

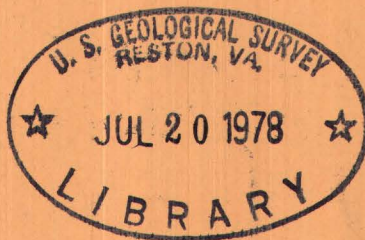
(200)
TL7v
no. 400

OFFICIAL USE ONLY

U. S. Geological Survey Trace Elements and Related Reports through 1953

rest
June 1953
VZS

By Jane H. Wallace, Virginia K. Blatcher, and Harriet B. Smith



Trace Elements Investigations Report 400

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Geology and Mineralogy
Chemistry
Instrumentation
Physics

This document consists of 267 pages.
Series A

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

U. S. GEOLOGICAL SURVEY TRACE ELEMENTS AND RELATED REPORTS
THROUGH 1953*

by

Jane H. Wallace, Virginia K. Blatcher,
and Harriet B. Smith

January 1954

Trace Elements Investigations Report 400

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.

When separated from Parts I, III, and IV, handle Part II as UNCLASSIFIED.

OFFICIAL USE ONLY

OFFICIAL USE ONLY

2

USGS - TEI-400

GEOLOGY AND MINERALOGY
CHEMISTRY
INSTRUMENTATION
PHYSICS

Distribution (Series A)

No. of copies

American Cyanamid Company, Winchester	1
Argonne National Laboratory	1
Atomic Energy Commission, Washington	1
Battelle Memorial Institute, Columbus	1
Carbide and Carbon Chemicals Company, Y-12 Area	1
Division of Raw Materials, Albuquerque	1
Division of Raw Materials, Butte	1
Division of Raw Materials, Denver	1
Division of Raw Materials, Douglas	1
Division of Raw Materials, Hot Springs	1
Division of Raw Materials, Ishpeming	1
Division of Raw Materials, New York	12
Division of Raw Materials, Phoenix	1
Division of Raw Materials, Richfield	1
Division of Raw Materials, Salt Lake City	1
Division of Raw Materials, Washington	15
Division of Research, Washington	1
Dow Chemical Company, Pittsburg	1
Exploration Division, Grand Junction Operations Office	6
Grand Junction Operations Office	2
Research Incorporated, Dallas	1
Technical Information Service, Oak Ridge	6
Tennessee Valley Authority, Wilson Dam	1
U. S. Bureau of Mines (M.H. Kline), Washington	1
G. W. Bain, Amherst	1
T. F. Bates, State College	1
H. S. Brown, Pasadena	1
W. H. Bucher, New York	1
Farrington Daniels, Madison	1
Clifford Frondel, Cambridge	1
J. W. Gruner, Minneapolis	1
P. F. Kerr, New York	1
Lawrence Kulp, Palisades	1
V. K. LaMer, New York	1
P. B. Stockdale, Knoxville	1
W. L. Stokes, Salt Lake City	1
H. D. Wright, State College	1
U. S. Geological Survey:	
Mineral Deposits Branch, Washington	20
Geochemistry and Petrology Branch, Washington	40

OFFICIAL USE ONLY

U. S. Geological Survey (continued):

Geophysics Branch, Washington	5
Alaskan Geology Branch, Washington	10
Fuels Branch, Washington	8
Foreign Geology Branch, Washington	1
Military Geology Branch, Washington	1
Conservation Division, Washington	1
Water Resources Division (V. T. Stringfield), Washington	1
Paul Applin, Jackson (Miss.)	1
E. H. Bailey, Menlo Park	5
H. M. Bannerman, Washington	1
Nathan Bass, Denver	1
W. E. Benson, Denver	1
W. H. Bradley, Washington	1
K. L. Buck, Denver	5
Ruth Butler, Washington	1
M. F. Byrd, Washington	1
H. L. Cannon, Washington	1
R. S. Cannon, Washington	1
M. S. Carr, Washington	1
L. C. Conant, University, Alabama	1
J. R. Cooper, Denver	2
N. M. Denson, Denver	4
Wallace DeWitt, New Philadelphia	1
D. C. Duncan, Washington	1
C. E. Dutton, Madison	2
D. H. Eargle, Austin	1
M. J. Ebner, Washington	1
E. B. Eckel, Denver	1
R. P. Fischer, Grand Junction	10
W. A. Fischer, Washington	1
L. S. Gardner, Albuquerque	1
P. Guild, Washington	1
F. N. Houser, Tucson	1
J. D. Huddle, Lexington	1
A. R. Kinkel, Washington	2
M. R. Klepper, Washington	1
A. H. Koschmann, Denver	10
D. M. Larrabee, Washington	1
R. A. Laurence, Knoxville	1
J. D. Love, Laramie	1
T. S. Lovering, Denver	1
D. M. Lemmon, Washington	1
G. W. Luttrell, Washington	1
V. E. McKelvey, Menlo Park	5
F. A. McKeown, Beltsville	1
Kathleen McQueen, Washington	1
Donald Myers, Austin	1
T. B. Nolan, Washington	1
W. C. Overstreet, Shelby	1

U. S. Geological Survey (continued):

L. R. Page, Denver	1
Priscilla Patton, Denver	2
J. F. Pepper, New Philadelphia	1
R. G. Petersen, Plant City	1
J. C. Rabbitt, Washington	1
Paul Richards, Billings	1
J. A. Reinemund, Denver	1
R. J. Roberts, Salt Lake City	5
W. W. Rubey, Washington	1
D. C. Schnabel, Denver	1
J. M. Schopf, Columbus	1
Q. D. Singewald, Beltsville	1
J. F. Smith, Jr., Denver	3
P. D. Snavely, Menlo Park	1
R. W. Swanson, Spokane	1
R. E. Van Alstine, Washington	1
Holly Wagner, Lawrence	1
A. E. Weissenborn, Spokane	5
M. G. White, Rio de Janerio	1
G. H. Wood, Mt. Carmel	1
A. O. Woodford, Claremont	1
TEPCO, Denver . . . . .	.50
TEPCO, Washington . . . . .	.30
(Including master)	

OFFICIAL USE ONLY

5

CONTENTS

	Page
Introduction	6
Part I. Numerical list of Trace Elements Reports.	8
1. Trace Elements Investigations Reports.	8
2. Trace Elements Memorandum Reports.	41
Part II. Trace Elements and related reports available to the public	95
1. Reports released in open file.	95
a. Trace Elements Investigations Reports	96
b. Trace Elements Memorandum Reports	100
c. Miscellaneous	112
2. Trace Elements Reports issued by the U. S. Atomic Energy Commission, Technical Information Service, Oak Ridge, Tenn.	114
a. Trace Elements Investigations Reports	116
b. Trace Elements Memorandum Reports	122
3. Circulars.	125
4. Bulletins.	131
5. Professional Papers.	134
6. Geological Survey Oil and Gas maps and Minerals Investigations Preliminary maps and reports.	135
7. Geologic Quadrangle Map series	137
8. Publications in scientific journals.	139
Part III. Finding list of states, areas, and subjects	149
Part IV. Finding list of authors	204

OFFICIAL USE ONLY

U. S. GEOLOGICAL SURVEY TRACE ELEMENTS AND RELATED REPORTS
THROUGH 1953

By Jane H. Wallace, Virginia K. Blatcher, and Harriet B. Smith

INTRODUCTION

This report combines and brings up-to-date the information previously given in Trace Elements Investigations Report 325, "Numerical list of U. S. Geological Survey Trace Elements Reports to April 30, 1953," and Trace Elements Investigations Report 301, "Topical index and bibliography of U. S. Geological Survey Trace Elements and related reports."

Part I is a numerical list of U. S. Geological Survey Trace Elements Investigations and Memorandum reports. — It supersedes TEI-325. 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, 1953. Reports that have been published are 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 2 of TEI-301 (published as Geological Survey Circular 281). These reports are grouped according to the type of publication or release. Abstracts published in Nuclear Science Abstracts are not included in Part II, although certain TEI and TEM reports, the abstracts of which have been published in NSA, are so indicated in Part I. Publications in process on December 31, 1953, are designated by an asterisk.

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. 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 a finding list of authors. The words "with" and "and" are used to indicate seniority of authorship. For example, a listing of Jones and Brown indicates that Jones is the senior author. A listing of Jones 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 standard abbreviations have been used: TEI, Trace Elements Investigations report; TEM, Trace Elements Memorandum report; P, Professional Paper; B, Bulletin; C, Circular; J, Journal; OF, open file; TIS, Technical Information Service release; NSA, Nuclear Science Abstracts; QM, Quadrangle Map Series; and OM, Oil and Gas map or Mineral Investigations map or report.

U. S. GEOLOGICAL SURVEY TRACE ELEMENTS
AND RELATED REPORTS THROUGH 1953

by

Jane H. Wallace, Virginia K. Blatcher,
and Harriet B. Smith

PART I. NUMERICAL LIST OF TRACE ELEMENTS REPORTS

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

Abbreviations used: P, Professional Paper; B, Bulletin; C, Circular; J, Journal; OF, Open File; TIS, Technical Information Service; NSA, Nuclear Science Abstracts; QM, Quadrangle Map; OM, Oil and Gas Map or Minerals Investigations Map or Report.

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: (Secret). January 1945. (Confidential, 3-4-54)
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.
11. Fleischer, Michael, The occurrence of xenon: (Secret). May 1945.
12. Butler, A. P., Jr. and Chesterman, C. W., Trace elements reconnaissance in Alabama, Georgia, and North Carolina, preliminary report: (Secret) (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.
15. Grimaldi, F. S. and Fairchild, J. G., Preliminary report on methods of analysis for very small percentages of thorium: (Unclassified). 1945.
16. Fahey, J. J. and Foster, M. D., Preliminary report on a method for the determinations of small quantities of thorium: (Unclassified). 1945.
17. Slaughter, A. L., Trace elements reconnaissance in Florida, preliminary report: (Confidential): September 1945.
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.
20. Slaughter, A. L. and Nelson, J. M., Trace elements reconnaissance in South Dakota and Wyoming, preliminary report: (Official use only). March 1946.
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). 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. (B-1006*; TIS).
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.
27. Killeen, P. L. and Ordway, R. J., Trace elements investigations at Ear Mountain, Seward Peninsula, Alaska: (Unclassified). May 1946.
28. Schlecht, W. G., Control chart method applied to errors in radioactive counting: (Unclassified). June 1946. (TIS).
29. Fleischer, Michael and Cameron, E. N., Geochemistry of beryllium: (Unclassified). June 1946. (TIS).
30. Chesterman, C. W. and Main, F. H., Reconnaissance in Japan and Korea: (Secret). 1946. (Official use only, 3-4-54)
- 31A. Foster, M. D., Stevens, R. E., Grimaldi, F. S., Schlecht, W. G., and Fleischer, Michael, Methods for the complete decomposition of rock and ore samples to be analyzed for very small amounts of uranium and thorium: (Confidential). 1946. (B-1006^{*}; TIS).
- 31B. Foster, M. D. and Stevens, R. E., The determination of very small amounts of uranium in naturally occurring materials: (Confidential). 1946. (B-1006^{*}; TIS).
- 31C. Grimaldi, F. S., The determination of very small amounts of uranium in rocks and minerals: (Confidential). 1946. (B-1006^{*}; TIS).
- 31D. Fahey, J. J. and Foster, M. D., The determination of small amounts of thorium in rocks and minerals: (Confidential). 1946. (B-1006^{*}; TIS).
- 31E. Grimaldi, F. S. and Fairchild, J. G., The determination of very small amounts of thorium in naturally occurring materials: (Confidential). 1946. (B-1006^{*}; TIS).
- 31F. Grimaldi, F. S., Elimination of interference by nickel in the determination of uranium by means of zinc amalgam reductor: (Unclassified). 1946.
- 31G. Schlecht, W. G., Control chart method applied to radioactive counting: (Confidential). 1946.
- 31H. Fleischer, Michael and Harder, J. O., Geochemistry of indium: (Unclassified). 1946. (TIS).
- 31I. Fleischer, Michael and Harder, J. O., Geochemistry of germanium: (Unclassified). 1946. (TIS).

- 31J. Fleischer, Michael and Harder, J. O., Geochemistry of columbium and tantalum: (Unclassified). 1946. (TIS).
- 31K. 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.
36. Butler, A. P., Jr. and Stead, F. W., Present investigations of radioactive raw materials by the Geological Survey and a recommended program for future work: (Secret). April 1947.
37. Fleischer, Michael and Rabbitt, J. C., The geochemistry of gallium: (Official use only). January 1947.
38. Wedow, Helmuth, Jr. and Matzko, J. J., Trace elements reconnaissance along highways in the Tanana and Upper Copper River Valleys, Alaska: (Unclassified). March 1947.
39. Moxham, R. M. and West, W. S., Trace Elements investigations in the Serpentine-Kougarok 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 Grant Creek area, Yukon region, Alaska: (Pt. 1, Unclassified). October 1949; Trace elements reconnaissance on the South Fork of Quartz Creek, northeastern Seward Peninsula, Alaska: (Pt. 2, Unclassified). May 1950. (C-250).
43. Nelson, J. M. and Brill, K. G., Jr., Preliminary report on radioactivity of asphaltites, coals, and shales, in Tennessee, Kentucky, West Virginia, and Pennsylvania: (Unclassified). October 1948.

44. Grimaldi, F. S. and Marsh, C. A., The determination of thorium in high-grade and low-grade ores: (Unclassified). September 1947. (B-1006*; TIS).
45. White, M. G. and Killeen, P. L., Radioactivity and mineralogy of concentrates from the placers of Julian, Moore, and Candle Creeks, and the Cripple Creek Mountains, lower Yukon-Kuskokwim Highlands region, Alaska: (Pt. 1, Unclassified). February 1950. (C-255).
45. West, W. S. and Matzko, J. J., Radiometric and mineralogic studies of the granitic complex in the Cape Nome area, Seward Peninsula, Alaska: (Pt. 2, Unclassified). May 1950. (C-244).
- 45C. Matzko, J. J., Radiometric examination of rock specimens from Mount McKinley, Alaska: (Unclassified). February 1951.
46. White, M. G. and Killeen, P. L., Radioactivity investigations in the vicinity of Flat, Lower Yukon-Kuskokwim region, Alaska: (Unclassified). April 1952. (C-255).
47. Grimaldi, F. S. and Levine, Harry, The rapid fluorimetric determination of uranium in low-grade ores, a preliminary report: (Unclassified). April 1948. (B-1006*; OF; TIS).
48. Moxham, R. M., Trace elements reconnaissance of the southern highway belt, south-central Alaska: (Unclassified). May 1950. (C-184).
49. West, W. S. and Matzko, J. J., Reconnaissance for radioactive deposits in the Buckland-Kiwalik district, Candle quadrangle, Seward Peninsula, Alaska: (Unclassified). March 1952. (C-250).
50. Wyant, D. G., Staats fluorspar mine, Beaver County, Utah: (Unclassified). August 1948.
51. Wyant, D. G., Uranium-vanadium deposits at Shinarump Mesa and some adjacent areas, Temple Mountain district, Emery County, Utah: (Pt. 1, Unclassified; Pt. 2, Official use only). January 1953.
52. Gott, G. B., Radioactivity of sediments in parts of Oklahoma and Kansas, preliminary report: (Unclassified). December 1948.
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, Helmuth, Jr., Reconnaissance for radioactive deposits in the Eagle-Nation area, east-central Alaska, 1948: (Unclassified). August 1953. (C-316; NSA).
- 57A. White, M. G., Radioactivity and mineralogy of placer concentrates from the Fortymile district, Alaska: (Unclassified). August 1950.
- 57B. White, M. G., Trace elements reconnaissance in the Lower Coleen River Valley, Upper Yukon division, Alaska: (Unclassified). February 1950. (C-185).
- 57C. White, M. G., Radioactivity in the 'Okpilak' gneissic granite, Mount Michelson area, northeastern Alaska: (Unclassified). January 1951. (C-195).
- 57D. Moxham, R. M., The occurrence of zeunerite in the Russian Mountains, Alaska, interim report: (Unclassified). February 1950.
58. Conant, L. C., Second interim report, black shale investigations (Chattanooga): (Secret). March 1949.
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.
62. Conant, L. C., Brown, Andrew, and Haas, W. H., Chattanooga shale of the Eastern Highland Rim, Tennessee: (Confidential). August 1950.
63. Robeck, R. C. and Brown, Andrew, Black shale investigations, Block 3, Tennessee: (Confidential). March 1950.
64. Robeck, R. C. and Conant, L. C., Reconnaissance search in parts of Kentucky, Tennessee, Indiana, Virginia, and Ohio for areas where uraniferous black shale may be mined by stripping: (Confidential). May 1951.
65. Nelson, J. M., Prospecting for uranium with car-mounted equipment, a progress report: (Unclassified). July 1949. (B-988-I; TIS).
66. Davis, W. E., Swartz, J. H., and Shuler, R. M., A preliminary geophysical investigation of carnotite deposits in Mesa County, Colorado: (Official use only). October 1949.

67. McKeown, F. A., Reconnaissance of radioactive rocks of Vermont, New Hampshire, Connecticut, Rhode Island, and southeastern New York: (Unclassified). June 1951. (TIS).
68. Nelson, J. M. and Narten, P. F., Reconnaissance of radioactive rocks of Maine: (Unclassified). December 1951. (TIS).
69. Johnson, D. H., Reconnaissance of radioactive rocks of Massachusetts: (Unclassified). December 1951. (TIS).
70. Narten, P. F. and McKeown, F. A., Reconnaissance of radioactive rock of the Hudson Valley and Adirondack Mountains, New York: (Unclassified). May 1952. (TIS).
71. Hinrichs, E. N., The pegmatites of the Errington-Thiel mine, Elko County, Nevada: (Unclassified). February 1950. (OF).
72. Anderson, F. J., Reconnaissance of some geologic formations in southeastern Idaho, western Wyoming, and northern Utah: (Unclassified). January 1950.
73. West, W. S. and Benson, P. D., Reconnaissance for radioactive deposits on the Mountain View mining property and adjacent areas, Hyder district, southeastern Alaska.*
- 74A. Moxham, R. M. and Nelson, A. E., Trace Elements reconnaissance in the Jakolog Bay area, southern Alaska: (Unclassified). August 1950. (C-207).
75. White, Max G. and Stevens, John M., Reconnaissance for radioactive deposits in the Nixon Fork mining district, Medfra quadrangle, central Alaska, 1949: (Unclassified). February 1953. (C-279; NSA).
- 76A. White, M. G., Examination for radioactivity in a copper-lode prospect on Ruby Creek, Kobuk River Valley, Alaska: (Unclassified). August 1950.
77. McKelvey, V. E., Relation of uranium and phosphate in the Phosphoria formation: (Confidential). January 1950.
78. Staff, Characteristics of radioactive carbonaceous and bituminous shales: (Confidential). January 1950.
79. Cathcart, J. B., Uranium-bearing sedimentary rocks in the land-pebble phosphate deposits of Florida: (Confidential). January 1950.
80. Fischer, R. P., Carnotite deposits of the Colorado Plateau: (Official use only). January 1950.
- 81A. Thurston, R. H. and Chace, F. M., Tin, copper, and uranium at Majuba Hill, Nevada: (Unclassified). February 1950.

82. Gott, G. B., Application of gamma-ray logs of oil wells to the discovery of radioactive ore: (Unclassified). August 1949.
83. Stead, F. W., Progress on detection of radioactivity by airborne equipment: (Official use only). September 1949.
84. Bell, K. G. and Rogers, A. S., Experimental gamma-ray logging of drill holes in the Calamity area, Mesa County, Colorado: (Unclassified). February 1950.
85. Cathcart, J. B., Distribution of uranium in the Florida phosphate field: (Confidential). August 1949.
86. Fischer, R. P. and Blackman, D. H., Geologic guides to carnotite deposits on the Colorado Plateau: (Unclassified). August 1949.
87. Bell, K. G., Semiquantitative determination of uranium and stratigraphic correlation by gamma-ray logging of drill holes in carnotite deposits: (Unclassified). August 1949.
88. Page, L. R., Beryllium in Colorado: (Unclassified). March 1950. (J-77).
89. Fetzner, W. G., Waulters, E. E., and Fischer, R. P., Some considerations regarding potential production of uranium-vanadium ore in Colorado, Utah, New Mexico, and Arizona: (Secret). 1948.
90. Page, L. R., The Geological Survey's beryllium program, fiscal 1948, an interim report: (Official use only). November 1948.
91. May, Irving and Fletcher, M. H., Preliminary report on a transmission fluorimeter for use in the fluorimetric method of analysis for uranium: (Official use only). November 1948.
92. Stieff, L. R., Program of study for the carnotite ores of the Colorado Plateau: (Unclassified). March 1949.
93. Brown, Andrew, Experimental adit in the Chattanooga shale: (Confidential). March 1949.
94. McKelvey, V. E. and Cathcart, J. B., Staff report on phosphates: Pt. 1, Florida phosphates; Pt. 2, Progress report on the investigation of uranium in western phosphate field: (Secret). June 1949.
95. Cathcart, J. B., Characteristics of uranium-bearing sedimentary rocks in the land-pebble phosphate deposits of Florida: (Confidential). July 1949.
96. Fischer, R. P. and Blackman, D. H., Progress report on geologic, mineralogic, and geobotanical guides to ore in the carnotite deposits of the Colorado Plateau: Pt. 1, Geologic guides to carnotite deposits: (Unclassified). July 1949.

96. Hawkes, H. E., Progress report on geologic, mineralogic, and geobotanical (Part 3). guides to ore in the carnotite deposits of the Colorado Plateau: Pt. 3, Geobotanical program for Colorado Plateau: (Unclassified). July 1949.
97. Staff, Tonnage and grade of slime ponds and washer debris areas, Florida phosphate field: (Secret). September 1949.
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. (B-1006; TIS).
99. Randolph, R. B. and Grimaldi, F. S., The determination of phosphorus in rocks containing vanadium: (Unclassified). July 1949. (B-992).
100. Stewart, R. H., Preliminary results of prospecting of the "leached" zone over phosphate deposits in NW $\frac{1}{4}$ of Sec. 9, T. 31 S., R. 25 E., Polk County, Florida: (Official use only). December 1949.
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).
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. (B-1006; OF).
105. Levine, Harry and Grimaldi, F. S., Application of mesityl oxide to the determination of thorium: (Unclassified). February 1950. (B-1006; TIS).
106. Stieff, L. R., Girhard, M. N., and Stern, T. W., Study of radioactive equilibrium in carnotite ores of the Colorado Plateau: (Unclassified). August 1949.
107. Murata, K. J., Cisney, E. A., Stieff, L. R., and Zworykin, E. V., Synthesis, base exchange, and photosensitivity of carnotite, tyuyamunite, and related minerals: (Unclassified). August 1949. (J-74).
108. Stieff, L. R., Girhard, M. N., and Stern, T. W., A preliminary report on methods of determining the age of Colorado Plateau carnotite: (Unclassified). April 1950.
109. Fischer, R. P., The Uravan mineral belt: (Secret). February 1950. (TEI-109 revised--B-988-A; OF).

110. Cater, F. W., Craig, L. C., and Phoenix, D. A., Progress of geologic studies, Colorado Plateau project: (Unclassified). February 1950.
111. McKelvey, V. E. and Swanson, R. W., Status of investigations of uranium in the Phosphoria formation, a preliminary report to the AEC: (Secret). December 1949. (Official use only, 3-4-54)
112. Bush, A. L., Carnotite resources in the Charles T. area and vicinity, San Miguel County, Colorado: (Official use only). March 1950.
113. Trace, R. D., Carnotite resources in the Radium group area, San Miguel County, Colorado: (Official use only). April 1950.
114. Bell, Henry, III, Carnotite resources of the Lower group of claims, San Miguel County, Colorado: (Official use only). April 1950.
115. Withington, C. F. and Bush, A. L., Carnotite resources of the Ellison and Burro claims, San Miguel County, Colorado: (Official use only). April 1950.
116. Bush, A. L., Hilpert, L. S., and Trace, R. D., Carnotite resources of the Georgetown group of claims, San Miguel County, Colorado: (Official use only). June 1950.
117. Stager, H. K., Carnotite resources of the Maverick group area, Mesa County, Colorado: (Official use only). June 1950.
118. Silverman, S. R., Fuyat, R. K., and Weiser, J. D., The quantitative determination of calcite associated with carbonate-bearing apatites: (Unclassified). August 1951. (J-88; OF; TIS; NSA).
119. Blackman, D. H., Geologic guides to prospecting for carnotite deposits on the Colorado Plateau: (Official use only). October 1951. (B-988-B).
120. Fletcher, M. H. and May, Irving, An improved fluorimeter for the determination of uranium in fluoride melts: (Unclassified). June 1950. (B-1006*; OF; TIS; NSA).
121. Gott, G. B. and Hill, J. W., Radioactivity in some oil fields of southeastern Kansas: (Unclassified). April 1951. (B-988-E).
122. Wyant, D. G., Sharp, W. N., and Sheridan, D. M., Uranium deposits in the Red Desert of the Great Divide Basin, Sweetwater County, Wyoming: (Pt. 1, Unclassified; Pt. 2, Official use only). November 1951. (B-1009)*.
123. Beroni, E. P. and Bauer, H. L., Jr., Reconnaissance for uraniferous lignites in North Dakota, South Dakota, Montana, and Wyoming: (Confidential). July 1952.
124. Wilmarth, V. R., Vickers, R. C., McKeown, F. A., and Beroni, E. P., The uranium deposits at the Yellow Canary claims, Daggett County, Utah: (Pt. 1, Unclassified; Pt. 2, Official use only). September 1952. (C-312)*.

125. Sims, P. K., Osterwald, F. W., and Tooker, E. W., Radioactive deposits in Eureka Gulch area, Central City district, Gilpin County, Colorado.*
126. Adams, J. W., Beryllium deposits of the Mount Antero region, Chaffee County, Colorado: (Unclassified). May 1951. (B-982-D).
127. Stieff, L. R. and Stern, T. W., The preparation of nuclear-track plates and stripping films for the study of radioactive minerals: (Unclassified). August 1950. (J-101; OF).
128. Fleischer, Michael, An introduction to the geochemistry of gadolinium: (Unclassified). September 1950.
129. Stern, T. W., A catalog of study material of radioactive minerals: (Unclassified). October 1950. (OF; TIS; NSA).
130. Fletcher, M. H., A study of critical factors in the "direct" fluorimetric determination of uranium: (Unclassified). October 1950. (B-1006*; TIS; NSA).
- 130, addendum Fletcher, Mary H., Addendum to a study of critical factors in the "direct" fluorimetric determination of uranium: (Unclassified). April 1952.
131. McKelvey, V. E., Potential by-product elements in the Phosphoria formation of the western states: (Unclassified). October 1950.
132. Jaffe, E. B., Abstracts of the literature on synthesis of apatites and some related phosphates: (Pt. 1, Unclassified; Pt. 2, Secret). December 1950. (C-135; NSA).
133. Fletcher, M. H., May, Irving, and Anderson, J. W., The design of the Model V transmission fluorimeter: (Unclassified). December 1950. (B-1006*; OF; TIS; NSA).
134. Grimaldi, F. S. and Guttag, N. S., Short routine direct method for the fluorimetric determination of uranium in phosphate rocks: (Unclassified). December 1950. (B-1006)*.
135. May, Irving and Fletcher, M. H., A battery-powered fluorimeter for the determination of uranium: (Unclassified). December 1950. (B-1006*; NSA).
136. Staatz, M. H., Wilmarth, V. R., and Bauer, H. L., Jr., Radioactive fluorite in the Thomas Range, Juab County, Utah: (Pt. 1, Unclassified; Pt. 2, Official use only). January 1951. (B-1005)*.

137. Warner, L. A., Holser, W. T., Wilmarth, V. R., and Cameron, E. N., Non-pegmatitic resources of beryllium in the United States.*
138. Staatz, M. H. and Trites, A. F., Jr., Geology of the Quartz Creek pegmatite district, Gunnison County, Colorado: (Pt. 1, Unclassified; Pt. 2, Official use only). April 1952. (P-265*; OF).
139. Thurston, W. R., Pegmatites of the Crystal Mountain district, Larimer County, Colorado: (Pt. 1, Unclassified; Pt. 2, Official use only). April 1952. (B-1011*; OF).
140. Trites, A. F., Jr. and Tooker, E. W., Uranium and thorium deposits in east-central Idaho and southwestern Montana: (Pt. 1, Unclassified; Pt. 2, Official use only). March 1952. (B-988-H; TIS).
141. Cathcart, J. B., Tillman, C. G., and Dutro, H. B., Reserves of phosphate in the land-pebble phosphate field, Hardee, Hillsborough, Manatee, Osceola, Pasco, and Polk Counties, Florida: (Official use only). January 1951; revised pages, September 1951.
142. Thompson, M. E., Distribution of uranium in rich phosphate beds of the Phosphoria formation: (Unclassified). February 1951. (B-988-D; TIS; NSA).
143. Waring, C. L. and Annell, C. S., A semiquantitative spectrographic method for the analysis of minerals, rocks and ores: (Unclassified). February 1951. (J-112; TIS).
144. Phair, George and Onoda, Kiyoko, Hydrothermal uranothorite in fluorite breccias from the Blue Jay mine, Jamestown, Boulder County, Colorado: (Unclassified). March 1951. (J-80; OF; TIS; NSA).
145. Withington, C. F., Carnotite resources of the Upper group area, San Miguel County, Colorado: (Official use only). July 1951.
146. Stager, H. K., Carnotite resources of the Calamity group area, Mesa County, Colorado: (Official use only). June 1951.
147. Bryner, Leonid, Carnotite resources of Club Mesa, Montrose County, Colorado: (Confidential). November 1952.
148. 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: (Confidential). January 1951. (OF; TIS; NSA).
149. Norton, J. J., Beryllium resources of the world: (Confidential). June 1951.

150. McKelvey, V. E., Page, L. R., Fischer, R. P., and Butler, A. P., Jr., Domestic resources of uranium and thorium--a summary based upon investigations by the U. S. Geological Survey: (Secret). April 1951.
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: (Unclassified). May 1951. (OF; TIS; NSA).
152. Cuttitta, Frank A., A photometric method for the estimation of the oil yield of oil shale: (Unclassified). May 1951. (B-992; OF; TIS; NSA).
153. Guttag, N. S. and Grimaldi, F. S., Fluorimetric determination of uranium in shales, lignites, and monazites after alkali carbonate separation: (Unclassified). July 1951.
- 153A. Guttag, N. S. and Grimaldi, F. S., Fluorimetric determination of uranium in shales, lignites, and monazites after alkali carbonate separation: (Unclassified). October 1951. (B-1006* TIS; NSA).
154. Finch, W. I., Carnotite resources of part of Blue Mesa, Mesa County, Colorado: (Official use only). February 1952.
155. Lang, A. J., Jr. and Redden, J. A., Geology and pegmatites of part of the Fourmile area, Custer County, South Dakota: (Pt. 1, Unclassified; Pt. 2, Official use only). March 1952. (C-245).
156. Granger, H. C., Bauer, H. L., Jr., Lovering, T. G., and Gillerman, Elliot, Uranium deposits in Grant County, New Mexico: (Pt. 1, Unclassified; Pt. 2, Official use only). September 1952.
157. Granger, H. C. and Bauer, H. L., Jr., Uranium occurrences on the Merry Widow Claim, White Signal district, Grant County, New Mexico: (Unclassified). November 1951. (C-189).
158. Wilmarth, V. R. and Johnson, D. H., Uranophane at the Silver Cliff Mine near Lusk, Niobrara County, Wyoming: (Pt. 1, Unclassified; Pt. 2, Official use only). May 1952. (B-1009-A)*.
- 159.
160. Cannon, H. L., The effect of uranium-vanadium deposits on the vegetation of the Colorado Plateau: (Unclassified). October 1951. (J-11).
161. Phoenix, D. A., Present and past ground-water conditions in the Morrison formation in southwestern Colorado and southeastern Utah: (Official use only). October 1952.

162. Trace, R. D., Uranium and vanadium resources of the Slick Rock district, San Miguel County, Colorado: (Confidential). May 1952.
163. Brasher, G. K., Carnotite resources of Outlaw Mesa, Mesa County, Colorado: (Confidential). November 1952.
164. Bell, Henry, III, Carnotite resources of the Legin Group area, San Miguel County, Colorado: (Official use only). July 1952.
165. Stewart, J. H., Carnotite resources of the Moon Mesa and Horse Mesa areas, Mesa and Montrose Counties, Colorado: (Official use only). March 1953.
166. Holser, W. T., Beryllium minerals in the Victorio Mountains, Luna County, New Mexico: (Unclassified). January 1952. (J-49).
167. Rabbitt, J. C., Summary of the research work of the Trace Elements Section, Geochemistry and Petrology Branch, for the period January 1-June 30, 1951: (Unclassified). September 1951.
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: (Unclassified). May 1952. (C-220; J-43; -53; -54; -106; -122; -123; OF).
169. Lovering, T. G., Radioactive deposits of Nevada: (Pt. 1, Unclassified; Pt. 2, Official use only). July 1953. (B-1009)*.
170. Waters, A. C., and Granger, H. C., Volcanic debris in uraniferous sandstones, and its possible bearing on the origin and precipitation of uranium: (Unclassified). August 1952. (C-224; NSA).
171. Thurston, R. H. and Trites, A. F., Jr., The uranium, tin, and copper deposits at Majuba Hill, Pershing County, Nevada: (Pt. 1, Unclassified; Pt. 2, Official use only). December 1952. (B-1009)*.
172. Wilmarth, V. R. and Johnson, D. H., Preliminary reconnaissance survey for thorium, uranium, and rare-earth oxides, Bear Lodge Mountains, Crook County, Wyoming: (Official use only). April 1953.
173. King, R. U., Leonard, B. F., Moore, F. B., and Pierson, C. T., Uranium in the metal-mining districts of Colorado: (Unclassified). June 1952. (C-215; J-55).
174. Lovering, T. G., Radioactive deposits of New Mexico.*
- 175.

176. Wilmarth, V. R. and Vickers, R. C., The Robinson and Weatherly uraniferous pyrobitumen deposits near Placerville, San Miguel County, Colorado: (Pt. 1, Unclassified, Pt. 2, Official use only). November 1952. (OF).
177. Armstrong, F. C., The Central City pitchblende area, Gilpin County, Colorado.*
178. Grimaldi, F. S., Summary of current U. S. Geological Survey chemical methods of uranium and thorium analysis: (Unclassified). October 1951. (B-1006*).
179. Myers, A. T. and Barnett, P. R., Contamination of rock samples during grinding as determined spectrographically: (Unclassified). March 1952. (TIS).
180. Craig, L. C., Holmes, C. N., Cadigan, R. A., Freeman, V. L., Mullens, T. E., and Weir, G. W., Preliminary report on the stratigraphy of the Morrison and related formations of the Colorado Plateau region: (Unclassified). November 1951. (B-1009*; TIS).
181. Pietsch, Audrey and Grimaldi, F. S., The fluorimetric determination of uranium in nonsaline and saline waters: (Unclassified). May 1952. (B-1006*; TIS).
182. Rabbitt, J. C., Summary of the research work of the Trace Elements Section, Geochemistry and Petrology Branch, for the period July 1--September 30, 1951: (Unclassified). November 1951. (TIS; NSA).
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: (Official use only). December 1952. (C-208; OF).
184. McKelvey, V. E., Smith, L. E., Hoppin, R. A., and Armstrong, F. C., Stratigraphic sections of the Phosphoria formation in Wyoming, 1947-48: (Official use only). December 1952. (C-210; OF).
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: (Official use only). December 1952. (C-211; OF).
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: (Official use only). December 1952. (C-209; -260; OF).
187. McKelvey, V. E., Armstrong, F. C., Gulbrandsen, R. A., and Campbell, R. M., Stratigraphic sections of the Phosphoria formation in Idaho, 1947-48, Part II: (Official use only). April 1953. (C-301; OF).

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: (Official use only). April 1953. (C-262; OF).
189. West, W. S. and Benson, P. D., Reconnaissance for radioactive deposits in the vicinity of Ketchikan, Goddard Hot Springs, Chichagof, Funter Bay, and Juneau, southeastern Alaska, 1949.*
190. Moxham, R. M. and Nelson, A. E., Reconnaissance for radioactive deposits in the Iliamna Lake-Lake Clark region, southwestern Alaska: (Unclassified). April 1952. (C-207).
191. Moxham, R. M. and Nelson, A. E., Radioactive pegmatite minerals in the Willow Creek Mining district, south-central Alaska: (Unclassified). January 1952. (C-184).
192. White, Max G. and Stevens, John M., Reconnaissance for radioactive deposits in the Ruby-Poorman district, Ruby quadrangle, Alaska, 1949: (Unclassified). February 1953. (C-279; NSA).
193. White, M. G. and Stevens, J. M., Radioactivity traverse along the Yukon River between Ft. Yukon and Ruby, Alaska, 1949.*
194. White, M. G. and Tolbert, G. E., Radioactive granite in the Miller House-Circle Hot Springs area, east-central Alaska: (Unclassified). February 1952.
195. Wedow, Helmuth, Jr. and Tolbert, G. E., Radioactivity at the Copper Creek copper lode prospect, Eagle district, east-central Alaska: (Official use only). September 1952.
196. Wedow, Helmuth, Jr. and Tolbert, G. E., Reconnaissance for radioactive deposits in the Fortymile district, east-central Alaska, 1949: (Unclassified). December 1953.
197. Wedow, Helmuth, Jr., Stevens, J. M., and Tolbert, G. E., Reconnaissance for radioactive deposits in the Fairbanks and Livengood quadrangles, east-central Alaska, 1949: (Official use only). October 1953.
198. Bachman, G. O., Baltz, E. H., and O'Sullivan, R. B., Reconnaissance for uranium-bearing carbonaceous rocks in New Mexico, 1952: (Official use only). March 1953.
199. McKelvey, V. E., Search for uranium in western United States: (Unclassified). April 1953. (NSA).
200. Vickers, R. C. (compiled by), Bibliography of Geological Survey Trace Elements Reports: (Official use only). November 1951.

