SL.
548. Hackman, R. J., Photogeologic map, Circle Cliffs-2 quadrangle, Garfield County, Utah: Dec. 21, 1953: D; GJ; SL. (MC-59)*
549. Scott, J. M., Photogeologic map, Circle Cliffs-3 quadrangle, Garfield County, Utah: July 23, 1953: D; GJ; SL. (MC-60)*
550. Hemphill, W. R., Photogeologic map, Stinking Spring Creek-7 quadrangle, Emery County, Utah: June 22, 1953: D; GJ; SL.
584. Hosley, V. M., Photogeologic map, Moab-14 quadrangle, Grand County, Utah: July 23, 1953: D; GJ; SL.
585. Hackman, R. J., Photogeologic map, Circle Cliffs-6 quadrangle, Garfield County, Utah: July 23, 1953: D; GJ; SL. (MC-63)*
586. Scott, J. M., Photogeologic map, Circle Cliffs-1 quadrangle, Garfield County, Utah: Aug. 17, 1953: D; GJ; SL. (MC-58)*
587. Bates, C. E., Photogeologic map, Carlisle-6 quadrangle, San Juan County, Utah: Oct. 19, 1953: D; GJ; SL.
588. Condon, W. H., Photogeologic map, Emery-9 quadrangle, Emery County, Utah: Oct. 19, 1953: D; GJ; SL.

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589. Hemphill, W. R., Photogeologic map, Stinking Spring Creek-2 quadrangle, Emery County, Utah: July 23, 1953: D; GJ; SL.
590. Hackman, R. J., Photogeologic map, Circle Cliffs-7 quadrangle, Garfield County, Utah: Aug. 17, 1953: D; GJ; SL. (MC-64)*
591. Orkild, P. P., Photogeologic map, Emery-1 quadrangle, Emery County, Utah: Aug. 17, 1953: D; GJ; SL.
592. Bates, C. E., Photogeologic map, Carlisle-3 quadrangle, San Juan County, Utah: July 23, 1953: D; GJ; SL.
593. Condon, W. H., Photogeologic map, Emery-8 quadrangle, Emery County, Utah: Aug. 17, 1953: D; GJ; SL.
594. Orkild, P. P., Photogeologic map, Orange Cliffs-3 quadrangle, Wayne County, Utah: July 23, 1953: D; GJ; SL.
595. Scott, J. M., Photogeologic map, Circle Cliffs-8 quadrangle, Garfield County, Utah: July 23, 1953: D; GJ; SL. (MC-65)*
596. Hackman, R. J., Photogeologic map, Mt. Pennell-5 quadrangle, Garfield County, Utah: Aug. 17, 1953: D; GJ; SL. (MC-93)*
597. Scott, J. M., Photogeologic map, Mt. Pennell-12 quadrangle, Garfield County, Utah: July 23, 1953: D; GJ; SL. (MC-95)*
598. Hosley, V. M., Photogeologic map, Moab-15 quadrangle, Grand County, Utah: Aug. 17, 1953: D; GJ; SL.
599. Hemphill, W. R., Photogeologic map, Orange Cliffs-6 quadrangle, Wayne County, Utah: Feb. 15, 1954: D; GJ; SL.
600. Orkild, P. P., Photogeologic map, Orange Cliffs-2 quadrangle, Wayne County, Utah: Aug. 17, 1953: D; GJ; SL.
602. Mackin, J. H. and Schmidt, D. L., Reconnaissance geology of placer deposits containing radioactive minerals in the Bear Valley district, Valley County, Idaho (Part I): June 22, 1953: IM; SL; W. (J-109).
605. Henderson, J. R. and Moxham, R. M., Airborne radioactivity survey of the Devil's Tower area, Crook County, Wyoming: June 1, 1953: D; GJ; SF; Geol. Survey Offices at Custer, S. Dak.; Casper and Sheridan, Wyo.; Science Hall, University of Wyoming, Laramie, Wyo.; BA; DA; GJA; H; R; SLA.
606. Meuschke, J. L. and Moxham, R. M., Airborne radioactivity survey of the Miller Hill area, Carbon County, Wyoming: Mar. 28, 1953: D; GJ; SF; SL; Geol. Survey Offices at Custer, S. Dak.; Casper and Sheridan, Wyo.; University of Wyoming, Laramie, Wyo.; BA; DA; GJA; H; R; SLA.

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607. Johnson, R. W. and Moxham, R. M., Airborne radioactivity survey of portions of the Defiance Uplift and Carrizo Mountains, Apache County, Arizona: Aug. 25, 1953: D; GJ; LA; SF; SL; T; Geol. Survey Offices at Room 5, Spencer Bldg., Flagstaff, Ariz.; Holbrook, Ariz.; Hadley Hall, University of New Mexico, Albuquerque, N. Mex.; Bur. of Mines, Rapid City, S. Dak.; BA; DA; GJA; H; R; SLA.
609. Meuschke, J. L. and Moxham, R. M., Airborne radioactivity survey of the Aspen Mountain area, Sweetwater County, Wyoming: Aug. 10, 1953: D; GJ; SF; SL; Geol. Survey Offices at Custer, S. Dak.; Sheridan and Casper, Wyo.; University of Wyoming, Laramie, Wyo.; Bureau of Mines, Rapid City, S. Dak.; BA; DA; GJA; H; R; SLA.
610. Meuschke, J. L. and Moxham, R. M., Airborne radioactivity survey of the Tabernacle Buttes area, Sublette and Fremont Counties, Wyoming: Aug. 10, 1953: D; GJ; SF; SL; Geol. Survey Offices at Custer, S. Dak.; Sheridan and Casper, Wyo.; University of Wyoming, Laramie, Wyo.; Bur. of Mines, Rapid City, S. Dak.; BA; DA; GJA; H; R; SLA.
611. Meuschke, J. L. and Moxham, R. M., Airborne radioactivity survey of the West Lone Tree area, Uinta County, Wyoming: Aug. 10, 1953: D; GJ; SF; SL; Geol. Survey Offices at Custer, S. Dak.; Sheridan and Casper, Wyo.; University of Wyoming, Laramie, Wyo.; Bur. of Mines, Rapid City, S. Dak.; BA; DA; GJA; H; R; SLA.
612. Hemphill, W. R., Photogeologic map, Orange Cliffs-7 quadrangle, Wayne County, Utah: Sept. 16, 1953: D; GJ; SL.
613. Hackman, R. J., Photogeologic map, Mt. Pennell-14 quadrangle, Garfield and Kane Counties, Utah: Oct. 19, 1953: D; GJ; SL. (MC-97)*
614. Hackman, R. J., Photogeologic map, Circle Cliffs-16 quadrangle, Garfield and Kane Counties, Utah: Sept. 16, 1953: D; GJ; SL. (MC-73)*
615. Scott, J. M., Photogeologic map, Mt. Pennell-13 quadrangle, Garfield and Kane Counties, Utah: Sept. 16, 1953: D; GJ; SL. (MC-96)*
616. Bates, C. E., Photogeologic map, Moab-10 quadrangle, Grand County, Utah: Sept. 16, 1953: D; GJ; SL.
617. Orkild, P. P., Photogeologic map, Tidwell-16 quadrangle, Emery and Grand Counties, Utah: Dec. 21, 1953: D; GJ; SL.
618. Condon, W. H., Photogeologic map, Orange Cliffs-10 quadrangle, Wayne and Garfield Counties, Utah: Sept. 16, 1953: D; GJ; SL.
619. Scott, J. M., Photogeologic map, Navajo Mountain-4 quadrangle, Kane County, Utah: Oct. 19, 1953: D; GJ; SL. (MC-100)*
620. Scott, J. M., Photogeologic map, Navajo Mountain-6 quadrangle, San Juan and Kane Counties, Utah: Dec. 21, 1953: D; GJ; SL. (MC-102)*

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621. Hackman, R. J., Photogeologic map, Navajo Mountain-3 quadrangle, Kane and San Juan Counties, Utah: Oct. 19, 1953: D; GJ; SL. (MC-99)*
633. Scott, J. M., Photogeologic map, Mt. Pennell-11 quadrangle, Garfield County, Utah: Oct. 19, 1953: D; GJ; SL. (MC-94)*
634. Scott, J. M., Photogeologic map, Circle Cliffs-4 quadrangle, Garfield County, Utah: Dec. 21, 1953: D; GJ; SL. (MC-61)*
635. Scott, J. M., Photogeologic map, Circle Cliffs-5 quadrangle, Garfield County, Utah: Oct. 19, 1953: D; GJ; SL. (MC-62)*
636. Hackman, R. J., Photogeologic map, Circle Cliffs-11 quadrangle, Garfield County, Utah: Oct. 19, 1953: D; GJ; SL. (MC-68)*
637. Hackman, R. J., Photogeologic map, Circle Cliffs-14 quadrangle, Garfield and Kane Counties, Utah: Oct. 19, 1953: D; GJ; SL. (MC-71)*
638. Hosley, V. M., Photogeologic map, Straight Cliffs-1 quadrangle, Kane County, Utah: Oct. 19, 1953: D; GJ; SL. (MC-107)*
639. Hosley, V. M., Photogeologic map, Moab-12 quadrangle, Grand County, Utah: Oct. 19, 1953: D; GJ; SL.
640. Hackman, R. J. and Tolbert, G. E., Photogeologic map, Notom-15 quadrangle, Garfield County, Utah: Nov. 25, 1953: D; GJ; SL. (MC-105)*
641. Hackman, R. J., Photogeologic map, Circle Cliffs-15 quadrangle, Garfield and Kane Counties, Utah: Oct. 19, 1953: D; GJ; SL. (MC-72)*
642. Orkild, P. P., Photogeologic map, Tidwell-5 quadrangle, Emery County, Utah: Nov. 25, 1953: D; GJ; SL.
644. Moxham, R. M. and Johnson, R. W., Airborne radioactivity survey of parts of the Atlantic Ocean Beach, Virginia to Florida: Sept. 18, 1953: D; GJ; SF; SL; Geol. Survey Offices at Plant City, Fla. and New Dining Hall, Fla. State Univ., Tallahassee, Fla.; Florida Geol. Survey, Tallahassee, Fla.; Georgia Dept. of Mines, Mining and Geology, 425 State Capitol, Atlanta, Ga.; Bur. of Mines, Rapid City, S. Dak.; BA; DA; GJA; H; R; SLA.
650. Hemphill, W. R., Photogeologic map, Stinking Spring Creek-9 quadrangle, Emery County, Utah: Nov. 25, 1953: D; GJ; SL.
651. Kent, B. H., Photogeologic map, Desert Lake-14 quadrangle, Emery County, Utah: Nov. 25, 1953: D; GJ; SL.
652. Bates, C. E., Photogeologic map, Moab-11 quadrangle, Grand County, Utah: Dec. 21, 1953: D; GJ; SL.