201. Vickers, R. C. (compiled by), List of current and planned projects of the Trace Elements program, U. S. Geological Survey: (Official use only). November 1951.
202. Vickers, R. C. (compiled by), Numerical list of U. S. Geological Survey Trace Elements Reports: (Official use only). December 1951.
203. Smith, J. F., Jr., Hinrichs, E. N., and Luedke, R. G., Progress report on geologic studies in the Capitol Reef area, Wayne County, Utah: (Unclassified). August 1952. (TIS).
204. Witkind, I. J., Thaden, R. E., Johnson, D. H., Claus, R. J., and Lough, C. F., Geologic investigations in the Monument Valley area, Apache and Navajo Counties, Arizona.*
205. Benson, W. E., and others, Geologic mapping and study of the copper-uranium deposits in White Canyon, San Juan County, Utah.*
206. Rabbitt, J. C., Rubey, W. W., Butler, A. P., Jr., Lovering, T. S., and McKelvey, V. E., A preliminary outline of desirable research on the geochemistry of uranium: (Unclassified). April 1949. (TIS).
207. Butler, A. P., Jr., The Geological Survey's work on the geology of uranium and thorium deposits: (Unclassified). April 1952. (TIS; NSA).
208. McKelvey, V. E., Trace elements work of the Geological Survey: (Unclassified). December 1951. (TIS).
209. Cannon, R. S., Geological Survey's work on isotope geology of uranium and thorium and their decay products: (Unclassified). January 1952. (TIS).
210. Cuttitta, Frank, A volumetric method for the estimation of the oil yield of oil shale: (Unclassified). March 1952. (B-992; TIS).
211. Stead, F. W., The Geological Survey's work on development of prospecting tools, instruments, and techniques: (Unclassified). May 1952. (TIS).
212. Cathcart, J. B. and Davidson, D. F., Distribution and origin of phosphate in the land-pebble phosphate district of Florida: (Unclassified). June 1952. (J-14; TIS).
213. Gordon, E. D., Withington, C. F., and Dow, V. T., Practices and results obtained with sample collectors for wagon-drill cuttings: (Unclassified). January 1953. (TIS; NSA).
214. Jobin, D. A., Carnotite resources of the Dolores bench, Montrose County, Colorado.*

215. Waring, C. L. and Ansell, C. S., A semiquantitative spectrographic method for the analysis of minerals, rocks, and ores (II): (Unclassified). February 1952. (J-112; TIS).
216. Waring, C. L. and Worthing, Helen, A spectrographic method for determining trace amounts of lead in zircon and other minerals: (Unclassified). March 1952. (J-114; TIS).
217. Huleatt, W. P., Wagon-drill sampling by U. S. Geological Survey: (Unclassified). February 1952. (J-52).
218. Rabbitt, J. C., Summary of the research work of the Trace Elements Section, Geochemistry and Petrology Branch, for the period October 1--December 31, 1951: (Unclassified). February 1952. (TIS).
219. Grimaldi, F. S., May, Irving, and Fletcher, M. H., U. S. Geological Survey fluorimetric methods of uranium analysis: (Unclassified). April 1952. (C-199).
220. White, M. G. and West, W. S., Reconnaissance for uranium in the Lost River area, Seward Peninsula, Alaska: (Unclassified). June 1952. (C-319)*.
221. West, W. S. and White, M. G., The occurrence of zeunerite at Brooks Mountain, Seward Peninsula, Alaska: (Unclassified). June 1952. (C-214; OF).
222. Wyant, D. G., Sharp, W. N., and Rodríguez, Carlos Ponte, Radioactive source material in Los Estados Unidos de Venezuela: (Confidential). February 1953.
223. Cuttitta, Frank, The colorimetric determination of total iron with o-phenanthroline: a spectrophotometric study: (Unclassified). May 1952. (TIS).
224. Conant, L. C. and Swanson, V. E., Uranium content of Chattanooga shale in east-central Tennessee and southern Kentucky: (Confidential). October 1952.
225. Staatz, Mortimer, Norton, J. J., Page, L. R., Stephens, H. G., and Wilmarth, V. R., Beryl resources of the Helen Beryl, Tin Mountain and Elkhorn pegmatites, Custer County, South Dakota.*
226. Sheridan, D. M., and others, Beryl deposits of the Peerless pegmatite, Pennington County, South Dakota.*
227. Granger, H. C., Uranium deposits of Arizona.*

228. Moore, F. B. and Cavender, W. S., Geology and uranium deposits of the Caribou area, Boulder County, Colorado.*
229. Walker, G. W. and Lovering, T. G., Radioactive deposits in California.*
230. Lovering, T. G., Radioactive deposits of Utah.*
231. Sheridan, D. M., Geology of the High Climb pegmatite, Custer County, South Dakota.* (B-1015)*
232. Gott, G. B. and Erickson, R. L., Reconnaissance of uranium and copper deposits in parts of New Mexico, Colorado, Utah, Idaho, and Wyoming: (Pt. 1, Unclassified; Pt. 2, Official use only). June 1952. (C-219).
233. Stugard, Frederick, Jr., Pegmatites of the Middletown area, Connecticut.* (OF-map only).
234. Pierson, C. T. and Singewald, Q. D., Occurrences of uranium-bearing minerals in the St. Kevin district, Lake County, Colorado: (Pt. 1, Unclassified; Pt. 2, Official use only). May 1953. (C-321)*
235. Moore, George W., Extraction of uranium from aqueous solution by coal and other materials: (Unclassified). June 1953.
236. Milkey, R. G., A theoretical treatment of the absorption characteristics of the dithizone mixed-color system: (Unclassified). May 1952. (J-71; TIS; NSA).
237. Conant, L. C., Origin of the Chattanooga shale: (Unclassified). July 1952. (J-14; OF; NSA).
238. Zeller, H. D., Results of core drilling of uranium-bearing lignite deposits in Harding and Perkins Counties, South Dakota, and Bowman County, North Dakota: (Confidential). October 1952.
239. Waring, C. L. and Mela, Henry, Jr., The determination of small amounts of rare earths in phosphate rocks: (Unclassified). June 1952. J-113; TIS).
240. Trites, A. F., Jr., Beroni, E. P., and Benson, W. E., Uranium and copper deposits at the Gonway and North Point claims, White Canyon area, San Juan County, Utah.*

241. Vine, J. D., Bachman, G. O., Read, C. B., and Moore, G. W., Uranium-bearing coal and carbonaceous shale in the La Ventana Mesa area, Sandoval County, New Mexico: (Official use only). January 1953.
242. Hall, M. L. and Butler, A. P., Jr., Compilation of data on the uranium and equivalent uranium content of samples analyzed by U. S. Geological Survey during a program of sampling mine, mill, and smelter products: (Official use only). August 1952.
243. Stern, T. W. and Weeks, A. D., Second occurrence of bayleyite in the United States: (Unclassified). July 1952. (J-97; NSA).
244. Cook, K. L. and Moss, C. K., Geophysical observations in parts of the Grants district, McKinley County, New Mexico: (Pt. 1, Unclassified; Pt. 2, Official use only). August 1952. (TIS; NSA).
245. Milkey, R. G., Methods of analysis used in the treatment of Colorado Plateau carnotite for age studies: (Unclassified). August 1952. (TIS; NSA).
246. Swanson, R. W., McKelvey, V. E., and Sheldon, R. P., Progress report on investigations of western phosphate deposits: (Pt. 1, Unclassified; Pt. 2, Official use only). November 1952. (C-297; OF).
247. Phair, George, Radioactive Tertiary porphyries in the Central City district, Colorado, and their bearing upon pitchblende deposition: (Unclassified). August 1952. (TIS; NSA).
248. Pierson, C. T. and Singewald, Q. D., Results of reconnaissance for radioactivity in parts of the Alma district, Park County, Colorado: (Pt. 1, Unclassified; Pt. 2, Official use only). April 1953. (C-294).
249. Griffiths, W. R., Beryllium resources of the tin-spodumene belt, North Carolina: (Pt. 1, Unclassified; Pt. 2, Official use only). November 1952. (C-309).*
250. Christman, R. A., Heyman, A. M., Dellwig, L. F., and Gott, G. B., Thorium investigations 1950-52, Wet Mountains, Colorado: (Pt. 1, Unclassified; Pt. 2, Official use only). February 1953. (C-290).
251. Shawe, D. R., Thorium resources of the Mountain Pass district, San Bernardino County, California: (Pt. 1, Unclassified; Pt. 2, Official use only). March 1953. (Part of P-261).*
252. Staatz, M. H. and Osterwald, F. W., Geology of the uraniferous fluorspar district, Thomas Range, Juab County, Utah.*
253. Wilmarth, V. R., Geology and ore deposits of the Placerville area, San Miguel County, Colorado.*

254. Stugard, F., Jr., Physical exploration for uranium during 1951 in the Silver Reef district, Washington County, Utah: (Pt. 1, Unclassified; Pt. 2, Official use only). May 1953. (OF).
255. Dings, M. G. and Schafer, Max, Radiometric reconnaissance in the Garfield and Taylor Park quadrangles, Chaffee and Gunnison Counties, Colorado: (Pt. 1, Unclassified; Pt. 2, Official use only). February 1953. (TIS; NSA).
256. Meschter, D. Y., The geology and mineralogy of the W. Wilson mine near Clancey, Jefferson County, Montana: (Pt. 1, Unclassified; Pt. 2, Official use only). March 1953.
257. Becraft, G. E., Preliminary report on the Clancy Creek area, Jefferson City quadrangle, Jefferson County, Montana: (Official use only). March 1953.
258. Cressman, E. R., Geology of the Dry Valley quadrangle, Idaho: (Unclassified). August 1952. (B-1015*; OF).
259. Meyers, W. B., Geology and mineral deposits of the northwest quarter Willis quadrangle and adjacent Brown's Lake area, Beaverhead County, Montana: (Unclassified). August 1952. (OF).
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: (Unclassified). August 1952. (OF).
261. Gillerman, Elliot and Whitebread, D. M., The U-bearing nickel-cobalt-native silver deposit in Black Hawk district, Grant County, New Mexico.*
262. Phair, George and Levine, Harry, Notes on the differential leaching of uranium, radium, and lead from pitchblende in H_2SO_4 solutions: (Unclassified). September 1952. (J-79; TIS; NSA).
263. McKelvey, V. E., Swanson, R. W., and Sheldon, R. P., The Permian phosphate deposits of western United States: (Unclassified). October 1952. (OF; NSA).
264. Petersen, R. G., Areal distribution, thickness, and uranium content of the leached zone in the Clear Springs and Homeland areas, Polk County, Florida: (Official use only). September 1952.
265. Cathcart, J. B., Blade, L. V., Davidson, D. F., and Ketner, K. B., The geology of the Florida land-pebble phosphate deposits: (Unclassified). September 1952. (OF; NSA).
266. Altschuler, Z. S., Summary of work on the mineralogy and petrography of southeast phosphates through April 1952: (Confidential). November 1952.

267. Tucker, W. P. and Waring, C. L., The effect of ashing temperatures on the volatility of germanium in lignite samples: (Unclassified). September 1952. (TIS, NSA).
268. Stieff, L. R., Stern, T. W., and Milkey, R. G., A preliminary determination of the age of some Colorado Plateau uranium ores by the lead-uranium method: (Unclassified). January 1953. (C-271).
269. McKee, E. D. and Weir, G. W., Terminology for stratification and cross-stratification in sedimentary rocks: (Unclassified). September 1952. (J-63; NSA).
270. Staff, Trace Elements research quarterly progress report, January 1 to March 31, 1952: (Pt. 1, Unclassified; Pt. 2, Confidential). July 1952. (TIS; NSA).
271. McKelvey, V. E., Cathcart, J. B., Altschuler, Z. S., Swanson, R. W., and Lutz, Katherine, Domestic phosphate deposits: (Unclassified). November 1952. (J-65; OF; NSA).
272. Hail, W. J., Jr. and Gill, J. R., Radioactive carbonaceous shale and lignite deposits in the Goose Creek district, Cassia County, Idaho: (Official use only). January 1953.
273. Berman, Robert, A nomogram for obtaining percent composition by weight from mineral grain counts: (Unclassified). October 1952. (J-10; NSA).
274. Stitch, J. N., Spectrographic identification of mineral grains: (Unclassified). October 1952. (C-234; NSA).
275. Thompson, M. E., Further studies of the distribution of uranium in rich phosphate beds of the Phosphoria formation: (Unclassified). November 1952. (B-1009*; TIS; NSA).
276. Lovering, T. G., Radioactive iron oxides investigations progress report.*
277. Wilmarth, V. R. and Smith, L. E., Results of diamond drilling and geologic investigation of the Shirley May (Garo) deposit, Park County, Colorado: (Official use only). November 1952.
278. Riley, L. B. and Shoemaker, E. M., Distribution of ore deposits and spectrographic analyses of some rocks and ores on the Colorado Plateau: (Confidential). December 1952.
279. Shoemaker, E. M. and Luedke, R. G., Map of the uranium region of the Colorado Plateau: (Unclassified). December 1952. (OF).
280. Staff, Trace Elements research quarterly progress report, April 1 to June 30, 1952: (Unclassified). August 1952. (TIS; NSA).

281. Vine, J. D. and Moore, G. W., Reconnaissance for uranium-bearing carbonaceous rocks in northwestern Colorado, southwestern Wyoming, and adjacent parts of Utah and Idaho: (Unclassified). October 1952. (TIS; NSA).
282. Becraft, G. E., Preliminary report on the Comet area, Jefferson City quadrangle, Jefferson County, Montana: (Unclassified). December 1952. (C-277; OF).
283. McKay, E. J., Geology of carnotite-bearing sandstone in the Uravan and Gateway districts, Montrose and Mesa Counties, Colorado, and Grand County, Utah: (Official use only). January 1953.
284. Breger, I. A. and Deul, M., Status of investigations on the geochemistry and mineralogy of uraniferous lignites. (Confidential). December 1952.
285. Weeks, Alice Dowse, Mineralogic study of some Jurassic and Cretaceous claystones and siltstones from western Colorado and eastern Utah: (Unclassified). February 1953. (TIS; NSA).
286. Bell, Henry, III, Carnotite resources of the Spud Patch area, San Miguel County, Colorado: (Official use only). August 1953.
287. Finch, W. I., Geology of the Shinarump No. 1 uranium mine, Seven Mile Canyon area, Grand County, Utah.* (OF).
288. Bush, A. L. and Stager, H. K., Appraisal of the accuracy of U. S. Geological Survey estimates for uranium-vanadium deposits on the Colorado Plateau.*
289. Alvord, D. C., Carnotite resources of the San Miguel bench, Montrose County, Colorado.*
290. Brew, D. A., Exploration for uranium deposits in Atkinson Mesa area, Montrose County, Colorado.*
291. West, W. S., Reconnaissance for radioactive deposits in selected areas of the Lower Yukon-Kuskokwim region, Alaska, 1952: (Unclassified). October 1953. (C-328)*
292. Nelson, A. E., West, W. S., and Matzko, J. J., Reconnaissance for radioactive deposits in selected areas of eastern Alaska, 1952.*

293. Houston, J. R., Velikanje, R. S., Bates, R. G., and Wedow, Helmuth, Jr., Reconnaissance for radioactive deposits in selected areas of south-eastern Alaska, 1952.*
294. Kupfer, D. H., Geology of the Calamity Peak area, Custer County, South Dakota.*
295. Harrison, J. E. and Wells, J. D., Geology and ore deposits of Freeland-Lamartine district, Colorado.*
296. Dings, McClelland G., Radiometric reconnaissance near Montezuma, Summit County, Colorado: (Pt. 1, Unclassified; Pt. 2, Official use only). February 1953. (TIS; NSA).
297. Bales, W. E. and Bell, Henry, III, Geology of uranium deposits of Fall River County, South Dakota.*
298. Hill, J. W., Uraniferous asphalts in southwestern Oklahoma.*
299. Wilmarth, V. R., Geology of Shirley May mine near Garo, Park County, Colorado.*
300. Wallace, J. H. and Blatcher, V. K. (compiled by), Numerical list of U. S. Geological Survey Trace Elements Reports to September 15, 1952: (Official use only). November 1952.
301. Curtis, Diane and Houser, Shirley S. (compiled by), Topical index and bibliography of U. S. Geological Survey Trace Elements and related reports: (Pt. 1, Official use only; Pt. 2, Unclassified). December 1952. (C-281; NSA).
302. Sheridan, D. M., Collier, J. T., and Maxwell, C. H., Geology of the Lost Creek schroeckingerite deposits, Sweetwater County, Wyoming.*
303. Vickers, R. C., Geology of the Huron River pitchblende occurrence, Baraga County, Michigan.*

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: (Unclassified). June 1953. (OF).
305. Wells, John D. and Harrison, J. E., Radioactivity reconnaissance of part of north-central Clear Creek County, Front Range, Colorado.*
306. Pierson, C. T., Weeks, W. F., and Kleinhampl, F. J., Interim report on radiometric reconnaissance in the Red Mountain, Upper Uncompahgre, and nearby mining district, western San Juan Mountains, Colorado.*
307. Stieff, L. R. and Erickson, E. S., Jr., An air concentrator for very low grade Colorado Plateau uranium ores: (Unclassified). January 1953. (NSA).
308. Beroni, E. P. and McKeown, F. A., Reconnaissance for uraniferous rocks in northwestern Colorado, southwestern Wyoming, and northeastern Utah: (Pt. 1, Unclassified; Pt. 2, Official use only). July 1952. (TIS)*
309. Frondel, Judith W. and Cuttitta, Frank, Studies of uranium minerals: The status of billietite and becquerelite: (Unclassified). February 1953. (J-39; NSA).
310. Staff, Search for and geology of radioactive deposits, semiannual progress report June 1 to November 30, 1952: (Confidential-Restricted Data). December 1952.
311. Sims, Paul K. and Phair, George, Geology of the Copper King mine area, Prairie Divide, Larimer County, Colorado: (Pt. 1, Unclassified; Pt. 2, Official use only). December 1952. (J-89; TIS; NSA).
312. Lowell, Wayne R., Geologic map and structure sections of the southwest quarter Willis quadrangle, Beaverhead County, Montana: (Unclassified). March 1953. (OF).
313. Williams, G. A., Cadigan, R. A., Albee, H. F., and Stewart, J. H., Progress report on the stratigraphy of the Triassic and associated formations in part of the Colorado Plateau region: (Official use only). June 1953.
314. Berman, Robert, A mineralogic study of churn drill cuttings from a well through the Bone Valley formation, Hillsborough County, Florida: (Unclassified). February 1953. (NSA).
315. Love, J. D., Preliminary report on the uranium deposits in the Miller Hill area, Carbon County, Wyoming: (Pt. 1, Unclassified; Pt. 2, Official use only). January 1953. (C-278).

316. Owens, J. P., Berman, R., and Altschuler, Z. S., The occurrence of millisite and pseudowavellite in the leached zone at Homeland, Florida: (Unclassified). March 1953. (NSA).
317. McKeown, F. A. and Klemic, Harry, Reconnaissance for radioactive materials in northeastern United States during 1952. (Pt. 1, Unclassified; Pt. 2, Official use only). June 1953. (TIS)*
318. Rosholt, J. N., Jr., A quantitative radiochemical method for the determination of the major sources of natural radioactivity in ores and minerals: (Unclassified). April 1953. (TIS; NSA).
319. Smith, J. F., and others, Progress report on geologic studies in the Capitol Reef area, Wayne County, Utah, 1953.*
320. Trites, A. F., Jr. and Finnell, T. L., Progress report on geologic studies in the White Canyon area, San Juan County, Utah, 1953.*
321. Trimble, D. E. and Lewis, R. Q., Geologic studies in the Monument Valley region, San Juan County, Utah.*
322. Stieff, L. R. and Stern, T. W., The lead-uranium ages of some uraninite specimens from Triassic and Jurassic sedimentary rocks of the Colorado Plateau: (Unclassified). April 1953. (J-100; NSA).
323. Honkala, Fred S., Preliminary report on geology of the phosphate deposits in the Centennial Range, Montana-Idaho: (Unclassified). May 1953. (J-51; OF; NSA).
324. Portnov, A. I., The use of aromatic compounds of arsenic in chemical analysis, Part I (translated by Skitsky, V. L.): (Unclassified). April 1953. (TIS).
325. Blatcher, Virginia K. and Wallace, Jane H. (compiled by), Numerical list of U. S. Geological Survey Trace Elements Reports to April 30, 1953: (Official use only). May 1953.
326. Cuttitta, Frank and Kinser, Charles A., An improved tubular electric furnace for the closed-tube distillation of oil from oil shale: (Unclassified). May 1953. (TIS; NSA).
327. Frondel, Clifford, Hydroxyl substitution in thorite and zircon: (Unclassified). May 1953. (J-37; NSA).
328. Finch, W. I., Resource appraisal of uranium deposits in pre-Morrison formations of the Colorado Plateau - an interim report: (Pt. 1, Unclassified; Pt. 2, Secret). May 1953. (J-31; TIS; NSA).

329. Sakakura, A. Y., A note on the transient gas flow problem: (Unclassified). June 1953. (NSA).
330. Staff, Search for and geology of radioactive deposits, semiannual progress report, December 1, 1952 to May 31, 1953: (Unclassified). June 1953. (TIS; NSA).
331. Staff, Search for and geology of radioactive deposits, semiannual progress report, classified data, December 1, 1952 to May 31, 1953: (Confidential). June 1953.
332. Masursky, Harold, Pipiringos, G. N., and Gower, H. D., Results of exploratory core drilling for uranium-bearing coal in the northern part of the Red Desert area, Sweetwater County, Wyoming: (Official use only). May 1953.
333. Flanagan, F. J. and Senftle, F. E., Tables for the calculation of radioactive equilibrium from Bateman's equation: (Unclassified). July 1953. (NSA).
334. Weeks, A. D. and Thompson, M. E., Identification and occurrence of uranium and vanadium minerals from the Colorado Plateaus: (Unclassified). April 1953. (NSA).
335. Weeks, A. D., Cisney, E. A., and Sherwood, A. M., Montroseite, a new vanadium oxide from the Colorado Plateaus: (Unclassified). June 1953. (J-118; NSA).
336. Vine, J. D. and Flege, Robert F., Jr., Reconnaissance during 1952 for uranium-bearing carbonaceous rocks in parts of Colorado, Utah, Idaho, and Wyoming: (Unclassified). June 1953. (NSA).
337. Moore, G. W. and Stephens, J. G., Reconnaissance for uranium-bearing carbonaceous rocks in California and adjacent parts of Oregon and Nevada: (Unclassified). June 1953. (C-313*, NSA).
338. Zeller, H. D. and Baltz, E. H., Jr., Uranium-bearing copper deposits in the Coyote district, Mora County, New Mexico: (Unclassified). May 1953.
339. Mapel, W. J. and Hail, W. J., Jr., Uranium-bearing carbonaceous shale and lignite in the Goose Creek district, Cassia County, Idaho, Boxelder County, Utah, and Elko County, Nevada: (Official use only). June 1953.
- 340.
341. Mullens, T. E. and Freeman, V. L., Lithofacies of the Salt Wash member of the Morrison formation.* (J-73).

342. Black, R. A., A magnetic investigation of the Round Mountain stock, Castle Valley, Utah.*
- 343.
- 344.
345. Troyer, M. L., McKay, E. J., Soister, P. E., and Wallace, Stewart R., Summary of investigations of uranium deposits in the Pumpkin Buttes area, Johnson and Campbell Counties, Wyoming: (Pt. 1, Unclassified; Pt. 2, Official use only). July 1953.
346. Freedman, Jacob, Petrology and mineralogy of some radioactive Tertiary intrusive rocks from the northern Black Hills, South Dakota.*
347. Welch, Stewart W., Radioactivity of coal and associated rock in the coal fields of eastern Kentucky.*
348. Welch, Stewart W., Radioactivity of coal and associated rocks in the anthracite fields of eastern Pennsylvania.*
349. Overstreet, W. C., Theobald, P. K., Jr., White, A. M., Cuppels, N. P., Caldwell, D. W., and Whitlow, J. W., Progress report of south-eastern monazite exploration, 1952: (Official use only). April 1953.
350. Hill, J. W., Summary of reconnaissance for radioactive materials in the south-central states.*
351. Sharp, W. N. and Cavender, W. S., The geology and vein deposits of the Lemhi Pass area, Lemhi County, Idaho, and Beaverhead County, Montana.*
352. Johnson, H. S., Jr., Reconnaissance for uranium in the southeastern states, 1953.*

353. Olson, J. C. and Wallace, S. R., Thorium in the Powderhorn district, Gunnison County, Colorado.*
354. Christman, R. A., and others, Wet Mountain thorium investigations, 1952-54, Fremont and Custer Counties, Colorado.*
355. Page, L. R., and others, Black Hills uranium deposits, South Dakota.*
- 356.
- 357.
- 358.
- 359.
360. Cheney, T. M., Smart, R. A., Waring, R. G., and Warner, M. A., Stratigraphic sections of the Phosphoria formation in Utah, 1949-1951: (Official use only). July 1953. (C-306).
361. Cressman, E. R., Wilson, W. H., Tandy, C. W., and Garmoe, W. J., Stratigraphic sections of the Phosphoria formation in Montana, 1949-1950, Part I: (Official use only). July 1953. (C-302).
362. Swanson, R. W., Cressman, E. R., Jones, R. S., and Replogle, B. K., Stratigraphic sections of the Phosphoria formation in Montana, 1949-1950, Part II: (Official use only). July 1953. (C-303).
363. Sheldon, R. P., Waring, R. G., Warner, M. A., and Smart, R. A., Stratigraphic sections of the Phosphoria formation in Wyoming, 1949-1950: (Official use only). July 1953. (C-307).
364. Sheldon, R. P., Warner, M. A., Thompson, M. E., and Peirce, H. W., Stratigraphic sections of the Phosphoria formation in Idaho, 1949, Part I: (Official use only). July 1953. (C-304).
365. Davidson, D. F., Smart, R. A., Peirce, H. W., and Weiser, J. D., Stratigraphic sections of the Phosphoria formation in Idaho, 1949, Part II: (Official use only). July 1953. (C-305).

366. Swanson, V. E., Results of 1952 sampling of Chattanooga shale in Tennessee and adjacent states.*
367. Frondel, Judith W. and Cuttitta, Frank, Studies of uranium minerals: An alteration product of ianthinite: (Unclassified). August 1953.
368. Evans, Howard T., Jr. and Block, Stanley, The crystal structure of montroseite, a vanadium member of the diasporite group: (Unclassified). October 1953. (J-26).
369. Kostyleva, E. E., On metamictic disintegration of the zircon group of minerals (translated by Taisia Stadnichenko): (Unclassified). September 1953. (TIS)*
370. Kinser, Charles A., The model VI transmission fluorimeter for the determination of uranium: (Unclassified). October 1953.
371. Kellagher, Richard, A multiple cone-splitter for rapid sampling in the laboratory: (Unclassified). October 1953.
372. Breger, I. A., Meyrowitz, Robert, and Warr, J. J., Jr., Extraction of uranium from the Red Desert coal of Wyoming: (Unclassified). December 1953.
373. Milkey, Robert G., Stability of metallic ions in dilute solution: (Unclassified). November 1953.
374. Senftle, F. E., Farley, T. A., and Stieff, L. R., Theoretical alpha star populations in loaded nuclear emulsions: (Unclassified). November 1953.
375. Peterson, J. A., Gosman, R. F., and Swanson, R. W., Stratigraphic sections of the Phosphoria formation in Montana, 1951: (Official use only). October 1953. (C-326)*
376. Smart, R. A., Waring, R. G., Cheney, T. M., and Sheldon, R. P., Stratigraphic sections of the Phosphoria formation in Idaho, 1950-51: (Official use only). October 1953. (C-327)*
377. Cheney, T. M., Sheldon, R. P., Waring, R. G., and Warner, M. A., Stratigraphic sections of the Phosphoria formation in Wyoming, 1951: (Official use only). November 1953. (C-324)*
378. Sheldon, R. P., Cressman, E. R., Carswell, L. D., and Smart, R. A., Stratigraphic sections of the Phosphoria formation in Wyoming, 1952: (Official use only). November 1953. (C-325)*
379. Levine, Harry, Rowe, J. J., and Grimaldi, F. S., The molybdenum blue reaction and the determination of phosphorus in waters containing arsenic, silicon, and germanium: (Unclassified). November 1953.

380. Moxham, R. M., Walker, G. W., and Baumgardner, L. H., An investigation of airborne radioactivity anomalies in the Rock Corral area, San Bernardino County, California.*
381. Duncan, Donald C. (compiled by), Reconnaissance investigations for uranium in black shale deposits of the western states during 1951 and 1952.*
382. McKeown, F. A., Klemic, H., and Choquette, P. W., Occurrences of uranium at Clinton, Hunterdon County, N. J.*
383. McKeown, F. A. and Klemic H., Rare earth-bearing apatite at Mineville,, Essex County, N. Y.*
384. Vickers, R. C., Geology and monazite deposits of the Palmer area, Marquette County, Michigan.*
385. Kazakov, A. V., The fluorapatite system of equilibria in the conditions of formation of sedimentary rocks (translated by V. L. Skitsky).*
386. Kazakov, A. V. and Sokolova, E. I., Conditions of the formation of fluorite in sedimentary rocks (translated by V. L. Skitsky).*
387. Moxham, R. M., Airborne radioactivity surveys for phosphate in Florida.*
388. Breger, I. A., Meyrowitz, Robert, and Deul, Maurice, Effects of destructive distillation on the uranium associated with selected naturally occurring carbonaceous substances.*
389. Breger, I. A., Deul, Maurice, Meyrowitz, Robert, and Rubinstein, Samuel, Mineralogy and geochemistry of a uraniferous coal from the Red Desert area, Sweetwater County, Wyoming.*

390. Staff, Geologic investigations of radioactive deposits, semiannual progress report, June 1 to November 30, 1953: (Unclassified). December 1953. (TIS).*
391. Staff, Geologic investigations of radioactive deposits, semiannual progress report, classified data, June 1 to November 30, 1953: (Confidential-Restricted Data). December 1953.
392. Singewald, Quentin D., Search for radioactive intrusive rocks in New Jersey, New York, and New England.*
393. Weeks, A. D., Thompson, M. E., and Sherwood, A. M., Navajoite, a new vanadium oxide from Arizona.*
394. Cathcart, J. B., The aluminum phosphate zone in the Peace River area, land-pebble phosphate field, Florida.*
- 395.
- 396.
- 397.
- 398.
- 399.
400. Wallace, Jane H., Blatcher, Virginia K., and Smith, Harriet B., U. S. Geological Survey Trace Elements and related reports through 1953: (Official use only). January 1954.
401. Senftle, F. E. and Champion, W. R., Table for simplifying calculations of activities produced by thermal neutrons.*

402. Bracken, J. T. and Senftle, F. E., Change of the isotopic abundance ratio within a sphere due to diffusion.*
403. Wilson, E. E., Rhoden, V. C., Vaughn, W. W., and Faul, Henry, Portable scintillation counters for geologic use.*
- 404.
- 405.
- 406.
- 407.
- 408.
- 409.
- 410.
- 411.
- 412.
- 413.
414. /

2. TRACE ELEMENTS MEMORANDUM REPORTS

1. Gott, G. B., Investigation of radioactive springs near Jamestown, Colorado: (Official use only). November 1948.
- 1A. Gott, G. B., Radioactive springs near Jamestown, Colorado: (Official use only). November 1948.
2. Wyant, D. G., Majuba Hill mine, Pershing County, Nevada, preliminary report: (Official use only). November 1948.
- 2A. Wyant, D. G., Majuba Hill mine, Pershing County, Nevada: supplement to preliminary report: (Official use only). November 1949.
- 2B. Wyant, D. G., Majuba Hill mine, Pershing County, Nevada: supplement to preliminary report: (Official use only). February 1949.
3. King, R. U., Josie Bishop claims, Mojave, California, report of reconnaissance examination: (Official use only). January 1949.
4. King, R. U., Schmitt-Mitt property, San Diego County, California: (Official use only). January 1949.
5. King, R. U., Radioactivity in the Jo Reynolds mine, Clear Creek County, Colorado: (Pt. 1 Unclassified; Pt. 2, Official use only). January 1951.
6. Hanley, E. S., Golden Cycle tailings dump, Colorado Springs, Colorado: (Official use only). January 1949.
7. Granger, H. C. and Beroni, E. P., Uranium occurrences in the White Canyon area, San Juan County, Utah: (Pt. 1, Unclassified; Pt. 2, Official use only). December 1950.
- 7A. Fischer, R. P. and King, R. U., Investigation of uranium deposits in White Canyon, San Juan County, Utah: (Confidential). November 1948.
8. Wyant, D. G., The Wheelman Tunnel, Boulder County, Colorado: (Official use only). May 1949.
9. Wyant, D. G., Treasure Hill area, Larimer County, Colorado: (Official use only). April 1949. (TIS; NSA).
- 9A. Wyant, D. G., Spaulding-Woodhams scheelite prospects, Larimer County, Colorado: (Official use only). June 1949.
10. Wyant, D. G., Lost Creek (Wamsutter) schroëckingerite deposit, Sweetwater County, Wyoming: (Official use only). December 1948. (TIS).
- 10A. Wyant, D. G., Lost Creek schroëckingerite deposit, Sweetwater County, Wyoming: (Unclassified). March 1950.

11. King, R. U. and Roberts, W. A., Yerington property, Anaconda Copper Mining Company, Lyon County, Nevada: (Official use only). July 1949.
12. King, R. U. and Roberts, W. A., Henebergh Tunnel, Round Mountain, Nye County, Nevada: (Official use only). July 1949.
13. King, R. U., Vein deposits of uranium at the Caribou mine, Boulder County, Colorado: (Official use only). June 1950. (TIS; NSA).
14. Wyant, D. G., Live Oak Tank area, Joshua Tree National Monument, Riverside County, California: (Official use only). June 1949.
15. Wyant, D. G., Marshall Ranch, Beaumont, Riverside County, California: (Official use only). June 1949.
16. Wyant, D. G., The Wesley R. Collins property, Costa Mesa, Orange County, California: (Official use only). August 1949.
17. Wyant, D. G., The Kramer Hills area, San Bernardino County, California: (Official use only). August 1949.
18. Laurence, R. A., Prospects of Wm. S. King, Newton County, Arkansas, report of reconnaissance examination: (Official use only). May 1949.
19. McKeown, F. A., Preliminary report of uranium deposits near Mauch Chunk, Pennsylvania: (Official use only). June 1949.
20. Granger, H. C. and Beroni, E. P., Cook property, Jefferson County, Colorado: (Unclassified). February 1950.
21. Overstreet, W. C., McKelvey, V. E., and Houser, F. N., Proposed investigations of the Southeastern monazite deposits: (Unclassified). June 1951.
22. King, R. U., A radiometric traverse at the Apex claims (Bates Creek), Gilpin County, Colorado: (Unclassified). August 1950.
23. Mertie, J. B., Jr., Heavy minerals in the Pleistocene terrace deposits of South Carolina and Georgia: (Unclassified). June 1951.
24. King, R. U. and Granger, H. C., Torbernite occurrence at the Robineau claims, Clear Creek County, Colorado: (Pt. 1, Unclassified; Pt. 2, Official use only). June 1950. (TIS; NSA).
25. Beroni, E. P., Granger, H. C., and King, R. U., Radiometric examination of the Williamson and General Chemical fluorite deposits, Jamestown district, Boulder County, Colorado: (Official use only). November 1950.
26. Anderson, F. J., Radiometric reconnaissance in the vicinity of Salmon, Idaho: (Unclassified). August 1950.

27. Gott, G. B., Barbers Hill oil field, Chambers County, Texas: (Official use only). December 1949.
28. Gott, G. B., Uranium-bearing black shales and stylolite fillings in Spergen limestone, Bussen's Quarry, Ste. Genevieve, Missouri: (Unclassified). March 1950.
29. Adams, J. W. and King, R. U., Pitchblende occurrence at the Sunshine mine, Shoshone County, Idaho: (Unclassified). August 1950.
30. Vhay, J. S., Reconnaissance examination for uranium at six mines and properties in Idaho and Montana: (Unclassified). November 1950. (TIS).
31. Klepper, M. R., Forty-Niner, King Solomon Ridge, and West End claims near Clancy, Jefferson County, Montana: (Unclassified). August 1950. (OF; TIS; NSA).
32. Granger, H. C. and Bauer, H. L., Jr., The Eureka and Happy Landing (Cooper-Sands) groups of claims, Uintah County, Utah--a preliminary report: (Pt. 1, Unclassified; Pt. 2, Official use only). May 1950.
33. Granger, H. C. and Bauer, H. L., Jr., Preliminary examination of uranium deposits near Marysville, Piute County, Utah: (Pt. 1, Unclassified; Pt. 2, Official use only). September 1950.
34. White, W. S., Radiometric scanning of collections of Keweenaw rocks of the Michigan copper district: (Unclassified). August 1950.
35. Sharp, W. N., Recommendations for drilling the bastnaesite deposits, Birthday claims, San Bernardino County, California: (Unclassified). May 1950.
36. Wilmarth, V. R., Uranium deposit in the Sheeprock Mountains, Tooele County, Utah: (Official use only). May 1950.
37. Staff, Memorandum discussing some considerations of the production potential of vanadium and uranium ore in the Colorado Plateau and related mill capacity: (Secret). April 1947.
38. Fischer, R. P. and Butler, A. P., Jr., Memorandum recommending physical exploration and geologic studies in the Colorado Plateau uranium region: (Secret). April 1947.
39. Butler, A. P., Jr., Memorandum on thorium resources: (Secret). June 1947.
40. Nolan, T. B., Investigation of the rare-element content in mill and smelter products and in raw materials planned for fiscal year 1948: (Confidential). July 1947.
41. Butler, A. P., Jr., Tailing losses in Idaho placer operations: (Official use only). July 1947.

42. Butler, A. P., Jr., Memorandum on analysis of water samples from the Salton Sea, California: (Confidential). July 1947.
43. Hendricks, T. A., Shale of approximately 0.009 percent uranium content in eastern Tennessee with regard to tonnage, grade and some factors relative to mining: (Confidential). August 1947.
44. Hendricks, T. A., Status of Geological Survey studies of Florida phosphate and plans for additional work: (Secret). August 1947.
45. Hendricks, T. A., Status of current monazite investigations by the Geological Survey: (Secret). August 1947.
46. Rabbitt, J. C., Thorium in Florida phosphate rock: (Secret). August 1947.
47. Hendricks, T. A., Best site for black shale mining on the basis of current data: (Secret). September 1947.
48. Fischer, R. P., Recommendations for exploration on the Colorado Plateau of areas favorable for carnotite deposits: (Official use only). August 1947. (Official use only, 1-20-54)
49. Stead, F. W., Available data on the content of radioactive elements in recent marine sediments and sea water: (Confidential). December 1947.
50. Rabbitt, J. C., Interim report on thorium-bearing limestone from Great Slave Lake, Canada: (Secret). December 1947.
51. Nolan, T. B., Investigation of helium-bearing gases and related rocks: (Confidential). January 1948.
52. Stead, F.W., Investigation of gamma-ray well logs: (Confidential). February 1948.
53. Carr, W. J., Reconnaissance of the Green River oil shales: (Confidential). March 1948.
- 53A. Staff, Results of radioactivity determinations on Green River oil shale: (Confidential). August 1948.
54. Wyant, D. G., Investigation of the Staats fluorite mine, Utah: (Secret). March 1948.
55. Nolan, T. B., Summary of results of investigation of copper ores for radioactivity and status of current work: (Confidential). March 1948.
56. Staff, Monazite in concentrates from Idaho placer operations: (Unclassified). March 1948.
57. Stieff, L. R., Carnotite mineralogical research: (Confidential). April 1948.

58. Nolan, T. B., Occurrence of uranium in Nevada, memorandum to AEC (AEC-218/8): (Secret). April 1948. (Declassified, 4-6-54).
59. Staff, Radioactivity of recent sediments, salt and fresh water: (Confidential). May 1948.
60. Carr, W. J., Uranium deposit in Moffat County, Colorado: (Unclassified). May 1948.
61. Nolan, T. B., Mill sampling program, memorandum to AEC (AEC-274/8): (Confidential). June 1948.
62. Nolan, T. B., Status of the Northwest Phosphate project with respect to areas for intensive exploration: (Secret). June 1948.
63. Brown, Andrew, Experimental drilling in Chattanooga shale: (Secret). July 1948. (Declassified, 3-4-54)
64. Staff, Some factors related to western phosphate development: (Secret). June 1948.
65. Staff, Western phosphate program, sampling and mill studies: (Secret). August 1948.
66. Keiser, H. D., Zirconium, memorandum to AEC: (Secret). August 1948.
67. Kinney, D. M., Investigation of reported uranium occurrence near Beaumont, California: (Unclassified). August 1948.
68. Stieff, L. R., A progress report on some methods of study of the mineralogy of the Colorado Plateau carnotites: (Unclassified). September 1948.
69. Staff, Beryl deposits of the Mt. Antero region, Chaffee County, Colorado: (Unclassified). September 1948.
70. Staff, Samples for metallurgical testing from the Anaconda Copper Mining Company's phosphate mine at Conda, Idaho: (Confidential). October 1948.
71. Guinan, W. A., Status of mill products and raw materials project: (Confidential). October 1948.
72. Schaller, W. T., Beryl, preliminary statement: (Unclassified). November 1948.
73. Staff, Preliminary notes on distribution of uranium in the Florida pebble phosphate field and suggestions for study and sampling: (Confidential). January 1949.
74. Stieff, L. R., Use of isotopes in geological investigations: (Unclassified). March 1949.

75. Staff, Geological work of the Geological Survey for the Atomic Energy Commission that would be of special interest to petroleum geologists: (Official use only). March 1949.
76. Butler, A. P., Jr., Metallurgical research on beryllium-bearing rocks other than pegmatites: (Official use only). April 1949.
77. Hilpert, L. S. and Fischer, R. P., Problems relating to ore recently discovered on Outlaw Mesa: (Confidential). April 1949.
78. Staff, Extent of investigations by the Geological Survey of various types of materials suggested by Mr. Wallace E. Pratt, consultant to the Atomic Energy Commission: (Confidential). May 1949.
79. Staff, Carnotite deposits on government-owned claims, Calamity Mesa, Mesa County, Colorado: (Unclassified). May 1949.
80. Trace, R. D., Results of drilling on the Radium group and associated claims near Egnar, San Miguel County, Colorado: (Confidential). March 1949.
81. Nolan, T. B., Highlights of the Geological Survey's program for the Atomic Energy Commission in fiscal year 1949: (Secret). August 1949.
82. Hilpert, L. S., Additional drilling on the Upper group and on the Ellison and Burro claims, San Miguel County, Colorado: (Unclassified). July 1949.
83. Staff, A tentative estimate of tonnage and grade of the leached zone and slime ponds in the Florida phosphate field: (Confidential). September 1949.
84. Stead, F. W., Evaluation of ratemeter type 1011: (Unclassified). September 1949.
85. Cathcart, J. B., Results of mine sampling program, Florida pebble phosphate field: (Secret). October 1949.
86. Guinan, W. A., Record of spectrographic cobalt (CoO) analyses of samples collected under the Mill and Raw Materials Sampling Project: (Official use only). October 1949; supplemental list, March 1950.
87. Staff, Progress on airborne radiation detection: (Unclassified). December 1949.
88. Staff, Progress on carborne radiation detection: (Unclassified). December 1949.
89. Altschuler, Z. S., Progress on Florida phosphate mineralogy: December 1949.