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653. Kent, B. H. and Condon, W. H., Photogeologic map, Orange Cliffs-15 quadrangle, Garfield and San Juan Counties, Utah: Apr. 26, 1954: D; GJ; SL.
654. Hemphill, W. R., Photogeologic map, Orange Cliffs-8 quadrangle, Wayne and San Juan Counties, Utah: Nov. 25, 1953: D; GJ; SL.
655. Orkild, P. P., Photogeologic map, Tidwell-4 quadrangle, Emery County, Utah: Dec. 21, 1953: D; GJ; SL.
656. Hosley, V. M., Photogeologic map, Tidwell-15 quadrangle, Emery County, Utah: Nov. 25, 1953: D; GJ; SL.
657. Hemphill, W. R., Photogeologic map, Stinking Spring Creek-8 quadrangle, Emery County, Utah: Dec. 21, 1953: D; GJ; SL.
658. Kent, B. H., Photogeologic map, Desert Lake-11 quadrangle, Emery County, Utah: Nov. 25, 1953: D; GJ; SL.
659. Orkild, P. P., Photogeologic map, Woodside-13 quadrangle, Emery County, Utah: Nov. 25, 1953: D; GJ; SL.
660. Bates, C. E. and Hosley, V. M., Photogeologic map, Tidwell-9 quadrangle, Emery and Grand Counties, Utah: Nov. 25, 1953: D; GJ; SL.
661. Scott, J. M., Photogeologic map, Kaiparowits Peak-8 quadrangle, Garfield County, Utah: Jan. 11, 1954: D; GJ; SL. (MC-89)*
662. Scott, J. M., Photogeologic map, Straight Cliffs-2 quadrangle, Kane County, Utah: Jan. 11, 1954: D; GJ; SL. (MC-108)*
663. Scott, J. M., Photogeologic map, Kaiparowits Peak-9 quadrangle, Garfield County, Utah: Dec. 21, 1953: D; GJ; SL. (MC-90)*
664. Condon, W. H., Photogeologic map, Orange Cliffs-4 quadrangle, Wayne County, Utah: Nov. 25, 1953: D; GJ; SL.
665. Orkild, P. P., Photogeologic map, Orange Cliffs-1 quadrangle, Wayne and San Juan Counties, Utah: Nov. 25, 1953: D; GJ; SL.
666. Hemphill, W. R. and Lewis, C. R., Photogeologic map, Desert Lake-15 quadrangle, Emery County, Utah: July 14, 1954: D; GJ; SL.
667. Scott, J. M., Photogeologic map, Carlisle-2 quadrangle, San Juan County, Utah: Apr. 26, 1954: D; GJ; SL.
668. Hackman, R. J., Photogeologic map, Carlisle-15 quadrangle, San Juan County, Utah: Feb. 15, 1954: D; GJ; SL.
669. Scott, J. M., Photogeologic map, Carlisle-10 quadrangle, San Juan County, Utah: Feb. 15, 1954: D; GJ; SL.

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672. Cathcart, J. B. and Ward, E. L. M., Ownership maps of parts of Hillsborough and Polk Counties, land-pebble phosphate district, Florida: Dec. 21, 1953: Geol. Survey, Plant City, Fla.; Florida Geol. Survey, Tallahassee, Fla.
673. Meuschke, J. L., Moxham, R. M., and Bortner, T. E., Airborne radioactivity survey of parts of the Atlantic Ocean Beach, North and South Carolina: Feb. 26, 1954: D; GJ; SL; Geol. Survey Offices at Plant City, Fla.; New Dining Hall, Fla. State Univ., Tallahassee, Fla.; Office of State Geologist, Room 108 LeConte College, Univ. Campus, Columbia, S. C.; N. C. Dept. of Conservation and Development, Education Bldg., Raleigh, N. C.; N. C. State Museum, 101 Halifax St., Raleigh, N. C.; Fla. Geol. Survey, Tallahassee, Fla.; Dept. of Mines, Mining and Geology, 425 State Capitol, Atlanta, Ga.; Bur. of Mines, Rapid City, S. Dak.; BA; DA; GJA; H; R; SLA.
678. Meuschke, J. L., Moxham, R. M., and Bortner, T. E., Airborne radioactivity survey of the Gulf of Mexico Beach between Sanibel Island and Caladesi Island, Florida: Feb. 26, 1954: D; GJ; SL; Geol. Survey Offices at Plant City, Fla.; New Dining Hall, Fla. State Univ., Tallahassee, Fla.; Fla. Geol. Survey, Tallahassee, Fla.; Bur. of Mines, Rapid City, S. Dak.; BA; DA; GJA; H; R; SLA.
730. Orkild, P. P., Photogeologic map, Woodside-12 quadrangle, Emery County, Utah: Mar. 12, 1954: D; SL.
731. Eckstein, W. H., Photogeologic map, Moab-13 quadrangle, Grand and Emery Counties, Utah: Apr. 26, 1954: D; GJ; SL.
732. Condon, W. H., Photogeologic map, Orange Cliffs-9 quadrangle, Garfield and Wayne Counties, Utah: Apr. 26, 1954: D; GJ; SL.
733. Hosley, V. M., Photogeologic map, Carlisle-7 quadrangle, San Juan County, Utah: Apr. 26, 1954: D; GJ; SL.
734. Bennett, H. S., Photogeologic map, Navajo Mountain-5 quadrangle, Kane and San Juan Counties, Utah: Mar. 12, 1954: D; SL. (MC-101)*
735. Marshall, C. H., Photogeologic map, Desert Lake-16 quadrangle, Emery County, Utah: Apr. 26, 1954: D; GJ; SL.
736. Bennett, H. S., Photogeologic map, Navajo Mountain-12 quadrangle, Kane and San Juan Counties, Utah: Apr. 26, 1954: D; GJ; SL. (MC-104)*
737. Cass, J. T., Photogeologic map, Desert Lake-9 quadrangle, Emery County, Utah: Apr. 26, 1954: D; GJ; SL.
738. Platt, J. N., Photogeologic map, Orange Cliffs-16 quadrangle, Garfield and San Juan Counties, Utah: July 27, 1954: D; GJ; SL. (MC-106)*