90. Stieff, L. R., Progress on carnotite mineralogy:
December 1949.
91. Staff, Summary of Alaskan reconnaissance investigations in the 1949 field season and proposals for field season of 1950. (Unclassified). December 1949.
92. Staff, Progress on Barnaby gamma-ray logging:
December 1949.
93. Staff, Gamma-ray well logs, progress report:
January 1950.
94. Botinelly, Theodore, Northwest phosphate mineralogy, progress report:
(Unclassified). January 1950.
95. Botinelly, Theodore, Shale mineralogy, progress report: (Unclassified).
January 1950.
96. Staff, Wamsutter (Red Desert) area, Wyoming, progress report: (Unclassified).
January 1950. (OF; TIS; NSA).
97. Staff, Colorado Front Range area, progress report: (Unclassified).
January 1950. (OF; TIS; NSA).
98. Altschuler, Z. S., A progress report on the Geological Survey's work in determining the nature of the phosphate in the washer plant waste slimes from the Florida phosphate deposits: (Unclassified).
January 1949.
99. Phoenix, D. A., Preliminary plans for ground-water studies: (Official use only).
December 1949.
100. Joesting, H. R., Recommendation for geophysical investigation in the Colorado Plateau: (Unclassified). February 1950.
101. Blackman, D. H., Geologic guides to carnotite deposits, progress report:
(Unclassified). March 1950.
102. King, R. U., Investigations in the Wood mine, Colorado: (Unclassified).
February 1950. (TIS; NSA).
103. Stager, H. K., Results of diamond-drill exploration in 1949 and plans for additional drilling on Outlaw Mesa and vicinity, Mesa County, Colorado: (Official use only). February 1950.
104. Thurston, W. R., Exploration of the Buckhorn mica mine, Larimer County, Colorado: (Unclassified). April 1950. (OF).
105. Thurston, W. R., Exploration of the Hyatt pegmatite, Larimer County, Colorado: (Unclassified). June 1950. (OF).

106. Thurston, W. R., Exploration of the Big Boulder prospect, Larimer County, Colorado: (Unclassified). August 1950. (OF).
107. McNeal, R. P., Reconnaissance in oil fields in Lea County, New Mexico: (Unclassified). June 1950.
108. Hall, R. B. and Moore, F. B., Results of geologic studies and diamond-drilling in the northwest Carrizo area, Apache County, Arizona: (Official use only). July 1950.
109. Phoenix, D. A., Progress of ground-water studies, May 1950, Colorado Plateau Project: (Unclassified). June 1950.
110. Stephens, H. G., Diamond-drill exploration in Long Park and vicinity, Montrose County, Colorado: (Official use only). May 1950.
111. Bryner, Leonid, Preliminary appraisal of the results of diamond-drill exploration on Club Mesa, Montrose County, Colorado: (Official use only). June 1950.
112. Bell, Henry, III, and Icke, H. M., Preliminary appraisal of diamond-drill exploration in the Spud Patch area, San Miguel County, Colorado: (Official use only). July 1950.
113. Bell, Henry, III, Results of diamond-drill exploration and plans for additional drilling in the Legin group area, San Miguel County, Colorado: (Official use only). August 1950.
114. Withington, C. F., Preliminary appraisal of diamond-drill exploration in the Upper group area, San Miguel County, Colorado: (Official use only). August 1950.
115. Shoemaker, E. M., Preliminary appraisal of diamond-drill exploration in the Jo Dandy area, Montrose County, Colorado: (Official use only). August 1950.
116. Cathcart, J. B., Progress report on gamma-ray logging, land-pebble phosphate field, Florida: (Unclassified). July 1951.
117. Granger, H. C. and Bauer, H. L., Jr., Uranium occurrences on the Blue Jay claim, White Signal district, Grant County, New Mexico: (Pt. 1, Unclassified; Pt. 2, Official use only). June 1951.
118. Granger, H. C., Preliminary investigation of radioactivity in the Black Hawk district, Grant County, New Mexico: (Unclassified). October 1950.
119. Granger, H. C. and Bauer, H. L., Jr., Reported occurrence of pitchblende, Black Range, Grant and Sierra Counties, New Mexico: (Unclassified). December 1950.
120. Gillerman, Elliot and Granger, H. C., The Hines and Langford uraniferous fluorspar prospects, Grant County, New Mexico: (Unclassified). January 1952.

121. Bauer, H. L., Jr., Apache Trail uranium prospect, White Signal district, Grant County, New Mexico: (Pt. 1, Unclassified; Pt. 2, Official use only). June 1951.
122. Love, J. D., Uranium content of middle Pennsylvanian black shales penetrated in wells in southeastern Wyoming: (Unclassified). June 1951.
123. Davidson, D. F. and Wayland, T. E., Uranium and phosphate in the eastern part of the Bonny Lake mine, Polk County, Florida: (Official use only). May 1951.
124. Deul, Maurice, Summary report on public samples received 1949-50, Trace Elements Section Washington Laboratory, Geochemistry and Petrology Branch: (Unclassified). June 1951.
125. Johnson, D. H., A torbernite deposit near Stockton, Hunterdon County, New Jersey: (Unclassified). August 1950.
126. Wyant, D. G. and Beroni, E. P., Some preliminary estimates of potential reserves of western uraniferous lignites: (Secret). May 1950.
127. Klepper, M. R., Comstock claims near Basin, Jefferson County, Montana: (Unclassified). August 1950.
128. Granger, H. C. and King, R. U., Report of factual data obtained during examination of Copper King shaft, Black Hawk claim No. 1, Larimer County, Colorado: (Unclassified). May 1950.
- 128A. Granger, H. C. and King, R. U., Uranium in the Copper King mine, Black Hawk No. 1 claim, Larimer County, Colorado: (Unclassified). April 1951.
129. McNeal, R. P., Radioactivity in the Yellowhouse field, Hockley County, Texas: (Unclassified). June 1950.
130. Cathcart, J. B., Reserves of uranium in the leached zone in the Gooch, Carlton Helms tract of the International Minerals and Chemical Corporation, Polk County, Florida: (Official use only). May 1950.
131. Hill, J. W., Radon-bearing gas in the Amarillo helium district, Texas: (Unclassified). August 1950.
132. Gott, G. B., The Leyden uranium prospect, Jefferson County, Colorado: (Unclassified). November 1950.
133. Beroni, E. P. and King, R. U., The Mike Doyle carnotite deposit, El Paso County, Colorado: (Pt. 1, Unclassified; Pt. 2, Official use only). October 1950. (TIS).
134. Granger, H. C. and Bauer, H. L., Jr., A radiometric examination of the Tunnel Site No. 1 claim, Grant County, New Mexico: (Unclassified). December 1950.

135. Faul, Henry and Sakakura, A. Y., Preliminary report on gamma-ray distribution in cylindrical cavities (drill holes): (Unclassified). June 1951.
136. Chace, F. M., An autunite deposit in the Rosamond Hills, Kern County, California: (Unclassified). August 1950.
137. Phoenix, D. A., Preliminary statement of the analyses of ground water from the Morrison formation, southwestern Colorado and southeastern Utah: (Unclassified). August 1951.
138. Cathcart, J. B., Davidson, D. F., Dutro, H. B., Ketner, K. B., Petersen, R. G., Tillman, C. G., and Pratt, J. B., Reserves of phosphate rock and leached-zone material that will be mined by January 1956, land-pebble phosphate field, Florida: (Confidential). September 1951.
139. Bauer, H. L., Jr., Radioactive ilmenite, Virginia claim, Hillsboro mining district, Sierra County, New Mexico: (Unclassified). October 1950.
140. Roberts, W. A. and Gude, A. J., 3rd, Geology of the area adjacent to the Free Enterprise uranium-silver mine, Boulder district, Jefferson County, Montana: (Unclassified). March 1952. (B-988-G).
141. McNeal, R. P., Reconnaissance of the Howard-Glasscock oil field, Howard and Glasscock Counties, Texas: (Unclassified). August 1950.
142. Flanagan, F. J., Nelson, J. M., and Warr, J. J., Jr., Modification to Tracerlab automatic sample changer: (Unclassified). June 1950.
143. Stugard, Frederick, Jr., Nickel and cobalt prospect, Cobalt, Middlesex County, Connecticut: (Unclassified). November 1950.
144. Hewett, D. F., Uranium occurrence at the Hoerner-Ross pegmatite, Cady Mountains, San Bernardino County, California: (Unclassified). July 1950.
145. Kaiser, E. P., The Papsy's Hope autunite prospect, Marysvale district, Piute County, Utah: (Pt. 1, Unclassified; Pt. 2, Official use only). July 1950. (TIS).
146. Granger, H. C. and Bauer, H. L., Jr., Results of diamond drilling, Merry Widow claim, White Signal, Grant County, New Mexico: (Unclassified). July 1950. (TIS; NSA).
147. Nelson, R. A., Sharp, W. N., and Stead, F. W., Airborne radioactivity survey of the Red Desert region, Sweetwater County, Wyoming: (Unclassified). July 1951. (TIS; NSA).
148. Brobst, D. A., Radioactivity at the Armentrout property, Erbacon, Webster County, West Virginia: (Unclassified). December 1950.

149. Jaffe, E. B. and Sherwood, A. M., Physical and chemical comparison of modern and fossil tooth and bone material: (Unclassified). August 1951. (OF; TIS; NSA).
150. Bauer, H. L., Jr., Klinger, F. L., and Page, L. R., A uranium prospect, Black Hill, Sevier County, Utah: (Unclassified). October 1950.
151. Bauer, H. L., Jr., and Klinger, F. L., Monzonite in Dry Creek Canyon, Sevier Plateau, Sevier County, Utah: (Unclassified). October 1950.
152. Page, L. R. and Redden, J. A., The carnotite prospects of the Craven Canyon area, Fall River County, South Dakota: (Pt. 1, Unclassified; Pt. 2, Official use only). January 1952. (C-175).
153. Harrison, J. E. and Leonard, B. F., Preliminary report on the Jo Reynolds area, Lawson-Dumont district, Clear Creek County, Colorado: (Pt. 1, Unclassified; Pt. 2, Official use only). March 1952. (C-213).
154. Adams, J. W., Gude, A. J., 3rd, and Beroni, E. P., Uranium occurrences in the Golden Gate Canyon and Ralston Creek areas, Jefferson County, Colorado: (Pt. 1, Unclassified; Pt. 2, Official use only). January 1953. (C-320*; J-1).
155. Conant, L. C., Examination of drill cores of the Tennessee Coal, Iron, and Railroad Company, Jefferson County, Alabama: (Official use only). August 1950.
156. Fischer, R. P., Uranium and vanadium potential of the Colorado Plateau: (Secret). July 1950.
157. Cathcart, J. B., Extent, thickness, and grade of the leached zone in the land-pebble phosphate field, Polk and Hillsborough Counties, Florida, a progress report: (Secret). November 1950.
158. White, W. S. and Wright, J. C., Radioactivity of the Nonesuch shale, White Pine mine, Ontonagon County, Michigan: (Unclassified). October 1950.
159. James, H. L., Field investigation of airborne radioactivity anomalies in Marquette County, Michigan: (Unclassified). August 1950.
160. Bauer, H. L., Jr., Autunite at the Monarch No. 2, MoneyMaker, and Wild Irishman claims, White Signal district, Grant County, New Mexico: (Unclassified). December 1950.
161. Stead, F. W., Airborne radioactivity survey in the vicinity of Grants, McKinley, and Valencia Counties, New Mexico: (Unclassified). July 1951.
162. Staatz, M. H., Uranium prospect, Jan Group, Juab County, Utah: (Unclassified). September 1950.

163. Cannon, H. L., Geobotanical reconnaissance for uranium in the Craven Canyon area, Fall River County, South Dakota: (Official use only). March 1953.
164. Stugard, Frederick, Jr., and Klinger, F. L., Tiger Eye No. 1 uranium prospect, Sevier County, Utah: (Unclassified). December 1950.
165. Staatz, M. H. and Bauer, H. L., Jr., Preliminary examination of the uranium prospect at the Spider No. 1 claim, Honeycomb Hills, Juab County, Utah: (Unclassified). October 1950. (TIS).
166. Bales, W. E. and Erickson, R. L., Carnotite deposits in Craven and Coal Canyons, Fall River County, South Dakota: (Official use only). March 1952.
167. Staatz, M. H. and Bauer, H. L., Jr., A preliminary report on radioactive deposits, Thomas Range, Juab County, Utah: (Unclassified). September 1950. (TIS).
168. Ketner, Keith B., The aluminum phosphate zone of the hardrock phosphate belt, Florida.*
169. Wyant, D. G., Stugard, Frederick, Jr., and Kaiser, E. P., Uranium resources in the Marysvale region, Utah: (Official use only). September 1950.
170. Blackman, D. H., Geologic guides to carnotite deposits on the Colorado Plateau: (Unclassified). August 1950.
171. Rogers, A. S., Distribution of leached radioactive material in the Legin group area, San Miguel County, Colorado: (Unclassified). November 1950.
172. Cathcart, J. B., Estimated production, 1951-55, and uranium content of phosphate products, land-pebble field, Florida: (Secret). September 1950.
173. Phair, George and Onoda, Kiyoko, Verification of uraninite in fluorite breccias from the Blue Jay mine, Jamestown, Colorado: (Official use only). October 1950.
174. Rabbitt, J. C., Numerical summary of the analytical work of the Trace Elements Section, Geochemistry and Petrology Branch, for the fiscal year 1950: (Unclassified). October 1950.
175. Denson, N. M., Bachman, G. O., and Zeller, H. D., Summary of new information on uraniferous lignites in the Dakotas: (Confidential). January 1951.
176. Trace, R. D., Preliminary reserve statement 1, Reserve Block 1, Club Mesa, Montrose County, Colorado: (Official use only). September 1950.

177. Trace, R. D., Preliminary reserve statement 2, Reserve Blocks 3 and 4, Club Mesa, Montrose County, Colorado: (Official use only). September 1950.
178. Trace, R. D., Preliminary reserve statement 3, Reserve Block 5 (east part), Club Mesa, Montrose County, Colorado: (Official use only). September 1950.
179. Trace, R. D., Preliminary reserve statement 4, Reserve Block 5 (west part), Club Mesa, Montrose County, Colorado: (Official use only). September 1950.
180. Bush, A. L., Preliminary reserve statement 5, Reserve Block A, Otero and Eloisa claims, Legin group, San Miguel County, Colorado: (Official use only). September 1950.
181. Trace, R. D., Preliminary reserve statement 6, Reserve Blocks 1, 2, and 3, Veta Mad and Veta Glad claims, Georgetown group, San Miguel County, Colorado: (Official use only). September 1950.
182. Trace, R. D., Preliminary reserve statement 7, Reserve Blocks 5, 6, and 7, Georgeto claim, Georgetown group, San Miguel County, Colorado: (Official use only). September 1950.
183. Page, L. R., Interim report of geologic investigation, Lost Creek schroeckingerite deposits, Sweetwater County, Wyoming: (Unclassified). October 1950. (OF; TIS; NSA).
184. Trace, R. D., Preliminary reserve statement 8, Reserve Block 2, Club Mesa, Montrose County, Colorado: (Official use only). October 1950.
185. Trace, R. D., Preliminary reserve statement 9, Reserve Block A, Outlaw Mesa, Mesa County, Colorado: (Official use only). October 1950.
186. Brasher, G. K. and Jobin, D. A., Preliminary reserve statement 10, Reserve Blocks B and C, Mineral Channels Nos. 10 and 12 claims, Outlaw Mesa, Mesa County, Colorado: (Official use only). March 1951.
187. Newman, W. L., Preliminary reserve statement 11, Reserve Block A, Long Park vicinity, Montrose County, Colorado: (Official use only). March 1951.
188. Stephens, H. G., Preliminary reserve statement 12, Reserve Block B, Long Park Vicinity, Montrose County, Colorado: (Official use only). March 1951.
189. Brasher, G. K. and Jobin, D. A., Preliminary reserve statement 13, Reserve Blocks D, E, F, and G, Outlaw Mesa, Mesa County, Colorado: (Official use only). April 1951.

190. Bell, Henry, III, Preliminary reserve statement 14, Reserve Blocks B and C, Legin Group area, San Miguel County, Colorado: (Official use only). May 1951.
191. Bell, Henry, III, Preliminary reserve statement 15, Reserve Block D, Legin Group area, San Miguel County, Colorado: (Official use only). May 1951.
192. Bell, Henry, III, and Cramer, M. A., Preliminary reserve statement 16, Reserve Blocks E, F, and G, Legin Group area, San Miguel County, Colorado: (Official use only). August 1951.
193. Stephens, H. G. and Cramer, M. A., Preliminary reserve statement 17, Reserve Blocks C and D, Long Park area, Montrose County, Colorado: (Official use only). October 1951.
194. McKelvey, V. E., Rare earths in western phosphate rocks: (Unclassified). October 1950.
195. Denson, N. M., Uranium content of coal samples from the Mountain Home coal mine, Converse County, Wyoming: (Unclassified). October 1950.
196. Fischer, R. P. and Davis, W. E., Status of plans for Geological Survey work in the Carrizo Mountains area, Arizona and New Mexico: (Official use only). November 1950.
197. Vhay, J. S., Reconnaissance radiometric examination of Spokane Molybdenum Mines property, Lincoln County, Washington: (Unclassified). October 1950.
198. Moore, F. B. and Butler, C. R., Pitchblende deposits at the Wood and Calhoun mines, Central City mining district, Gilpin County, Colorado: (Pt. 1, Unclassified; Pt. 2, Official use only). October 1950. (C-186).
199. Cannon, H. L., Preliminary report on geobotanical prospecting studies on the Colorado Plateau: (Unclassified). February 1951.
200. Bell, Henry, III, Preliminary appraisal of diamond-drill exploration in the Legin group area, San Miguel County, Colorado: (Official use only). February 1951.
201. Stephens, H. G. and Newman, W. L., Preliminary report on diamond-drill exploration and plans for additional drilling in Long Park and vicinity, Montrose County, Colorado: (Official use only). June 1951.
202. Brasher, G. K. and Jobin, D. A., Results of diamond-drill exploration and plans for additional drilling on Outlaw Mesa, Mesa County, Colorado: (Official use only). April 1951.

203. Fischer, R. P., Recommendations for a shift in emphasis of diamond-drilling on the Colorado Plateau: (Official use only). April 1951.
204. Bryner, Leonid and Withington, C. F., Interim report of diamond-drill exploration, Club Mesa, Montrose County, Colorado: (Official use only). May 1951.
205. Fischer, R. P., MacKallor, Jules, and Brown, C. N., Base maps of a part of the Thompsons district, Grand County, Utah: (Unclassified). February 1952. (OF).
206. Sample, R. D. and Albee, H. F., Claim map, Pine Mountain quadrangle, Mesa County, Colorado: (Official use only). August 1951.
207. Sample, R. D. and Albee, H. F., Claim map, Calamity Mesa quadrangle, Mesa County, Colorado: (Official use only). August 1951.
208. Sample, R. D. and Albee, H. F., Claim map, Naturita NW quadrangle, Montrose and San Miguel Counties, Colorado: (Official use only). August 1951.
209. Craig, L. C. and Freeman, V. L., Recommendations on geologic mapping and exploration of the Morrison formation in the northern Chuska Mountains, Arizona and New Mexico: (Official use only). January 1951.
210. Kaiser, E. P., Uraniferous quartzite, Red Bluff prospect, Gila County, Arizona: (Pt. 1, Unclassified; Pt. 2, Official use only). January 1951. (C-137).
211. Wyant, D. G., The East Slope No. 2 uranium prospect, Piute County, Utah: (Pt. 1, Unclassified; Pt. 2, Official use only). January 1951. (C-322)*
212. Wyant, D. G. and Stugard, Frederick, Jr., Indian Creek uranium prospects, Beaver County, Utah: (Pt. 1, Unclassified; Pt. 2, Official use only). January 1951. (OF).
213. Beroni, E. P., McKeown, F. A., Stugard, Frederick, Jr., and Gott, G. B., Uranium deposits on the Bulloch group of claims, Kane County, Utah: (Unclassified). January 1951. (C-239).
214. Stugard, Frederick, Jr., Uranium resources in the Silver Reef (Harrisburg) district, Washington County, Utah: (Pt. 1, Unclassified; Pt. 2, Official use only). January 1951. (OF).
215. Moore, F. B., King, R. U., and Hinrichs, E. N., Proposed exploration for uranium in the Front Range mineral belt, Colorado: (Official use only). January 1951.
216. Kaiser, E. P., Radioactivity at the Jim Kane mine, Mohave County, Arizona: (Unclassified). January 1951.

- 217. Kaiser, E. P., Red Hills (Tate) uranium prospect, Mohave County, Arizona: (Unclassified). January 1951.
- 218. Singewald, Q. D., Christman, R. A., and Brock, M. R., Preliminary report on 1952 field investigations in Wet Mountains, Colorado: (Official use only). January 1953.
- 219. Granger, H. C., An occurrence of radioactive pyromorphite, Golondrina claims, Graham County, Arizona: (Unclassified). January 1951.
- 220. Bauer, H. L., Jr., and Staatz, M. H., Uranium occurrence on the Autunite No. 8 claim, east side of the Thomas Range, Juab County, Utah: (Pt. 1, Unclassified; Pt. 2, Official use only). July 1951.
- 221. Wyant, D. G., Proposed exploration, Papsy's Hope No. 2 uranium prospect, Piute County, Utah: (Official use only). January 1951.
- 222. Gott, G. B., Garo uranium deposits, Park County, Colorado: (Pt. 1, Unclassified; Pt. 2, Official use only). June 1951.
- 223. Staatz, M. H., Stalin's Present uranium prospect, Pershing County, Nevada: (Pt. 1, Unclassified; Pt. 2, Official use only). August 1951.
- 224. Singewald, Q. D., Wilmarth, V. R., Pierson, C. T., and Vickers, R. C., Radioactive inclusions in Chalk Mountain rhyolite, Lake County, Colorado.*
- 225. Cannon, Ralph S., Jr., Radioactivity of alluvium downstream from uranium deposits: (Official use only). April 1953.
- 226. Staatz, M. H. and Bauer, H. L., Jr., Uranium-bearing lignite beds at the Gamma property, Churchill County, Nevada: (Unclassified). June 1951.
- 227. Staatz, M. H. and Bauer, H. L., Jr., Virgin Valley opal district, Humboldt County, Nevada: (Pt. 1, Unclassified; Pt. 2, Official use only). May 1951. (C-142).
- 228. Staatz, M. H. and Bauer, H. L., Jr., Uranium in the East Walker River area, Lyon County, Nevada: (Pt. 1, Unclassified; Pt. 2, Official use only). August 1951. (B-988-C).
- 229. Roberts, W. A. and Gude, A. J., 3rd, Uranium-bearing deposits west of Clancey, Jefferson County, Montana: (Pt. 1, Unclassified; Pt. 2, Official use only). June 1951. (B-988-F; OF).
- 230. Wayland, T. E., Preliminary report on drilling in the eastern part of the Bonny Lake mine, Polk County, Florida: (Official use only). December 1950.

231. Petersen, R. G., Uranium and phosphate in the western part of the Bonny Lake mine, Polk County, Florida: (Official use only). May 1951.
232. Davis, W. E., Electrical resistivity investigations of carnotite deposits in the Colorado Plateau: (Unclassified). April 1951. (TIS).
233. Ketner, K. B., Uranium and phosphate in the Hamilton tract, Polk County, Florida: (Official use only). April 1951.
234. Davidson, D. F., Cathcart, J. B., and Ketner, K. B., Some results of channel sampling, Southeast Phosphate project, March 1949- July 1951: (Confidential). August 1951.
235. Wedow, Helmuth, Jr., White, M. G., and Moxham, R. M., Interim report on an appraisal of the uranium possibilities of Alaska: (Unclassified). March 1951. (OF).
236. McKelvey, V. E., Cathcart, J. B., and Worthing, H. W., Preliminary note on the minor-metal content of Florida phosphate rock: (Unclassified). January 1951. (TIS).
237. Altschuler, Z. S., Jaffe, E. B., and Dwornik, Edward, The stratigraphy of the upper part of the Bone Valley formation and its relation to the leached zone: (Official use only). May 1951.
238. Altschuler, Z. S., The petrography and uranium content of phosphates from Morocco: (Official use only). November 1951.
239. Faul, Henry, Manger, G. E., and Sakakura, A. Y., Radon in the helium-bearing natural gas of the Texas Panhandle: (Unclassified). February 1951.
240. Narten, P. F., Crawford, J. E., and Butler, A. P., Jr., Summary review of analytical data pertaining to the uranium content or radioactivity of domestic shales: (Confidential). January 1951.
241. Butler, A. P., Jr., and Bush, A. L., Inspection of carnotite deposits near Mauch Chunk, Carbon County, Pennsylvania: (Official use only). February 1951.
242. Finch, W. I., Preliminary report on diamond-drill exploration of parts of Blue and Moon Mesas, Mesa County, Colorado: (Official use only). February 1951.
243. Carr, W. J., Cathcart, J. B., and Gray, C. H., Jr., Distribution of uranium in phosphate products of the land-pebble phosphate field, Florida: a progress report: (Official use only). June 1952.
244. Wyant, D. G. and Sheridan, D. M., Interim report, Lost Creek schroeckingerite deposit, Sweetwater County, Wyoming: (Official use only). May 1951.

245. Swanson, R. W., Uranium content of the phosphate rock mined in Powell County, Montana, and treated in Canada: (Official use only). April 1951.
246. Davidson, D. F., Uraniferous phosphate rock near Charleston, Charleston County, South Carolina: (Pt. 1, Unclassified; Pt. 2, Official use only). May 1951.
247. Smith, J. F., Jr., Preliminary report on geologic studies in the Capitol Reef area, Wayne County, Utah: (Unclassified). November 1951.
248. Mertie, J. B., Jr., Monazite in the southeastern states: (Unclassified). March 1951.
249. Gott, G. B., Smith, J. F., Jr., and McKelvey, V. E., Plans for the Geological Survey's investigations of uranium in pre-Morrison formations in southern Utah, northern Arizona, and northwestern New Mexico: (Official use only). March 1951.
250. Rabbitt, J. C., Numerical summary of the analytical work of the Trace Elements Section, Geochemistry and Petrology Branch, for fiscal year 1951: (Unclassified). August 1951.
251. Weeks, A. D., Red and gray clay underlying ore-bearing sandstone of the Morrison formation in western Colorado: (Unclassified). May 1951. (OF; TIS; NSA).
252. Fletcher, M. H. and Warner, E. R., A fluorimeter for solutions: (Unclassified). April 1951. (C-311*, OF; TIS; NSA).
253. Cathcart, J. B., Recommendations for prospecting for uranium in the land-pebble phosphate field, Florida: (Official use only). April 1951.
254. Page, L. R., Proposed beryllium program: (Official use only). June 1951.
255. Stewart, R. H., Radiometric reconnaissance examination in southeastern Pennsylvania and western New Jersey: (Official use only). December 1951. (TIS).
256. Bryner, Leonid and Cramer, M. A., Preliminary reserve statement 18, Reserve Block 6, Club Mesa, Montrose County, Colorado: (Official use only). October 1951.
257. Bell, Henry, III, and Cramer, M. A., Preliminary reserve statement 19, supplemental report on Reserve Block F, Legin Group area, San Miguel County, Colorado: (Official use only). November 1951.
258. Brasher, G. K., Preliminary reserve statement 20, Reserve Blocks H, I, J, K, L, M, and N, Outlaw Mesa, Mesa County, Colorado: (Official use only). November 1951.

259. Bell, Henry, III, and Cramer, M. A., Preliminary reserve statement 21, Reserve Blocks A and B, Spud Patch area, San Miguel County, Colorado: (Official use only). January 1952.
260. Bryner, Leonid and Cramer, M. A., Preliminary reserve statement 22, Reserve Block 7, Club Mesa, Montrose County, Colorado: (Official use only). January 1952.
261. Bryner, Leonid and Cramer, M. A., Preliminary reserve statement 23, Reserve Block 8, Club Mesa, Montrose County, Colorado: (Official use only). March 1952.
262. Jobin, D. A., Preliminary reserve statement 24, Reserve Block A, Dolores Bench, Montrose County, Colorado: (Official use only). November 1952.
263. Jobin, D. A., Preliminary reserve statement 25, Reserve Block B, Dolores Bench, Montrose County, Colorado: (Official use only). November 1952.
264. Jobin, D. A., Preliminary reserve statement 26, Reserve Block C, Dolores Bench, Montrose County, Colorado: (Official use only). November 1952.
265. Jobin, D. A., Preliminary reserve statement 27, Reserve Block A, Atkinson Mesa, Montrose County, Colorado: (Official use only). February 1953.
266. Sample, R. D. and Albee, H. F., Claim map, Atkinson Creek quadrangle, Montrose County, Colorado: (Official use only). August 1951.
267. Sample, R. D. and Albee, H. F., Claim map, Davis Mesa quadrangle, Montrose County, Colorado: (Official use only). August 1951.
268. Sample, R. D. and Albee, H. F., Claim map, Bull Canyon quadrangle, Montrose and San Miguel Counties, Colorado: (Official use only). August 1951.
- 268A. Sample, R. D., Albee, H. F., and Stephens, H. G., Claim map, Bull Canyon quadrangle, Montrose County, Colorado: (Official use only). April 1953.
269. Finch, W. I., Preliminary report on diamond-drill exploration of part of Blue Mesa, Mesa County, Colorado: (Official use only). August 1951.
270. Phoenix, D. A., Preliminary report on correlation between the gamma-ray logs and permeability of the ore-bearing sandstone in the Morrison formation, Calamity Mesa, Mesa County, Colorado: (Unclassified). October 1951.
271. McKay, E. J., Large-scale geologic guides to carnotite deposits in the Uravan and Gateway districts, Montrose and Mesa Counties, Colorado: (Unclassified). September 1951.

272. Cannon, H. L., Geobotanical reconnaissance near Grants, New Mexico: (Unclassified). November 1951. (C-264).
273. Cannon, H. L., Preliminary report on geobotanical exploration in the Yellow Cat district, Grand County, Utah: (Unclassified). October 1951.
274. Brew, David A., Preliminary report on exploration in the Atkinson Mesa area, Montrose County, Colorado: (Confidential). June 1953.
275. Bell, Henry, III, Preliminary report on diamond-drill exploration of the Legin group area, San Miguel County, Colorado: (Official use only). October 1951.
276. Fischer, R. P., Hilpert, L. S., Schumacher, J. I., Cater, F. W., Strobell, J. D., Jr., Craig, L. C., Phoenix, D. A., and Trace, R. D., Summary of investigations through 1950 of the carnotite-bearing sandstones of the Colorado Plateau: (Secret). October 1951.
277. Cathcart, J. B., Leached zone material in overburden dumps, land-pebble phosphate district, Florida: a preliminary report: (Official use only). December 1951.
278. Read, C. B., Recent discoveries of radioactive carbonaceous shale, Sandoval County, New Mexico: (Official use only). January 1952.
279. Davidson, D. F., Results of drilling on the Lowe property, Citrus County, Florida: (Official use only). January 1952.
280. Conant, L. C., Summary of the results of investigations of the Chattanooga shale through June 1950: (Confidential). August 1951.
281. Aberdeen, E. J., White, W. F., Sherwood, A. M., Bruce, F. L., and Ferguson, D. E., Interim report on the location of nonsaline uraniferous waters: (Confidential-Restricted Data). November 1952.
282. Love, J. D., Preliminary report on uranium-bearing Pliocene (?) rocks in the Split Rock area, central Wyoming: (Official use only). July 1952.
283. Overstreet, W. C. and Theobald, P. K., Jr., Progress report on investigations of southeastern monazite placers: (Official use only). January 1952.
284. Sheridan, D. M., Plans for geologic exploration of the Lost Creek schroeckingerite deposit, Sweetwater County, Wyoming, during fiscal year 1952: (Official use only). August 1951.
285. Dellwig, L. F. and Gott, G. B., Radioactive deposits on the Haputa Ranch, Custer County, Colorado: (Pt. 1, Unclassified; Pt. 2, Official use only). November 1951.

286. Sharp, W. N. and Cavender, W. S., Preliminary report on the Mineral Hill monazite deposits, Lemhi County, Idaho: (Official use only). April 1953.
287. Dellwig, L. F., Preliminary summary report on the Wet Mountains thorium area, Custer and Fremont Counties, Colorado: (Official use only). December 1951.
288. Sheridan, D. M., Collier, J. T., and Sears, R. S., Results of exploration at Lost Creek schroechingerite deposit, Sweetwater County, Wyoming, July 1951-February 1952--an interim report: (Confidential). July 1952.
- 289.
290. Gott, G. B. and Erickson, R. L., A preliminary summary report of a reconnaissance of sandstone-type copper-uranium deposits in parts of New Mexico, Colorado, Utah, Idaho, and Wyoming: (Official use only). December 1951.
291. Harrison, J. E., The uranium occurrences in the Martha E prospect, Lawson-Dumont district, Clear Creek County, Colorado: (Official use only). April 1952.
292. Gude, A. J., 3rd, and McKeown, F. A., Results of exploration at the Old Leyden coal mine, Jefferson County, Colorado: (Pt. 1, Unclassified; Pt. 2, Official use only). December 1952. (OF).
293. Beroni, E. P. and Whitebread, D. W., Reconnaissance for uranium in Rawhide Buttes area, Niobrara and Goshen Counties, Wyoming.*
294. Bell, Henry, III, Interim report on exploration in the Spud Patch area, San Miguel County, Colorado: (Official use only). January 1952.
295. Brasher, G. K., Preliminary report on diamond-drill exploration on Outlaw Mesa, Mesa County, Colorado: (Confidential). January 1952.
296. Bryner, Leonid and Douglas, R. F., Interim report on exploration on Club Mesa, Montrose County, Colorado: (Confidential). March 1952.
297. Stephens, H. G. and Ekren, E. B., Preliminary report on diamond-drill exploration and plans for additional drilling in Long Park and vicinity, Montrose County, Colorado: (Confidential). January 1952.
298. Bush, A. L. and Bryner, Leonid, Preliminary report on the uranium and vanadium resources of the Entrada sandstone, western San Juan Mountains, Colorado: (Confidential). January 1953.

299. Stewart, J. H., Interim report on exploration of the Moon Mesa and Horse Mesa areas, Mesa and Montrose Counties, Colorado: (Official use only). March 1952.
300. Strobell, J. D., Jr., Preliminary appraisal of the carnotite resources of the Carrizo Mountains area, San Juan County, New Mexico, and Apache County, Arizona: (Confidential). May 1952.
301. Luedke, R. G. and Shoemaker, E. M., Tectonic map of the Colorado Plateau (including text "Structural setting of the Colorado Plateau," by E. M. Shoemaker): (Unclassified). 1952. (OF; NSA).
302. Vogel, J. D., Interim report on exploration of the Jo Dandy area, Montrose County, Colorado: (Confidential). March 1953.
303. Hilpert, L. S., Preliminary report on exploration in the Spud Patch area, San Miguel County, Colorado: (Official use only). July 1952.
304. Granger, H. C., Preliminary summary of reconnaissance for uranium in Arizona: (Official use only). August 1951.
305. Koozy, Gerta, Further uranium determinations on sea water samples (translated by J. B. Lyons): (Unclassified). September 1951.
306. Sakakura, A. Y., Theory of gamma-ray logging: preliminary calculations: (Unclassified). December 1951. (TIS; NSA).
307. Wilmarth, V. R., Preliminary report on the thucholite deposits near Placerville, San Miguel County, Colorado: (Official use only). September 1951.
308. McKeown, F. A. and Gude, A. J., 3rd., Preliminary report on the carnotite deposits of the Old Leyden coal mine, Jefferson County, Colorado: (Official use only). September 1951.
309. Bachman, G. O. and Read, C. B., Results of recent reconnaissance investigations of uranium in coal, black shale, and related deposits, in Sandoval and Rio Arriba Counties, New Mexico: (Official use only). September 1951.
310. Burbank, W. S. and Pierson, C. T., Preliminary results of radiometric reconnaissance of parts of the northwestern San Juan Mountains, Gunnison, Ouray, San Juan, San Miguel, and Dolores Counties, Colorado: (Official use only). March 1952. (C-236).
311. Bell, K. G., Progress in development of gamma-ray logging instruments and techniques: (Unclassified). October 1951.
312. Suess, H. E., An outline of a research program on the cosmic abundance of nuclear species: (Unclassified). September 1951.
313. Wilmarth, V. R., Preliminary report on carnotite at the Yellow Canary claims, Daggett County, Utah: (Official use only) September 1951.

314. Stead, F. W., Progress in airborne radioactivity surveying: (Official use only). April 1952.
315. Ketner, K. B., Correlation between uranium and P_2O_5 in a coarse pebble phosphate deposit, Florida: (Official use only). February 1952.
316. Rowe, J. J., Noninterference of arsenate ion in the volumetric determination of uranium using the Jones reductor: (Unclassified). October 1951. (B-1006*; NSA).
317. Stieff, L. R. and Stern, T. W., The identification and lead-uranium ratio ages of massive uraninite from the Shinarump conglomerate, Utah: (Unclassified). October 1951. (J-98).
318. Witkind, I. J., McKay, E. J., Johnson, D. H., Finnell, T. L., Claus, R. J., and Johnson, D. L., Preliminary report on geologic studies in the Monument Valley area, Arizona: (Official use only). October 1951.
319. Tolbert, G. E. and Nelson, A. E., Preliminary summary of reconnaissance for uranium in the Alaska Railroad-Iliamna region during 1951: (Unclassified). December 1951. (C-196).
320. Nelson, A. E. and Tolbert, G. E., Preliminary summary of reconnaissance for uranium in the Gulf of Alaska region during 1951: (Unclassified). December 1951. (C-196).
321. Houston, J. R., Preliminary summary of reconnaissance for uranium in southeastern Alaska during 1951: (Unclassified). December 1951. (C-196).
322. White, M. G. and West, W. S., Preliminary summary of reconnaissance for uranium on the Seward Peninsula, Alaska during 1951: (Unclassified). January 1952. (C-196).
323. Wedow, Helmut, Jr., Adaptation of portable survey meters for airborne reconnaissance with light planes in Alaska: (Unclassified). October 1951. (TIS).
324. Fischer, R. P., Low-grade carnotite material in the Morrison formation on the Colorado Plateau: (Confidential). January 1952.
325. Benson, W. E., Trites, A. F., Jr., Beroni, E. P., and Feeger, J. A., Preliminary report on the White Canyon area, San Juan County, Utah: (Pt. 1, Unclassified; Pt. 2, Official use only). February 1952. (C-217).
326. Moxham, R. M., Radioactive minerals in the Yakataga Beach placers, southern Alaska: (Unclassified). January 1952. (C-184).
327. White, M. G., Radioactivity and mineralogy of placer concentrates from the Wiseman and Chandalar districts, Upper Yukon region, northeastern Alaska: (Unclassified). January 1952. (C-195).

328. Wedow, Helmuth, Jr., Uraniferous phosphate rock in the Brooks Range, northern Alaska.*
329. White, M. G. and Nelson, A. E., Radiometric reconnaissance of the Fortymile Highway from the Alaska Highway to Chicken, Alaska.*
330. Moxham, R. M. and West, W. S., A radiometric traverse along the Alaska Railroad: (Official use only). February 1953.
331. Wyant, D. G., Summary of investigations in Venezuela from June to November 1951: (Confidential). November 1951.
332. Stager, H. K., Plans for the Geological Survey's development drilling program, Colorado Plateau: (Official use only). January 1952.
333. Brown, Andrew, Notes on eastern oil shale drilling: (Official use only). January 1952.
334. Cathcart, J. B., A drilling program for land in areas near Brewster and Mulberry, land-pebble phosphate district, Florida: (Official use only). January 1952.
335. Meyrowitz, Robert, A new series of immersion liquids: (Unclassified). March 1952. (C-250; J-69; NSA).
336. Duncan, D. C., Preliminary report on a uranium-bearing rhyolitic tuff deposit near Coaldale, Esmeralda County, Nevada: (Unclassified). February 1952. (C-291; TIS).
337. Davidson, D. F., Relation of the "topography" of the Hawthorn formation to size of phosphate particles in the deposits, and to topography, in the northern part of the land-pebble phosphate field, Florida: (Unclassified). May 1952. (TIS).
338. Duncan, D. C., Preliminary statement of results of black-shale investigations in the western states: (Unclassified). February 1952.
339. Bates, R. G. and Wedow, Helmuth, Jr., Preliminary summary review of thorium-bearing mineral occurrences in Alaska: (Unclassified). March 1952. (C-202).
340. Vine, J. D. and Moore, G. W., Occurrence of uranium-bearing coal, carbonaceous shale, and carbonaceous limestone in the Fall Creek area, Bonneville County, Idaho: (Pt. 1, Unclassified; Pt. 2, Official use only). March 1952. (C-212).

341. Denson, N. M., with description of deposits by Bachman, G. O., Gill, J. R., Hail, W. J., Jr., Love, J. D., Masursky, Harold, Denson, N. M., Moore, G. W., Pipiringos, G. N., Vine, J. D., and Zeller, H. D., Summary of uranium-bearing coal, lignite, and carbonaceous shale investigations in the Rocky Mountain region during 1951: (Confidential). May 1952.
342. Zeller, Howard D., Results of core drilling for uranium-bearing lignites in the Bar H area, Slim Buttes, Harding County, South Dakota: (Official use only). June 1953.
343. Coats, R. R., Preliminary report of reconnaissance for uraniferous granitic rocks in Montana, Idaho, Oregon, Washington, and California: (Official use only). April 1952.
344. Meuschke, J. L., Aeromagnetic profiles of the Monument Valley-Carrizo Mountains area, Arizona.*
345. Sample, R. D. and Albee, H. F., Claim map, Paradox quadrangle, Montrose County, Colorado: (Official use only). March 1952.
346. Sample, R. D. and Albee, H. F., Claim map, Gypsum Gap quadrangle, San Miguel County, Colorado: (Official use only). March 1952.
347. Sample, R. D. and Albee, H. F., Claim map, Uravan quadrangle, Montrose County, Colorado: (Official use only). March 1952.
348. Sample, R. D. and Albee, H. F., Claim map, Juanita Arch quadrangle, Mesa County, Colorado: (Official use only). January 1953.
349. Sample, R. D. and Albee, H. F., Claim map, Roc Creek quadrangle, Montrose County, Colorado: (Official use only). December 1952.
350. Sample, R. D., Albee, H. F., and Stephens, H. G., Claim map, Red Canyon quadrangle, Montrose County, Colorado: (Official use only). January 1953.
351. Sample, R. D., Albee, H. F., and Stephens, H. G., Claim map, Hamm Canyon quadrangle, San Miguel County, Colorado: (Official use only). January 1953.
352. Alvord, D. C., Interim report on exploration in the Yellow Cat area, Grand County, Utah: (Official use only). September 1952.
353. Trimble, D. E., Unclaimed mineralized area in the Shinarump conglomerate, northwest of Oljeto Trading Post, Utah: (Official use only). June 1952.
354. Faul, Henry and Hunt, C. B., Radon in the Dillon tunnel in Miner's Basin north La Sal Mountains, Grand County, Utah: (Official use only). September 1952.

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: (Unclassified). June 1952. (C-250; OF).
356. Houston, J. R., Interim report on the radioactive carbonate-hematite veins near Salmon Bay, Prince of Wales Island, southeastern Alaska: (Official use only). June 1952.
357. Wedow, Helmuth, Jr., Summary of reconnaissance for radioactive deposits in Alaska by the Geological Survey during the period 1945-1953 and an appraisal of Alaska uranium possibilities.*
358. Bates, R. G., (compiled by), Preliminary index to Geological Survey Trace Elements reports on Alaska for the period January 1945-December 1952: (Official use only). February 1953.
359. Meuschke, J. L., Aeromagnetic survey of Uravan mineral belt.*
360. Moxham, R. M., Airborne radioactivity surveys in the Mojave Desert region, Kern, Riverside, and San Bernardino Counties, California: (Unclassified). July 1952. (TIS; NSA).
361. Nelson, R. A., Airborne radioactivity survey in Liberia, West Africa: (Official use only). September 1952.
362. Davidson, D. F., Grain size distribution in the surface sands, and the economic phosphate deposits of the land-pebble phosphate district, Florida: (Unclassified). August 1952. (TIS; NSA).
363. Cathcart, J. B., Recommendations for geological drilling, land-pebble phosphate district, Florida: (Official use only). May 1952.
364. Hackman, R. J., Photogeologic map, Aneth-2 quadrangle, San Juan County, Utah: (Unclassified). May 1952. (OF).
365. Hackman, R. J., Photogeologic map, Aneth-3 quadrangle, San Juan County, Utah: (Unclassified). May 1952. (OF).
366. Hackman, R. J., Photogeologic map, Aneth-4 quadrangle, San Juan County, Utah: (Unclassified). 1952. (OF).
367. Hackman, R. J., Photogeologic map, Aneth-7 quadrangle, San Juan County, Utah: (Unclassified). May 1952. (OF).
368. Hackman, R. J., Photogeologic map, Aneth-8 quadrangle, San Juan County, Utah: (Unclassified). May 1952. (OF).

369. Hackman, R. J., Photogeologic map, Bluff-1 quadrangle, San Juan County, Utah: (Unclassified). April 1952. (OF).
370. Hackman, R. J., Photogeologic map, Bluff-8 quadrangle, San Juan County, Utah: (Unclassified). May 1952. (OF).
371. Ray, R. G., Photogeologic map, Bluff-13 quadrangle, San Juan County, Utah: (Unclassified). May 1952. (OF).
372. Tolbert, G. E., Photogeologic map, Carlisle-1 quadrangle, San Juan County, Utah: (Unclassified). March 1952. (OF).
373. Tolbert, G. E., Photogeologic map, Carlisle-8 quadrangle, San Juan County, Utah: (Unclassified). March 1952. (OF).
374. Tolbert, G. E., Photogeologic map, Carlisle-9 quadrangle, San Juan County, Utah: (Unclassified). May 1952. (OF).
375. Tolbert, G. E., Photogeologic map, Carlisle-16 quadrangle, San Juan County, Utah: (Unclassified). May 1952. (OF).
376. Hackman, R. J., Photogeologic map, Elk Ridge-13 quadrangle, San Juan County, Utah: (Unclassified). May 1952. (OF).
377. Hackman, R. J., Photogeologic map, Elk Ridge-16 quadrangle, San Juan County, Utah: (Unclassified). April 1952. (OF).
378. Tolbert, G. E., Photogeologic map, Mt. Peale-5 quadrangle, San Juan County, Utah: (Unclassified). April 1952. (OF).
379. Tolbert, G. E., Photogeologic map, Mt. Peale-6 quadrangle, San Juan County, Utah: (Unclassified). April 1952. (OF).
- 379A. Tolbert, G. E. and Hackman, R. J., Photogeologic map, Mt. Peale-6 quadrangle, San Juan County, Utah: (Unclassified). March 1953. (OF).
380. Tolbert, G. E., Photogeologic map, Mt. Peale-11 quadrangle, San Juan County, Utah: (Unclassified). April 1952. (OF).
- 380A. Hackman, R. J. and Tolbert, G. E., Photogeologic map, Mt. Peale-11 quadrangle, San Juan County, Utah: (Unclassified). December 1952. (OF).
381. Tolbert, G. E., Photogeologic map, Mt. Peale-12 quadrangle, San Juan County, Utah: (Unclassified). May 1952. (OF).
382. Tolbert, G. E., Photogeologic map, Mt. Peale-14 quadrangle, San Juan County, Utah: (Unclassified). May 1952. (OF).
383. Ray, R. G., Photogeologic map, Stinking Spring Creek-11 quadrangle, Emery County, Utah: (Unclassified). May 1952. (OF).

384. Fischer, W. A., Photogeologic map, Stinking Spring Creek-12 quadrangle, Emery County, Utah: (Unclassified). May 1952. (OF).
385. Hackman, R. J., Photogeologic map, Verdure-9 quadrangle, Colorado-Utah: (Unclassified). April 1952. (OF).
386. Hackman, R. J., Photogeologic map, Verdure-10 quadrangle, San Juan County, Utah: (Unclassified). April 1952. (OF).
387. Hackman, R. J., Photogeologic map, Verdure-11 quadrangle, San Juan County, Utah: (Unclassified). April 1952. (OF).
388. Hackman, R. J., Photogeologic map, Verdure-12 quadrangle, San Juan County, Utah: (Unclassified). March 1952. (OF).
389. Hackman, R. J., Photogeologic map, Verdure-13 quadrangle, San Juan County, Utah: (Unclassified). 1952. (OF).
390. Hackman, R. J., Photogeologic map, Verdure-14 quadrangle, San Juan County, Utah: (Unclassified). April 1952. (OF).
391. Hackman, R. J., Photogeologic map, Verdure-15 quadrangle, San Juan County, Utah: (Unclassified). May 1952. (OF).
392. Hackman, R. J., Photogeologic map, Verdure-16 quadrangle, Colorado-Utah: (Unclassified). May 1952. (OF).
393. Hackman, R. J., Photogeologic map, Aneth-5 quadrangle, San Juan County, Utah: (Unclassified). July 1952. (OF).
394. Bates, C. E., Photogeologic map, Stinking Spring Creek-14 quadrangle, Emery County, Utah: (Unclassified). July 1952. (OF).
395. Hackman, R. J., Photogeologic map, Verdure-7 quadrangle, San Juan County, Utah: (Unclassified). July 1952. (OF).
396. Hackman, R. J., Photogeologic map, Elk Ridge-12 quadrangle, San Juan County, Utah: (Unclassified). July 1952. (OF).
397. Bates, C. E., Photogeologic map, Stinking Spring Creek-13 quadrangle, Emery County, Utah: (Unclassified). July 1952. (OF).
398. Tolbert, G. E., Photogeologic map, Mt. Peale-13 quadrangle, San Juan County, Utah: (Unclassified). July 1952. (OF).
399. Hackman, R. J., Photogeologic map, Verdure-1 quadrangle, Colorado-Utah: (Unclassified). July 1952. (OF).
400. Hackman, R. J., Photogeologic map, Aneth-6 quadrangle, San Juan County, Utah: (Unclassified). July 1952. (OF).
401. Ray, R. G., Photogeologic map, Bluff-14 quadrangle, Navajo Indian Reservation, San Juan County, Utah: (Unclassified). July 1952. (OF).

402. Ray, R. G., Photogeologic map, Setsiltso Springs-3 quadrangle, Navajo Indian Reservation, Apache County, Arizona: (Unclassified). July 1952. (OF).
403. Hackman, R. J., Photogeologic map, Verdure-8 quadrangle, Colorado-Utah: (Unclassified). July 1952. (OF).
404. Ray, R. G., Photogeologic map, Setsiltso Springs-4 quadrangle, Navajo Indian Reservation, Apache County, Arizona: (Unclassified). August 1952. (OF).
405. Hackman, R. J., Photogeologic map, Verdure-6 quadrangle, San Juan County, Utah: (Unclassified). July 1952. (OF).
406. Hackman, R. J., Photogeologic map, Verdure-2 quadrangle, San Juan County, Utah: (Unclassified). July 1952. (OF).
407. Hackman, R. J., Photogeologic map, Elk Ridge-8 quadrangle, San Juan County, Utah: (Unclassified). August 1952. (OF).
408. Hackman, R. J., Photogeologic map, Verdure-5 quadrangle, San Juan County, Utah: (Unclassified). August 1952. (OF).
409. Fischer, W. A., Photogeologic map, Clay Hills-13 quadrangle, Navajo Indian Reservation, San Juan County, Utah: (Unclassified). July 1952. (OF).
410. Hackman, R. J., Photogeologic map, Elk Ridge-1 quadrangle, San Juan County, Utah: (Unclassified). August 1952. (OF).
411. Eckstein, W. H., Photogeologic map, Agathla Peak-2 quadrangle, Navajo Indian Reservation, Navajo County, Arizona: (Unclassified). June 1952. (OF).
412. Hackman, R. J., Photogeologic map, Agathla Peak-4 quadrangle, Navajo Indian Reservation, Navajo County, Arizona: (Unclassified). August 1952. (OF).
413. Fischer, W. A., Photogeologic map, Clay Hills-12 quadrangle, Piute Indian Reservation, San Juan County, Utah: (Unclassified). July 1952. (OF).
414. Eckstein, W. H. Photogeologic map, Clay Hills-15 quadrangle, Navajo Indian Reservation, San Juan County, Utah: (Unclassified). August 1952. (OF).
415. Strobell, J. D., Jr., Dinne Mesa NW, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona: (Unclassified). June 1952. (OM-k)*.
416. Strobell, J. D., Jr., Dinne Mesa SW, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona: (Unclassified). June 1952. (OM-k)*.

417. Strobell, J. D., Jr., Los Gigantes NW, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona: (Unclassified). June 1952. (OM-k*).
418. Strobell, J. D., Jr., Los Gigantes NE, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona: (Unclassified). June 1952. (OM-k*).
419. Strobell, J. D., Jr., Red Rock Valley NW, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona: (Unclassified). June 1952. (OM-k*).
420. Strobell, J. D., Jr., Red Rock Valley NE, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona and northwestern New Mexico: (Unclassified). June 1952. (OM-k*).
421. Strobell, J. D., Jr., Red Rock Valley SE, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona and northwestern New Mexico: (Unclassified). June 1952. (OM-k*).
422. Strobell, J. D., Jr., Red Rock Valley SW, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona: (Unclassified). August 1952. (NSA; OM-k*).
423. Strobell, J. D., Jr., Dinne Mesa NE, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona: (Unclassified). August 1952. (NSA; OM-k*).
424. Strobell, J. D., Jr., Dinne Mesa SE, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona: (Unclassified). August 1952. (NSA; OM-k*).
425. Strobell, J. D., Jr., Pastora Peak NE, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona and northwestern New Mexico: (Unclassified). August 1952. (NSA; OM-k*).
426. Strobell, J. D., Jr., Pastora Peak NW, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona: (Unclassified). August 1952. (NSA; OM-k*).
427. Strobell, J. D., Jr., Pastora Peak SE, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona and northwestern New Mexico: (Unclassified). August 1952. (NSA; OM-k*).
428. Strobell, J. D., Jr., Pastora Peak SW, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona: (Unclassified). August 1952. (NSA; OM-k*).
429. Strobell, J. D., Jr., Los Gigantes SE, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona: (Unclassified). August 1952. (NSA; OM-k*).

430. Strobell, J. D., Jr., Los Gigantes SW, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona: (Unclassified). August 1952. (NSA; OM-4*).
431. Weeks, Alice D., Summary report on mineralogic studies of the Colorado Plateau through April 30, 1952: (Official use only). June 1952.
432. Mapel, W. J. and Hail, W. J., Summary of preliminary results of field studies in 1952 in the Goose Creek district, Cassia County, Idaho, Boxelder County, Utah, and Elko County, Nevada: (Official use only). January 1953.
433. Hackman, R. J., Photogeologic map, Verdure-3 quadrangle, San Juan County, Utah: (Unclassified). August 1952. (OF).
434. Schnabel, R. W., and Vickers, R. C., Reconnaissance of the Clinton formation in New York, Pennsylvania, Maryland, and New Jersey: (Unclassified). January 1953. (TIS; NSA).
435. Bachman, G. O. and Read, C. B., Uranium-bearing copper deposits near Guadalupita, Mora County, New Mexico: (Official use only). September 1952.
436. Cathcart, J. B., Carr, W. J., Petersen, R. G., and Gray, C. H., Jr., Distribution of the leached zone of the Bone Valley formation, land-pebble phosphate field, Florida: (Confidential). September 1952.
437. Weeks, A. D., Summary report on Colorado Plateau clay studies through April 30, 1952: (Official use only). July 1952.
438. Hackman, R. J., Photogeologic map, Verdure-4 quadrangle, San Juan County, Utah: (Unclassified). August 1952. (OF).
439. Ray, R. G., Photogeologic map, Setsiltso Springs-5 quadrangle, Navajo Indian Reservation, Apache County, Arizona: (Unclassified). August 1952. (OF).
440. Ray, R. G., Photogeologic map, Agathla Peak-8 quadrangle, Navajo Indian Reservation, Navajo County, Arizona: (Unclassified). August 1952. (OF).
441. Ray, R. G., Photogeologic map, Agathla Peak-1 quadrangle, Navajo Indian Reservation, Navajo County, Arizona: (Unclassified). September 1952. (OF).
442. Fischer, W. A., Photogeologic map, Clay Hills-14 quadrangle, Navajo Indian Reservation, San Juan County, Utah: (Unclassified). September 1952. (OF).
443. Bachman, G. O. and Read, C. B., Trace Elements reconnaissance investigations in New Mexico and adjoining states in 1951: (Official use only). October 1952.

444. Duncan, D. C., Results of reconnaissance for uranium in nonmarine carbonaceous rocks in parts of California, Idaho, Nevada, Oregon, Utah, and Washington during 1951 and 1952: (Official use only). March 1953. (TIS).*
445. Tourtelot, H. A., Reconnaissance for uraniferous rocks in north-eastern Wind River Basin, Wyoming: (Unclassified). August 1952. (TIS; NSA).
446. Hail, W. J., Jr., and Gill, J. R., Results of reconnaissance for uraniferous coal, lignite, and carbonaceous shale in western Montana: (Unclassified). September 1952. (C-251; NSA).
447. Hackman, R. J., Photogeologic map, Mt. Peale-15 quadrangle, San Juan County, Utah: (Unclassified). October 1952. (OF).
448. Hackman, R. J., Photogeologic map, Mt. Peale-16 quadrangle, Utah-COLORADO: (Unclassified). September 1952. (OF).
449. Bates, C. E. and Eckstein, W. H., Photogeologic map, Clay Hills-16 quadrangle, Navajo Indian Reservation, San Juan County, Utah: (Unclassified). September 1952. (OF).
450. Hackman, R. J., Photogeologic map, Mt. Peale-9 quadrangle, Utah-COLORADO: (Unclassified). September 1952. (OF).
451. Hackman, R. J., Photogeologic map, Mt. Peale-10 quadrangle, San Juan County, Utah: (Unclassified). October 1952. (OF).
452. Hackman, R. J., Photogeologic map, Aneth-1 quadrangle, Utah-COLORADO: (Unclassified). July 1952. (OF).
453. Hackman, R. J., Photogeologic map, Elk Ridge-9 quadrangle, San Juan County, Utah: (Unclassified). July 1952. (OF).
454. Scott, J. B., Development drilling on the Vanura claims, San Miguel County, Colorado: (Official use only). September 1952.
455. Withington, C. F. and Scott, J. B., Development drilling on the Contact No. 4 claim, Gypsum Valley district, San Miguel County, Colorado: (Official use only). June 1953.
456. Sample, R. D. and Albee, H. F., Claim map, Egnar quadrangle, San Miguel County, Colorado: (Official use only). January 1953.
457. Sample, R. D. and Albee, H. F., Claim map, Joe Davis Hill quadrangle, San Miguel County, Colorado: (Official use only). January 1953.
458. Sample, R. D., Albee, H. F., and Stephens, H. G., Claim map, Anderson Mesa quadrangle, Montrose and San Miguel Counties, Colorado: (Official use only). January 1953.

459. Brasher, G. K. and Douglas, R. F., Development drilling on the Gramlich group, Paradox district, Montrose County, Colorado: (Official use only). November 1952.
460. Mobley, C. M., Development drilling on the Pay Day group, Gypsum Valley district, San Miguel County, Colorado: (Official use only). January 1953.
461. Jobin, D. A., Preliminary report on exploration of the Dolores Bench, Montrose County, Colorado: (Official use only). January 1953.
462. Sample, R. D. and Albee, H. F., Claim map, Gateway quadrangle, Mesa County, Colorado: (Official use only). January 1953.
463. Sample, R. D., Albee, H. F., and Stephens, H. G., Claim map, Horse Range Mesa quadrangle, San Miguel County, Colorado: (Official use only). April 1953.
464. Cathcart, J. B. and McGinley, F. E., Reserves of leached-zone material that will be mined prior to January 1957, land-pebble phosphate field, Florida: (Confidential). July 1952.
465. Hackman, R. J., Photogeologic map, Mt. Peale-8 quadrangle, Utah-Colorado: (Unclassified). September 1952. (OF).
466. Hackman, R. J., Photogeologic map, Mt. Peale-7 quadrangle, San Juan County, Utah: (Unclassified). October 1952. (OF).
467. Hackman, R. J., Photogeologic map, Mt. Peale-1 quadrangle, Grand and San Juan Counties, Utah, Montrose County, Colorado: (Unclassified). October 1952. (OF).
468. Ray, R. G., Photogeologic map, Agathla Peak-7 quadrangle, Navajo Indian Reservation, Navajo County, Arizona: (Unclassified). October 1952. (OF).
469. Fischer, W. A. and Condon, W. H., Photogeologic map, Navajo Mountain-9 quadrangle, Navajo Indian Reservation, San Juan County, Utah: (Unclassified). October 1952. (OF).
470. Fischer, W. A. and Condon, W. H., Photogeologic map, Navajo Mountain-16 quadrangle, Navajo Indian Reservation, San Juan County, Utah: (Unclassified). October 1952. (OF).
471. Dwornik, Edward and Ross, Malcolm, Application of the electron microscope to mineralogic studies: (Official use only). October 1952.
472. Cathcart, J. B., Drilling program for lands owned by Swift and Company near Fort Meade, land-pebble phosphate district, Florida: (Official use only). August 1952.

473. Mackin, Hoover, Reconnaissance geology of the monazite placers of the Long Valley district, Idaho: (Official use only). July 1952.
474. Botinelly, Theodore, Summary report of the project "Mineralogy of the Chattanooga shale": (Official use only). September 1952.
475. Berman, Robert, Summary report on public samples received during 1951, Trace Elements Section Washington Laboratory, Geochemistry and Petrology Branch: (Official use only). August 1952.
476. Fix, P. F., Progress report on uranium in natural waters: (Confidential-Restricted Data). August 1952.
477. Cathcart, J. B., Blade, L. V., and Gray, C. H., Jr., Leached-zone material in overburden dumps, Varn and Peace Valley mines, land-pebble phosphate district, Florida: (Official use only). January 1953.
478. Altschuler, Z. S., Progress report on sampling of leached zone materials of Florida for mineralogic and metallurgical study: (Confidential). August 1952.
479. Finnell, T. L., Renzetti, B. L., and Trites, A. F., Jr., Preliminary report on the geology of the Tiger (Hideout) claim, White Canyon area, San Juan County, Utah, with recommendations for exploration for geologic information: (Official use only). October 1952.
480. Douglas, R. F. and Brasher, G. K., Development drilling in the Gray Daun area, Paradox district, San Juan County, Utah: (Official use only). January 1953.
481. Jobin, D. A. and Schessler, T. E., Interim report on exploration in the Atkinson Mesa area, Montrose County, Colorado: (Official use only). February 1953.
482. Cannon, H. L. and Stillman, R. M., Geobotanical reconnaissance for uranium in the Temple Mountain district, Emery County, Utah: (Official use only). November 1952.
483. Cannon, H. L. and Stillman, R. M., Geobotanical reconnaissance for uranium in the Marysvale area, Piute County, Utah: (Official use only). November 1952.
484. Cannon, H. L. and Durrell, M. E., Geobotanical reconnaissance for uranium in the Great Divide Basin, Sweetwater County, Wyoming: (Official use only). November 1952.
485. Emerick, W. L., Development drilling on the Lost group area, Gypsum Valley district, San Miguel County, Colorado: (Official use only). August 1953.

486. Bell, Kenneth G., Gamma-ray logging of shot holes in the northwest Carrizo Mountains area, Apache County, Arizona and San Juan County, Utah: (Official use only). March 1953.
487. Eicher, L. J., Interim report on exploration of the San Miguel Bench, Montrose County, Colorado: (Official use only). January 1953.
488. Eicher, L. J., Interim report on exploration of the Spring Creek Mesa, Montrose County, Colorado: (Official use only). March 1953.
- 489.
490. Brew, D. A., Development drilling on the American Eagle group, Gypsum Valley district, Montrose County, Colorado: (Official use only). April 1953.
491. Stager, H. K., Results of the Geological Survey's Colorado Plateau development-drilling program for the period May 5 to December 13, 1952: (Official use only). January 1953.
492. Witkind, I. J., Thaden, R. E., and Lough, C. F., Interim report on geologic investigations in the Monument Valley area, Arizona: (Official use only). January 1953.
493. Gualtieri, J. L., Development drilling on the Terrible group, Gypsum Valley district, Montrose County, Colorado: (Official use only). March 1953.
494. Vogel, J. D., Preliminary reserve statement 28, Reserve Blocks A and B, Jo Dandy area, Montrose County, Colorado: (Confidential). April 1953.
495. Douglas, R. F., Preliminary reserve statement 29, Reserve Block 8, Club Mesa, Montrose County, Colorado: (Official use only). March 1953.
496. Alvord, D. C., Preliminary reserve statement 30, Reserve Block A, San Miguel Bench, Montrose County, Colorado: (Official use only). June 1953.
497. Alvord, D. C., Preliminary reserve statement 31, Reserve Blocks B and C, San Miguel Bench, Montrose County, Colorado: (Official use only). July 1953.
498. Brew, D. A., Preliminary reserve statement 32, Reserve Block A, Atkinson Mesa, Montrose County, Colorado: (Confidential). July 1953.
499. Fischer, W. A. and Condon, W. H., Photogeologic map, Shanto Spring-1 quadrangle, Navajo Indian Reservation, Navajo County, Arizona: (Unclassified). September 1952. (OF).

500. Ray, R. G., Photogeologic map, Orange Cliffs-13 quadrangle, Garfield County, Utah: (Unclassified). October 1952. (OF).
501. Ray, R. G., Photogeologic map, Orange Cliffs-14 quadrangle, Garfield County, Utah: (Unclassified). October 1952. (OF).
502. Overstreet, W. C., Areas in the western monazite belt, North and South Carolina, recommended for physical exploration by the U. S. Bureau of Mines: (Official use only). October 1952.
503. Klemic, Harry and Baker, Richard C., Preliminary summary of uranium occurrences in Carbon County, Pennsylvania.*
504. Dutro, H. B., Areal distribution, thickness, and uranium content of the leached zone and matrix in the Sydney area, Hillsborough County, Florida: (Official use only). January 1953.
505. Cathcart, J. B. and McGinley, F. E., Drilling program for lands owned by the American Agricultural Chemical Company in the Boyette and South Pierce areas, land-pebble phosphate district, Florida: (Official use only). November 1952.
506. Ketner, K. B., Drilling program for lands owned by American Cyanamid Company, land-pebble phosphate district, Florida: (Official use only). November 1952.
507. Bergendahl, M. H., Wavellite spherulites in the Bone Valley formation of central Florida: (Unclassified). February 1953. (NSA).
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: (Unclassified). February 1953. (OF).
509. Manger, G. E. and Gates, G. L., Progress report on original-state core studies: (Unclassified). January 1953. (TIS; NSA).
510. Read, C. B., Sample, R. D., and Bachman, G. O., Notes on copper-bearing sandstone beds in the southwestern United States.*
511. Raup, R. B., Jr., A lead-uranium deposit at the White Oak No. 1 mine, Santa Cruz County, Arizona: (Official use only). August 1953.
512. Campbell, R. H. and Schafer, Max, A systematic radioactivity reconnaissance of part of the north Gilpin County mining district, Gilpin County, Colorado.*

513. Erickson, R. L., Myers, A. T., and Horr, C. A., The association of uranium and other metals with crude oils, asphalts, and petro-liferous rocks: (Unclassified). December 1952. (J-24).
514. Walker, G. W., Rosamond prospect, Kern County, California: (Pt. 1, Unclassified; Pt. 2, Official use only). February 1953. (J-111).
515. Dings, McClelland G., Preliminary summary of reconnaissance for radio-active materials in the Garfield and Taylor Park quadrangles, Colorado: (Official use only). November 1952.
516. Dings, McClelland G., Preliminary summary of reconnaissance for radio-active materials near Montezuma, Summit County, Colorado: (Official use only). December 1952.
- 517.
518. Sheridan, D. M., Preliminary report on Lost Creek schroeckingerite area, Sweetwater County, Wyoming: (Official use only). January 1953.
519. Vickers, R. C., Preliminary summary of reconnaissance for radioactive deposits in the north-central states: (Official use only). February 1953.
520. Sims, P. K., Harrison, J. E., and Moore, F. B., Preliminary report on 1952 investigations in the Colorado Front Range: (Official use only). December 1952.
521. Leonard, B. F., Preliminary summary on zonal relations of uranium de-posits in metalliferous districts: (Official use only). December 1952.
522. Armstrong, F. C., Preliminary report on regional reconnaissance for radioactive materials in the northwestern states during 1952: (Official use only). January 1953.
523. Ray, R. G., Photogeologic map, Orange Cliffs-11 quadrangle, Wayne and Garfield Counties, Utah: (Unclassified). December 1952. (OF).
524. Ray, R. G., Photogeologic map, Orange Cliffs-12 quadrangle, Wayne and Garfield Counties, Utah: (Unclassified). December 1952. (OF).
525. Hosley, V. M., Photogeologic map, Orange Cliffs-5 quadrangle, Wayne County, Utah: (Unclassified). December 1952. (OF).
526. Hackman, R. J., Photogeologic map, Navajo Mountain-13 quadrangle, Navajo Indian Reservation, San Juan and Kane Counties, Utah: (Unclassified). October 1952. (OF).

- 527. Hackman, R. J., Photogeologic map, Mt. Peale-4 quadrangle, Grand and San Juan Counties, Utah: (Unclassified). December 1952. (OF).
- 528. Orkild, P. P., Photogeologic map, Stinking Spring Creek-5 quadrangle, Emery County, Utah: (Unclassified). November 1952. (OF).
- 529. Scott, J. M., Photogeologic map, Circle Cliffs-9 quadrangle, Garfield County, Utah: (Unclassified). November 1952. (OF).
- 530. Hemphill, W. R., Photogeologic map, Stinking Spring Creek-6 quadrangle, Emery County, Utah: (Unclassified). November 1952. (OF).
- 531. Hackman, R. J., Photogeologic map, Circle Cliffs-10 quadrangle, Garfield County, Utah: (Unclassified). November 1952. (OF).
- 532. Orkild, P. P., Photogeologic map, Stinking Spring Creek-4 quadrangle, Emery County, Utah: (Unclassified). November 1952. (OF).
- 533. Faul, Henry, Gott, G. B., Manger, G. E., Mytton, J. W., and Sakakura, A. Y., Radon and helium in natural gas: (Unclassified). June 1953. (J-29; NSA).
- 534. Osterwald, F. W., Preliminary notes on 1951-52 investigations of the Thomas Range fluorite district, Juab County, Utah: (Official use only). November 1952.
- 535. Trimble, D. E. and Lewis, R. Q., Sr., Preliminary report on geologic studies in Monument Valley, San Juan County, Utah, 1952: (Official use only). January 1953.
- 536. Witkind, I. J., Thaden, R. E., and Lough, C. F., Preliminary report on geologic investigations in Monument Valley area, Arizona, 1952: (Official use only). February 1953. (OF).
- 537. Mullens, T. E. and Hubbard, H. A., Preliminary report on geologic studies in the Red House Cliffs area, San Juan County, Utah: (Official use only). December 1952.
- 538. Smith, J. F., Jr., Hinrichs, E. N., Huff, L. C., and Luedke, R. G., Preliminary report on geologic studies in the Capitol Reef area, Wayne County, Utah, 1952: (Official use only). January 1953.
- 539. Overstreet, W. C., Further areas in the western monazite belt of South Carolina recommended for physical exploration by the U. S. Bureau of Mines: (Official use only). December 1952.
- 540. Trites, A. F., Jr., and Finnell, T. L., Preliminary report on geologic investigations in White Canyon, San Juan County, Utah, 1952: (Official use only). January 1953.
- 541. Eckstein, W. H., Photogeologic map, Agathla Peak-6 quadrangle, Navajo Indian Reservation, Navajo County, Arizona: (Unclassified). November 1952. (OF).

542. Orkild, P. P., Photogeologic map, Stinking Spring Creek-3 quadrangle, Emery County, Utah: (Unclassified). December 1952. (OF).
543. Hemphill, W. R., Photogeologic map, Stinking Spring Creek-10 quadrangle, Emery County, Utah.*
544. Hosley, V. M., Photogeologic map, Carlisle-5 quadrangle, Wayne and San Juan Counties, Utah: (Unclassified). January 1953. (OF).
545. Orkild, P. P., Photogeologic map, Stinking Spring Creek-15 quadrangle, Emery County, Utah: (Unclassified). December 1952. (OF).
546. Condon, W. H., Photogeologic map, Emery-16 quadrangle, Emery County, Utah: (Unclassified). December 1952. (OF).
547. Hosley, V. M., Photogeologic map, Carlisle-4 quadrangle, Wayne and San Juan Counties, Utah: (Unclassified). December 1952. (OF).
548. Hackman, R. J., Photogeologic map, Circle Cliffs-2 quadrangle, Garfield County, Utah: (Unclassified). August 1953. (OF).
549. Scott, J. M., Photogeologic map, Circle Cliffs-3 quadrangle, Garfield County, Utah: (Unclassified). January 1953. (OF).
550. Hemphill, W.R., Photogeologic map, Stinking Spring Creek-7 quadrangle, Emery County, Utah: (Unclassified). January 1953. (OF).
551. McKeown, F. A. and Klemic, Harry, Preliminary report on reconnaissance for radioactive materials in the northeastern United States: (Official use only). January 1953.
552. Wedow, Helmuth, Jr., Bates, R. G., Grantz, Arthur, Houston, J. R., Killeen, P. L., Matzko, J. J., Nelson, A.E., Stejer, F. A., Velikanje, R. S., and West, W. S., Preliminary summary of reconnaissance for uranium and thorium in Alaska, 1952: (Official use only). December 1952. (C-248).
553. Swanson, V. E., Preliminary summary of investigations of Chattanooga shale in 1952: (Official use only). December 1952.
554. Walker, George W., Preliminary report on the regional reconnaissance for radioactive materials in California during 1952: (Official use only). January 1953.
555. Vine, James D., Investigations in the Fall Creek area, Bonneville County, Idaho, during the 1952 field season - a preliminary report: (Official use only). November 1952.
556. Zeller, Howard D. and Baltz, Elmer H., Jr., Uranium-bearing copper deposits in the Coyote mining district, Mora County, New Mexico: (Official use only). December 1952.

557.

558. Vickers, R. C., Preliminary report on the monazite-bearing Goodrich quartzite, Palmer area, Marquette County, Michigan: (Official use only). April 1953.

559. Vickers, R. C., An occurrence of autunite, Lawrence County, South Dakota: (Pt. 1, Unclassified; Pt. 2, Official use only). January 1953. (C-286).

560. Sharp, W. N. and Cavender, W. S., Preliminary summary report on geology and thorium deposits of the Lemhi Pass district, Idaho and Montana: (Official use only). February 1953.

561.

562.

563.

564.

565.

566.

567.

568.

569.

570.

571.

572. Troyer, M. L., McKay, E. J., and Soister, P. E., Preliminary report on results of field investigations for uraniferous deposits in the Pumpkin Buttes area, Johnson and Campbell Counties, Wyoming: (Official use only). December 1952.
573. Davidson, David F., Preliminary report of the results of reconnaissance for uraniferous materials in the Powder River Basin, Wyoming: (Official use only). February 1953.
574. Barge, E. M., Development drilling on the Sunset claim, Gypsum Valley district, San Miguel County, Colorado: (Official use only). September 1953.
575. Cannon, H. L., Geobotanical reconnaissance for uranium on La Ventana Mesa, Sandoval County, New Mexico: (Official use only). March 1953.
576. Madsen, J.W., Development drilling on the Rambler group, Gypsum Valley district, Montrose County, Colorado: (Official use only). June 1953.
577. Witkind, I. J., Thaden, R. E., and Lough, C. F., Reconnaissance for a geophysical survey and a diamond-drilling program on Mitchell Mesa, Monument Valley area, Arizona.*
578. Black, R. A., Geophysical investigations on the Gramlich group, Paradox district, Montrose County, Colorado: (Official use only). March 1953.
579. Cannon, H. L., Interim report on geobotanical results in the Yellow Cat area, Thompsons district, Grand County, Utah.*
580. Narten, P. F. and Starrett, W. H., Preliminary report on geobotanical prospecting, Valencia and McKinley Counties, New Mexico: (Official use only). May 1953.
581. Carter, W. D., Interim report on diamond-drill exploration and plans for additional drilling in the Long Park area, Montrose County, Colorado: (Confidential). April 1953.

582. Okerlund, M. D., Interim report on exploration in the Yellow Cat area, Grand County, Utah: (Official use only). May 1953.
583. Shoemaker, E. M., Reconnaissance geology of the Ute Mountains, Colorado.*
584. Hosley, V. M., Photogeologic map, Moab-14 quadrangle, Grand County, Utah: (Unclassified). January 1953. (OF).
585. Hackman, R. J., Photogeologic map, Circle Cliffs-6 quadrangle, Garfield County, Utah: (Unclassified). December 1952. (OF).
586. Scott, J. M., Photogeologic map, Circle Cliffs-1 quadrangle, Garfield County, Utah: (Unclassified). January 1953. (OF).
587. Bates, C. E., Photogeologic map, Carlisle-6 quadrangle, San Juan County, Utah: (Unclassified). May 1953. (OF).
588. Condon, W. H., Photogeologic map, Emery-9 quadrangle, Emery County, Utah: (Unclassified). April 1953. (OF).
589. Hemphill, W. R., Photogeologic map, Stinking Spring Creek-2 quadrangle, Emery County, Utah: (Unclassified). January 1953. (OF).
590. Hackman, R. J., Photogeologic map, Circle Cliffs-7 quadrangle, Garfield County, Utah: (Unclassified). January 1953. (OF).
591. Orkild, P. P., Photogeologic map, Emery-1 quadrangle, Emery County, Utah: (Unclassified). March 1953. (OF).
592. Bates, C. E., Photogeologic map, Carlisle-3 quadrangle, San Juan County, Utah: (Unclassified). January 1953. (OF).
593. Condon, W. H., Photogeologic map, Emery-8 quadrangle, Emery County, Utah: (Unclassified). March 1953. (OF).
594. Orkild, P. P., Photogeologic map, Orange Cliffs-3 quadrangle, Wayne County, Utah: (Unclassified). January 1953. (OF).
595. Scott, J. M., Photogeologic map, Circle Cliffs-8 quadrangle, Garfield County, Utah: (Unclassified). March 1953. (OF).
596. Hackman, R. J., Photogeologic map, Mt. Pennell-5 quadrangle, Garfield County, Utah: (Unclassified). March 1953. (OF).
597. Scott, J. M., Photogeologic map, Mt. Pennell-12 quadrangle, Garfield County, Utah: (Unclassified). February 1953. (OF).
598. Hosley, V. M., Photogeologic map, Moab-15 quadrangle, Grand County, Utah: (Unclassified). March 1953. (OF).

599. Hemphill, W. R., Photogeologic map, Orange Cliffs-6 quadrangle, Wayne County, Utah: (Unclassified). August 1953.
600. Orkild, P. P., Photogeologic map, Orange Cliffs-2 quadrangle, Wayne County, Utah: (Unclassified). March 1953. (OF).
601. Masursky, Harold and Pipiringos, George N., Uranium-bearing coal in the Red Desert, Great Divide Basin, Sweetwater County, Wyoming: (Official use only). March 1953.
602. Mackin, Hoover and Schmidt, Dwight L., Reconnaissance geology of placer deposits containing radioactive minerals in the Bear Valley district, Valley County, Idaho: (Pt. 1, Unclassified; Pt. 2, Official use only). January 1953. (J-68; OF).
603. Becraft, George E., The Comet and Gray Eagle mines and adjacent areas, Jefferson County, Montana: (Official use only). March 1953.
604. Altschuler, Z. S., Berman, Robert, Owens, J. T., Delevaux, M. H., and Lundine, S., Fractionation studies of millisite-pseudowavellite rock from the leached zone at Homeland, Florida: (Confidential). April 1953.
605. Henderson, J. R. and Moxham, R. M., Airborne radioactivity survey of the Devil's Tower area, Crook County, Wyoming: (Unclassified). February 1953. (OF; NSA).
606. Meuschke, J. L. and Moxham, R. M., Airborne radioactivity survey of the Miller Hill area, Carbon County, Wyoming: (Unclassified). February 1953. (OF).
607. Johnson, R. W. and Moxham, R. M., Airborne radioactivity survey of portions of the Defiance Uplift and Carrizo Mountains, Apache County, Arizona: (Unclassified). April 1953. (OF).
608. Keller, G. V., Progress report on petrophysical studies of the Morrison formation: (Official use only). February 1953.
609. Meuschke, J. L. and Moxham, R. M., Airborne radioactivity survey of the Aspen Mountain area, Sweetwater County, Wyoming: (Unclassified). April 1953. (OF).
610. Meuschke, J. L. and Moxham, R. M., Airborne radioactivity survey of the Tabernacle Buttes area, Sublette and Fremont Counties, Wyoming: (Unclassified). March 1953. (OF).
611. Meuschke, J. L. and Moxham, R. M., Airborne radioactivity survey of the West Lonetree area, Uinta County, Wyoming: (Unclassified). March 1953. (OF).
612. Hemphill, W. R., Photogeologic map, Orange Cliffs-7 quadrangle, Wayne County, Utah: (Unclassified). March 1953. (OF).