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739. Scott, J. M., Photogeologic map, Stinking Creek-1 quadrangle, Emery County, Utah: July 14, 1954: D; GJ; SL.
743. Henderson, J. R., Airborne radioactivity survey of parts of Baggs SW and Baggs SE quadrangles, Carbon and Sweetwater Counties, Wyoming: June 25, 1954: D; GJ; SF; SL; U; Geol. Survey Offices at Menlo Park, Calif.; Custer, S. Dak.; Federal Bldg., Casper, Wyo.; Sheridan and Worland, Wyo.; Bur. of Mines, Rapid City, S. Dak.; BA; DA; GJA; H; R; SLA; AEC Suboffices at Albuquerque, N. Mex.; Casper, Wyo.; Ishpeming, Mich.; Phoenix, Ariz.; AEC Buying Stations at Shiprock, N. Mex.; and Monticello, Utah.
744. Henderson, J. R., Airborne radioactivity survey of parts of Sand Creek SW and Sand Creek SE quadrangles, Sweetwater County, Wyo.: June 25, 1954: D; GJ; SF; SL; U; Geol. Survey Offices at Menlo Park, Calif.; Custer, S. Dak.; Federal Bldg.; Casper, Wyo.; Sheridan and Worland, Wyo.; Bur. of Mines, Rapid City, S. Dak.; BA; DA; GJA; H; R; SLA; AEC Suboffices at Albuquerque, N. Mex.; Casper, Wyo.; Ishpeming, Mich.; Phoenix, Ariz.; AEC Buying Stations at Shiprock, N. Mex.; and Monticello, Utah.
745. Henderson, J. R., Airborne radioactivity surveys of parts of Savery SW and Savery SE quadrangles, Carbon County, Wyoming: June 25, 1954: D; GJ; SF; SL; U; Geol. Survey Offices at Menlo Park, Calif.; Custer, S. Dak.; Federal Bldg.; Casper, Wyo.; Sheridan and Worland, Wyo.; Bur. of Mines, Rapid City, S. Dak.; BA; DA; GJA; H; R; SLA; AEC Suboffices at Albuquerque, N. Mex.; Casper, Wyo.; Ishpeming, Mich.; Phoenix, Ariz.; AEC Buying Stations at Shiprock, N. Mex.; and Monticello, Utah.
746. Henderson, J. R., Airborne radioactivity surveys of part of Saratoga NW quadrangle, Carbon County, Wyoming: June 25, 1954: D; GJ; SF; SL; U; Geol. Survey Offices at Menlo Park, Calif.; Custer, S. Dak.; Federal Bldg.; Casper, Wyo.; Sheridan and Worland, Wyo.; Bur. of Mines, Rapid City, S. Dak.; BA; DA; GJA; H; R; SLA; AEC Suboffices at Albuquerque, N. Mex.; Casper, Wyo.; Ishpeming, Mich.; Phoenix, Ariz.; AEC Buying Stations at Shiprock, N. Mex.; and Monticello, Utah.
747. Henderson, J. R., Airborne radioactivity surveys of parts of Savery NW and Savery NE quadrangles, Carbon County, Wyoming: June 25, 1954: D; GJ; SF; SL; U; Geol. Survey Offices at Menlo Park, Calif.; Custer, S. Dak.; Federal Bldg.; Casper, Wyo.; Sheridan and Worland, Wyo.; Bur. of Mines, Rapid City, S. Dak.; BA; DA; GJA; H; R; SLA; AEC Suboffices at Albuquerque, N. Mex.; Casper, Wyo.; Ishpeming, Mich.; Phoenix, Ariz.; AEC Buying Stations at Shiprock, N. Mex.; and Monticello, Utah.
750. Miller, C. F., Photogeologic map, Tidwell-12 quadrangle, Emery County, Utah: July 27, 1954: D; GJ; SL. (MC-115)*

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751. Hosley, V. M., Photogeologic map, Woodside-4 quadrangle, Emery and Carbon Counties, Utah: July 14, 1954: D; GJ; SL.
752. Hackman, R. J., Photogeologic map, Carlisle-14 quadrangle, San Juan County, Utah: Nov. 30, 1954: D; GJ; SL. (MC-57)*
753. Platt, J. N., Photogeologic map, Carlisle-13 quadrangle, San Juan and Garfield Counties, Utah: July 27, 1954: D; GJ; SL. (MC-56)*
754. Orkild, P. P., Photogeologic map, Woodside-5 quadrangle, Emery County, Utah: Nov. 30, 1954: D; GJ; SL. (MC-118)*
755. Bennett, H. S., Photogeologic map, Tidwell-6 quadrangle, Emery County, Utah: July 27, 1954: D; GJ; SL.
756. Miller, C. F., Photogeologic map, Desert Lake-6 quadrangle, Emery County, Utah: Nov. 30, 1954: D; GJ; SL.
757. Reed, J. C., Jr., Photogeologic map, Straight Cliffs-9 quadrangle, Kane County, Utah: Nov. 30, 1954: D; GJ; SL. (MC-111)*
758. Condon, W. H. and Miller, C. F., Photogeologic map, Desert Lake-7 quadrangle, Emery County, Utah: Nov. 30, 1954: D; GJ; SL.
760. Miller, C. F., Photogeologic map, Desert Lake-2 quadrangle, Emery and Carbon Counties, Utah: July 14, 1954: D; GJ; SL.
761. Orkild, P. P., Photogeologic map, Desert Lake-8 quadrangle, Emery County, Utah: July 14, 1954: D; GJ; SL. (MC-78)*
762. Scott, J. M., Photogeologic map, Desert Lake-1 quadrangle, Emery and Carbon Counties, Utah: Nov. 8, 1954: D; GJ; SL.
763. Platt, J. N., Photogeologic map, Carlisle-11 quadrangle, San Juan County, Utah: Nov. 8, 1954: D; GJ; SL.
764. Miller, C. F., Photogeologic map, Desert Lake-12 quadrangle, Emery County, Utah: Nov. 30, 1954: D; GJ; SL.
765. Kent, B. H., Photogeologic map, Straight Cliffs-7 quadrangle, Kane County, Utah: Nov. 30, 1954: D; GJ; SL. (MC-110)*
767. Condon, W. H., Photogeologic map, Desert Lake-10 quadrangle, Emery County, Utah: Nov. 30, 1954: D; GJ; SL.
768. Scott, J. M., Photogeologic map, Castle Dale-16 quadrangle, Emery County, Utah: Nov. 8, 1954: D; GJ; SL.
782. Becraft, G. E., Gude, A. J., 3rd., Meschter, D. Y., Pinckney, D. M., Roberts, W. A., and Rosenblum, S., Anomalous radioactivity in the Jefferson City quadrangle, Montana (map only): June 17, 1954: B; D; SL; W.

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Some Trace Elements reports, issued by TIS, are for sale by the Office of Technical Services, Department of Commerce, Washington 25, D. C. Prices for such items are listed after the TIS issuance date.

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- * Frondel, J. W. and Fleischer, Michael, A glossary of uranium- and thorium-bearing minerals, third edition. (TEI-103, Circ. 74 and 194)
- * Gill, J. R. and Moore, G. W., Carnotite-bearing sandstone in Cedar Canyon, Slim Buttes, Harding County, South Dakota. (TEI-411)
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6. Maps and charts

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28. Cater, F. W., Jr., Geology of the Anderson Mesa quadrangle, Montrose and San Miguel Counties, Colorado, with a section on "The Mines" by C. F. Withington: MF 25: * (TEM-690) (MC-1)*
29. Cater, F. W., Jr., Geology of the Calamity Mesa quadrangle, Mesa County, Colorado, with a section on "The Mines" by H. K. Stager: MF 32: * (TEM-693) (MC-4) *
30. Cater, F. W., Jr., Geology of the Davis Mesa quadrangle, Montrose County, Colorado, with a section on "The Mines" by Leonid Bryner: MF 31: * (TEM-694) (MC-5)*
31. Cater, F. W., Jr., Geology of the Egnar quadrangle, Dolores and San Miguel Counties, Colorado, with a section on "The Mines" by A. L. Bush and Henry Bell, III: MF 26: * (TEM-695) (MC-6)*
32. Cater, F. W., Jr., Geology of the Gateway quadrangle, Mesa County, Colorado: MF : * (TEM-696) (MC-7)*
33. Cater, F. W., Jr., Geology of the Gypsum Gap quadrangle, San Miguel County, Colorado: MF 19: * (TEM-697) (MC-8)*
34. Cater, F. W., Jr., Geology of the Hamm Canyon quadrangle, San Miguel County, Colorado: MF 21: * (TEM-698) (MC-9)*
35. Cater, F. W., Jr., Geology of the Horse Range Mesa quadrangle, Colorado, with a section on "The Mines" by A. L. Bush, Henry Bell, III, and C. F. Withington: MF 29: * (TEM-699) (MC-10)*
36. Cater, F. W., Jr., Geology of the Joe Davis quadrangle, Dolores and San Miguel Counties, Colorado, with a section on "The Mines" by Henry Bell, III: MF 27: * (TEM-700) (MC-11)*
37. Cater, F. W., Jr., Geology of the Naturita NW quadrangle, Montrose and San Miguel Counties, Colorado, with a section on "The Mines" by J. D. Vogel: MF 30: * (TEM-702) (MC-13)*
38. Cater, F. W., Jr., Geology of the Pine Mountain quadrangle, Mesa County, Colorado: MF 20: 1954.. 25¢ (TEM-704) (MC-15)*
39. Cater, F. W., Jr., Butler, A. P., Jr., and McKay, E. J., Geology of the Uravan quadrangle, Montrose County, Colorado, with a section on "The Mines" by R. L. Boardman: MF 24: * (TEM-707) (MC-18)*
40. Finch, W. I., Preliminary geologic map showing the distribution of uranium deposits and principal ore-bearing formations of the Colorado Plateau: MF 16: *

41. Fischer, R. P., Stokes, W. L., and Smith, L. E., Geology of the Rifle Creek vanadium area, Garfield County, Colorado: U. S. Geol. Survey Strategic Minerals Investigations Preliminary Report (mimeographed-limited distribution). 1944.
42. Fischer, R. P., Vanadium region of southwestern Colorado and southeastern Utah: U. S. Geol. Survey Strategic Minerals Investigations Preliminary Map (with text). 1944. (Second edition issued as Mineral Investigations Preliminary Map 3-226, 1949. 30¢)
43. McKay, E. J., Preliminary geologic map of the Atkinson Creek quadrangle, Colorado: MF 18, 1954. 25¢ (TEM-691) (MC-2)*
44. McKay, E. J., Preliminary geologic map of the Red Canyon quadrangle, Colorado: MF 17, 1954. 25¢ (TEM-705) (MC-16)*
45. Sharp, W. N. and Pray, L. C., Geologic map of bastnaesite deposits of the Birthday claims, San Bernardino County, California: MF 4, 1952. 75¢
46. Shoemaker, E. M., Geology of the Juanita Arch quadrangle, Mesa County, Colorado: MF 28: * (TEM-701) (MC-12)*
47. Shoemaker, E. M., Geology of the Roc Creek quadrangle, Montrose County, Colorado: MF 23: * (TEM-706) (MC-17)*
48. Stokes, W. L., Russell, R. T., Fischer, R. P., and Butler, A. P., Jr., Geologic map of the Gateway area, Mesa County, Colorado, and adjoining part of Grand County, Utah: U. S. Geol. Survey Strategic Minerals Investigations Preliminary Map (with text) 3-173, 1945. 25¢
49. Withington, C. F., Geology of the Paradox quadrangle, Montrose County, Colorado: MF 22: * (TEM-703) (MC-14) *

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d. Miscellaneous geologic investigations maps