613. Hackman, R. J., Photogeologic map, Mt. Pennell-14 quadrangle, Garfield and Kane Counties, Utah: (Unclassified). March 1953. (OF).
614. Hackman, R. J., Photogeologic map, Circle Cliffs-16 quadrangle, Garfield and Kane Counties, Utah: (Unclassified). March 1953. (OF).
615. Scott, J. M., Photogeologic map, Mt. Pennell-13 quadrangle, Garfield and Kane Counties, Utah: (Unclassified). April 1953. (OF).
616. Bates, C. E., Photogeologic map, Moab-10 quadrangle, Grand County, Utah: (Unclassified). April 1953. (OF).
617. Orkild, P. P., Photogeologic map, Tidwell-16 quadrangle, Emery and Grand Counties, Utah: (Unclassified). April 1953. (OF).
618. Condon, W. H., Photogeologic map, Orange Cliffs-10 quadrangle, Wayne and Garfield Counties, Utah: (Unclassified). April 1953. (OF).
619. Scott, J. M., Photogeologic map, Navajo Mountain-4 quadrangle, Kane County, Utah: (Unclassified). April 1953. (OF).
620. Scott, J. M., Photogeologic map, Navajo Mountain-6 quadrangle, San Juan and Kane Counties, Utah: (Unclassified). August 1953. (OF).
621. Hackman, R. J., Photogeologic map, Navajo Mountain-3 quadrangle, Kane and San Juan Counties, Utah: (Unclassified). April 1953. (OF).
622. Wedow, Helmuth, Jr., Analysis of samples from properties of the Baranof Exploration and Development Company, Chichagof district, southeastern Alaska: (Official use only). March 1953.
623. Barge, E. M., Development drilling on the Early Morn group of claims, Gypsum Valley district, San Miguel County, Colorado: (Official use only). September 1953.
- 624.
625. Emerick, W. L. and Gualtieri, J. L., Development drilling on the Georgetown group, Slick Rock district, San Miguel County, Colorado: (Official use only). August 1953.
626. Millgate, M. L., Development drilling in the Joker group, Gypsum Valley district, Montrose County, Colorado: (Official use only). June 1953.
627. Jackson, W. H., Preliminary report on geophysical investigations of the Deer Flat area, White Canyon district, San Juan County, Utah.*

628. Alvord, D. C., Preliminary report on exploration of the San Miguel bench, Montrose County, Colorado: (Official use only). May 1953.
629. Chew, R. T., III, Preliminary report on radioactivity in modern stream gravels.*
630. Dutro, H. B., Development drilling on the Pooch group, Gypsum Valley district, Montrose County, Colorado: (Official use only). August 1953.
631. Madsen, J. W., Development drilling on the Pitchfork group of claims, Gypsum Valley district, San Miguel County, Colorado.*
632. Strobell, J. D., Jr., Sample, R. D., Stephens, H. G., and Gilbert, Cynthia C., Preliminary analysis of ore distribution in the Gateway and Uravan districts, Mesa and Montrose Counties, Colorado.*
633. Scott, J. M., Photogeologic map, Mt. Pennell-11 quadrangle, Garfield County, Utah: (Unclassified). April 1953. (OF).
634. Scott, J. M., Photogeologic map, Circle Cliffs-4 quadrangle, Garfield County, Utah: (Unclassified). August 1953. (OF).
635. Scott, J. M., Photogeologic map, Circle Cliffs-5 quadrangle, Garfield County, Utah: (Unclassified). April 1953. (OF).
636. Hackman, R. J., Photogeologic map, Circle Cliffs-11 quadrangle, Garfield County, Utah: (Unclassified). April 1953. (OF).
637. Hackman, R. J., Photogeologic map, Circle Cliffs-14 quadrangle, Garfield and Kane Counties, Utah: (Unclassified). April 1953. (OF).
638. Hosley, V. M., Photogeologic map, Straight Cliffs-1 quadrangle, Kane County, Utah: (Unclassified). May 1953. (OF).
639. Hosley, V. M., Photogeologic map, Moab-12 quadrangle, Grand County, Utah: (Unclassified). June 1953. (OF).
640. Hackman, R. J. and Tolbert, G. E., Photogeologic map, Notom-15 quadrangle, Garfield County, Utah: (Unclassified). June 1953. (OF).
641. Hackman, R. J., Photogeologic map, Circle Cliffs-15 quadrangle, Garfield and Kane Counties, Utah: (Unclassified). May 1953. (OF).

642. Orkild, P. P., Photogeologic map, Tidwell-5 quadrangle, Emery County, Utah: (Unclassified). May 1953. (OF).
643. Huff, Lyman C., Preliminary geochemical studies in the Capitol Reef area, Wayne County, Utah.*
644. Moxham, R. M. and Johnson, R. W., Airborne radioactivity survey of parts of the Atlantic Ocean beach, Virginia to Florida: (Unclassified). May 1953. (OF).
645. Trites, A. F., Jr., and Chew, R. T., III, Preliminary report on the Happy Jack mine, San Juan County, Utah.*
646. Finnell, T. L., Structural control of ore deposits at the Monument No. 2 mine, Arizona.*
647. Stern, T. W. and Stieff, L. R., Preliminary description of coffinite-- a new uranium mineral: (Unclassified). October 1953.
648. Thompson, R. Bruce, Jr., Summary report on public samples received 1949-51, Trace Elements Section Washington Laboratory, Geochemistry and Petrology Branch: (Official use only). November 1952.
649. Conant, L. C. and Rowe, J. J., Proposed investigations of Chattanooga shale in fiscal year 1954: (Official use only). May 1953.
650. Hemphill, W. R., Photogeologic map, Stinking Spring Creek-9 quadrangle, Emery County, Utah: (Unclassified). July 1953. (OF).
651. Kent, B. H., Photogeologic map, Desert Lake-14 quadrangle, Emery County, Utah: (Unclassified). May 1953. (OF).
652. Bates, C. E., Photogeologic map, Moab-11 quadrangle, Grand County, Utah: (Unclassified). September 1953. (OF).
653. Kent, B. H. and Condon, W. H., Photogeologic map, Orange Cliffs-15 quadrangle, Garfield and San Juan Counties, Utah.*
654. Hemphill, W. R., Photogeologic map, Orange Cliffs-8 quadrangle, Wayne and San Juan Counties, Utah: (Unclassified). May 1953. (OF).
655. Orkild, P. P., Photogeologic map, Tidwell-4 quadrangle, Emery County, Utah: (Unclassified). August 1953. (OF).
656. Hosley, V. M., Photogeologic map, Tidwell-15 quadrangle, Emery County, Utah: (Unclassified). June 1953. (OF).

657. Hemphill, W. R., Photogeologic map, Stinking Spring Creek-8 quadrangle, Emery County, Utah: (Unclassified). August 1953. (OF).
658. Kent, B. H., Photogeologic map, Desert Lake-11 quadrangle, Emery County, Utah: (Unclassified). August 1953. (OF).
659. Orkild, P. P., Photogeologic map, Woodside-13 quadrangle, Emery County, Utah: (Unclassified). August 1953. (OF).
660. Bates, C. E. and Hosley, V. M., Photogeologic map, Tidwell-9 quadrangle, Emery and Grand Counties, Utah: (Unclassified). August 1953. (OF).
661. Scott, J. M., Photogeologic map, Kaiparowits Peak-8 quadrangle, Garfield County, Utah: (Unclassified). September 1953. (OF).
662. Scott, J. M., Photogeologic map, Straight Cliffs-2 quadrangle, Kane County, Utah: (Unclassified). July 1953. (OF).
663. Scott, J. M., Photogeologic map, Kaiparowits Peak-9 quadrangle, Garfield County, Utah: (Unclassified). August 1953. (OF).
664. Condon, W. H., Photogeologic map, Orange Cliffs-4 quadrangle, Wayne County, Utah: (Unclassified). September 1953. (OF).
665. Orkild, P. P., Photogeologic map, Orange Cliffs-1 quadrangle, Wayne and San Juan Counties, Utah: (Unclassified). August 1953. (OF).
- 666.
667. Scott, J. M., Photogeologic map, Carlisle-2 quadrangle, San Juan County, Utah.*
668. Hackman, R. J., Photogeologic map, Carlisle-15 quadrangle, San Juan County, Utah: (Unclassified). September 1953.
669. Scott, J. M., Photogeologic map, Carlisle-10 quadrangle, San Juan County, Utah: (Unclassified). September 1953.
670. Narten, P. F., Preliminary report on the results of geobotanical prospecting on the south flank of Haystack Butte, McKinley County, New Mexico: (Official use only). April 1953.
671. Sears, J. D. and Sample, R. D. (mapped under supervision of), Preliminary geologic map of the Comb Ridge area, San Juan County, Utah (Bluff 1 NW, 1 SW, and 4 NW, 7½-minute quadrangles).*

672. Cathcart, J. B. and Ward, E. L. M., Ownership maps of parts of Hillsborough and Polk Counties, land-pebble phosphate district, Florida: (Unclassified). May 1953. (OF).
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: (Unclassified). November 1953.
674. Walker, George W., Regional reconnaissance for radioactive materials in eastern Imperial County, California: (Official use only). June 1953.
675. Gillerman, Elliot, Gamma-ray logging in the Tyrone, White Signal, and Black Hawk districts, Grant County, New Mexico: (Official use only). May 1953.
676. Davidson, David F., Distribution of coarse- and fine-grained rocks in the Wasatch formation and their relationship to uranium deposits, Powder River Basin, Wyoming: (Unclassified). May 1953. (TIS; NSA).
677. Davidson, David F., Reconnaissance for uranium in the Powder River Basin, Wyoming: (Unclassified). May 1953. (TIS; NSA).
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.*
679. Raup, R. B., Jr., and Haines, D. V., Reconnaissance for radioactivity in the Yuma Air Force Base gunnery range, Yuma County, Arizona.*
680. Barge, E. M., Development drilling on the Tiny claim, Gypsum Valley district, San Miguel County, Colorado: (Official use only). September 1953.
681. Dutro, H. B. and Bivens, N. W., Development drilling on the Spectacle Point claim, Gypsum Valley district, San Miguel County, Colorado: (Official use only). September 1953.
682. Dutro, H. B. and Bivens, N. W., Development drilling on the Long Ridge group of claims, Gypsum Valley district, San Miguel County, Colorado: (Official use only). October 1953.
683. Emerick, W. L. and Gualtieri, J. L., Development drilling in the Ellison-Burro claims area, Slick Rock district, San Miguel County, Colorado: (Official use only). November 1953.

684. Emerick, W. L. and Gualtieri, J. L., Development drilling on the Upper group area, Slick Rock district, San Miguel County, Colorado.*
685. Emerick, W. L. and Gualtieri, J. L., Preliminary reserve statement 33, Reserve Block 1, South Radium group area, Slick Rock district, San Miguel County, Colorado: (Official use only). September 1953.
686. Bowers, Howard, Preliminary reserve statement 34, Reserve Block E, Long Park area, Uravan district, Montrose County, Colorado.*
687. Gualtieri, J. L. and Emerick, W. L., Development drilling in the Hawkeye claim area, Slick Rock district, San Miguel County, Colorado: (Official use only). October 1953.
688. Roach, C. H., Preliminary report on exploration of the Spring Creek Mesa area, Montrose County, Colorado: (Official use only). September 1953.
689. Emerick, W. L. and Gualtieri, J. L., Interim report on drilling in the Slick Rock district, San Miguel County, Colorado.*
690. Cater, F. W., Jr., Geology of the Anderson Mesa quadrangle, Colorado, with a section on "The Mines" by C.F. Withington.* (QM)*
691. McKay, E. J., Geology of the Atkinson Creek quadrangle, Montrose County, Colorado.* (QM)*
692. Cater, F. W., Jr., Geology of the Bull Canyon quadrangle, Montrose and San Miguel Counties, Colorado.* (QM)*
693. Cater, F. W., Jr., Geology of the Calamity Mesa quadrangle, Mesa County, Colorado, with a section on "The Mines" by Harold K. Stager.* (QM)*
694. Cater, F. W., Jr., Geology of the Davis Mesa quadrangle, Colorado, with a section on "The Mines" by Leonid Bryner.* (QM)*

695. Cater, F. W., Jr., Geology of the Egnar quadrangle, San Miguel and Dolores Counties, Colorado, with a section on "The Mines" by A. L. Bush and Henry Bell, III.* (QM)*
696. Cater, F. W., Jr., Geology of the Gateway quadrangle, Mesa County, Colorado.* (QM)*
697. Cater, F. W., Jr., Geology of the Gypsum Gap quadrangle, Colorado.* (QM)*
698. Cater, F. W., Jr., Geology of the Hamm Canyon quadrangle, Colorado.* (QM)*
699. 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.* (QM)*
700. Cater, F. W., Jr., and Bell, Henry, III, Geology of the Joe Davis Hill quadrangle, Dolores and San Miguel Counties, Colorado.* (QM)*
701. Shoemaker, E. M., Geology of the Juanita Arch quadrangle, Mesa County, Colorado.* (QM)*
702. Cater, F. W., Geology of the Naturita NW quadrangle, Colorado, with a section on "The Mines" by J. D. Vogel.* (QM)*
703. Withington, C. F., Geology of the Paradox quadrangle, Colorado.* (QM)*
704. Cater, F. W., Jr., Geology of the Pine Mountain quadrangle, Mesa County, Colorado: (Unclassified). August 1953. (QM)*
705. McKay, E. J., Geology of the Red Canyon quadrangle, Montrose County, Colorado, with a section on "The Mines" by D. A. Jobin.* (QM)*

- 706.
- 707.
708. Love, J. D., Uranium in the Gas Hills area, Fremont and Natrona Counties, Wyoming-- a preliminary report: (Pt. 1, Unclassified; Pt. 2, Official use only). October 1953.
709. Neuerburg, George J. and Gottfried, David, Age determinations of the San Gabriel anorthosite massif.*
710. Jackson, W. H., Geophysical investigations of the Happy Jack mine area, San Juan County, Utah.*
711. Starrett, W. H. and Cannon, H. L., Geobotanical prospecting for uranium on La Ventana Mesa, Sandoval County, New Mexico.*
712. Lewis, R. Q., Appraisal and recommendations for drilling on Holiday Mesa, Monument Valley, Utah.*
713. Lewis, R. Q. and Reitan, P. H., Geologic appraisal and recommendations for exploration at Burch Canyon, Elk Ridge, San Juan County, Utah.*
714. Krummel, W. J. and Lewis, R.Q., Preliminary report on Elk Ridge mapping.*
715. Carter, W. D., Development drilling on the Vanadium Queen group of claims, Paradox district, San Juan County, Utah.*
716. Cadigan, R. A., A field method for making a quantitative estimate of silicified tuff in sandstone.*

717. Roach, C. H., Preliminary reserve statement 35, Reserve Block A, Spring Creek Mesa area, Montrose County, Colorado: (Official use only). October 1953.
718. Roach, C. H., Preliminary reserve statement 36, Reserve Blocks B and C, Spring Creek Mesa, Montrose County, Colorado: (Official use only). November 1953.
719. Roach, C. H., Preliminary reserve statement 37, Reserve Block D, Spring Creek Mesa, Montrose County, Colorado: (Official use only). November 1953.
- 720.
- 721.
- 722.
723. Mobley, C. M., Preliminary report on exploration in the Yellow Cat area, Grand County, Utah.*
724. Carter, W. D., Development drilling on the Hesperus claim, La Sal Creek area, Paradox district, San Juan County, Utah.*
725. Vogel, J. D. and Elston, D. P., Interim report on exploration in the Jo Dandy area, Montrose County, Colorado.*
- 726.
727. Eicher, L. J. and Myers, A. R., Interim report on exploration of the Beaver Mesa area, Mesa County, Colorado, and Grand County, Utah.*
- 728.

729.

730.

731. Eckstein, W. H., Photogeologic map, Moab-13 quadrangle, Grand and Emery Counties, Utah.*

732. Condon, W. H., Photogeologic map, Orange Cliffs-9 quadrangle, Garfield and Wayne Counties, Utah.*

733.

734.

735.

736.

737. Cass, J. T., Photogeologic map, Desert Lake-9 quadrangle, Emery County, Utah.*

738.

739.

740. Vickers, R. C., Uranium occurrences in the Bald Mountain mining district, Lawrence County, South Dakota.*

741. Vickers, R. C., An occurrence of an unidentified U mineral, Baraga County, Michigan.*
742. Vickers, R. C., Reconnaissance for radioactive deposits associated with the nepheline syenite complex near Wausau, Marathon County, Wisconsin.*
743. Henderson, J. R., Airborne radioactivity survey of parts of Baggs SW and SE quadrangles, Carbon and Sweetwater Counties, Wyoming.*
744. Henderson, J. R., Airborne radioactivity survey of parts of Sand Creek SE and SW quadrangles, Carbon County, Wyoming.*
745. Henderson, J. R., Airborne radioactivity survey of parts of Savery SE and SW quadrangles, Carbon County, Wyoming.*
746. Henderson, J. R., Airborne radioactivity survey of parts of Saratoga SE and SW quadrangles, Carbon County, Wyoming.*
747. Henderson, J. R., Airborne radioactivity survey of parts of Savery NE and NW quadrangles, Carbon County, Wyoming.*
748. Johnson, R. W., Airborne radioactivity survey of parts of Harney Peak and Hermosa quadrangles, Custer County, South Dakota.*
- 749.
- 750.
- 751.

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 the Technical Information Service (referred to as TIS) of the U. S. Atomic Energy Commission, or publication by the Geological Survey or in a scientific journal.

The following list is a reference guide to Geological Survey Trace Elements reports that are available to the public, through December 31, 1953. These reports are listed according to the type of publication or release.

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:

- 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

(Symbols continued on next page)

 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.)

- H - Atomic Energy Commission, Hot Springs Suboffice, Hot Springs, South Dakota
- IM - Idaho Bureau of Mines and Geology, Moscow, Idaho
- NY - Atomic Energy Commission, New York Raw Materials Office, New York, New York
- 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 St., 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.
- 71. Hinrichs, E. N., The pegmatites of the Errington-Thiel mine, Elko County, Nevada: Dec. 28, 1949: Office of Dr. Jay Carpenter, 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.
- 109. Fischer, R. P., The Uravan mineral belt: July 7, 1951: SL; GJ. (Superseded by 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: SL; T; D. (Superseded by Am. Mineralogist, v. 37, pp. 211-222, 1952).
- 120. Fletcher, M. H. and May, Irving, An improved fluorimeter for the determination of uranium in fluoride melts: Oct. 12, 1950.
- 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. (Superseded by Am. Mineralogist, v. 37, pp. 184-196, 1952).
- 129. Stern, T. W., A catalog of study material of radioactive minerals: Oct. 19, 1951: SL; T; D.
- 133. Fletcher, M. H., May, Irving, and Anderson, J. W., The design of the Model V transmission fluorimeter: Oct. 19, 1951: SL; T; D.

TEI

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.
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.
144. Phair, George and Onoda, Kiyoko, Hydrothermal uranothorite in fluorite breccias from the Blue Jay mine, Jamestown, Boulder County, Colorado: Oct. 19, 1951: SL; T; D. (Superseded by Am. Mineralogist, v. 37, pp. 659-666, 1952).
- 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: SL; T; D.
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: SL; T; D.
152. Cuttitta, Frank, A photometric method for the estimation of the oil yield of oil shale: Oct. 19, 1951: SL; T; D. (Superseded by 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: SL; D. (Superseded by C-220).
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: W; SL; IM; U; B; Geol. Survey, Montpelier, Idaho; Wyoming Geol. Survey, Laramie, Wyo. (Superseded by C-208).
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: U; W; SL; IM; B; Geol. Survey, Montpelier, Idaho; Wyoming Geol. Survey, Laramie, Wyo.: (Superseded by 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: U; W; SL; IM; B; Geol. Survey, Montpelier, Idaho; Wyoming Geol. Survey, Laramie, Wyo. (Superseded by C-211).

TEI

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: U; W; SL; IM; B; Geol. Survey, Montpelier, Idaho; Wyoming Geol. Survey, Laramie, Wyo. (Superseded by C-209 and C-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: U; W; SL; IM; B; Geol. Survey, Montpelier, Idaho; Wyoming Geol. Survey, Laramie, Wyo. (Superseded by 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: W; SL; IM; B; Wyoming Geol. Survey, Laramie, Wyo. (Superseded by 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. (Superseded by 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: W. B. Jones, Alabama Geol. Survey, University, Ala.; A. C. McFarlan, Kentucky Geol. Survey, Lexington, Ky.; W. D. Hardman, Division of Geol., State Office Bldg., Nashville, Tenn.
246. Swanson, R. W., McKelvey, V. E., and Sheldon, R. P., Progress report on investigations of western phosphate deposits: June 21, 1953: IM; D; SL; W; and Geol. Survey, Montpelier, Idaho. (Superseded by C-297).
254. Stugard, Frederick, Jr., Physical exploration for uranium during 1951 in the Silver Reef district, Washington County, Utah: Jan. 11, 1954: SL; D.
258. Cressman, E. R., Geology of the Dry Valley quadrangle, Idaho: Aug. 25, 1952: W; SL; IM.
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: W; B; IM.
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: W; SL; IM.

TEI

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.
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, Florida.
271. McKelvey, V. E., Cathcart, J. B., Altschuler, Z. S., Swanson, R. W., and Lutz, K., Domestic phosphate deposits: Mar. 30, 1953: D; SL; W; Geol. Survey, Plant City, Florida. (Superseded by chapter in Soil and fertilizer phosphorus in crop nutrition, v. IV of Agronomy, Academic Press, pp. 347-376, 1953).
279. Shoemaker, E. M. and Luedke, R. G., Map of the uranium region of the Colorado Plateau: Mar. 30, 1953: D; SL; GJ; T; New Mexico Bur. of Mines and Mineral Resources, Socorro, N. M.
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: SL; W; B. (Superseded by C-277).
287. Finch, W. I., Geology of the Shinarump No. 1 uranium mine, Seven Mile Canyon area, Grand County, Utah: Jan. 11, 1954: SL; GJ.
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: W; B; IM; Dept. of Geology, Indiana University, Bloomington, Ind.
323. Honkala, F. S., Preliminary report on geology of the phosphate deposits in the Centennial Range, Montana-Idaho: June 22, 1953: U; SL; IM; W; B; Geol. Survey, Montpelier, Idaho; Wyoming Geol. Survey, Laramie, Wyo.

b. Trace Elements Memorandum Reports

TEM

31. Klepper, M. R., Forty-Niner, King Solomon Ridge, and West End claims near Clancy, Jefferson County, Montana: Oct. 19, 1951: SL; T; D.
96. Staff, Wamsutter (Red Desert) area, Wyoming, progress report: Oct. 19, 1951: SL; T; D.
97. Staff, Colorado Front Range area, progress report: Oct. 19, 1951: SL; T; D.
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.
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.
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.
149. Jaffe, E. B. and Sherwood, A. M., Physical and chemical comparison of modern and fossil tooth and bone material: Oct. 19, 1951: SL; T; D.
183. Page, L. R., Interim report of geologic investigation, Lost Creek schroeckingerite deposits, Sweetwater County, Wyoming: Oct. 19, 1951: SL; T; D.
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: SL; D.
214. Stugard, Frederick, Jr., Uranium resources in the Silver Reef (Harrisburg) district, Washington County, Utah: Oct. 8, 1951: SL; D; U.
229. Roberts, W. A. and Gude, A. J., 3rd., Uranium-bearing deposits west of Clancy, Jefferson County, Montana: Mar. 14, 1952: W; B; Helena Public Library, Helena, Montana. (Superseded by B-988-F).
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. (Superseded by C-328)*.

TEM

251. Weeks, A. D., Red and gray clay underlying ore-bearing sandstone of the Morrison formation in western Colorado: Oct. 19, 1951: SL; T; D.
252. Fletcher, M. H. and Warner, E. R., A fluorimeter for solutions: Oct. 19, 1951: SL; T; D. (Superseded by 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; SL; GJ; T; Bureau of Mines and Mineral Resources, New Mexico School of Mines, Socorro, N. M.; 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. (Superseded in part by C-250).
364. Hackman, R. J., Photogeologic map, Aneth-2 quadrangle, San Juan County, Utah: Aug. 25, 1952: SL; D; GJ.
365. Hackman, R. J., Photogeologic map, Aneth-3 quadrangle, San Juan County, Utah: Aug. 25, 1952: SL; D; GJ.
366. Hackman, R. J., Photogeologic map, Aneth-4 quadrangle, San Juan County, Utah: Aug. 25, 1952: SL; D; GJ.
367. Hackman, R. J., Photogeologic map, Aneth-7 quadrangle, San Juan County, Utah: Aug. 25, 1952: SL; D; GJ.
368. Hackman, R. J., Photogeologic map, Aneth-8 quadrangle, San Juan County, Utah: Aug. 25, 1952: SL; D; GJ.
369. Hackman, R. J., Photogeologic map, Bluff-1 quadrangle, San Juan County, Utah: Aug. 25, 1952: SL; D; GJ.
370. Hackman, R. J., Photogeologic map, Bluff-8 quadrangle, San Juan County, Utah: Aug. 25, 1952: SL; D; GJ.
371. Ray, R. G., Photogeologic map, Bluff-13 quadrangle, San Juan County, Utah: Aug. 25, 1952: SL; D; GJ.
372. Tolbert, G. E., Photogeologic map, Carlisle-1 quadrangle, San Juan County, Utah: Aug. 25, 1952: SL; D; GJ.
373. Tolbert, G. E., Photogeologic map, Carlisle-8 quadrangle, San Juan County, Utah: Aug. 25, 1952: SL; D; GJ.

TEM

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

TEM

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

TEM

407. Hackman, R. J., Photogeologic map, Elk Ridge-8 quadrangle, San Juan County, Utah: Oct. 27, 1952: SL; D; GJ.
408. Hackman, R. J., Photogeologic map, Verdure-5 quadrangle, San Juan County, Utah: Oct. 8, 1952: SL; D; GJ.
409. Fischer, W. A., Photogeologic map, Clay Hills-13 quadrangle, Navajo Indian Reservation, San Juan County, Utah: Oct. 8, 1952: SL; D; GJ.
410. Hackman, R. J., Photogeologic map, Elk Ridge-1 quadrangle, San Juan County, Utah: Oct. 27, 1952: SL; D; GJ.
411. Eckstein, W. H., Photogeologic map, Agathla Peak-2 quadrangle, Navajo Indian Reservation, Navajo County, Arizona: Jan. 9, 1953: GJ; T; D.
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: SL; D; GJ.
438. Hackman, R. J., Photogeologic map, Verdure-4 quadrangle, San Juan County, Utah: Oct. 27, 1952: SL; D; GJ.
439. Ray, R. G., Photogeologic map, Setsiltso Springs-5 quadrangle, Navajo Indian Reservation, Apache County, Arizona: Oct. 27, 1952: D; GJ; T.
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: GJ; D; 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: SL; D; GJ.

TEM

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; SL; GJ.
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: SL; D; GJ.
467. Hackman, R. J., Photogeologic map, Mt. Peale-1 quadrangle, Grand and San Juan Counties, Utah, Montrose County, COLORADO: Feb. 5, 1953: SL; D; GJ.
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: SL; GJ; D.
470. Fischer, W. A. and Condon, W. H., Photogeologic map, Navajo Mountain-16 quadrangle, San Juan County, Utah: Feb. 5, 1953: SL; GJ; D.
499. Fischer, W. A. and Condon, W. H., Photogeologic map, Shanto Spring-1 quadrangle, Navajo Indian Reservation, Navajo County, Arizona: Feb. 5, 1953: SL; GJ; D; 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.

TEM

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. D.; University of Wyoming, Laramie, Wyo.; Bureau of Mines Office, Rapid City, S. D.; NY; DA; SLA; BA; GJA; H; R.
523. Ray, R. G., Photogeologic map, Orange Cliffs-11 quadrangle, Wayne and Garfield Counties, Utah: May 11, 1953: D; SL; GJ.
524. Ray, R. G., Photogeologic map, Orange Cliffs-12 quadrangle, Wayne and Garfield Counties, Utah: July 23, 1953: D; SL; GJ.
525. Hosley, V. M., Photogeologic map, Orange Cliffs-5 quadrangle, Wayne County, Utah: July 23, 1953: D; SL; GJ.
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.
530. Hemphill, W. R., Photogeologic map, Stinking Spring Creek-6 quadrangle, Emery County, Utah: June 22, 1953: D; SL; GJ.
531. Hackman, R. J., Photogeologic map, Circle Cliffs-10 quadrangle, Garfield County, Utah: May 11, 1953: D; GJ; SL.
532. Orkild, P. P., Photogeologic map, Stinking Spring Creek-4 quadrangle, Emery County, Utah: May 11, 1953: D; GJ; SL.
536. Witkind, I. J., and others, 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; SL; GJ; 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; SL; GJ.
544. Hosley, V. M., Photogeologic map, Carlisle-5 quadrangle, Wayne and San Juan Counties, Utah: July 23, 1953: D; SL; GJ.

TEM

545. Orkild, P. P., Photogeologic map, Stinking Spring Creek-15 quadrangle, Emery County, Utah: July 23, 1953: D; SL; GJ.
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.
549. Scott, J. M., Photogeologic map, Circle Cliffs-3 quadrangle, Garfield County, Utah: July 23, 1953: D; GJ; SL.
550. Hemphill, W. R., Photogeologic map, Stinking Spring Creek-7 quadrangle, Emery County, Utah: June 22, 1953: D; SL; GJ.
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.
586. Scott, J. M., Photogeologic map, Circle Cliffs-1 quadrangle, Garfield County, Utah: Aug. 17, 1953: D; GJ; SL.
587. Bates, C. E., Photogeologic map, Carlisle-6 quadrangle, San Juan County, Utah: Oct. 19, 1953: D; SL; GJ.
588. Condon, W. H., Photogeologic map, Emery-9 quadrangle, Emery County, Utah: Oct. 19, 1953: D; SL; GJ.
589. Hemphill, W. R., Photogeologic map, Stinking Spring Creek-2 quadrangle, Emery County, Utah: July 23, 1953: D; SL; GJ.
590. Hackman, R. J., Photogeologic map, Circle Cliffs-7 quadrangle, Garfield County, Utah: Aug. 17, 1953: D; GJ; SL.
591. Orkild, P. P., Photogeologic map, Emery-1 quadrangle, Emery County, Utah: Aug. 17, 1953: D; SL; GJ.
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.

TEM

595. Scott, J. M., Photogeologic map, Circle Cliffs-8 quadrangle, Garfield County, Utah: July 23, 1953: D; SL; GJ.
596. Hackman, R. J., Photogeologic map, Mt. Pennell-5 quadrangle, Garfield County, Utah: Aug. 17, 1953: D; GJ; SL.
597. Scott, J. M., Photogeologic map, Mt. Pennell-12 quadrangle, Garfield County, Utah: July 23, 1953: D; GJ; SL.
598. Hosley, V. M., Photogeologic map, Moab-15 quadrangle, Grand County, Utah: Aug. 17, 1953: 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: SL; W; IB.
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. D., Casper, and Sheridan, Wyo., Science Hall, University of Wyoming, Laramie, Wyo.; NY; DA; H; GJA; SLA; BA; R.
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. D., Casper and Sheridan, Wyo., University of Wyoming, Laramie, Wyo.; NY; DA; H; GJA; SLA; BA; R.
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; SF; SL; T; Geol. Survey Offices at Spencer Bldg., Room 5, Flagstaff, Ariz., Holbrook, Ariz., Hadley Hall, University of New Mexico, Albuquerque, N.M., Public Inquiries Office, Room 529 Post Office and Court House Bldg., Los Angeles, Calif.; Bureau of Mines Office, Rapid City, S. D.; NY; DA; GJA; H; SLA; BA; R.
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. D., Sheridan and Casper, Wyo., University of Wyoming, Laramie, Wyo.; Bureau of Mines, Rapid City, S. D.; NY; DA; GJA; H; SLA; BA.

TEM

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. D., Sheridan and Casper, Wyo., University of Wyoming, Laramie, Wyo.; Bureau of Mines, Rapid City, S. D.; NY; DA; GJA; H; SLA; BA; R.
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. D., Sheridan and Casper, Wyo., University of Wyoming, Laramie, Wyo.; Bureau of Mines, Rapid City, S. D.; NY; DA; GJA; H; SLA; BA; R.
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.
614. Hackman, R. J., Photogeologic map, Circle Cliffs-16 quadrangle, Garfield and Kane Counties, Utah: Sept. 16, 1953: D; GJ; SL.
615. Scott, J. M., Photogeologic map, Mt. Pennell-13 quadrangle, Garfield and Kane Counties, Utah: Sept. 16, 1953: D; GJ; SL.
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; SL; GJ.
619. Scott, J. M., Photogeologic map, Navajo Mountain-4 quadrangle, Kane County, Utah: Oct. 19, 1953: D; GJ; SL.
620. Scott, J. M., Photogeologic map, Navajo Mountain-6 quadrangle, San Juan and Kane Counties, Utah: Dec. 21, 1953: D; GJ; SL.
621. Hackman, R. J., Photogeologic map, Navajo Mountain-3 quadrangle, Kane and San Juan Counties, Utah: Oct. 19, 1953: D; GJ; SL.
633. Scott, J. M., Photogeologic map, Mt. Pennell-11 quadrangle, Garfield County, Utah: Oct. 19, 1953: D; GJ; SL.
634. Scott, J. M., Photogeologic map, Circle Cliffs-4 quadrangle, Garfield County, Utah: Dec. 21, 1953: D; GJ; SL.
635. Scott, J. M., Photogeologic map, Circle Cliffs-5 quadrangle, Garfield County, Utah: Oct. 19, 1953: D; GJ; SL.

TEM

636. Hackman, R. J., Photogeologic map, Circle Cliffs-11 quadrangle, Garfield County, Utah: Oct. 19, 1953: D; SL; GJ.
637. Hackman, R. J., Photogeologic map, Circle Cliffs-14 quadrangle, Garfield and Kane Counties, Utah: Oct. 19, 1953: D; SL; GJ.
638. Hosley, V. M., Photogeologic map, Straight Cliffs-1 quadrangle, Kane County, Utah: Oct. 19, 1953: D; SL; GJ.
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; SL; GJ.
641. Hackman, R. J., Photogeologic map, Circle Cliffs-15 quadrangle, Garfield and Kane Counties, Utah: Oct. 19, 1953: D; SL; GJ.
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, Florida State University, Tallahassee, Fla.; Florida Geol. Survey, Tallahassee, Fla.; Georgia Dept. of Mines, Mining and Geology, 425 State Capitol, Atlanta, Ga.; Bureau of Mines, Rapid City, S. D.; NY; DA; H; GJA; SLA; BA; R.
650. Hemphill, W. R., Photogeologic map, Stinking Spring Creek-9 quadrangle, Emery County, Utah: Nov. 25, 1953: D; SL; GJ.
651. Kent, B. H., Photogeologic map, Desert Lake-14 quadrangle, Emery County, Utah: Nov. 25, 1953: D; SL; GJ.
652. Bates, C. E., Photogeologic map, Moab-11 quadrangle, Grand County, Utah: Dec. 21, 1953: 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.

TEM

659. Orkild, P. P., Photogeologic map, Woodside-13 quadrangle, Emery County, Utah: Nov. 25, 1953: D; SL; GJ.
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; SL; GJ.
662. Scott, J. M., Photogeologic map, Straight Cliffs-2 quadrangle, Kane County, Utah: Jan. 11, 1954: D; SL; GJ.
663. Scott, J. M., Photogeologic map, Kaiparowits Peak-9 quadrangle, Garfield County, Utah: Dec. 21, 1953: D; GJ; SL.
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.
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.

c. Miscellaneous

- a. Cheney, T. M., Peterson, J. A., Sheldon, R. P., Smart, R. A., Waring, R. G., and Warner, M. A., Stratigraphic sections of the Phosphoria formation measured and sampled in 1951: Oct. 8, 1952: W; SL; IM; B; Wyoming Geol. Survey, Laramie, Wyo.
- b. Cheney, T. M., Sheldon, R. P., Cressman, E. R., Smart, R. A., and Carswell, L. D., Stratigraphic sections of the Phosphoria formation measured and sampled in 1952: June 1, 1953: SL; W; IM; B; U; Geol. Survey, Montpelier, Idaho; Wyoming Geol. Survey, Laramie, Wyo.
- c. Grimaldi, F. S., Quercetin as a colorimetric reagent for zirconium: Oct. 19, 1953.
- d. Kennedy, G. C., Preliminary report on the geology of a portion of the SE 1/4 Lyon quadrangle, Montana-Idaho: June 14, 1949: W; IM; B.
- e. Lowell, W. R., Geology of the Small Horn Canyon, Daly's Spur, Cedar Creek and Dell areas, southwestern Montana: Dec. 8, 1949: B; W.
- f. Luedke, R. G., Stratigraphy and structure of the Miners Mountain area, Wayne County, Utah: Aug. 17, 1953: SL.
- g. McKelvey, V. E., Preliminary report on the stratigraphy of the phosphatic shale member of the Phosphoria formation in western Wyoming, southeastern Idaho and northeastern Montana: Feb. 1947.
- h. Olson, J. C., Geologic setting of the Mountain Pass rare earth deposits, San Bernardino County, California: Oct. 27, 1952: SF; California Div. of Mines and Geology, Ferry Bldg., San Francisco, Calif.
- i. Olson, J. C., Preliminary report on the Dawley Canyon beryl deposits, Ruby Mountains, Elko County, Nevada: Oct. 14, 1949: Nevada Bureau of Mines, Reno, Nev.
- j. Olson, J. C., Preliminary report to accompany geologic map of the Mountain Pass District, San Bernardino County, California: Mar. 14, 1952: SL; D.
- k. Sharp, W. N. and Olson, J. C., Geologic map of the baritic carbonate body near Mountain Pass, San Bernardino County, California: June 26, 1951: D; SF; California Div. of Mines, Ferry Bldg., San Francisco, Calif.; Library, Dept. of Geology, California Institute of Technology, Pasadena, Calif.
- m. Sheldon, R. P., Cressman, E. R., Smart, R. A., Waring, R. G., Thompson, M. E., Weiser, J. D., Jones, R. J., and Peirce, H. W., Stratigraphic sections of the Phosphoria formation measured and sampled in 1949: Dec. 27, 1951: W; SL; IM; B; U; Geol. Survey Information Office, Montpelier, Idaho; Wyoming Geol. Survey, Laramie, Wyo.

- n. Shoemaker, E. M., Preliminary geologic map of part of the Sinbad Valley-Fischer Valley anticline, Colorado and Utah; Structure map and sections of the Sinbad Valley-Fischer Valley anticline, Colorado and Utah: Aug. 25, 1952: SL; D.
- o. Swanson, R. W., Geology of a part of the Virginia City and Eldridge quadrangles, Montana: Mar. 8, 1951: W; B; Geol. Library, Princeton University, Princeton, N. J.; Geol. Library, University of Minnesota, Minneapolis, Minn.
- p. Swanson, R. W., Waring, R. G., Peirce, H. W., Warner, M. A., and Smart, R. A., Stratigraphic sections of the Phosphoria formation measured and sampled in 1950: Dec. 27, 1951: W; SL; IM; B; U; Geol. Survey Information Office, Montpelier, Idaho; Wyoming Geol. Survey, Laramie, Wyo.

2. TRACE ELEMENTS REPORTS ISSUED BY THE U. S. ATOMIC ENERGY
COMMISSION, TECHNICAL INFORMATION SERVICE, OAK RIDGE, TENN.

Trace Elements reports that have been issued by Technical Information Service (referred to as TIS), are listed by Trace Elements Investigations and Trace Elements Memorandum Report numbers. The asterisk indicates that the report has not yet been released by TIS, or published. If TIS issued a Trace Elements Report under a different number, the TIS number is given after the title (i.e., TEI-23 was issued as AECD-1815 -- Atomic Energy Commission Declassified; TEM-444 was issued as TEM-444-A). The year listed is the date shown on the copy of the TIS issue.