- 50. Bluff-1 quadrangle, San Juan County, Utah, photogeologic map, by C. F. Miller: I : * (TEM-369A)
- 51. Bluff-4 quadrangle, San Juan County, Utah, photogeologic map, by J. N. Platt: I : * (TEM-818)
- 52. Bluff-5 quadrangle, San Juan County, Utah, photogeologic map, by P. P. Orkild: I : * (TEM-824)
- 53. Bluff-6 quadrangle, San Juan County, Utah, photogeologic map, by P. P. Orkild: I : * (TEM-814)
- 54. Bluff-8 quadrangle, San Juan County, Utah, photogeologic map, by C. F. Miller: I : * (TEM-370A)
- 55. Bluff-11 quadrangle, San Juan County, Utah, photogeologic map, by C. F. Miller: I : * (TEM-796)
- 56. Carlisle-13 quadrangle, San Juan and Garfield Counties, Utah, photogeologic map, by J. N. Platt: I 2: * (TEM-753) (OF)
- 57. Carlisle-14 quadrangle, San Juan County, Utah, photogeologic map, by R. J. Hackman: I 6: * (TEM-752) (OF)
- 58. Circle Cliffs-1 quadrangle, Garfield County, Utah, photogeologic map, by J. S. Detterman: I 17: * (TEM-586) (OF)
- 59. Circle Cliffs-2 quadrangle, Garfield County, Utah, photogeologic map, by R. J. Hackman: I 18: * (TEM-548) (OF)
- 60. Circle Cliffs-3 quadrangle, Garfield County, Utah, photogeologic map, by J. S. Detterman: I 19: * (TEM-549) (OF)
- 61. Circle Cliffs-4 quadrangle, Garfield County, Utah, photogeologic map, by J. S. Detterman: I 20: * (TEM-634) (OF)
- 62. Circle Cliffs-5 quadrangle, Garfield County, Utah, photogeologic map, by J. S. Detterman: I 21: * (TEM-635) (OF)
- 63. Circle Cliffs-6 quadrangle, Garfield County, Utah, photogeologic map, by R. J. Hackman: I 22: * (TEM-585) (OF)
- 64. Circle Cliffs-7 quadrangle, Garfield County, Utah, photogeologic map, by R. J. Hackman: I 23: * (TEM-590) (OF)
- 65. Circle Cliffs-8 quadrangle, Garfield County, Utah, photogeologic map, by J. S. Detterman: I 24: * (TEM-595) (OF)

66. Circle Cliffs-9 quadrangle, Garfield County, Utah, photogeologic map, by J. S. Detterman: I 25: * (TEM-529) (OF)
67. Circle Cliffs-10 quadrangle, Garfield County, Utah, photogeologic map, by R. J. Hackman: I 26: * (TEM-531) (OF)
68. Circle Cliffs-11 quadrangle, Garfield County, Utah, photogeologic map, by R. J. Hackman: I 27: * (TEM-636) (OF)
69. Circle Cliffs-12 quadrangle, Garfield County, Utah, photogeologic map, by R. J. Hackman: I : * (TEM-821)
70. Circle Cliffs-13 quadrangle, Garfield and Kane Counties, Utah, photogeologic map, by B. H. Kent: I-28: * (TEM-797) (OF)
71. Circle Cliffs-14 quadrangle, Garfield and Kane Counties, Utah, photogeologic map, by R. J. Hackman: I 29: * (TEM-637) (OF)
72. Circle Cliffs-15 quadrangle, Garfield and Kane Counties, Utah, photogeologic map, by R. J. Hackman: I 30: * (TEM-641) (OF)
73. Circle Cliffs-16 quadrangle, Garfield and Kane Counties, Utah, photogeologic map, by R. J. Hackman: I 31: * (TEM-614) (OF)
74. Clay Hills-1 quadrangle, San Juan and Garfield Counties, Utah, photogeologic map, by C. H. Marshall: I : * (TEM-816)
75. Clay Hills-7 quadrangle, San Juan County, Utah, photogeologic map, by C. H. Marshall: I : * (TEM-825)
76. Clay Hills-8 quadrangle, San Juan County, Utah, photogeologic map, by C. H. Marshall: I : * (TEM-820)
77. Clay Hills-11 quadrangle, San Juan County, Utah, photogeologic map, by C. H. Marshall: I : * (TEM-840)
78. Desert Lake-8 quadrangle, Emery County, Utah, photogeologic map, by P. P. Orkild: I 4: * (TEM-761) (OF)
79. Elk Ridge-2 quadrangle, San Juan County, Utah, photogeologic map, by R. J. Hackman: I-7: * (TEM-794) (OF)
80. Elk Ridge-7 quadrangle, San Juan County, Utah, photogeologic map, by R. J. Hackman: I : * (TEM-810)
81. Elk Ridge-10 quadrangle, San Juan County, Utah, photogeologic map, by H. S. Bennett: I : * (TEM-822)
82. Elk Ridge-11 quadrangle, San Juan County, Utah, photogeologic map, by J. C. Reed, Jr.: I : * (TEM-819)

83. Elk Ridge-14 quadrangle, San Juan County, Utah, photogeologic map, by C. F. Miller: I 8: * (TEM-798)
84. Elk Ridge-15 quadrangle, San Juan County, Utah, photogeologic map, by H. S. Bennett: I : * (TEM-812)
85. Elk Ridge-16 quadrangle, San Juan County, Utah, photogeologic map, by C. F. Miller: I : * (TEM-377A)
86. Emery-2 quadrangle, Emery County, Utah, photogeologic map, by J. S. Detterman: I 9: * (TEM-792)
87. Emery-7 quadrangle, Emery County, Utah, photogeologic map, by H. S. Bennett: I 10: * (TEM-791)
88. Emery-10 quadrangle, Emery County, Utah, photogeologic map, by H. S. Bennett: I 11: * (TEM-790)
89. Kaiparowits Peak-8 quadrangle, Garfield County, Utah, photogeologic map, by J. S. Detterman: I 14: * (TEM-661) (OF)
90. Kaiparowits Peak-9 quadrangle, Garfield County, Utah, photogeologic map, by J. S. Detterman: I 15: * (TEM-663) (OF)
91. Moab-5 quadrangle, Grand County, Utah, photogeologic map, by J. S. Detterman: I : * (TEM-823)
92. Moab-6 quadrangle, Grand County, Utah, photogeologic map, by J. S. Detterman: I : * (TEM-826)
93. Mt. Pennell-5 quadrangle, Garfield County, Utah, photogeologic map, by R. J. Hackman: I : * (TEM-596) (OF)
94. Mt. Pennell-11 quadrangle, Garfield County, Utah, photogeologic map, by J. S. Detterman: I : * (TEM-633) (OF)
95. Mt. Pennell-12 quadrangle, Garfield County, Utah, photogeologic map, by J. S. Detterman: I : * (TEM-597) (OF)
96. Mt. Pennell-13 quadrangle, Garfield and Kane Counties, Utah, photogeologic map, by J. S. Detterman: I : * (TEM-615) (OF)
97. Mt. Pennell-14 quadrangle, Garfield and Kane Counties, Utah, photogeologic map, by R. J. Hackman: I : * (TEM-613) (OF)
98. Navajo Mountain-2 quadrangle, Kane and San Juan Counties, Utah, photogeologic map, by H. S. Bennett: I : * (TEM-827)
99. Navajo Mountain-3 quadrangle, Kane and San Juan Counties, Utah, photogeologic map, by R. J. Hackman: I : * (TEM-621) (OF)

100. Navajo Mountain-4 quadrangle, Kane County, Utah, photogeologic map, by J. S. Detterman: I : * (TEM-619) (OF)
101. Navajo Mountain-5 quadrangle, Kane and San Juan Counties, Utah, photogeologic map, by H. S. Bennett: I : * (TEM-734) (OF)
102. Navajo Mountain-6 quadrangle, San Juan and Kane Counties, Utah, photogeologic map, by J. S. Detterman: I : * (TEM-620) (OF)
103. Navajo Mountain-7 quadrangle, San Juan and Kane Counties, Utah, photogeologic map, by H. S. Bennett: I : * (TEM-843)
104. Navajo Mountain-12 quadrangle, Kane and San Juan Counties, Utah, photogeologic map, by H. S. Bennett: I : * (TEM-736) (OF)
105. Notom-15 quadrangle, Garfield County, Utah, photogeologic map, by R. J. Hackman and G. E. Tolbert: I : * (TEM-640) (OF)
106. Orange Cliffs-16 quadrangle, Garfield and San Juan Counties, Utah, photogeologic map, by J. N. Platt: I 16: * (TEM-738) (OF)
107. Straight Cliffs-1 quadrangle, Kane County, Utah, photogeologic map, by V. H. Sable: I : * (TEM-638) (OF)
108. Straight Cliffs-2 quadrangle, Kane County, Utah, photogeologic map, by J. S. Detterman: I : * (TEM-662) (OF)
109. Straight Cliffs-3 quadrangle, Kane County, Utah, photogeologic map, by B. H. Kent: I 13: * (TEM-799)
110. Straight Cliffs-7 quadrangle, Kane County, Utah, photogeologic map, by B. H. Kent: I : * (TEM-765) (OF)
111. Straight Cliffs-9 quadrangle, Kane County, Utah, photogeologic map, by J. C. Reed, Jr.: I : * (TEM-757) (OF)
112. Tidwell-3 quadrangle, Emery County, Utah, photogeologic map, by C. H. Marshall: I : * (TEM-759)
113. Tidwell-7 quadrangle, Emery and Grand Counties, Utah, photogeologic map, by V. H. Sable: I 12: * (TEM-815)
114. Tidwell-8 quadrangle, Grand and Emery Counties, Utah, photogeologic map, by V. H. Sable: I : * (TEM-811)
115. Tidwell-12 quadrangle, Emery County, Utah, photogeologic map, by C. F. Miller: I 3: * (TEM-750) (OF)
116. White Canyon-1 quadrangle, San Juan and Garfield Counties, Utah, photogeologic map, by J. C. Reed, Jr.: I : * (TEM-817)

117. White Canyon-2 quadrangle, San Juan and Garfield Counties, Utah, photogeologic map, by J. C. Reed, Jr.: I : * (TEM-813)
118. Woodside-5 quadrangle, Emery County, Utah, photogeologic map, by P. P. Orkild: I 5: * (TEM-754) (OF)

e. Oil and gas investigations charts and maps

119. Baker, A. A., Areal geologic map of Green River Desert-Cataract Canyon Region, Emery, Wayne, and Garfield Counties, Utah: No. 55: 1946. 40¢
120. Huddle, J. W. and McCann, F. T., Geologic map of the Duchesne River area, Wasatch and Duchesne Counties, Utah: No. 75: 1947. 60¢
121. Huddle, J. W., Mapel, W. J., and McCann, F. T., Geology of the Moon Lake area, Duchesne County, Utah: OM 115: 1951. 50¢
122. Hunt, C. B., Averitt, Paul, Miller, R. L., Bowles, E., Bates, R. E., Goldman, M. I., and Simmons, W. W., Geologic map of the Henry Mountains region, Utah: OM 131: 1952. \$1.00
123. Kinney, D. M., Geology of the Uinta River and Brush Creek-Diamond Mountain area, Duchesne and Uintah Counties, Utah: OM 123: 1951. 75¢
124. Love, J. D., Henbest, L. G., and Denson, N. M., Stratigraphy and paleontology of Paleozoic rocks, Hartville area, eastern Wyoming: OC 44: 1953. 2 sheets. \$1.00 per set.
125. Stokes, W. L. and Phoenix, D. A., Geology of the Egnar-Gypsum Valley area, San Miguel and Montrose Counties, Colorado: No. 93: 1948. 50¢
126. Strobell, J. D., Jr., Geology of the Carrizo Mountains area in north-eastern Arizona and northwestern New Mexico (with text): OM 160: * (TEM-415-430 inclusive)