These reports are on file at the U. S. Geological Survey Library, Room 1033, GSA Building, Washington 25, D. C., and at the following AEC depository libraries:

CALIFORNIA

Berkeley, University of California General Library
Los Angeles, University of California Library

COLORADO

Denver, Denver Public Library

CONNECTICUT

New Haven, Yale University Library

DISTRICT OF COLUMBIA

Washington, Library of Congress

GEORGIA

Atlanta, Georgia Institute of Technology Library

ILLINOIS

Chicago, John Crerar Library
Chicago, University of Chicago Library
Urbana, University of Illinois Library

INDIANA

Lafayette, Purdue University Library

IOWA

Ames, Iowa State College Library

KENTUCKY

Lexington, University of Kentucky Library

LOUISIANA

Baton Rouge, Louisiana State University Library

MASSACHUSETTS

Cambridge, Harvard University Library
Cambridge, Massachusetts Institute of Technology Library

MICHIGAN

Ann Arbor, University of Michigan Library
Detroit, Detroit Public Library

MINNESOTA

Minneapolis, University of Minnesota Library

MISSOURI

Kansas City, Linda Hall Library
St. Louis, Washington University Library

NEW JERSEY

Princeton, Princeton University Library

NEW MEXICO

Albuquerque, University of New Mexico

NEW YORK

Buffalo, Rockwood Memorial Library
Ithaca, Cornell University Library
New York, Columbia University Library
New York, New York Public Library
Troy, Rensselaer Polytechnic Institute

NORTH CAROLINA

Durham, Duke University Library
Raleigh, North Carolina State College Library

OHIO

Cincinnati, University of Cincinnati Library
Cleveland, Cleveland Public Library
Columbus, Ohio State University Library

OKLAHOMA

Stillwater, Oklahoma Agricultural and Mechanical College Library

OREGON

Corvallis, Oregon State College Library

PENNSYLVANIA

Philadelphia, University of Pennsylvania Library
Pittsburgh, Carnegie Library of Pittsburgh

TENNESSEE

Knoxville, University of Tennessee Library
Nashville, Joint University Libraries

TEXAS

Austin, University of Texas Library

UTAH

Salt Lake City, University of Utah Library

WASHINGTON

Seattle, University of Washington Library

WISCONSIN

Madison, University of Wisconsin Library

a. Trace Elements Investigations Reports

TEI

23. Grimaldi, F. S., Elimination of interference by nickel in the determination of uranium by means of zinc amalgam reducers: 1946; AECD-1815. (Superseded by Pt. 5 in B-1006)*
28. Schlecht, W. G., Control chart method applied to errors in radioactive counting: 1946; MDDC-695.
29. Fleischer, Michael and Cameron, E. N., Geochemistry of beryllium: 1946; MDDC-643.
- 31A. Foster, M. D., Stevens, R. E., Grimaldi, F. S., Schlecht, W. G., and Fleischer, Michael, Methods for the complete decomposition of rock and ore samples to be analyzed for very small amounts of uranium and thorium: 1946; AECD-1782. (Superseded by Pt. 2 in B-1006)*
- 31B. Foster, M. D. and Stevens, R. E., The determination of very small amounts of uranium in naturally occurring materials: 1946; AECD-2630. (Superseded by Pt. 4 in B-1006)*
- 31C. Grimaldi, F. S., The determination of very small amounts of uranium in rocks and minerals: 1946; AECD-2631. (Superseded by Pt. 3 in B-1006)*
- 31D. Fahey, J. J. and Foster, M. D., The determination of small amounts of thorium in rocks and minerals: 1946; AECD-2629. (Superseded by Pt. 19 in B-1006)*
- 31E. Grimaldi, F. S. and Fairchild, J. G., The determination of very small amounts of thorium in naturally occurring materials: 1946; AECD-2632. (Superseded by Pt. 18 in B-1006)*
- 31H. Fleischer, Michael and Harder, J. O., Geochemistry of Indium: 1946; MDDC-646.
- 31I. Fleischer, Michael and Harder, J. O., Geochemistry of germanium: 1946; MDDC-645.
- 31J. Fleischer, Michael and Harder, J. O., Geochemistry of columbium and tantalum: 1946; MDDC-644.
44. Grimaldi, F. S. and Marsh, C. A., The determination of thorium in high-grade and low-grade ores: 1947; AECD-2818. (Superseded by Pt. 20 in B-1006)*
47. Grimaldi, F. S. and Levine, Harry, The rapid fluorimetric determination of uranium in low-grade ores, a preliminary report: 1948; AECD-2824. (Superseded by Pt. 6 in B-1006)*

TEI

65. Nelson, J. M., Prospecting for uranium with car-mounted equipment, a progress report: 1949. (Superseded by B-988-I).
67. McKeown, F. A., Reconnaissance of radioactive rocks of Vermont, New Hampshire, Connecticut, Rhode Island, and southeastern New York: 1951.
68. Nelson, J. M. and Narten, P. F., Reconnaissance of radioactive rocks of Maine: 1951.
69. Johnson, D. H., Reconnaissance of radioactive rocks of Massachusetts: 1951.
70. Narten, P. F. and McKeown, F. A., Reconnaissance of radioactive rocks of the Hudson Valley and Adirondack Mountains, New York: 1952.
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: 1949; AECD-2825. (Superseded by Pt. 9 in B-1006).*
105. Levine, Harry and Grimaldi, F. S., Application of mesityl oxide to the determination of thorium: 1950; AECD-3186. (Superseded by Pt. 21 in B-1006)*.
118. Silverman, S. R., Fuyat, R. K., and Weiser, J. D., The quantitative determination of calcite associated with carbonate-bearing apatites: 1951. (Superseded by Am. Mineralogist, v. 37, nos. 3-4, pp. 211-222, 1952).
120. Fletcher, M. H. and May, Irving, An improved fluorimeter for the determination of uranium in fluoride melts: 1950. (Superseded by Pt. 10 in B-1006)*.
129. Stern, T. W., A catalog of study material of radioactive minerals: 1950.
130. Fletcher, M. H., A study of critical factors in the "direct" fluorimetric determination of uranium (and addendum): 1950. (Superseded by Pt. 8 in B-1006)*.
133. Fletcher, M. H., May, Irving, and Anderson, J. W., The design of the Model V transmission fluorimeter: 1950. (Superseded by Pt. 12 in B-1006)*.
140. Trites, A. F., Jr., and Tooker, E. W., Uranium and thorium deposits in east-central Idaho and southwestern Montana: 1952; TEI-140, Pt. 1. (Superseded by B-988-H).
142. Thompson, M. E., Distribution of uranium in rich phosphate beds of the Phosphoria formation: 1951. (Superseded by B-988-D).

TEI

143. Waring, C. L. and Ansell, C. S., A semiquantitative spectrographic method for the analysis of minerals, rocks, and ores: 1951. (With TEI-215--Anal. Chemistry, v. 25, no. 8, pp. 1174-79, 1953).
144. Phair, George and Onoda, Kiyoko, Hydrothermal uranothorite in fluorite breccias from the Blue Jay mine, Jamestown, Boulder County, Colorado: 1951. (Superseded by Am. Mineralogist, v. 37, nos. 7-8, pp. 659-666, 1952).
- 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: 1951.
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: 1951.
152. Cuttitta, Frank, A photometric method for the estimation of the oil yield of oil shale: 1951. (Superseded by chapter in B-992).
- 153A. Guttag, N.S. and Grimaldi, F. S., Fluorimetric determination of uranium in shales, lignites, and monazites after alkali carbonate separation: 1951. (Superseded by Pt. 15 in B-1006)*
179. Myers, A. T. and Barnett, P. R., Contamination of rock samples during grinding as determined spectrographically: 1952. (Superseded by Am. Jour. Sci., v. 251, pp. 814-830, Nov., 1953).
180. Craig, L. C., Holmes, C. N., Cadigan, R. A., Freeman, V. L., Mullens, T. E., and Weir, G. W., Preliminary report on the stratigraphy of the Morrison and related formations of the Colorado Plateau region: 1951. (To be part of B-1009).*
181. Pietsch, Audrey and Grimaldi, F. S., The fluorimetric determination of uranium in nonsaline and saline waters: 1952. (Superseded by Pt. 17 in B-1006)*
182. Rabbitt, J. C., Summary of the research work of the Trace Elements Section, Geochemistry and Petrology Branch, for the period July 1--September 30, 1951: 1952.
203. Smith, J. F., Jr., Hinrichs, E. N., and Luedke, R.G., Progress report on geologic studies in the Capital Reef area, Wayne County, Utah: 1952.
206. Rabbitt, J. C., Rubey, W. W., Butler, A. P., Jr., Lovering, T. S., and McKelvey, V. E., A preliminary outline of desirable research in the geochemistry of uranium: 1949.
207. Butler, A. P., Jr., The Geological Survey's work on the geology of uranium and thorium deposits: 1952.

- TEI
208. McKelvey, V. E., Trace elements work of the Geological Survey: 1951.
209. Cannon, R. S., Jr., Geological Survey's work on isotope geology of uranium and thorium and their decay products: 1952.
210. Cuttitta, Frank, A volumetric method for the estimation of the oil yield of oil shale: 1952. (Superseded by chapter in B-992).
211. Stead, F. W., The Geological Survey's work on development of prospecting tools, instruments, and techniques: 1952.
212. Cathcart, J. B. and Davidson, D. F., Distribution and origin of phosphate in the land-pebble district of Florida: 1952.
213. Gordon, E. D., Withington, C. F., and Dow, V. T., Practices and results obtained with sample collectors for wagon-drill cuttings: 1953.
215. Waring, C. L. and Ansell, C. S., A semiquantitative spectrographic method for the analysis of minerals, rocks, and ores (II): 1952. (With TEI-143--Anal. Chemistry, v. 25, no. 8, pp. 1174-9, 1953).
216. Waring, C. L. and Worthing, Helen, A spectrographic method for determining trace amounts of lead in zircon and other minerals: 1952. (Superseded by Am. Mineralogist, v. 38, nos. 9-10, pp. 827-33, 1953).
218. Rabbitt, J. C., Summary of the research work of the Trace Elements Section, Geochemistry and Petrology Branch, for the period October 1--December 31, 1951: 1952.
223. Cuttitta, Frank, The colorimetric determination of total iron with O-phenanthroline: a spectrophotometric study: 1953.
236. Milkey, R. G., A theoretical treatment of the absorption characteristics of the dithizone mixed-color system: 1952. (Superseded by Anal. Chemistry, v. 24, no. 10, pp. 1675-76, 1952).
239. Waring, C. L. and Mela, Henry, Jr., The determination of small amounts of rare earths in phosphate rocks: 1952. (Superseded by Anal. Chemistry, v. 25, no. 3, pp. 432-5, 1953).
244. Cook, K. L. and Moss, C. K., Geophysical observations in parts of the Grants district, McKinley County, New Mexico: 1952; TEI-244, Pt. 1.
245. Milkey, R. G., Methods of analysis used in the treatment of Colorado Plateau carnotite for age studies: 1952.
247. Phair, George, Radioactive Tertiary porphyries in the Central City district, Colorado, and their bearing upon pitchblende deposition: 1952.
255. Dings, M. G. and Schafer, M., Radiometric reconnaissance in the Garfield and Taylor Park quadrangles, Chaffee and Gunnison Counties, Colorado: 1953.

TEI

262. Phair, George and Levine, Harry, Notes on the differential leaching of uranium, radium, and lead from pitchblende in H_2SO_4 solutions: 1952. (Superseded by Econ. Geol., v. 48, no. 5, pp. 358-369, 1953).
267. Tucker, W. P. and Waring, C. L., The effect of ashing temperatures on the volatility of germanium in lignite samples: 1952.
270. Staff, Trace Elements research quarterly progress report, January 1 to March 31, 1952: 1953; TEI-270, Pt. 1.
275. Thompson, M. E., Further studies of the distribution of uranium in rich phosphate beds of the Phosphoria formation: 1952. (To be part of B-1009)*
280. Staff, Trace Elements research quarterly progress report, April 1 to June 10, 1952: 1953.
281. Vine, J. D. and Moore, G. W., Reconnaissance for uranium-bearing carbonaceous rocks in northwestern Colorado, southwestern Wyoming and adjacent parts of Utah and Idaho: 1952.
285. Weeks, A. D., Mineralogic study of some Jurassic and Cretaceous claystones and siltstones from western Colorado and eastern Utah: 1953.
296. Dings, M. G., Radiometric reconnaissance near Montezuma, Summit County, Colorado: 1953.
308. Beroni, E. P. and McKeown, F. A., Reconnaissance for uraniferous rocks in northwestern Colorado, southwestern Wyoming and northeastern Utah: *
311. Sims, P. K. and Phair, George, Geology of the Copper King mine area, Prairie Divide, Larimer County, Colorado: 1952.
317. McKeown, F. A. and Klemic, Harry, Reconnaissance for radioactive materials in northeastern United States during 1952. *; TEI-317A.
318. Rosholt, J. N., Jr., A quantitative radiochemical method for the determination of the major sources of natural radioactivity in ores and minerals: 1953.
324. Portnov, A. I., translated by V. L. Skitsky, The use of aromatic compounds of arsenic in chemical analysis, part I: 1953.
326. Cuttitta, Frank and Kinser, C. A., An improved tubular electric furnace for the closed-tube distillation of oil from oil shale: 1953.
328. Finch, W. I., Geologic aspects of the resource appraisal of uranium deposits in pre-Morrison formations on the Colorado Plateau-an interim report: 1953; TEI-328A.

TEI

330. Staff, Search for and geology of radioactive deposits, semiannual progress report, Dec. 1, 1952 to May 31, 1953: 1953.
369. Kostyleva, E. E., translated by Taisia Stadnichenko, On metamictic disintegration of the zircon group of minerals: *
390. Staff, Geologic investigations of radioactive deposits, semiannual progress report, June 1 to November 30, 1953: *

b. Trace Elements Memorandum Reports

TEM

9. Wyant, D. G., Treasure Hill area, Larimer County, Colorado: 1951; TEM-9B.
10. Wyant, D. G., Lost Creek (Wamsutter) schroeckingerite deposit, Sweetwater County, Wyoming: 1952; TEM-10B.
13. King, R. U., Vein deposits of uranium at the Caribou mine, Boulder County, Colorado: 1952; TEM-13A.
24. King, R. U. and Granger, H. C., Torbernite occurrence at the Robineau claims, Clear Creek County, Colorado: 1952; TEM-24A.
30. Vhay, J. S., Reconnaissance examination for uranium at six mines and properties in Idaho and Montana: 1951; TEM-30A.
31. Klepper, M. R., Forty-Niner, King Solomon Ridge, and West End claims near Clancy, Jefferson County, Montana: 1950.
96. Staff, Wamsutter (Red Desert) area, Wyoming, progress report: 1951; TEM-96A.
97. Staff, Colorado Front Range area, progress report: 1951; TEM-97A.
102. King, R. U., Investigations in the Wood mine, Colorado: 1951; TEM-102A.
133. Beroni, E. P. and King, R. U., The Mike Doyle carnotite deposit, El Paso County, Colorado: 1952; TEM-133A.
145. Kaiser, E. P., The Papsy's Hope autunite prospect, Marysvale district, Piute County, Utah: 1952; TEM-145A.
146. Granger, H. C. and Bauer, H. L., Jr., Results of diamond drilling, Merry Widow claim, White Signal, Grant County, New Mexico: 1951; TEM-146A.
147. Nelson, R. A., Sharp, W. N., and Stead, F. W., Airborne radioactivity survey of the Red Desert region, Sweetwater County, Wyoming: 1951.
149. Jaffe, E. B. and Sherwood, A. M., Physical and chemical comparison of modern and fossil tooth and bone material: 1951.
165. Staatz, M. H. and Bauer, H. L., Jr., Preliminary examination of the uranium prospect at the Spider No. 1 claim, Honeycomb Hills, Juab County, Utah: 1950.
167. Staatz, M. H. and Bauer, H. L., Jr., A preliminary report on radioactive fluorite deposits, Thomas Range, Juab County, Utah: 1951; TEM-167A.

TEM

183. Page, L. R., Interim report of geologic investigation, Lost Creek schroeckingerite deposits, Sweetwater County, Wyoming: 1950; TEM-183A.
232. Davis, W. E., Electrical resistivity investigations of carnotite deposits in the Colorado Plateau: 1951.
236. McKelvey, V. E., Cathcart, J. B., and Worthing, H. W., Preliminary note on the minor-metal content of Florida phosphate rock: 1951.
251. Weeks, A. D., Red and gray clay underlying ore-bearing sandstone of the Morrison formation in western Colorado: 1951.
252. Fletcher, M. H. and Warner, E. R., A fluorimeter for solutions: 1951. (Superseded by C-311).
255. Stewart, R. H., Radiometric reconnaissance examination in southeastern Pennsylvania and western New Jersey: 1951.
306. Sakakura, A. Y., Theory of gamma-ray logging: preliminary calculations: 1951.
323. Wedow, Helmuth, Jr., Adaptation of portable survey meters for airborne reconnaissance with light planes in Alaska: 1951.
336. Duncan, D. C., Preliminary report on a uranium-bearing rhyolitic tuff deposit near Coaldale, Esmeralda County, Nevada: 1952. (Superseded by C-291).
337. Davidson, D. F., Relation of "topography" of the Hawthorn formation to size of phosphate particles in the deposits, and to topography in the northern part of the land-pebble phosphate field, Florida: 1952.
360. Moxham, R. M., Airborne radioactivity surveys in the Mojave Desert region, Kern, Riverside, and San Bernardino Counties, California: 1952.
362. Davidson, D. F., Grain size distribution in the surface sands, and the economic phosphate deposits of the land-pebble phosphate district, Florida: 1952.
434. Schnabel, R. W. and Vickers, R. C., Reconnaissance of the Clinton formation in New York, Pennsylvania, Maryland, and New Jersey: 1953.
444. Duncan, D. C., Results of reconnaissance for uranium in nonmarine carbonaceous rocks in parts of California, Idaho, Nevada, Oregon, Utah, and Washington during 1951 and 1952: TEM-444-A.*
445. Tourtelot, H. A., Reconnaissance for uraniferous rocks in northeastern Wind River Basin, Wyoming: 1952.

TEM

509. Manger, G. E. and Gates, G. L., Progress report on original-state core studies (Joint report -- USGS and Bureau of Mines): 1953.
676. Davidson, D. F., Distribution of coarse- and fine-grained rocks in the Wasatch formation and their relationship to uranium deposits, Powder River Basin, Wyoming: 1953.
677. Davidson, D. F., Reconnaissance for uranium in the Powder River Basin, Wyoming: 1953.

3. CIRCULARS

Free on application to the
Geological Survey, Washington 25, D. C.

(* Indicates Circular is in process)

Cir. No.

74. Frondel, J. W. and Fleischer, Michael, A glossary of uranium- and thorium-bearing minerals, Apr. 1950 (TEI-103). (Superseded by C-194).
111. Stokes, W. L., Carnotite deposits in the Carrizo Mountains area, Navajo Indian Reservation, Apache County, Arizona, and San Juan County, New Mexico, May 1951.
135. Jaffe, E. B., Abstracts of the literature on synthesis of apatites and some related phosphates, Dec. 1951 (TEI-132, pt. 1).
137. Kaiser, E. P., Uraniferous quartzite, Red Bluff prospect, Gila County, Arizona, Oct. 1951 (TEM-210).
142. Staatz, M. H. and Bauer, H. L., Jr., Virgin Valley opal district, Humboldt County, Nevada, Dec. 1951 (TEM-227).
175. Page, L. R. and Redden, J. A., Carnotite prospects of the Craven Canyon area, Fall River County, South Dakota, Mar. 1952 (TEM-152).
176. Love, J. D., Preliminary report on uranium deposits in the Pumpkin Buttes area, Powder River Basin, Wyoming, Mar. 1952.
184. Moxham, R. M. and Nelson, A. E., Reconnaissance for radioactive deposits in south-central Alaska, 1947-1949, Aug. 1952 (TEI-48, -191, TEM-326).
185. White, M. G., Reconnaissance for radioactive deposits along the upper Porcupine and lower Coleen Rivers, northeastern Alaska, July 1952 (TEI-55, -57B).
186. Moore, F. B. and Butler, C. R., Pitchblende deposits at the Wood and Calhoun mines, Central City mining district, Gilpin County, Colorado, Oct. 1952 (TEM-198).
189. Granger, H. C. and Bauer, H. L., Jr., Uranium occurrences on the Merry Widow claim, White Signal district, Grant County, New Mexico, Oct. 1952 (TEI-157).
194. Frondel, J. W. and Fleischer, Michael, A glossary of uranium- and thorium-bearing minerals, second edition, June 1952 (Revision of C-74).

Cir. No.

195. White, M. G., Radioactivity of selected rocks and placer concentrates from northeastern Alaska, Oct. 1952 (TEI-57C, TEM-327).
196. White, M. G., West, W. S., Tolbert, G. E., Nelson, A. E., and Houston, J. R., Preliminary summary of reconnaissance for uranium in Alaska, 1951, June 1952 (TEM-319, 320, 321, 322).
199. Grimaldi, F. S., May, Irving, and Fletcher, M. H., U. S. Geological Survey fluorimetric methods of uranium analysis, Nov. 1952 (TEI-219).
202. Bates, R. G. and Wedow, Helmuth, Jr., Preliminary summary review of the thorium-bearing mineral occurrences in Alaska, Jan. 1953 (TEM-339).
207. Moxham, R. M. and Nelson, A. E., Reconnaissance for radioactive deposits in the southern Cook inlet region, Alaska, 1949, Dec. 1952 (TEI-74A, - 190).
208. McKelvey, V. E., and others, Stratigraphic sections of the Phosphoria formation in Idaho, 1947-48, Part I, Apr. 1953 (TEI-183).
209. Swanson, R. W., and others, Stratigraphic sections of the Phosphoria formation in Montana, 1947-48, May 1953 (pt. of TEI-186).
210. McKelvey, V. E., and others, Stratigraphic sections of the Phosphoria formation in Wyoming, 1947-48, May 1953 (TEI-184).
211. Smith, L. E., and others, Stratigraphic sections of the Phosphoria formation in Utah, 1947-48, Apr. 1953 (TEI-185).
212. Vine, J. D. and Moore, G. W., Uranium-bearing coal and carbonaceous rocks in the Fall Creek area, Bonneville County, Idaho, Nov. 1952 (TEM-340).
213. Harrison, J. E. and Leonard, B. F., Preliminary report on the Jo Reynolds area, Lawson-Dumont district, Clear Creek County, Colorado, Dec. 1952 (TEM-153).
214. West, W. S. and White, M. G., The occurrence of zeunerite at Brooks Mountain, Seward Peninsula, Alaska, Dec. 1952 (TEI-221).
215. King, R. U., and others, Uranium in the metal-mining districts of Colorado, Apr. 1953 (TEI-173).
217. Benson, W. E., Trites, A. F., Jr., Beroni, E. P., and Feeger, J. A., Preliminary report on the White Canyon area, San Juan County, Utah, Nov. 1952 (TEM-325).
219. Gott, G. B. and Erickson, R. L., Reconnaissance of uranium and copper deposits in parts of New Mexico, Colorado, Utah, Idaho, and Wyoming, Dec. 1952 (TEI-232, pt. 1).
220. Kaiser, E. P., and others, Selected papers on uranium deposits in the United States, Dec. 1952 (TEI-168).

Cir. No.

224. Waters, A. C. and Granger, H. C., Volcanic debris in uraniferous sandstones, and its possible bearing on the origin and precipitation of uranium, Jan. 1953 (TEI-170).
234. Stich, J. N., Spectrographic identification of mineral grains, Jan. 1953 (TEI-274).
236. Burbank, W. S. and Pierson, C. T., Preliminary results of radiometric reconnaissance of parts of the northwestern San Juan Mts., Colorado, Feb. 1953 (TEM-310).
239. Beroni, E. P., McKeown, F. A., Stugard, Frederick, Jr., and Gott, G. B., Uranium deposits of the Bulloch group of claims, Kane County, Utah, Mar. 1953 (TEM-213).
244. White, M. G., West, W. S., and Matzko, J. J., Reconnaissance for radioactive deposits in the vicinity of Teller and Cape Nome, Seward Peninsula, Alaska, 1946-47, Feb. 1953 (TEI-40, -45, pt. 2).
245. Lang, A. J., Jr., and Redden, J. A., Geology and pegmatites of part of the Fourmile area, Custer County, South Dakota, Mar. 1953 (TEI-155, pt. 1).
248. Wedow, Helmuth, Jr., and others, Preliminary summary of reconnaissance for uranium and thorium in Alaska, 1952, Mar. 1953 (TEM-552).
250. Gault, H. R., and others, Reconnaissance for radioactive deposits in the northeastern part of the Seward Peninsula, Alaska, 1945-47, and 1951, Apr. 1953 (TEI-25, -41, pt. 1, -42, pt. 2, -49, TEM-355).
251. Hail, W. J., Jr., and Gill, J. R., Results of reconnaissance for uraniferous coal, lignite, and carbonaceous shale in western Montana, Mar. 1953 (TEM-446).
255. White, M. G. and Killeen, P. L., Reconnaissance for radioactive deposits in the lower Yukon-Kuskokwim Highlands region, Alaska, Apr. 1953 (TEI-45, pt. 1, -46).
260. Klepper, M. R., and others, Stratigraphic sections of the Phosphoria formation in Montana, 1948, Sept. 1953 (pt. of TEI-186).
262. O'Malley, F. W., and others, Stratigraphic sections of the Phosphoria formation in Idaho, part III, Sept. 1953 (TEI-188).
264. Cannon, H. L., Geobotanical reconnaissance near Grants, New Mexico, Apr. 1953 (TEM-272).
265. Moxham, R. M. and West, W. S., Radioactivity investigations in the Serpentine-Kougarok area, Seward Peninsula, Alaska, 1946, Apr. 1953 (TEI-39).

Cir. No.

271. Stieff, L. R., Stern, T. W., and Milkey, R. G., A preliminary determination of the age of some uranium ores of the Colorado Plateau by the lead-uranium method, July 1953 (TEI-268).
277. Becraft, C. E., Preliminary report on the Comet area, Jefferson County, Montana, Sept. 1953 (TEI-282).
278. Love, J. D., Preliminary report on uranium deposits of the Miller Hill area, Carbon County, Wyoming, July 1953 (TEI-315, pt. 1).
279. White, M. G. and Stevens, J. M., Reconnaissance for radioactive deposits in the Ruby-Poorman and Nixon-Fork districts, west central Alaska, 1949, Aug. 1953 (TEI-75, -192).
281. Curtis, Diane and Houser, S. S., Bibliography of U. S. Geological Survey Trace Elements and related reports, Sept. 1953 (pt. 2 of TEI-301).
286. Vickers, R. C., An occurrence of autunite, Lawrence County, South Dakota, July 1953 (TEM-559).
290. Christman, R. A., Heyman, A. M., Dellwig, L. F., and Gott, G. B., Thorium investigations, 1950-1952, Wet Mountains, Colorado, Nov. 1953 (TEI-250).
291. Duncan, D. C., A uranium bearing rhyolitic tuff deposit near Coaldale, Esmeralda County, Nevada, Aug. 1953 (TEM-336).
294. Pierson, C. T. and Singewald, Q. D., Results of reconnaissance for radioactive minerals in parts of the Alma district, Park County, Colorado, Sept. 1953 (TEI-248, pt. 1).
297. Swanson, R. W., McKelvey, V. E., and Sheldon, R. P., Progress report on investigations of western phosphate deposits, Nov. 1953 (TEI-246, pt. 1).
300. West, W. S., Reconnaissance for radioactive deposits in the Darby Mountains district, Seward Peninsula, Alaska, 1948, Nov. 1953 (TEI-53).
301. McKelvey, V. E., and others, Stratigraphic sections of the Phosphoria formation in Idaho, 1947-48, part II, Nov. 1953 (TEI-187).
302. Cressman, E. R., and others, Stratigraphic sections of the Phosphoria formation in Montana, 1949-50, part I, Nov. 1953 (TEI-361).
303. Swanson, R. W., and others, Stratigraphic sections of the Phosphoria formation in Montana, 1949-50, part II, Dec. 1953 (TEI-362).
304. Sheldon, R. P., Stratigraphic sections of the Phosphoria formation in Idaho, 1949, part I, Nov. 1953 (TEI-364).

Cir. No.

305. Davidson, D. F., and others, Stratigraphic sections of the Phosphoria formation in Idaho, 1949, part II, Dec. 1953 (TEI-365).
306. Cheney, T. M., and others, Stratigraphic sections of the Phosphoria formation in Utah, 1949-51, Nov. 1953 (TEI-360).
307. Sheldon, R. P., and others, Stratigraphic sections of the Phosphoria formation in Wyoming, 1949-50, Dec. 1953 (TEI-363).
- 309.* Griffiths, W. R., Beryllium resources of the tin-spodumene belt, North Carolina, (TEI-249, pt. 1).
- 311.* Fletcher, M. H. and Warner, E. R., A fluorimeter for solutions, (TEM-252).
- 312.* Wilmarth, V. R., and others, Yellow Canary uranium deposits, Daggett County, Utah, (TEI-124, pt. 1).
- 313.* Moore, G. W. and Stephens, J. C., Reconnaissance for uranium-bearing carbonaceous rocks in California and adjacent parts of Oregon and Nevada, (TEI-337).
- 316.* Wedow, Helmuth, Jr., Reconnaissance for radioactive deposits in the Eagle-Nation area, east-central Alaska, 1948, (TEI-56).
- 317.* Moxham, R. M., Reconnaissance for radioactive deposits in the Manley Hot Springs-Rampart district, central Alaska, 1948, (TEI-54).
- 319.* White, M. G. and West, W. S., Reconnaissance for uranium in the Lost River area, Seward Peninsula, Alaska, 1951, (TEI-220).
- 320.* Adams, J. W., and others, Uranium occurrences in the Golden Gate Canyon and Ralston Creek areas, Jefferson County, Colorado, (TEM-154, pt. 1).
- 321.* Singewald, Q. D. and Pierson, C. T., Occurrence of uranium-bearing minerals in the St. Kevin district, Lake County, Colorado, (TEI-234, pt. 1).
- 322.* Wyant, D. G., The East Slope No. 2 uranium prospect, Piute County, Utah, (TEM-211).
- 324.* Cheney, T. M., and others, Stratigraphic sections of the Phosphoria formation in Wyoming, 1951, (TEI-377).
- 325.* Sheldon, R. P., and others, Stratigraphic sections of the Phosphoria formation in Wyoming, 1952, (TEI-378).
- 326.* Peterson, J. A., Gosman, R. F., and Swanson, R. W., Stratigraphic sections of the Phosphoria formation in Montana, 1951, (TEI-375).

Cir. No.

- 327.* Smart, R. A., and others, Stratigraphic sections of the Phosphoria formation in Idaho, 1950-51, (TEI-376).
- 328.* West, W. S., Reconnaissance for radioactive deposits in selected areas of the lower Yukon-Kuskokwim region, Alaska, 1952, (TEI-291).

4. BULLETINS

For sale by the Superintendent of Documents,
U. S. Government Printing Office
Washington 25, D. C., at the price indicated.

(* Indicates Bulletin is in process)

Bull. No.

936. Strategic minerals investigations, 1942.
(Issued only in separate chapters)

(P) Fischer, R. P., Vanadium deposits of Colorado and Utah, a preliminary report, 1942. 30¢

982. Contributions to economic geology, 1952.
(Issued only in separate chapters)

(D) Adams, J. W., Beryllium deposits of the Mt. Antero region, Chaffee County, Colorado, Apr. 1953. (TEI-126). 15¢

988. Contributions to the geology of uranium, 1952.
(Issued only in separate chapters)

(A) Fischer, R. P. and Hilpert, L. S., Geology of the Uravan mineral belt, Sept. 1952. (Revised TEI-109). 35¢

(B) Weir, Doris Blackman, Geologic guides to prospecting for carnotite deposits on Colorado Plateau, Aug. 1952. (TEI-119). 15¢

(C) Staatz, M. H. and Bauer, H. L., Jr., Uranium in the East Walker River area, Lyon County, Nevada, Feb. 1953. (TEM-228). 35¢

(D) Thompson, M. E., Distribution of uranium in rich phosphate beds of the Phosphoria formation, Jan. 1953. (TEI-142). 15¢

(E) Gott, G. B. and Hill, J. W., Radioactivity in some oil fields of southeastern Kansas, Apr. 1953. (TEI-121). \$1.00

(F) Roberts, W. A. and Gude, A. J., 3rd., Uranium-bearing deposits west of Clancy, Jefferson County, Montana, June 1953. (TEM-229). 45¢

(G) Roberts, W. A. and Gude, A. J., 3rd., Geology of the area adjacent to the Free Enterprise mine, Jefferson County, Montana, Dec. 1953. (TEM-140). \$1.50

(B-988 continued)

Bull. No.

988. Contributions to the geology of uranium, 1952. (Continued)

(H) Trites, A. F., Jr., and Tooker, E. W., Uranium and thorium deposits in east-central Idaho, southwestern Montana, Oct. 1953. (TEI-140). 35¢

(I) Nelson, J. M., Prospecting for uranium with car-mounted equipment, Oct. 1953. (TEI-65). 15¢

992. Contributions to geochemistry, 1949.

Brannock, W. W., and others, Contributions to geochemistry, 1949, Aug. 1953. (TEI-60, -99, -152, -210). 65¢

1005.* Thurston, W. R., and others, Fluorspar deposits of Utah. (Includes TEI-136).

1006.* Edited by Grimaldi, F. S., May, Irving, Fletcher, M. H., and Titcomb, Jane, Collected papers on methods of analysis for uranium and thorium developed by the U. S. Geological Survey. (TEI-23, -31A, -31B, -31C, -31D, -31E, -44, -47, -98, -104, -105, -120, -130, -133, -134, -135, -153A, -178, -181, TEM-316).

1009.* Contributions to the geology of uranium, 1953.
(Issued only in separate chapters)

(A)* Wilmarth, V. R. and Johnson, D. H., Uranophane at Silver Cliff mine near Lusk, Wyoming. (TEI-158).

* Craig, L. C., and others, Preliminary report on the stratigraphy of the Morrison and related formations of the Colorado Plateau region. (TEI-180).

* Lovering, T. G., Radioactive deposits of Nevada. (TEI-169).

* Thompson, M. E., Further studies of the distribution of uranium in rich phosphate beds of the Phosphoria formation. (TEI-275).

* Thurston, R. H. and Trites, A. F., Jr., The uranium, tin, and copper deposits at Majuba Hill, Pershing County, Nevada. (TEI-171).

* Wyant, D. G., Sharp, W. N., and Sheridan, D. W., Uranium deposits in the Red Desert of the Great Divide Basin, Sweetwater County, Wyoming. (TEI-122).

1011.* Thurston, W. R., Pegmatites of the Crystal Mountain district, Larimer County, Colorado. (TEI-139).

Bull. No.

1015.* Contributions to economic geology, 1954.

(Issued only in separate chapters)

* Cressman, E. R. and Gulbrandsen, R. A., Geology of the Dry Valley quadrangle, Idaho. (TEI-258).

* Sheridan, Douglas M., Geology of the High Climb pegmatite, Custer County, South Dakota. (TEI-231).

5. PROFESSIONAL PAPERS

For sale by the Superintendent of Documents,
U. S. Government Printing Office
Washington 25, D. C., at the price indicated.

(* Indicates Professional Paper is in process)

P. No.

227. Hanley, J. B., Heinrich, E. Wm., and Page, L. R., Pegmatite investigations in Colorado, Wyoming, and Utah, 1942-44: 1950. \$1.50
- 261.* Olson, J. E., and others, Rare-earth mineral deposits of the Mountain Pass district, San Bernardino County, California: (Includes TEI-251)
- 265.* Staatz, M. H. and Trites, A. F., Jr., Geology of the Quartz Creek pegmatite district, Gunnison County, Colorado: (TEI-138)

6. U. S. GEOLOGICAL SURVEY OIL AND GAS MAPS AND
MINERALS INVESTIGATIONS PRELIMINARY MAPS AND REPORTS

(* Indicates publication is in process)

If copies are available, they may be obtained by application to the Director, Geological Survey, Washington 25, D. C., or to the Distribution Section, Geological Survey, Denver Federal Center, Denver, Colorado.

- a. 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.
- b. 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 Strategic Minerals Investigations Preliminary Map 3-226, 1949. 30¢)
- c. Huddle, J. W. and McCann, F. T., Geologic map of the Duchesne River area, Wasatch and Duchesne Counties, Utah: U. S. Geol. Survey Preliminary Oil and Gas Map No. 75, Sept. 1947. 60¢
- d. Huddle, J. W., Mapel, W. J., and McCann, F. T., Geology of the Moon Lake area, Duchesne County, Utah: U. S. Geol. Survey Oil and Gas Map Series, OM-115, 1951. 50¢
- e. Hunt, C. B., and others, Geologic map of the Henry Mountains region, Utah: U. S. Geol. Survey Oil and Gas Map Series, OM-131, May 21, 1952. \$1.00
- f. Kinney, D. M., Geology of the Uinta River and Brush Creek-Diamond Mountain area, Duchesne and Uintah Counties, Utah: U. S. Geol. Survey Oil and Gas Map Series, OM-123, 1951. 75¢
- g. Love, J. D., Henbest, L. G., and Denson, N. M., Stratigraphy and paleontology of Paleozoic rocks, Hartville area, eastern Wyoming: U. S. Geol. Survey Oil and Gas Investigations Chart 44, 1953. 2 sheets. \$1.00 per set.
- h. Sharp, W. N. and Pray, L. C., Geologic map of bastnaesite deposits of the Birthday claims, San Bernardino County, California: U. S. Geol. Survey Mineral Investigations Field Studies Map 4, 1952. 75¢
- i. 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¢

- j. Stokes, W. L. and Phoenix, D. A., Geology of the Egnar-Gypsum Valley area, San Miguel and Montrose Counties, Colorado: U. S. Geol. Survey Oil and Gas Investigations Preliminary Map 93, 1948. 50¢
- k. Strobell, J. D., Jr., Geology of the Carrizo Mountains area in north-eastern Arizona and northwestern New Mexico: U. S. Geol. Survey Oil and Gas Investigations Map Series, * (TEM-415-430 inclusive).

7. GEOLOGIC QUADRANGLE MAP SERIES

(* Indicates publication is in process)

When published, these maps may be purchased, flat or folded, from the U. S. Geological Survey, Washington 25, D. C.

Anderson Mesa, Montrose and San Miguel Counties, Colorado. Geology of, by Fred W. Cater, Jr., with a section on "The Mines" by C. F. Withington: * (TEM-690).

Atkinson Creek, Montrose County, Colorado. Geology of, by E. J. McKay: * (TEM-691).

Bull Canyon, Montrose and San Miguel Counties, Colorado. Geology of, by Fred W. Cater, Jr.: * (TEM-692).

Calamity Mesa, Mesa County, Colorado. Geology of, by Fred W. Cater, Jr.: * (TEM-693).

Davis Mesa, Montrose County, Colorado. Geology of, by Fred W. Cater, Jr., with a section on "The Mines" by Leonid Bryner: * (TEM-694).

Egnar, Dolores and San Miguel Counties, Colorado. Geology of, by Fred W. Cater, Jr., with a section on "The Mines" by A. L. Bush and Henry Bell, III: * (TEM-695).

Gateway, Mesa County, Colorado. Geology of, by Fred W. Cater, Jr.: * (TEM-696).

Gypsum Gap, San Miguel County, Colorado. Geology of, by Fred W. Cater, Jr.: * (TEM-697).

Hamm Canyon, San Miguel County, Colorado. Geology of, by Fred W. Cater, Jr.: * (TEM-698).

Horse Range Mesa, San Miguel County, Colorado. Geology of, by Fred W. Cater, Jr., with a section on "The Mines" by A. L. Bush, Henry Bell, III, and C. F. Withington: * (TEM-699).

Joe Davis Hill, Dolores and San Miguel Counties, Colorado. Geology of, by Fred W. Cater, Jr., and Henry Bell, III: * (TEM-700).

Juanita Arch, Mesa County, Colorado. Geology of, by E. M. Shoemaker: * (TEM-701).

Naturita NW, Montrose and San Miguel Counties, Colorado. Geology of, by Fred W. Cater, Jr., with a section on "The Mines" by J. D. Vogel: * (TEM-702).

Paradox, Montrose County, Colorado. Geology of, by C. F. Withington: *
(TEM-703).

Pine Mountain, Mesa County, Colorado. Geology of, by Fred W. Cater, Jr.: *
(TEM-704).

Red Canyon, Montrose County, Colorado. Geology of, by E. J. McKay, with a
section on "The Mines" by D. A. Jobin: * (TEM-705).

8. 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)
2. Altschuler, Z. S. and Cisney, E. A., X-ray evidence of the nature of the carbonate-apatites (abs.): Geol. Soc. Am. Bull., v. 63, no. 12, pt. 2, p. 1230, 1952.
3. Armstrong, F. C., Pitchblende deposits on Quartz Hill, Central City district, Gilpin County, Colorado (abs.): Geol. Soc. Am. Bull., v. 63, no. 12, pt. 2, p. 1232, 1952; (abs.): Econ. Geology, v. 47, no. 7, pp. 767-768, 1952.
4. Axelrod, J., Grimaldi, F. S., Milton, Charles, and Murata, K. J., The uranium minerals from the Hillside mine, Yavapi County, Arizona: Am. Mineralogist, v. 36, nos. 1 and 2, pp. 1-22, 1951.
5. 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.
6. 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.
7. Becraft, G. E. and Rosenblum, Samuel, Petrographic features of the northeastern part of the Boulder Batholith (abs.): Geol. Soc. Am. Bull., v. 64, no. 12, pt. 2, p. 1540, 1953.
8. Berman, Joseph, Studies of metamict minerals (I): Methods and procedures (abs.): Geol. Soc. Am. Bull., v. 62, no. 12, pt. 2, p. 1422, 1951.
9. 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.
10. Berman, Robert, A nomogram for obtaining percent composition by weight from mineral-grain counts: Jour. Sed. Petrology, v. 23, no. 2, pp. 120-123, 1953. (TEI-273)
11. Cannon, Helen, The effect of uranium-vanadium deposits on the vegetation of the Colorado Plateau: Am. Jour. Sci., v. 250, pp. 735-770, Oct. 1952. (TEI-160)

12. Cannon, R. S., Jr., Nature of ore-lead (abs.): Geol. Soc. Am. Bull., v. 61, no. 12, pt. 2, p. 1448, 1950.
13. Cathcart, J. B., Notes on the land-pebble phosphate deposit of Florida: in Symposium on Mineral Resources of the southeastern United States (1949 proc.), Univ. of Tenn. press, pp. 132-151, 1950.
14. Cathcart, J. B. and Davidson, D. F., Distribution and origin of phosphate in the land-pebble phosphate district of Florida (abs.): Econ. Geology, v. 47, no. 1, p. 127, Jan.-Feb., 1952. (TEI-212)
15. 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.
16. Christ, C. L., Clark, J. R., and Evans, H. T., Jr., The crystal structure of $KVO_3 \cdot H_2O$: Jour. Chem. Physics, v. 21, no. 6, p. 1114, June, 1953.
17. Conant, L. C., Shallow-water origin of the Chattanooga shale (abs.): Geol. Soc. Am. Bull., v. 64, no. 12, pt. 2, pp. 1529-30, 1953. (TEI-237).
18. Craig, L. C. and Holmes, Clifford, The Morrison formation of the Colorado Plateau region, progress report (abs.): Am. Assoc. Petrol. Geol. Bull., v. 35, no. 5, p. 1108, 1951.
19. Cressman, E. R., Stratigraphy of the Phosphoria formation in part of southwestern Montana (abs.): Geol. Soc. Am. Bull., v. 64, no. 12, pt. 2, pp. 1543-4, 1953.
20. Deul, Maurice and Ansell, C. S., The concentration of minor and trace elements in ash of low-rank coals from Texas, Colorado, North and South Dakota (abs.): Geol. Soc. Am. Bull., v. 63, no. 12, pt. 2, p. 1243, 1952; (abs.): Econ. Geology, v. 47, no. 7, p. 770, 1952.
21. Donnay, Gabrielle, Roentgenite, $3CeFeCO_3 \cdot 2CaCO_3$, a new mineral: Am. Mineralogist, v. 38, nos. 9 and 10, pp. 868-870, 1953.
22. Donnay, Gabrielle and Donnay, J. D. H., The crystallography of bastnaesite, parisite, roentgenite, and synchisite: Am. Mineralogist, v. 38, nos. 11 and 12, pp. 932-963, 1953.
23. Donnay, Gabrielle and Donnay, J. D. H., Tyuyamunite, carnotite, and sengierite (abs.): Geol. Soc. Am. Bull., v. 64, no. 12, pt. 2, pp. 1412-13, 1953.
24. Erickson, R. L., Gott, G. B., Myers, A. T., and Horr, C. A., Association of uranium and other metals with crude oils, asphalts, and petroliferous rocks (abs.): Geol. Soc. Am. Bull., v. 64, no. 12, pt. 2, pp. 1505-6, 1953. (TEM-513).