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f. Resource appraisal maps

127. Schnabel, R. W., The uranium deposits of the United States: MR 2: *

7. Publications in scientific journals

Exclusive of "Nuclear Science Abstracts"

(Publications are listed alphabetically by authors)

1. Adams, J. W., Uranium in the Golden Gate Canyon and Ralston Creek areas, Jefferson County, Colorado (abs.): Geol. Soc. Am. Bull., v. 64, no. 12, pt. 2, p. 1539, 1953. (TEM-154) (C-320)
2. Altschuler, Z. S., Cisney, E. A., and Barlow, I. H., X-ray evidence of the nature of the carbonate-apatites (abs.): Geol. Soc. Am. Bull., v. 63, no. 12, pt. 2, p. 1230, 1952; (abs.): in Proc. 19th Int. Geol. Congress, 11th Section, Algeria, p. 9, 1953.
3. Altschuler, Z. S., Clarke, R. S., Jr., and Young, E. J., Uranium in apatite (abs.): Geol. Soc. Am. Bull., v. 65, no. 12, pt. 2, p. 1225, 1954.
4. Armstrong, F. C., Generalized composite stratigraphic section for the Soda Springs quadrangle and adjacent areas in southeastern Idaho (map only): in Intermountain Assn. of Petroleum Geologists, Fourth Annual Field Conference, Guide to the geology of northern Utah and southeastern Idaho, 1953, in pocket.
5. Armstrong, F. C., Pitchblende deposits on Quartz Hill, Central City district, Gilpin County, Colorado (abs.): Econ. Geology, v. 47, no. 7, p. 767-768, 1952; (abs.): Geol. Soc. Am. Bull., v. 63, no. 12, pt. 2, p. 1232, 1952.
6. Armstrong, F. C., Radioactivity in the Northwest (abs.): Geol. Soc. Am. Bull., v. 65, no. 12, pt. 2, p. 1331, 1954.
7. Axelrod, J., Grimaldi, F. S., Milton, Charles, and Murata, K. J., The uranium minerals from the Hillside mine, Yavapai County, Arizona: Am. Mineralogist, v. 36, nos. 1 and 2, p. 1-22, 1951.
8. Bales, W. E., Bell, Henry, III., and Wilmarth, V. R., Uranium-vanadium deposits near Edgemont, Fall River County, South Dakota (abs.): Geol. Soc. Am. Bull., v. 64, no. 12, pt. 2, p. 1540, 1953.
9. Becraft, G. E., Uranium deposits in the northern part of the Boulder Batholith (abs.): Geol. Soc. Am. Bull., v. 64, no. 12, pt. 2, p. 1540, 1953.
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13. Berman, Joseph, Studies of metamict minerals (I): Methods and procedures (abs.): Geol. Soc. Am. Bull., v. 62, no. 12, pt. 2, p. 1422, 1951.
14. Berman, Joseph, Studies of metamict minerals (II): Re-examination of fergusonite (abs.): Geol. Soc. Am. Bull., v. 63, no. 12, pt. 2, p. 1235, 1952.
15. Berman, Robert, A nomogram for obtaining percent composition by weight from mineral-grain counts: Jour. Sed. Petrology, v. 23, no. 2, p. 120-123, 1953. (TEI-273)
16. Bracken, J. T. and Senftle, F. E., Change of the isotopic abundance ratio within a sphere due to diffusion: Jour. Applied Physics, v. 25, no. 2, p. 267-268, 1954. (TEI-402)
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18. Bush, A. L. and Stager, H. K., Estimation of reserves for uranium-vanadium deposits on the Colorado Plateau (abs.): Econ. Geology, v. 49, no. 7, p. 805, 1954; (abs.): Geol. Soc. Am. Bull., v. 65, no. 12, pt. 2, p. 1236-1237, 1954. (TEI-288)
19. Cadigan, R. A., Correlative units in the San Rafael group on the Colorado Plateau (abs.): Geol. Soc. Am. Bull., v. 65, no. 12, pt. 2, p. 1237-1238, 1954.
20. Cadigan, R. A., Testing graphical methods of grain-size analysis of sandstones and siltstones: Jour. Sed. Petrology, v. 24, no. 2, p. 123-127, 1954.
21. Cannon, H. L., Botanical methods of prospecting for uranium: Mining Eng., v. 6, no. 2, p. 217-220, 1954.
22. Cannon, Helen, The effect of uranium-vanadium deposits on the vegetation of the Colorado Plateau: Am. Jour. Science, v. 250, p. 735-770, 1952. (TEI-160)
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28. Cathcart, J. B. and Houser, F. N., Development and distribution of leached rock in the land-pebble phosphate district, Florida (abs.): Geol. Soc. Am. Bull., v. 61, no. 12, pt. 2, p. 1449, 1950.
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1. The purpose of this document is to provide information regarding the activities of the [redacted] and the [redacted] in the [redacted] area.

2. The [redacted] and the [redacted] have been observed in the [redacted] area, and it is believed that they are engaged in [redacted] activities.

3. The [redacted] and the [redacted] are believed to be involved in the [redacted] of [redacted] and the [redacted] of [redacted].

PART III. FINDING LIST OF STATES, AREAS, AND SUBJECTS

This finding list is based on information derived mostly from the titles of reports as listed, and in some cases where titles are of a general nature, from a cursory review of the reports. This list is not a complete index, but is designed to find subjects of major interest.

If a TE or RME number is given, the reader should look in Part I under the given TEI, TEM, or RME number. If any other reference is given, i.e., OF, TIS, C, etc., look in the appropriate section of Part II.

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