25. Evans, H. T., Jr., and Block, Stanley, Crystal structure of KVO_3 (abs.): Geol. Soc. Am. Bull., v. 64, no. 12, pt. 2, p. 1419, 1953.
26. Evans, H. T., Jr., and Block, Stanley, The crystal structure of montroseite, a vanadium member of the diaspore group: Am. Mineralogist, v. 38, nos. 11 and 12, pp. 1242-1250, 1953. (TEI-368)
27. Evans, H. T., Jr., and Mrose, M. E., Alteration processes in montroseite (abs.): Geol. Soc. Am. Bull., v. 64, no. 12, pt. 2, p. 1419, 1953.
28. Faul, Henry, Radioactivity methods: in Exploration Geophysics (edited by J. J. Jakosky), Chapter 10, Los Angeles, 1950.
29. Faul, Henry, Gott, G. B., Manger, G.E., Mytton, J. W., and Pierce, A. P., Radioactivity of the helium-bearing formations of the Texas Panhandle region (abs.): Geol. Soc. Am. Bull., v. 64, no. 12, pt. 2, pp. 1420-1421, 1953. (TEM-533)
30. Faul, Henry and Tittle, C. W., Logging of drill holes by the neutron, gamma method, and gamma-ray scattering: Geophysics, v. 16, no. 2, pp. 260-276, 1951.
31. Finch, Warren I., Distribution of uranium deposits in the Shinarump conglomerate of the Colorado Plateau (abs.): Econ. Geology, v. 48, no. 7, p. 619, 1953; (abs.): Geol. Soc. Am. Bull., v. 64, no. 12, pt. 2, p. 1422, 1953. (TEI-328)
32. Fischer, R. P., Deposits of vanadium-bearing sandstone: in Vanderwilt, J. W., Mineral Resources of Colorado, pp. 451-456, Colorado Mineral Resources Board, 1947.
33. Fischer, R. P., Federal exploration for carnotite ore: Colorado Mining Association, special publication, Denver, Colo., 1949.
34. Fischer, R. P., Uranium-bearing sandstone deposits of the Colorado Plateau: Econ. Geology, v. 45, no. 1, pp. 1-11, 1950.
35. Fischer, R. P., Haff, J. C., and Rominger, J. F., Vanadium deposits near Placerville, San Miguel County, Colorado: Colorado Sci. Soc. Proc., v. 15, no. 3, pp. 115-134, 1947.
36. Fleischer, Michael and Rabbitt, J. C., Geochemistry: Ann. Rev. Nuclear Sci. 1, pp. 465-478, 1952.
37. Frondel, Clifford, Hydroxyl substitution in thorite and zircon: Am. Mineralogist, v. 38, nos. 11 and 12, pp. 1007-1018, 1953. (TEI-327)
38. Frondel, J. W., Studies of uranium minerals (VII): Zeunerite: Am. Mineralogist, v. 36, nos. 3 and 4, pp. 249-255, 1951.
39. Frondel, J. W. and Cuttitta, Frank, Studies of uranium minerals (XII): The status of billietite and becquerelite: Am. Mineralogist, v. 38, nos. 11 and 12, pp. 1019-1024, 1953; (abs.): Geol. Soc. Am. Bull., v. 63, no. 12, pt. 2, p. 1253, 1952. (TEI-309)

40. Garrels, R. M., Some thermodynamic relations among the vanadium oxides, and their relation to the oxidation state of the uranium ores of the Colorado Plateau: *Am. Mineralogist*, v. 38, nos. 11 and 12, pp. 1251-1265, 1953; (abs.): *Geol. Soc. Am. Bull.*, v. 64, no. 12, pt. 2, p. 1426, 1953.
41. Gillerman, Elliot, Uranium deposits in the Blackhawk district, Grant County, New Mexico (abs.): *Geol. Soc. Am. Bull.*, v. 63, no. 12, pt. 2, p. 1254, 1952.
42. Gillerman, Elliot, Uranium deposits of the White Signal district, New Mexico (abs.): *Geol. Soc. Am. Bull.*, v. 63, no. 12, pt. 2, p. 1329, 1952.
43. Gott, G. B., Wyant, D. G., and Beroni, E. P., Uranium in black shales, lignites, and limestones in the United States (abs.): *Geol. Soc. Am. Bull.*, v. 62, no. 12, pt. 2, p. 1535, 1951. (part of TEI-168)
44. Hanley, J. B., Economic geology of the Rincon pegmatites, San Diego County, California: California State Division of Mines Special Report 7B, 1951. 35¢
46. Harrison, J. E., Relation between fracture pattern and hypogene zoning in the Freeland-Lamartine district, Clear Creek County, Colorado (abs.): *Geol. Soc. Am. Bull.*, v. 64, no. 12, pt. 2, p. 1431, 1953.
47. Hewett, D. F. and Glass, Jewell J., Two uranium-bearing pegmatite bodies in San Bernardino County, California: *Am. Mineralogist*, v. 38, nos. 11 and 12, pp. 1040-1050, 1953.
48. Holmes, C. N., The effect of the Uncompahgre uplift on the Mesozoic sedimentary rocks of Colorado (abs.): *Geol. Soc. Am. Bull.*, v. 61, no. 12, pt. 2, p. 1470, 1950.
49. Holser, W. T., Beryllium minerals in the Victorio Mountains, Luna County, New Mexico: *Am. Mineralogist*, v. 38, nos. 7-8, pp. 599-611, 1953. (TEI-166)
50. Holser, W. T., Warner, L. A., Wilmarth, V. R., and Cameron, E. N., Notes on the geochemistry of beryllium (abs.): *Geol. Soc. Am. Bull.*, v. 62, no. 12, pt. 2, p. 1450, 1951.
51. Honkala, Fred S., Phosphatic rocks in the Centennial Range, Montana-Idaho (abs.): *Geol. Soc. Am. Bull.*, v. 64, no. 12, pt. 2, p. 1547, 1953. (TEI-323)
52. Huleatt, Wm. P., Wagon-drill sampling by U. S. Geological Survey: *Eng. Min. Jour.*, v. 153, no. 8, pp. 82-83, 1952. (TEI-217)
53. Kaiser, E. P. and Page, L. R., Distribution of uranium deposits in the United States (abs.): *Geol. Soc. Am. Bull.*, v. 62, no. 12, pt. 2, p. 1537, 1951. (part of TEI-168)

54. King, R. U. and Moore, F. B., Pitchblende deposits in the United States (abs.): Geol. Soc. Am. Bull., v. 62, no. 12, pt. 2, p. 1537, 1951. (part of TEI-168)
55. King, Robert U., Moore, F. B., and Leonard, B. F., Uranium in metal-mining districts of Colorado (abs.): Geol. Soc. Am. Bull., v. 63, no. 12, pt. 2, p. 1335, 1952. (TEI-173)
56. Koschmann, A. H., Relation of the work of the Geologic Division, U. S. Geological Survey, to the mining industry in Colorado: Mining Yearbook, Colo. Mining Assoc., Denver, Colo., pp. 33-36, 1951.
57. Krauskopf, Konrad B., Control of trace-element concentrations in sea water (abs.): Geol. Soc. Am. Bull., v. 63, no. 12, pt. 2, p. 1336, 1952.
58. Kummel, Bernhard, Triassic stratigraphy of the area around the Green River Basin, Wyoming: Wyoming Geol. Assn. Guidebook, pp. 28-36, 1950.
59. Larsen, Esper S., Jr., Fletcher, M. H., and Cisney, E. A., Strontian apatite; Am. Mineralogist, v. 37, nos. 7 and 8, pp. 656-659, 1952.
60. Larsen, Esper S., Jr., Keevil, N. B., and Harrison, H. C., A method of determining the age of igneous rocks using the accessory minerals: Geol. Soc. Am. Bull., v. 63, no. 10, pp. 1045-1052, 1952.
61. Larsen, Esper S., Jr., Waring, C. L., and Berman, J., Zoned zircon from Oklahoma: Am. Mineralogist, v. 38, nos. 11 and 12, pp. 1118-1125, 1953.
62. Leonard, B. F., Relation of pitchblende deposits to hypogene zoning in the Front Range mineral belt, Colorado (abs.): Geol. Soc. Am. Bull., v. 63, no. 12, pt. 2, p. 1274, 1952.
63. McKee, E. D. and Weir, Gordon W., Terminology for stratification and cross-stratification in sedimentary rock: Geol. Soc. Am. Bull., v. 64, no. 4, pp. 381-390, 1953. (TEI-269)
64. McKelvey, V. E., Geological studies of the western phosphate field: Am. Inst. Min. Met. Eng., Mining Trans., v. 184, pp. 270-279, 1949.
65. McKelvey, V. E., Cathcart, J. B., Altschuler, Z. S., Swanson, R. W., and Lutz, K., Domestic phosphate deposits: in Soil and fertilizer phosphorus in crop nutrition, v. IV of Agronomy, Academic Press, pp. 347-376, 1953. (TEI-271)
66. McKelvey, V. E. and Nelson, J. M., Characteristics of marine uranium-bearing sedimentary rocks: Econ. Geology, v. 45, no. 1, pp. 35-53, 1950.

67. McKelvey, V. E., Page, L. R., Fischer, R. P., and Butler, A. P., Jr., Uranium deposits in the United States (abs.): *Econ. Geology*, v. 47, no. 1, p. 125, 1952.
68. Mackin, J. Hoover and Schmidt, Dwight L., Placer deposits of radioactive minerals in Valley County, Idaho (abs.): *Geol. Soc. Am. Bull.*, v. 64, no. 12, pt. 2, p. 1549, 1953. (TEM-602)
69. Meyrowitz, R., A new series of immersion liquids: *Am. Mineralogist*, v. 37, nos. 9 and 10, pp. 853-856, 1952. (TEM-335)
70. Meyrowitz, R. and Larsen, E. S., Jr., Immersion liquids of high refractive index: *Am. Mineralogist*, v. 36, nos. 9 and 10, pp. 746-750, 1951; (abs.): *Geol. Soc. Am. Bull.*, v. 61, no. 12, pt. 2, p. 1486, 1950.
71. Milkey, R. G., A theoretical treatment of the absorption characteristics of the dithizone mixed-color system: *Anal. Chemistry*, v. 24, no. 10, pp. 1675-1676, 1952. (TEI-236)
72. Moore, F. B. and Cavender, W. S., The pitchblende deposit at the Caribou mine, Boulder, Colorado (abs.): *Geol. Soc. Am. Bull.*, v. 63, no. 12, pt. 2, p. 1281, 1952.
73. Mullens, T. E. and Freeman, V. L., A lithofacies study of the Salt Wash sandstone member of the Morrison formation (abs.): *Geol. Soc. Am. Bull.*, v. 63, no. 12, pt. 2, p. 1340, 1952. (TEI-341)
74. Murata, K. J., Cisney, E. A., Stieff, L. R., and Zworykin, E. V., Hydration and base-exchange properties of carnotite, tyuyamunite, and related compounds (abs.): *Geol. Soc. Am. Bull.*, v. 61, no. 12, pt. 2, p. 1489, 1950. (TEI-107)
75. Olson, J. C., Feldspar and associated pegmatite minerals in New Hampshire: Part 14 of a Mineral Resource Survey, N.H. State Planning and Development Commission, 1950.
76. Olson, J. C. and Sharp, W. N., Geologic setting of the Mountain Pass bastnaesite deposits, San Bernardino County, California (abs.): *Geol. Soc. Am. Bull.*, v. 62, no. 12, pt. 2, p. 1467, 1951.
77. Page, L. R., Beryllium in Colorado: The 1950 Mining Yearbook, Colorado Mining Assoc., Denver, Colo., pp. 37-39. (TEI-88)
78. Page, L. R., Uranium in pegmatites: *Econ. Geology*, v. 45, no. 1, pp. 12-34, 1950.
79. Phair, George and Levine, Harry, Notes on the differential leaching of uranium, radium, and lead from pitchblende in H_2SO_4 solutions: *Econ. Geology*, v. 48, no. 5, pp. 358-369, 1953; (abs.): *Geol. Soc. Am. Bull.*, v. 63, no. 12, pt. 2, p. 1290, 1952. (TEI-262)

80. Phair, George and Shimamoto, Onoda Kiyoka, Hydrothermal uranothorite in fluorite breccias from the Blue Jay mine, Jamestown, Boulder County, Colorado: *Am. Mineralogist*, v. 37, nos. 7 and 8, pp. 659-666, 1952. (TEI-144)
81. Pierson, C. T., Burbank, W. S., and Singewald, Q. D., Some uranium occurrences in the central and southwestern parts of the Colorado mineral belt (abs.): *Geol. Soc. Am. Bull.*, v. 63, no. 12, pt. 2, p. 1368, 1952.
82. Rove, O. N., A review of mining geology, *Min. Eng.*, v. 4, no. 2, pp. 140-143, 1952.
83. Senftle, F. E., Effect of diffusion on the natural isotopic abundance ratios (abs.): *Geol. Soc. Am. Bull.*, v. 64, no. 12, pt. 2, p. 1472, 1953.
84. Sharp, W. N. and Cavender, W. S., Thorium deposits of the Lemhi Pass district, Lemhi County, Idaho, and Beaverhead County, Montana (abs.): *Geol. Soc. Am. Bull.*, v. 64, no. 12, pt. 2, p. 1555, 1953.
85. Shoemaker, E. M., Collapse origin of the diatremes of the Navajo-Hopi reservation (abs.): *Geol. Soc. Am. Bull.*, v. 64, no. 12, pt. 2, p. 1514, 1953.
86. Shoemaker, E. M., Internal structure of the Sinbad Valley-Fischer Valley Salt anticline, Colorado and Utah (abs.): *Geol. Soc. Am. Bull.*, v. 62, no. 12, pt. 2, p. 1478, 1951.
87. Shoemaker, E. M. and Newman, W. L., Ute Mountains, a laccolithic feature in southwestern Colorado (abs.): *Geol. Soc. Am. Bull.*, v. 64, no. 12, pt. 2, p. 1555, 1953.
88. Silverman, S. R., Fuyat, R. K., and Weiser, J. D., Quantitative determination of calcite associated with carbonate-bearing apatites: *Am. Mineralogist*, v. 37, nos. 3 and 4, pp. 211-222, 1952. (TEI-118)
89. Sims, P. K. and Phair, George, Some features of the pitchblende deposit at the Copper King mine, Larimer County, Colorado (abs.): *Geol. Soc. Am. Bull.*, v. 64, no. 12, pt. 2, pp. 1555-6, 1953. (based on TEI-311)
90. Staatz, M. H. and Bauer, H. L., Jr., Uraniferous fluorspar pipes and veins in the Thomas Range of Juab County, Utah (abs.): *Geol. Soc. Am. Bull.*, v. 63, no. 12, pt. 2, p. 1371, 1952.
91. Staatz, M. H. and Trites, A. F., Jr., Relation of type of country rock to the shape of granitic pegmatite intrusions (abs.): *Geol. Soc. Am. Bull.*, v. 61, no. 12, pt. 2, pp. 1505-1506, 1950.
92. Stead, F. W., Airborne radioactivity surveying speeds uranium prospecting: *Eng. Min. Jour.*, v. 151, no. 9, pp. 74-76, 1950.

93. Stead, F. W., Equipment for uranium prospecting (abs.): Elec. Engineering, v. 69, no. 3, p. 254, 1950.
94. Stead, F. W., Prospecting for uranium with portable Geiger-Müller equipment: In Report of Upper Peninsula of Michigan Mineral Industries Conference, Michigan College of Mining and Technology, Houghton, Michigan, pp. 27-28, May 6, 1949.
95. Stead, F. W. and Davis, F. J., Development and application of airborne radioactivity surveying (abs.): Econ. Geology, v. 47, no. 1, p. 126, 1952.
96. Stead, F. W., Moxham, R. M., and Davis, F. J., Progress in airborne radioactivity surveying (abs.): Geol. Soc. Am. Bull., v. 64, no. 12, pt. 2, p. 1477, 1953.
97. Stern, T. W. and Weeks, A. D., Second occurrence of bayleyite in the United States: Am. Mineralogist, v. 37, nos. 11 and 12, pp. 1058-1060, 1952. (TEI-243)
98. Stieff, L. R. and Stern, T. W., The identification and lead-uranium ratio ages of massive uraninites from the Shinarump conglomerate, Utah: Science, v. 115, pp. 706-708, June 27, 1952; (abs.): Chem. Abstracts, v. 46, no. 17, p. 7943, Sept. 10, 1952. (TEM-317)
99. Stieff, L. R. and Stern, T. W., Isotopic composition of lead in lead minerals from the Colorado Plateaus (abs.): Geol. Soc. Am. Bull., v. 64, no. 12, pt. 2, pp. 1478-9, 1953.
100. Stieff, L. R. and Stern, T. W., Lead-uranium ages of some uraninites from Triassic to Jurassic sedimentary rocks of the Colorado Plateau (abs.): Geol. Soc. Am. Bull., v. 63, no. 12, pt. 2, p. 1299, 1952. (TEI-322)
101. Stieff, L. R. and Stern, T. W., The preparation of nuclear track plates and stripping films for the study of radioactive minerals: Am. Mineralogist, v. 37, nos. 3 and 4, pp. 184-196, 1952. (TEI-127)
102. Stieff, L. R., Stern, T. W., and Milkey, R. G., A preliminary determination of lead uranium and of some Colorado Plateau uranium ores by the lead-uranium and lead-lead ratio methods (abs.): Econ. Geology, v. 47, no. 1, p. 123, 1952.
103. Stokes, W. L., Geology of the Utah-Colorado salt dome region with emphasis on Gypsum Valley, Colorado: Utah Geol. Soc. Guidebook 3, 1948.
104. Stokes, W. L., Uranium-vanadium deposits of the Thompsons area, Grand County, Utah, with emphasis on the origin of carnotite ores: Utah Geol. and Mineralogical Survey Bull. 46, Dec. 1952, 51 pp., \$1.00.

105. Stugard, Frederick, Jr., Two uranium deposits in sandstone, Washington and Kane Counties, Utah (abs.): Geol. Soc. Am. Bull., v. 63, no. 12, pt. 2, p. 1373, 1952.
106. Stugard, Frederick, Jr., Wyant, D. G., and Cude, A. J., 3rd., Secondary uranium deposits in the United States (abs.): Geol. Soc. Am. Bull., v. 62, no. 12, pt. 2, p. 1542, 1951. (part of TEI-168).
107. Swanson, R. W., Phosphate deposits of Permian age in Montana (abs.): Geol. Soc. Am. Bull., v. 64, no. 12, pt. 2, p. 1556-7, 1953.
108. Swanson, V. E., Uranium in the Chattanooga shale (abs): Geol. Soc. Am. Bull., v. 64, no. 12, pt. 2, p. 1481, 1953.
109. Thurston, R. H. and Trites, A. F., Jr., Intrusion breccias of Majuba Hill, Nevada (abs.): Geol. Soc. Am. Bull., v. 63, no. 12, pt. 2, p. 1305, 1952.
110. Tittle, C. W. and Faul, Henry, Thermal neutron absorption cross section of silicon: Phys. Rev., v. 80, p. 908, 1950.
111. Walker, George W., Rosamond uranium prospect, Kern County, California: Calif. Div. of Mines Special Report 37, 1953. (TEM-514)
112. Waring, C. L. and Ansell, C. S., A semiquantitative spectrographic method for the analysis of minerals, rocks, and ores: Anal. Chemistry, v. 25, no. 8, pp. 1174-9, 1953. (TEI-143; -215)
113. Waring, C. L. and Mela, Henry, Jr., Method for the determination of small amounts of rare earths and thorium in phosphate rocks: Anal. Chemistry, v. 25, no. 3, pp. 432-5, 1953. (TEI-239)
114. Waring, C. L. and Worthing, Helen, A spectrographic method for determining trace amounts of lead in zircon and other minerals: Am. Mineralogist, v. 38, nos. 9 and 10, pp. 827-833, 1953. (TEI-216)
115. Wayland, T. E., Use of isopachous and related maps in the Florida phosphate district: Min. Eng., v. 3, no. 11, pp. 975-979, 1951; Am. Inst. Min. Met. Eng. Trans. 1951, v. 190, 1952.
116. Weeks, Alice D., Mineralogic studies on the Colorado Plateau (abs.): Geol. Soc. Am. Bull., v. 63, no. 12, pt. 2, p. 1309, 1952.
117. Weeks, A. D., Cisney, E. A., and Sherwood, A. M., Hummerite and montroseite, two new vanadium minerals from Montrose County, Colorado (abs.): Geol. Soc. Am. Bull., v. 61, no. 12, pt. 2, p. 1513, 1920.

118. Weeks, A. D., Cisney, E. A., and Sherwood, A. M., Montroseite, a new vanadium oxide from the Colorado Plateaus: *Am. Mineralogist*, v. 38, nos. 11 and 12, pp. 1235-1241, 1953. (TEI-335)
119. Weeks, A. D., Thompson, M. E., and Thompson, R. B., Jr., Mineral associations and types of uranium ores on the Colorado Plateaus (abs.): *Geol. Soc. Am. Bull.*, v. 64, no. 12, pt. 2, pp. 1489-1490, 1953.
120. Weir, G. W., Cross-lamination in the Salt Wash sandstone member of the Morrison formation (abs.): *Geol. Soc. Am. Bull.*, v. 62, no. 12, pt. 2, p. 1514, 1951.
121. Wilmarth, V. R., Uranophane deposit at the Silver Cliff mine near Lusk, Niobrara County, Wyoming (abs.): *Geol. Soc. Am. Bull.*, v. 63, no. 12, pt. 2, p. 1376, 1952.
122. Wilmarth, V. R., Bauer, H. L., Jr., Staatz, M. H., and Wyant, D. G., Uranium in fluorite deposits (abs.): *Geol. Soc. Am. Bull.*, v. 62, no. 12, pt. 2, p. 1543, 1951. (part of TEI-168)
123. Wyant, D. G., Beroni, E. P., and Granger, H. C., Some uranium deposits in sandstone (abs.): *Geol. Soc. Am. Bull.*, v. 62, no. 12, pt. 2, p. 1544, 1951. (part of TEI-168)

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

-A-

Aeromagnetic studies

Arizona TEM-344

Colorado TEM-359

Age determination

By means of accessory minerals J-60

Colorado Plateau TEI-108, 245, 268, 322,
J-100, J-102

Methods of analysis used TEI-245

San Gabriel anorthosite massif. TEM-709

Shinarump conglomerate TEM-317, J-98

Airborne radioactivity surveys. TEI-83, 87, TEM-314
J-92, J-96

Alaska, meters for in light planes. TEM-323

Arizona, Apache County. TEM-607

California

Kern County TEM-360

Riverside County. TEM-360

San Bernardino County TEI-380, TEM-360

Development and application J-95

Florida TEI-387, TEM-644

Between Sanibel Island and Caladesi Island. TEM-678

Georgia TEM-644

Liberia TEM-361

Michigan, Marquette County. TEM-159

New Mexico

McKinley County TEM-161

Valencia County TEM-161

North Carolina. TEM-673

South Carolina. TEM-673

South Dakota, Custer County TEM-748

Airborne radioactivity surveys (cont'd)

Wyoming

Campbell County	TEM-508
Carbon County	TEM-606, 743, 744, TEM-745, 746, 747
Crook County	TEM-605
Fremont County	TEM-610
Johnson County	TEM-508
Sublette County	TEM-610
Sweetwater County	TEM-147, 609, 743
Uinta County	TEM-611

Alabama

Jefferson County	TEM-155
Reconnaissance	TEI- 12, 21, 352
Shale	TEI- 22, TEM-240

Alaska

Airborne radioactivity survey meters for light

planes	TEM-323
Alaska Railroad	TEM-330
Alaska Railroad-Iliamna region.	TEM-319

Central

Manley-Hot Springs-Rampart district	TEI- 54
Medfra quadrangle	TEI- 75

East-central

Eagle district.	TEI-195
Fairbanks quadrangle.	TEI-197
Fortymile district.	TEI-57A, 196
Livengood quadrangle.	TEI-197
Miller House-Circle Hot Springs area.	TEI-194

Eastern, reconnaissance	TEI-292
-----------------------------------	---------

Fortymile Highway from the Alaska Highway to

Chicken.	TEM-329
Gulf of Alaska.	TEM-320
Index to trace elements reports	TEM-358
Kobuk River valley, Ruby Creek.	TEI-76A
Lower Yukon-Kuskokwim Highlands region.	TEI-291

Candle Creek.	TEI- 45 (pt. 1)
-----------------------	-----------------

Cripple Creek Mountain.	TEI- 45 (pt. 1)
---------------------------------	-----------------

Flat.	TEI- 46
---------------	---------

Julian Creek.	TEI- 45 (pt. 1)
-----------------------	-----------------

Moore Creek	TEI- 45 (pt. 1)
-----------------------	-----------------

Mount McKinley.	TEI-45C
-------------------------	---------

Northeastern

Mount Michelson area.	TEI-57C
-------------------------------	---------

Upper Porcupine River	TEI- 55
---------------------------------	---------

Upper Yukon region

Chandalar district.	TEM-327
-----------------------------	---------

Eagle-Nation area	TEI- 56
-----------------------------	---------

Wiseman district.	TEM-327
---------------------------	---------

Northern, Brooks Range.	TEM-328
---------------------------------	---------

Alaska (cont'd)

Pegmatites	TEI-191
Phosphate, Brooks Range	TEM-328
Placer concentrates	TEI-57A
Placer mining	TEI- 40
Placers	TEI- 6, 45 (pt. 1), TEM-326, 327
Reconnaissance	TEM- 91, 235, 357, 552
Ruby quadrangle	TEI-192
Russian Mountains, zeunerite	TEI-57D
Seward Peninsula	TEM-322
Brooks Mountain	TEI-221
Candle quadrangle	
Buckland-Kiwalik district	TEI- 49
Peace River headwaters	TEM-355
Cape Nome area	TEI- 45 (pt. 2)
Darby Mountains district	TEI- 53
Ear Mountain	TEI- 27
Fairhaven district, Candle Creek area	TEI- 41
Koyuk district, Sweepstakes Creek area	TEI- 25
Lost River area	TEI-220
Quartz Creek, South Fork	TEI- 42 (pt. 2)
Serpentine-Kougarok	TEI- 39
South-central district	
Southern highway belt	TEI- 48
Willow Creek mining district	TEI-191
Southeastern	TEI-293, TEM-321
Chicagof	TEI-189, TEM-622
Funter Bay	TEI-189
Goddard Hot Springs	TEI-189
Hyder district	TEI- 73
Juneau	TEI-189
Ketchikan	TEI-189
Prince of Wales Island	TEM-356
Southern	
Jakolog Bay area	TEI-74A
Yakataga Beach	TEM-326
Southwestern, Iliamna Lake-Lake Clark region	TEI-190
Tanana River valley, highways in	TEI- 38
Teller area	TEI- 40
Thorium	TEM-339
Upper Copper River valley, highways in	TEI- 38
Upper Yukon division, Lower Coleen River valley	TEI-57B
Uranothorianite	TEM-355
Yentna district, Cache Creek-Upper Peters area	TEI- 26
Yukon River region	
Grant Creek area	TEI- 42 (pt. 1)
Stevens and Ruby	TEI-193
Zeunerite	TEI-57D, 221
Alluvium, radioactivity of	TEM-225

Analytical methods and research

Absorption characteristics of the dithizone mixed-color system, theoretical treatment of . . .	TEI-236
Air concentrator for very low grade ores.	TEI-307
Alpha star populations in loaded nuclear emulsions.	TEI-374
Aromatic compounds of arsenic in chemical analyses	TEI-324
Calcite associated with carbonate-bearing apatites, determination.	TEI-118
Colorimetric determination of total iron with o-phenanthroline	TEI-223
Cosmic abundance of nuclear species	TEM-312
Decomposition of rock and ore samples to be analyzed for very small amounts of U and Th. . .	TEI-31A
Effects of destructive distillation of uranium associated with selected carbonaceous substances	TEI-338
Electric furnace for distillation of oil (from oil shale)	TEI-326
Extraction of uranium from aqueous solution by coal and other materials.	TEI-235
Extraction of uranium from coal	TEI-372
Fluorimeter	
Aluminum in phosphate rock with 8-hydroxyquinoline, determination of	TEI- 60
Battery powered	TEI-135
Critical factors in "direct" determination of uranium	TEI-130, 130 addendum
Direct quantitative method for determination of small amounts of U	TEI- 98
Lignite, determination of U in.	TEI-153, 153A
Model V transmission fluorimeter.	TEI-133
Model VI transmission fluorimeter	TEI-370
Molybdenum blue reaction, use in determination of phosphorus in waters containing arsenic, silicon, and germanium. . .	TEI-379
Monazite, determination of U in	TEI-153, 153A
Shale, determination of U in.	TEI-153, 153A
Solutions, for.	TEM-252
Transmission, for determination of U.	TEI- 91, 104
Uranium analysis.	TEI-219
Uranium in fluoride melts	TEI-120
Uranium in nonsaline and saline waters. . . .	TEI-181
Uranium in phosphate rock	TEI-134
Uranium in low grade ores	TEI- 47
Hydroxyl substitution in thorite and zircon . . .	TEI-327
Multiple cone-splitter for rapid sampling in the laboratory	TEI-371
Noninterference of arsenate ion in volumetric determination of U using Jones reductor.	TEM-316

Analytical methods and research (cont'd)

Nuclear track plates and stripping films, preparation of	TEI-127
Phosphorus in vanadiferous rocks.	TEI- 99
Photometry, estimation of oil yield of oil shale.	TEI-152
Quercetin as colorimetric reagent for zircon.	OF-c
Radiochemistry, Quantitative method for determination of major sources of natural radioactivity.	TEI-318
Rare earths, determination of small amounts in phosphate rocks	TEI-239
Spectrography	
Determination of contamination of rock samples, use in.	TEI-179
Identification of mineral grains.	TEI-274
Semiquantitative method, analysis of minerals, rocks, ores.	TEI-143, 215
Trace amounts of lead in zircon and other minerals, determination of	TEI-216
Stability of metallic ions in dilute solutions.	TEI-373
Thorium, determination of	
High-grade and low-grade ores, in	TEI- 44
Naturally occurring material, in.	TEI-31E
Small quantities.	TEI- 16
Small quantities in rocks and minerals.	TEI-31D
Summary	TEI-178
Use of mesityl oxide.	TEI-105
Very small percentages.	TEI- 15
Uranium, determination of	
Elimination of nickel interference by zinc amalgam reductor.	TEI- 23, 31F
Low-grade ores, in.	TEI- 47
Naturally occurring materials, in	TEI-31B
Rocks and minerals, in.	TEI-31C
Small percentages	TEI- 2
Summary	TEI-178
Volumetric method, Estimation of oil yield of oil shale.	TEI-210
Apatite	
New York.	TEI-383
Synthesis of, abstracts of literature on.	TEI-132
X-ray evidence of nature of carbonate-apatites.	J-2
Arizona (See also Colorado Plateau)	TEI-227
Aeromagnetic studies.	TEM-344
Airborne radioactivity surveys, Apache County	TEM-607
Apache County	
Carrizo Mountains	TEM-108, 300, C-111
Defiance Uplift, airborne surveys	TEM-607
Gamma-ray logging	TEM-486
Monument Valley	TEI-204
Setsiltso Springs quadrangle (3, 4, 5).	TEM-402, 404, 439

Arizona (cont'd)

Carrizo Mountains	TEM-196
Aeromagnetic studies.	TEM-344
Dinne Mesa NE	TEM-423
Dinne Mesa NW	TEM-415
Dinne Mesa SE	TEM-424
Dinne Mesa SW	TEM-416
Los Gigantes NE	TEM-418
Los Gigantes NW	TEM-417
Los Gigantes SE	TEM-429
Los Gigantes SW	TEM-430
Pastora Peak NE	TEM-425
Pastora Peak NW	TEM-426
Pastora Peak SE	TEM-427
Pastora Peak SW	TEM-428
Red Rock Valley NE.	TEM-420
Red Rock Valley NW.	TEM-419
Red Rock Valley SE.	TEM-421
Red Rock Valley SW.	TEM-422
Chuska Mountains, Morrison formation.	TEM-209
Gamma-ray logging, Apache County.	TEM-486
Geophysical investigations, Monument Valley	TEM-577
Gila County, Red Bluff prospect	TEM-210
Graham County, Golondrina claims.	TEM-219
Mohave County	
Jim Kane mine	TEM-216
Red Hills (Tate) prospect	TEM-217
Monument #2 mine.	TEM-646
Monument Valley	TEI-204, TEM-318, TEM-344, 492, 536
Mitchell Mesa, geophysical survey	TEM-577
Morrison formation, Chuska Mountains.	TEM-209
Navajo County	
Agathla Peak-1 quadrangle	TEM-441
Agathla Peak-2 quadrangle	TEM-411
Agathla Peak-4 quadrangle	TEM-412
Agathla Peak-6 quadrangle	TEM-541
Agathla Peak-7 quadrangle	TEM-468
Agathla Peak-8 quadrangle	TEM-440
Monument Valley	TEI-204
Shanto Spring-1 quadrangle.	TEM-499
Navajoite	TEI-393
Pre-Morrison formations	TEM-249
Reconnaissance.	TEI- 4, 9, 21, TEM-304, 443
Santa Cruz County, White Oak #1 mine.	TEM-511
Triassic formations	TEI-313
Uranium-vanadium ore, potential production.	TEI- 89
Yavapai County, Hillside mine, minerals	J-4
Yuma County, Yuma Air Force Base gunnery range.	TEM-679

Arkansas

Newton County, Wm. S. King prospects. TEM- 18
 Reconnaissance. TEI- 9, 21, 34
 Shale TEM-240

Asphaltites

Kentucky. TEI- 43
 Pennsylvania. TEI- 43
 Tennessee TEI- 43
 West Virginia TEI- 43

Asphalts

Association with uranium. TEM-513
 Oklahoma. TEI-298

-B-

Base exchange, in uranium minerals. TEI-107
 Bastnaesite, California TEM- 35, J-76, OM-h
 Bayleyite TEI-243
 Becquerelite. TEI-309
 Beryl TEM- 72
 Colorado, Chaffee County. TEM- 69
 Nevada, Elko County, Ruby Mountains OF-i
 South Dakota. TEI-226
 Beryllium TEI- 90, TEM-254
 -bearing rocks, non-pegmatitic. TEM- 76
 Colorado. TEI- 88, J-77
 Chaffee County, Mount Antero region TEI-126
 Geochemistry. TEI- 29, 31K, J-50
 New Mexico, Luna County, Victorio Mountains TEI-166
 Non-pegmatitic resources, U. S. TEI-137
 North Carolina, tin spodumene belt. TEI-249
 World resources TEI-149
 Billietite. TEI-309
 Bone Valley formation, Florida. TEM-237, 436, 507
 Mineralogy. TEI-102, 314
 Byproduct elements, Phosphoria formation. TEI-131

-C-

California

Airborne radioactivity surveys

Kern County TEM-360

Riverside County. TEM-360

San Bernardino County, Rock Corral area . . . TEI-380, TEM-360

Autunite. TEM-136

Bastnaesite TEM- 35, J-76, OM-h

Beaumont. TEM- 67

Carbonaceous rocks. TEI-337, TEM-444

Granitic rocks. TEM-343

Imperial County TEM-674

Kern County

Mojave Desert region, airborne surveys. . . . TEM-360

Rosamond Hills. TEM-136

Rosamond uranium prospect TEM-514, J-111

Mojave, Josie Bishop claims TEM- 3

Orange County, Costa mesa, Wesley R. Collins
property TEM- 16

Pegmatites

San Bernardino County, Cady Mountains TEM-144

San Diego County. J-44

Reconnaissance. TEI- 21, 24, TEM-554

Riverside County

Beaumont, Marshall ranch. TEM- 15

Joshua Tree National Monument, Live Oak

Tank area. TEM- 14

Mojave Desert region, airborne surveys. . . . TEM-360

Salton Sea. TEM- 42

San Bernardino County J-47, OM-h

Birthday claims TEM- 35

Cady Mountains, Hoerner-Ross pegmatite. . . . TEM-144

Kramer Hills area TEM- 17

Mojave Desert region, airborne surveys. . . . TEM-360

Mountain Pass district. TEI-251, J-76, OF-h,
OF-j, OF-k

Rock Corral area. TEI-380

San Diego County. J-44

Schmitt-Mitt property TEM- 4

Shale TEM-240

Thorium deposits. TEI-229, 251

Uranium deposits. TEI-229

Water analyses, Salton Sea. TEM-42

Canada, Great Slave Lake, limestone TEM- 50

Carbonaceous rocks	
California.	TEI-337, TEM-444
Colorado.	TEI-281, 336
Idaho.	TEI-281, 336, TEM-444
Nevada.	TEI-337, TEM-444
Oregon.	TEI-337, TEM-444
Utah.	TEI-281, 336, TEM-444
Washington.	TEM-444
Wyoming.	TEI-281, 336
Carbonate apatites, x-ray evidence of nature of	J-2
Carbone radioactivity surveys.	TEI-65, TEM-88
Carnotite, mineralogy	TEM-57, 90
Colorado Plateau.	TEM-68
Study of radioactive equilibrium in	TEI-106
Chattanooga shale (See also shales)	TEI-22, 58, TEM-63, TEM-280, 333, 553, TEM-649, J-108
Experimental adit	TEI- 93
Kentucky.	TEI-224
Mineralogy.	TEM-474
Origin.	TEI-237
Tennessee	TEI-224, 366
Eastern Highland rim.	TEI- 62
Claim map	
Colorado	
Mesa County	
Calamity Mesa quadrangle.	TEM-207
Gateway quadrangle.	TEM-462
Juanita Arch quadrangle	TEM-348
Pine Mountain quadrangle.	TEM-206
Montrose County	
Anderson Mesa quadrangle.	TEM-458
Atkinson Creek quadrangle	TEM-266
Bull Canyon quadrangle.	TEM-268, 268A
Davis Mesa quadrangle	TEM-267
Naturita NW quadrangle.	TEM-208
Paradox quadrangle.	TEM-345
Red Canyon quadrangle	TEM-350
Roc Creek quadrangle.	TEM-349
Uravan quadrangle	TEM-347
San Miguel County	
Anderson Mesa quadrangle.	TEM-458
Bull Canyon quadrangle.	TEM-268
Egnar quadrangle.	TEM-456
Gypsum Gap quadrangle	TEM-346
Hamm Canyon quadrangle.	TEM-351
Horse Range Mesa quadrangle	TEM-463
Joe Davis Hill quadrangle	TEM-457
Naturita NW quadrangle.	TEM-208

Clinton formation	
Maryland.	TEM-434
New Jersey.	TEM-434
New York.	TEM-434
Pennsylvania.	TEM-434
Coals	
Colorado.	J-20
Grand County.	TEI-281
Jackson County.	TEI-281
Moffat County.	TEI-281
Rio Blanco County.	TEI-281
Routt County.	TEI-281
Geochemistry.	TEI-389
Idaho, Bonneville County, Fall Creek area.	TEI-281, TEM-340, 341
Kansas.	TEI-18
Kentucky.	TEI-43, 347
Mineralogy.	TEI-389
Montana.	TEM-446
New Mexico	
La Ventana Mesa.	TEI-241, TEM-341
Rio Arriba County.	TEM-309
Sandoval County.	TEM-309
North Dakota.	J-20
Oklahoma.	TEI-18
Pennsylvania.	TEI-43, 348
South Dakota.	J-20
Tennessee.	TEI-43
Texas.	J-20
Utah, Uintah County.	TEI-281
West Virginia.	TEI-43
Wyoming	
Converse County.	TEM-195
Lincoln County.	TEI-281
Sweetwater County, Red Desert.	TEI-332, TEM-341, 601
Extraction of uranium from.	TEI-372
Geochemistry and mineralogy.	TEI-389
Cobalt analyses, mill sampling program.	TEM-86
Coffinite.	TEM-647
Collapse origin of diatremes in Navajo-Hopi reservation.	J-85
Colorado (See also Colorado Plateau).	J-81
Aeromagnetic surveys, Uraavan Mineral belt.	TEM-359
Beryl deposits, Chaffee County.	TEM-69
Beryllium.	TEI-88, 126, J-77
Boulder County.	TEI-21, 173
Caribou area.	TEI-228, TEM-13, J-72
Jamestown district.	TEI-4, TEM-1, 1A, 25
Blue Jay mine.	TEI-144, TEM-173
Nederland.	TEI-4
Wheelman Tunnel.	TEM-8
Carbonaceous rocks.	TEI-281, 336

Colorado (cont'd)

Chaffee County

Garfield quadrangle TEI=255
 Mount Antero region, beryllium. TEI=126, TEM=69
 Taylor Park quadrangle. TEI=255, TEM=515

Clear Creek County. TEI=173

Central City district TEI=304
 Freeland-Lamartine district TEI=295, J-46

Jo Reynolds mine. TEM= 5

Lawson-Dumont district. TEM=153

Jo Reynolds area. TEM=153

Martha E prospect TEM=291

North Central TEI=305

Robineau claims TEM= 24

Coals J-20, OF-n

Cretaceous claystones and siltstones, mineralogy. TEI=285

Custer County

Haputa Ranch. TEM=285

Wet Mountains TEI=250, 354,
 TEM=218, 287

Dolores County

Egnar quadrangle. TEM=695

Joe Davis Hill quadrangle TEM=700

Northwestern San Juan Mountains TEM=310

Uravan Mineral belt TEI=109

Aeromagnetic survey. TEM=359

Verdure-1 quadrangle. TEM=399

Verdure-8 quadrangle. TEM=403

Verdure-9 quadrangle. TEM=385

Western San Juan Mountains. TEI=306, TEM=298

Eagle County. TEI=173

El Paso County

Colorado Springs, Golden Cycle dump TEM= 6

Mike Doyle deposit. TEM=133

Entrada sandstone, western San Juan Mountains TEM=298

Fischer Valley-Sinbad Valley anticline. J-86

Fluorite. TEI=144, TEM=25, 173

Fremont County, Wet Mountains TEI=250, 354,
 TEM=218, 287-

Gamma-ray logging TEI= 84, TEM=270

Garfield County TEI= 24, 173

Rifle Creek area. OM-a

Geologic guides to carnotite ores TEM=271

Geophysical investigations

Mesa County TEI= 66

Montrose County, Paradox district TEM=578

Gilpin County TEI= 21, 173, TEM=512

Apex claims (Bates Creek) TEM= 22

Central City district TEI= 4, 125, 177,
 TEI=247, 304,
 TEM=102, 198, J-3

Colorado (cont'd)

Grand County.	TEI-308	
Coal.	TEI-281	
Ground water studies, Morrison formation.	TEI-161,	TEM-137
Gunnison County	TEI- 21	
Garfield quadrangle	TEI-255,	TEM-515
Northwestern San Juan Mountains	TEM-310	
Parlin.	TEI- 4	
Powderhorn district	TEI-353	
Quartz Creek pegmatite district	TEI-138	
Taylor Park quadrangle.	TEI-255,	TEM-515
Jackson County, coal.	TEI-281	
Jefferson County.	TEI- 9,	21, 173
Cook property	TEM- 20	
Golden Gate Canyon.	TEM-154	
Leyden prospect	TEM-132	
Old Leyden Coal mine.	TEM-292,	308
Ralston Creek.	TEM-154	
Jurassic claystones and siltstones, mineralogy.	TEI-285	
Lake County	TEI-173,	TEM-224
St. Kevin district.	TEI-234	
LaPlata County, western San Juan Mountains.	TEI-306,	TEM-298
Larimer County.	TEI-173	
Big Boulder prospect.	TEM-106	
Black Hawk #1 claim		
Copper King mine.	TEM-128A	
Copper King shaft	TEM-128	
Buckhorn mica mine.	TEM-104	
Crystal Mountain district	TEI-139	
Hyatt pegmatite	TEM-105	
Prairie Divide, Copper King mine.	TEI-311	
Spaulding-Woodhams prospects.	TEM- 9A	
Treasure Hill area.	TEM- 9	
Mesa County	TEI- 21	
Beaver Mesa area.	TEM-727	
Blue Mesa	TEI-154,	TEM-242, 269
Calamity group area	TEI-146	
Calamity Mesa	TEM- 79	
Gamma-ray logging	TEI- 84,	TEM-270
Permeability studies.	TEM-270	
Calamity Mesa quadrangle.	TEM-207,	693
Gateway district.	TEI-283,	TEM-271,
	TEM-632,	OM-i
Gateway quadrangle.	TEM-462,	696
Geophysical investigations.	TEI- 66	
Ground water studies.	TEI-161	
Horse Mesa.	TEI-165,	TEM-299
Juanita Arch quadrangle	TEM-348,	701
Maverick group area	TEI-117	
Moon Mesa	TEI-165,	TEM-242, 299
Outlaw Mesa	TEI-163,	TEM- 77, 103,
	TEM-185,	186, 189, 202,
	TEM-258,	295

Colorado (cont'd)

Mesa County (cont'd)

Pine Mountain quadrangle. TEM-206, 704
 Uravan Mineral belt TEI-109, 283,
 TEM-271, 359, 632

Mesozoic rocks. J-48

Mining industry in relation to Geological Survey. J-56

Moffat County TEI-173, 308, TEM-60

Coal. TEI-281

Montezuma County

Aneth-1 quadrangle. TEM-452

Ute Mountains TEM-583, J-87

Verdure-9 quadrangle. TEM-385

Verdure-16 quadrangle TEM-392

Montrose County TEI-232, TEM-290

Anderson Mesa quadrangle. TEM-458, 690

Atkinson Creek quadrangle TEM-266, 691

Atkinson Mesa TEM-265, 274, 498

Atkinson Mesa area. TEI-290, TEM-481

Bull Canyon quadrangle. TEM-268, 268A, 692

Club Mesa TEI-147, TEM-111, 176,

TEM-177, 178, 179, 184,

TEM-204, 256, 260, 261,

TEM-296, 495

Davis Mesa quadrangle TEM-267, 694

Dolores Bench TEI-214, TEM-262, 263,

TEM-264, 461

Gateway district. TEI-283, TEM-271, 632

Ground water studies. TEI-161

Gypsum Valley J-103, OM-j

American Eagle group. TEM-490

Joker area. TEM-626

Pooch group TEM-630

Rambler group TEM-576

Terrible group. TEM-493

Horse Mesa. TEI-165, TEM-299

Jo Dandy area TEM-155, 302, 494, 725

Long Park TEM-110, 187, 188, 193,

TEM-201, 297, 581, 686

Moon Mesa TEI-165, TEM-299

Mount Peale-1 quadrangle. TEM-467

Mount Peale-8 quadrangle. TEM-465

Mount Peale-9 quadrangle. TEM-450

Naturita NW quadrangle. TEM-208, 702

Paradox district. TEM-459

Geophysical investigations. TEM-578

Paradox quadrangle. TEM-345, 703

Red Canyon quadrangle TEM-350, 705

Roc Creek quadrangle. TEM-349

San Miguel Bench. TEI-289, TEM-487, 496,

TEM-497, 628

Colorado (cont'd)

Montrose County (cont'd)

Spring Creek Mesa	TEM-488, 688, 717, TEM-718 719
Uravan district	TEI-283, TEM-271, TEM-632, 686
Uravan Mineral belt	TEI-109
Aeromagnetic survey	TEM-359
Uravan quadrangle	TEM-347
Morrison formation.	TEM-251, 270, 324
Ground water studies.	TEM-137
Ouray County, Northwestern San Juan Mountains . .	TEM-310
Park County	
Alma district	TEI-248
Shirley May (Garo) deposits	TEI-277, 299, TEM-222
Pegmatites.	TEI-139, P-227
Larimer County.	TEM-105
Permeability studies, Mesa County	TEM-270
Pitchblende	
Boulder County, Caribou mine.	J-72
Gilpin County, Central City district, Quartz Hill.	J-3
Leaching of uranium, radium, and lead from, in H ₂ SO ₄ solutions	TEI-262
Pitkin County	TEI-173
Radioactive springs	TEM- 1, 1A
Rio Blanco County	TEI-173
Coal.	TEI-281
Routt County.	TEI-173, 308
Coal.	TEI-281
San Juan County	
Northwestern San Juan Mountains	TEM-310
Western San Juan Mountains.	TEM-298
San Miguel County	
Anderson Mesa quadrangle.	TEM-458, 690
Bull Canyon quadrangle.	TEM-268, 692
Charles T area.	TEI-112
Egnar quadrangle.	TEM-456, 695
Ellison and Burro claims.	TEI-115, TEM-683
Georgetown group.	TEI-116, TEM-181, TEM-182, 625
Ground water studies.	TEI-161
Gypsum Gap quadrangle	TEM-346, 697
Gypsum Valley	J-103, OM-j
Contact No. 4 claim	TEM-455
Early Morn group.	TEM-623
Long Ridge group.	TEM-682
Lost Group area	TEM-485
Pay Day group	TEM-460
Pitchfork group	TEM-631
Spectacle Point	TEM-681
Sunset claim.	TEM-574
Tiny claim.	TEM-680

Colorado (cont'd)

San Miguel County (cont'd)

Hamm Canyon quadrangle	TEM-351, 698
Hawkeye claim	TEM-687
Horse Range Mesa quadrangle	TEM-463, 699
Joe Davis Hill quadrangle	TEM-457, 700
Legin group area	TEI-164, TEM-113, 171, TEM-180, 190, 191, TEM-192, 200, 257, 275
Lower group of claims	TEI-114
Mount Peale-9 quadrangle	TEM-450
Mount Peale-16 quadrangle	TEM-448
Naturita NW quadrangle	TEM-208, 702
Northwestern San Juan Mountains	TEM-310
Placerville area	TEI-253, TEM-307, J-35
Robinson and Weatherly deposits	TEI-176
Radium group	TEI-113, TEM-80
Slick Rock district	TEI-162, TEM-689
South Radium group area	TEM-685
Spud Patch area	TEI-286, TEM-112, 259, TEM-294, 303
Upper group	TEI-145, TEM-82, TEM-114, 684
Uravan Mineral belt	TEI-109
Aeromagnetic survey	TEM-359
Vanura claims	TEM-454
Verdure-1 quadrangle	TEM-399
Western San Juan Mountains	TEI-306, TEM-298
Shales	TEM-240
Summit County, Montezuma	TEI-296, TEM-516
Teller County	TEI-21
Cripple Creek district	TEI-4
Thorium	TEI-250, 353, 354, TEM-287
Thucholite, San Miguel County	TEM-307
Torbernite, Clear Creek County	TEM-24
Uranium-vanadium ore, potential production	TEI-89
Uranothorite	TEI-144
Uravan mineral belt	TEI-109
Ute Mountains	TEM-583, J-87
Vanadium-bearing sandstone	J-32
Vanadium deposits	B-936
Colorado Front Range (See also Colorado)	TEI-59, TEM-97, 215, TEM-520, J-62
Colorado Plateau (See also Ariz., Colo., N. Mex., Utah)	J-34
Age determination	TEI-108, 245, 268, TEI-322, J-100, J-102

Colorado Plateau (cont'd)

Carnotite	TEI- 80
Age determination, methods of	TEI-108
Geobotanical guides to.	TEI- 96 (pt. 3)
Geologic guides to.	TEI- 86, 96 (pt. 1), TEI- 119, TEM-101, TEM-170, 271
Program for study of.	TEI- 92
Study of radioactive equilibrium in	TEI-106
Clay studies.	TEI-285, TEM-251, 437
Development drilling program.	TEM-332, 491
Distribution of ore deposits.	TEI-278
Electrical resistivity investigations	TEM-232
Geobotanical studies.	TEI-160, TEM-199, J-11
Geologic guides to carnotite ore.	TEI- 86, 96 (pt. 1), TEI-119, TEM-101, TEM-170, 271
Geologic studies.	TEI-110
Geophysical investigations.	TEM-100
Ground water studies.	TEI-161, TEM-99, 109
Isotope geology	J-99
Map of uranium region	TEI-279
Mill capacity for vanadium and uranium ores	TEM- 37
Mineralogic studies	TEI-334, TEM-431, J-116, J-119
Carnotite	TEM- 68
Montroseite	TEI-335
Thermodynamic relations among vanadium oxides	J-40
Uranium ores.	J-119
Morrison formation.	TEI-180, 341, TEM-324, J-18
Original-state core studies	TEM-509
Pre-Morrison formations	TEI-328
Production potential of uranium and vanadium ores	TEM- 37
Recommendations for exploration	TEM- 48
Recommendations for geologic studies.	TEM- 38
Recommendations for physical exploration.	TEM- 38
Recommendations for shift in emphasis of diamond drilling	TEM-203
Reserves, accuracy of estimates	TEI-288
Silicified tuff, quantity of, in sandstone.	TEM-716
Spectrographic analyses of rocks and ores	TEI-278
Summary of investigations, 1950	TEM-276
Tectonic map.	TEM-301
Triassic formations	TEI-313
Uravan mineral belt	TEI-109
Vanadium region	OM-b

Columbia

Geochemistry.	TEI-31J
Occurrence.	TEI- 14

Connecticut	TEI- 67, 392
Middlesex County, cobalt.	TEM-143
Middletown area	TEI-233
Pegmatites.	TEI-233
Shale	TEM-240
Copper ores, radioactivity of	TEM- 55
Crystallography	
Bastnaesite	J-22
Crystal structure of KVO_3	J-25
Crystal structure of $KVO_3 \cdot H_2O$	J-16
Montroseite	TEI-368
Parisite.	J-22
Roentgenite	J-22
Synchisite.	J-22

-E-

Electron microscopy in mineralogic studies.	TEM-471
Entrada sandstone, Colorado, San Juan Mountains	TEM-298
Exploration, U. S. government for carnotite	J-33
Extraction processes	
Uranium from aqueous solution by coals and other materials.	TEI-235

-F-

Florida	
Airborne radioactivity surveys.	TEI-387, TEM-644
Between Sanibel Island and Caladesi Island. . .	TEM-678
Aluminum phosphate zone (see Leached Zone)	
Bone Valley formation	TEI-102, TEM-237, 507
Chemistry	TEI-102
Leached zone.	TEI-102, TEM-436
Mineralogy.	TEI-102, 314
Brewster.	TEM-334
Citrus County, Lowe property.	TEM-279
Coarse pebble phosphate deposits.	TEM-315
Fossils, comparison with modern forms	TEM-149
Gamma-ray logging	TEM-116
Hardee County	TEI-141
Hardrock phosphate belt, leached zone	TEM-168
Hawthorn formation.	TEM-337
Hillsborough County	TEI-141, TEM-157
Mineralogy.	TEI-314
Ownership map	TEM-672
Sydney area	TEM-504

Florida (cont'd)

Homeland

Millisite	TEI-316, TEM-604
Pseudowavellite	TEI-316, TEM-604
Land-pebble phosphate field	TEI- 79, 94, 95,
	TEI-141, 212, 265,
	TEM- 73, 83, 85,
	TEM-138, 157, 172,
	TEM-243, 253, 289,
	TEM-334, 337, 362,
	TEM-363, 436, 464,
	TEM-472, 477, 506,
	TEM-672, J-13
Bayette area.	TEM-505
Fort Meade.	TEM-472
Gamma-ray logging	TEM-116
Leached zone.	TEM-277, 436, J-15
Peace River area.	TEI-394, TEM-477
South Pierce area	TEM-505
Varn mine	TEM-477
Leached zone.	TEM- 83, 138, 157, 464,
	TEI-316, J-15
Chemistry	TEI-102
Hardrock phosphate belt	TEM-168
Hillsborough County	TEM-504
Material in overburden dumps.	TEM-277, 477
Mineralogy.	TEI-102, TEM-478
Millisite	TEI-316, TEM-604
Pseudowavellite	TEI-316, TEM-604
Peace River area.	TEI-394
Polk County	TEI-100, 264,
	TEM-130, 157
Manatee County.	TEI-141
Mulberry.	TEM-334
Osceola County.	TEI-141
Pasco County.	TEI-141
Phosphate (See also land-pebble phosphate field).	TEI- 79, 85, 94,
	TEI- 95, 141, 212,
	TEI-387, TEM-44, 46,
	TEM- 73, 85, 123,
	TEM-138, 230, 231,
	TEM-234, 237, 243,
	TEM-253, 315, 334,
	TEM-337, 362, 363,
	TEM-436, 506, J-13
Citrus County	TEM-279
Distribution of uranium in.	TEI- 85
Phosphate products.	TEM-243
Fort Meade.	TEM-472
Gamma-ray logging	TEM-116
Hardrock belt, leached zone	TEM-168

Florida (cont'd)

Phosphate (cont'd)

Mineralogy.	TEI-266, TEM-89
Minor metal content	TEM-236
Origin and distribution	TEI-212
Ownership maps.	TEM-672
Petrography	TEI-266
Polk County	TEM-123, 233
Thorium content	TEM- 46
Tonnage and grade of leached zone and slime ponds.	TEM- 83
Tonnage and grade of slime ponds and washer debris areas.	TEI- 97
Uranium content of phosphate products	TEM-172
Use of isopachous maps in studying.	J-115
Washer plant waste slimes	TEM- 98
Polk County	TEI-100, 141, TEM-157
Bonny Lake mine	TEM-123, 230, 231
Clear Springs area.	TEI-264
Gooch, Carlton Helms tract.	TEM-130
Hamilton tract.	TEM-233
Homeland area	TEI-264
Ownership map	TEM-672
Reconnaissance.	TEI- 17, 21, 352
Shale	TEM-240
Wavellite	TEM-507
Fluorapatite, system of equilibria.	TEI-385
Fluorimeter (See analytical methods)	
Fluorite	
Colorado, Boulder County, Jamestown district. . .	TEI-144, TEM-25, 173
Formation in sedimentary rocks.	TEI-386
Missouri, Ste. Genevieve County	TEM- 28
System of equilibria.	TEI-385
United States	TEI-168
Utah.	TEI-136, TEM-54
Juab County, Thomas Range	TEM-167, 534, J-90
Fluorspar	
New Mexico, Grant County.	TEM-120
Utah.	TEI- 50, 252

-G-

Gadolinium, geochemistry.	TEI-128
Gallium, geochemistry.	TEI- 37
Gamma-ray logging.	TEM- 52, 93
Arizona, Apache County, Northwestern Carrizo Mountains.	TEM-486
Barnaby.	TEM- 92
Colorado, Mesa County, Calamity Mesa.	TEI- 84, TEM-270
Florida, land-pebble phosphate field.	TEM-116
Instruments for.	TEM-311
New Mexico, Grant County, Black Hawk district, White Signal district.	TEM-675
Oil wells, discovery of radioactive ore.	TEI- 82
Techniques.	TEM-311
Theory of.	TEM-306
Use of in semiquantitative determination of uranium and in stratigraphic correlation.	TEI- 87
Utah, San Juan County, Northwestern Carrizo Mountains.	TEM-486
Gamma-rays, distribution in drill holes.	TEM-135
Geobotanical studies	
Carnotite ores, guides to.	TEI- 96 (pt. 3)
Colorado Plateau.	TEI- 96 (pt. 3), 160, TEM-199, J-11
New Mexico	
McKinley County.	TEM-580
Grants.	TEM-272
Haystack Butte.	TEM-670
Sandoval County, La Ventana Mesa.	TEM-575, 711
Valencia County.	TEM-580
South Dakota, Fall River County, Craven Canyon.	TEM-163
Utah, Grand County, Yellow Cat district.	TEM-273, 579
Piute County.	TEM-483
Temple Mountain district.	TEM-482
Wayne County, Capitol Reef area.	TEM-643
Wyoming, Sweetwater County.	TEM-484
Geochemistry.	J-36
Lignites.	TEI-284
Uranium.	TEI-206
Utah, Wayne County.	TEM-643
Geologic guides to carnotite ores, Colorado Plateau.	TEI- 86, 96 (pt. 1), TEI-119, TEM-101, TEM-170, 271
Geophysical investigations	
Arizona, Monument Valley, Mitchell Mesa.	TEM-577
Colorado	
Mesa County.	TEI- 66
Montrose County, Paradox district.	TEM-578

Geophysical investigations (cont'd)	
Colorado Plateau.	TEM-100, 232
Electrical resistivity studies, Colorado Plateau.	TEM-232
New Mexico, McKinley County, Grants district. . .	TEI-244
Utah	
San Juan County	
Happy Jack mine	TEM-710
White Canyon district, Deerflat	TEM-627
Georgia	
Airborne radioactivity surveys.	TEM-644
Heavy minerals.	TEM- 23
Monazite, placers	TEI-349, TEM-21
Placers, monazite	TEI-349, TEM-21
Reconnaissance.	TEI- 12, 21, 352
Germanium, geochemistry	TEI-31I
In lignites, effect of ashing temperatures	
on volatility.	TEI-267
Occurrence.	TEI- 7
Glossary, thorium- and uranium-bearing minerals . . .	TEI-103
Ground-water studies	
Colorado Plateau.	TEI-161, TEM- 99, 109
Morrison formation, Colorado Plateau.	TEI-161, TEM-137
Southeastern Utah, Morrison formation	TEM-137
Southwestern Colorado, Morrison formation	TEM-137

-H-

Hawthorn formation, Florida	TEM-337
Heavy minerals	
Florida	TEM-289
Georgia	TEM- 23
South Carolina.	TEM- 23
Helium-bearing gases.	TEM- 51

-I-

Ianthinite.	TEI-367
Idaho	
Beaverhead County, Willis quadrangle NW $\frac{1}{4}$	TEI-259
Bonnevill County, Fall Creek area.	TEI-281, TEM-340,
	TEM-341, 555
Carbonaceous rocks.	TEI-281, 336, TEM-444
Caribou County, Johnson Creek quadrangle.	TEI-260

Idaho (cont'd)

Cassia County, Goose Creek district	TEI-272, 339, TEM-341, 432
Centennial Range, phosphate	TEI-323
Coal, Bonneville County, Fall Creek area	TEM-340
Conda, phosphate	TEM- 70
Dry Valley quadrangle	TEI-258
East-central	TEI-140
Granitic rocks	TEM-343
Lemhi County	
Lemhi Pass district	TEI-351, TEM-560, J-84
Mineral Hill	TEM-286
Lignite, Cassia County, Goose Creek district	TEI-272, 339
Limestone, Bonneville County, Fall Creek area	TEM-340
Long Valley district, monazite	TEM-473
Lyon quadrangle, SE $\frac{1}{4}$	OF-d
Monazite	
Lemhi County	TEM-286
Long Valley district	TEM-473
Placers	TEM- 56, 473
Phosphate, Phosphoria formation	TEI- 94, 142, 183, 187, TEI-188, 246, 263, 271, TEI-323, 364, 365, 376, TEM- 62, 70, 194, J-64, OF-a, -b, -g, -n, -p
Pitchblende, Shoshone County, Sunshine mine	TEM- 29
Placer deposits	
Idaho (central)	TEI- 19
Long Valley district	TEM-473
Monazite	TEM- 56, 473
Valley County, Bear Valley district	TEM-602
Placer mining	TEM- 41
Reconnaissance	TEI- 4, 21, 72, 232, TEM- 30, 290, 522
Salmon	TEM- 26
Shale	
Bonneville County, Fall Creek area	TEM-340
Cassia County, Goose Creek district	TEI-272
Shoshone County, Sunshine mine, pitchblende	TEM- 29
Valley County, Bear Valley district	TEM-602
Placer deposits	J-68
Illinois	
Reconnaissance	TEI- 9, 21, 34
Shale	TEM-240
Ilmenite, New Mexico, Sierra County	TEM-139
Immersion liquids, index	TEM-335, J-70
Indexes	
Alaskan trace elements reports	TEM-358
Bibliography of trace elements reports	TEI-200, 301, 400
Numerical list of trace elements reports	TEI-202, 300, 325, 400
Trace elements projects	TEI-201

Indiana	
Reconnaissance.	TEI- 21, 34
Shale	TEI- 1, 64, 240
Indium	
Geochemistry.	TEI-31H
Occurrence.	TEI- 10
Iowa, shale	TEM-240
Isotope geology	TEM- 74
Colorado Plateau.	J-99
Effect of diffusion on natural isotopic abundance ratios	TEI-402, J-83
Thorium and decay products.	TEI-209
Uranium and decay products.	TEI-209

-K-

Kansas	
Coals	TEI- 18
Radioactive sediments	TEI- 52
Reconnaissance.	TEI- 21
Shales.	TEI- 18, TEM-240
Southeastern, oil fields.	TEI-121
Kentucky	
Asphalites	TEI- 43
Coals	TEI- 43, 347
Reconnaissance.	TEI- 21, 34, 352
Shales.	TEI- 1, 22, 43, TEI- 64, 224, TEM-240

-L-

Leached zone, Florida	TEI-316, TEM- 83, 138, TEM-464, J-15
Bone Valley formation	TEI-102, TEM-237, 436
Hardrock phosphate belt	TEM-168
Hillsborough County	TEM-157, 504
Material in overburden dumps.	TEM-277, 477
Mineralogic studies	TEM-478
Millisite-pseudowavellite	TEI-316, TEM-604
Peace River area.	TEI-394
Polk County	TEI-100, TEM-130, 157
Tonnage and grade	TEM- 83
Leaching, uranium, radium, and lead from pitchblende in H ₂ SO ₄ solutions	TEI-262

Liberia, airborne radioactivity survey.	TEM-361
Limestone	
Canada, Great Slave Lake.	TEM- 50
Idaho, Bonneville County, Fall Creek area	TEM-340
United States	TEI-168
Lignites	
Geochemistry.	TEI-284
Germanium in.	TEI-267
Idaho, Cassia County, Goose Creek district. . . .	TEI-272, 339, TEM-341
Mineralogy.	TEI-284
Montana	TEI-123, TEM-126, 446
Nevada	
Churchill County.	TEM-226
Elko County, Goose Creek district	TEI-339
North Dakota.	TEI-123, TEM-126, 175, TEM-341
Bowman County	TEI-238
South Dakota.	TEI-123, TEM-126, 175, TEM-341
Harding County.	TEI-238, TEM-342
Perkins County.	TEI-238
United States	TEI-168
Utah, Boxelder County, Goose Creek district . . .	TEI-339
Wyoming	TEI-123, TEM-126
Logging of holes, by neutron, gamma method, and gamma-ray scattering	J-30

-M-

Magnetic investigations, Utah	
Castle Valley, Round Mountain stock	TEI-342
Maine, reconnaissance	TEI- 68, 317, 392
Marine sediments (recent), radioactivity.	TEM- 49
Maryland, Clinton formation	TEM-434
Massachusetts, reconnaissance	TEI- 69, 392
Measurements of radioactivity, field.	TEI-13
Metamictization	
Metamictic disintegration of zircon group	TEI-369
Studies of metamict minerals	
Methods and procedures.	J-8
Re-examination of fergusonite	J-9
Michigan	
Airborne radioactivity surveys, Marquette County	TEM-159
Baraga County	TEI-303, TEM-741
Goodrich quartzite.	TEM-558

Michigan (cont'd)

Keweenaw rocks.	TEM- 34
Marquette County	
Airborne radioactivity survey	TEM-159
Palmer area	TEI-384, TEM-558
Monazite, Marquette County, Palmer area	TEI-384, TEM-558
Ontonagon County, White Pine mine	TEM-158
Pitchblende, Baraga County.	TEI-303
Reconnaissance.	TEI- 21, TEM-519
Shale	TEI- 1, TEM-158, 240
Mill and smelter products	TEI-242, TEM-40
Mill products program	TEI-242, TEM-61, 71
Cobalt analyses	TEM- 86
Mineralogy	
Arizona, Yavapai County	J-4
Bayleyite	TEI-243, 309, J-97
Becquerelite.	TEI-309, J-39
Billietite.	J-39
Bone Valley formation, Florida.	TEI-314
Carnotite	TEM-57, 90, J-23
Colorado Plateau.	TEM-68
Catalog of radioactive minerals for study.	TEI-129
Chattanooga shale	TEM-474
Claystones and siltstones, Jurassic and	
Cretaceous	TEI-285
Coal, Wyoming, Sweetwater County.	TEI-389
Coffinite	TEM-647
Colorado Plateau.	TEI-334, TEM-431,
	J-116, 119
Clay studies.	TEM-437
Electron microscopy	TEM-471
Hummerite	J-117
Hydration and base exchange properties	
carnotite, tyuyamunite, and related compounds.	J-74
Hydroxyl substitution in thorite and zircon	J-37
Ianthinite, alteration study.	TEI-367
Leached zone, Florida	TEI-102, TEM-478
Lignites.	TEI-284
Millisite, Florida.	TEI-316, TEM-604
Montroseite	J-117, 118
Alteration processes in	J-27
Colorado Plateau.	TEI-335
Navajoite	TEI-393
Phosphate, Florida.	TEI-266, TEM-89
Phosphate, western field.	TEM- 94
Pseudowavellite	TEI-316
Quantitative determination of calcite associated	
with carbonate-bearing apatites.	J-88
Roentgenite	J-21
Sengierite.	J-23
Shales.	TEM- 95
Strontian apatite	J-59

Mineralogy (cont'd)

Thermodynamic relations among vanadium oxides . . .	J-40
Thorium-bearing minerals.	TEI-103
Tyuyamunite	J-23
Uranium-bearing minerals.	TEI-103
Wavellite, Florida.	TEM-507, 604
Zeunerite	J-38
Zircon, Oklahoma.	J-61
Mine products, sampling program	TEI-242
Mine sampling, Florida land-pebble phosphate field. . .	TEM- 85
Mining geology.	J-82
Minnesota, reconnaissance	TEM-519
Mississippi, reconnaissance	TEI-352
Missouri, reconnaissance.	TEI- 9, 21, 34
Ste. Genevieve County, Bussen's quarry.	TEM- 28
Shale	TEM-240
Ste. Genevieve County, Bussen's quarry.	TEM- 28
Monazite.	TEM- 45
Georgia	TEI-349
Idaho, Lemhi County, Mineral Hill	TEM-286
Long Valley district.	TEM-473
Placers	TEM- 56
Michigan, Marquette County, Palmer area	TEI-384, TEM-558
North Carolina.	TEI- 32, 349, TEM-502
Placers	TEM-248, 283
Placer deposits	
Georgia	TEI-349, TEM-21
Idaho	TEM- 56, 473
North Carolina.	TEI- 32, 349,
	TEM- 21, 283
South Carolina.	TEI-349, TEM-21
Virginia.	TEI-349, TEM-21
South Carolina.	TEI-349, TEM-502, 539
Placers	TEM-248
Virginia.	TEI-349
Montana	
Beaverhead County, Brown's Lake area.	TEI-259
Lemhi Pass district	TEI-351, J-84
Willis quadrangle	
Northwest quarter	TEI-259
Southwest quarter	TEI-312
Boulder batholith	J-6
Petrography of northeastern	J-7
Cedar Creek	OF-e
Centennial Range, phosphate	TEI-323
Coal.	TEM-446
Daly's spur	OF-e
Dell.	OF-e
Eldridge quadrangle	OF-o
Granitic rocks.	TEM-343
Jefferson County, Basin, Comstock claims.	TEM-127
Boulder district, Free Enterprise mine.	TEM-140

Montana (cont'd)

Jefferson County (cont'd)

Clancey	TEI-256, TEM-31, 229
Comet and Gray Eagle mines.	TEM-603
Jefferson City quadrangle	
Clancy Creek area	TEI-257
Comet area.	TEI-282
Lemhi Pass district	TEM-560
Lignite	TEI-123, TEM-126, 446
Lyon quadrangle, SE 1/4	OF-d
Phosphate, Phosphoria formation	TEI- 5, 94, 142, 186, TEI-246, 263, 271, 361, TEI-362, 375, TEM-62, TEM-194, J-19, J-64, J-107, OF-a, -b, -g, OF-m, -p
Centennial Range.	TEI-323
Powell County	TEM-245
Powell County, phosphate.	TEM-245
Reconnaissance.	TEI- 4, 21, 61, TEM- 30, 522
Shale	TEM-240, 446
Small Horn canyon	OF-e
Southwestern, uranium and thorium deposits.	TEI-140
Virginia City quadrangle.	OF-o
Monzonite, Utah, Sevier County.	TEM-151
Morocco, phosphates	TEM-238
Morrison formation	
Arizona, Northern Chuska Mountains.	TEM-209
Colorado.	TEM-251
Ground-water studies.	TEI-161, TEM-137
Mesa County, Calamity Mesa.	TEM-270
Colorado Plateau.	TEI-180, 341, TEM-324, J-18
Ground-water studies, Colorado Plateau.	TEI-161, TEM-137
New Mexico, Northern Chuska Mountains	TEM-209
Petrophysical studies	TEM-608
Salt Wash member, Colorado Plateau.	TEI-341, J-120
Utah, ground-water studies.	TEM-137

-N-

Navajoite, Arizona.	TEI-393
Nebraska, shales.	TEM-338
Neutron, absorption cross-section of silicon.	J-110
Nevada	
Beryl, Elko County, Ruby Mountains.	OF-i
Carbonaceous rocks.	TEI-337, TEM-444
Churchill County, Gamma property.	TEM-226
Elko County	
Errington-Thiel mine.	TEI- 71
Goose Creek district.	TEI-339, TEM-432
Ruby Mountains, beryl.	OF-i
Esmeralda County, Coaldale.	TEM-336
Humboldt County, Virgin Valley district.	TEM-227
Lignite, Elko County, Goose Creek district.	TEI-339, TEM-226
Lyon County, East Walker River area.	TEM-228
Yerington property.	TEM- 11
Nye County, Round Mountain, Henebergh Tunnel.	TEM- 12
Pershing County	
Majuba Hill.	TEI-81A, 171, TEM-2, TEM- 2A, 2B, J-109
Stalin's Present prospect.	TEM-223
Phosphate, Phosphoria formation.	TEI-263, 271
Reconnaissance.	TEI- 4, 9, 21, TEI- 24, 169, TEM-58
Shale.	TEM-338, 240
Elko County, Goose Creek district.	TEI-339
New Hampshire.	TEI-392
Pegmatites.	J-75
Reconnaissance.	TEI- 67
New Jersey	
Clinton formation.	TEM-434
Hunterdon County, Clinton.	TEI-382
Stockton.	TEM-125
Reconnaissance.	TEI-317, 392, TEM-255, 551
Shale.	TEM-240
Torbernite, Hunterdon County, Stockton.	TEM-125
New Mexico (See also Colorado Plateau)	
Airborne radioactivity survey	
McKinley County.	TEM-161
Valencia County.	TEM-161
Beryllium.	TEI-166
Carrizo Mountains.	TEM-196
Coal	
Rio Arriba County.	TEM-309
Sandoval County.	TEM-309
La Ventana Mesa.	TEI-241
Fluorspar, Grant County.	TEM-120
Gamma-ray logging, Grant County.	TEM-675

New Mexico (cont'd)

Geobotanical studies

McKinley County	TEM-580	
Grants.	TEM-272	
Haystack Butte.	TEM-670	
Sandoval County, La Ventana Mesa.	TEM-575,	711
Valencia County	TEM-580	
Grant County.	TEI-156	
Black Hawk district	TEI-261,	TEM-118, J-41
Gamma-ray logging, Tyrone	TEM-675	
Black Range	TEM-119	
Hines and Langford prospects.	TEM-210	
Tunnel Site No. 1 claim	TEM-134	
White Signal district	J-42	
Apache Trail prospect	TEM-121	
Blue Jay claim.	TEM-117	
Merry Widow claim	TEI-157,	TEM-146
Monarch #2 claim.	TEM-160	
Moneymaker claim.	TEM-160	
Tyrone, gamma-ray logging	TEM-675	
Wild Irishman claim	TEM-160	
Ilmenite, Sierra County	TEM-139	
Lea County.	TEM-107	
Luna County, Victorio Mountains, beryllium.	TEI-166	
McKinley County		
Geobotanical studies.	TEM-580	
Grants		
Airborne radioactivity survey	TEM-161	
Geobotanical studies.	TEM-272	
Geophysical investigations.	TEI-244	
Haystack Butte, geobotanical studies.	TEM-670	
Mora County, Coyote district.	TEI-338,	TEM-556
Guadalupita	TEM-435	
Morrison formation, Northern Chuska Mountains	TEM-209	
Northern Chuska Mountains, Morrison formation	TEM-209	
Northwestern, Carrizo Mountains		
Pastora Peak NE	TEM-425	
Pastora Peak SE	TEM-427	
Red Rock Valley NE.	TEM-420	
Red Rock Valley SE.	TEM-421	
Pitchblende, Grant and Sierra Counties.	TEM-119	
Pre-Morrison formations	TEM-249	
Reconnaissance.	TEI- 4,	9, 21,
	TEI-174,	198, 232,
	TEM-290,	443
Rio Arriba County, black shale, coal.	TEM-309	
San Juan County, Carrizo Mountains.	TEM-300,	C-111
Sandoval County		
Coal.	TEM-309	
La Ventana Mesa area		
Coal.	TEI-241,	TEM-341
Geobotanical studies.	TEM-575,	711
Shale	TEI-241,	TEM-309, 341

-0-

Ohio	
Reconnaissance.	TEI- 21
Shale	TEI- 1, 64, TEM-240
Oil fields, radioactivity, in Kansas.	TEI-121
Oils (crude), associated with uranium	TEM-513
Oklahoma	
Coals	TEI- 18
Radioactive sediments	TEI- 52
Reconnaissance.	TEI- 9, 21
Shales.	TEI- 18, TEM-240
Southwestern, asphaltites	TEI-298
Ore distribution studies, Colorado.	TEM-632
Oregon.	TEM-522
Carbonaceous rocks.	TEI-337, TEM-444
Granitic rocks.	TEM-343
Reconnaissance.	TEI- 21, 24
Ore-lead, nature of	J-12
Origin of uranium, effect of volcanic debris on	TEI-170
Original-state core studies, Colorado Plateau	TEM-509

-P-

Pegmatites.	J-78
Alaska, south-central	TEI-191
California	
San Bernardino County, Cady Mountains	TEM-144, J-47
San Diego	J-44
Colorado.	TEI-139, P-227
Gunnison County	TEI-138
Larimer County.	TEM-105
Connecticut, Middletown area.	TEI-233
New Hampshire	J-75
Nevada, Elko County	TEI- 71
North Carolina.	TEI- 3
South Dakota, Custer County	TEI-155, 225, 226, 231
Utah.	P-227
Wyoming	P-227
Pennsylvania	
Asphaltite.	TEI-43
Carbon County	TEM-503
Mauch Chunk	TEM- 19, 241
Clinton formation	TEM-434
Coals	TEI- 43, 348
Reconnaissance.	TEI- 21, 317,
	TEM-255, 551
Shales.	TEI- 43, TEM-240

Periodic reports

Quarterly, trace elements progress TEI-270, 280
 Semiannual, trace elements progress TEI-310, 330, 331,
 TEI-390, 391

Permeability studies, Colorado, Mesa County TEM-270

Petrography, mineral composition from mineral
 grain count. TEI-273

Petroliferous rocks, association with uranium TEM-513

Petrology, relation of type of country rock to
 shape of granitic pegmatite intrusions J-91

Petrophysical studies, Morrison formation TEM-608

Phosphate

Alaska, Brooks Range. TEM-328

Florida TEI- 79, 94, 95, 141,
 TEI-265, 271, TEM-44,
 TEM- 46, 73, 85, 123,
 TEM-138, 157, 172, 230,
 TEM-231, 234, 243, 253,
 TEM-315, 334, 337, 362,
 TEM-363, 506, J-13

Citrus County TEM-279

Distribution. TEI-212

Distribution of uranium TEI- 85

Fort Meade. TEM-472

Gamma-ray logging TEM-116

Hardrock belt, leached zone TEM-168

Mineralogy. TEI-266, TEM-89

Minor metal content TEM-236

Origin. TEI-212

Ownership map TEM-672

Polk County TEM-123, 233

Tonnage and grade of slime ponds and
 washer debris areas. TEI- 97

Use of isopachous maps. J-115

Washer plant waste slimes TEM- 98

Mineralogy

Florida TEM- 89

Northwest phosphate field TEM- 94

Minor metal content, Florida. TEM-236

Morocco TEM-238

Nevada, Phosphoria formation. TEI-263, 271

Northwestern phosphate field. TEM- 94

Phosphoria formation. TEI-111

Byproduct elements, potential TEI-131

Distribution of uranium in. TEI-275

Idaho TEI- 94, 142, 183, 187,
 TEI-188, 246, 263, 271,
 TEI-323, 364, 365, 376,
 TEM- 62, 70, 194,
 J-64, OF-a, -b, -g, -m,
 OF-p

Phosphate (cont'd)

Phosphoria formation (cont'd)

Montana TEI- 5, 94, 186, 246,
 TEI-263, 271, 323, 361,
 TEI-362, 375, TEM-62,
 TEM-194, 245, J-19, -64,
 J-107, OF-a, -b, -g, -m,
 OF-p

Rare earths in. TEM-194

Relation of uranium and phosphate TEI- 77

Utah. TEI- 94, 142, 185, 246,
 TEI-263, 271, 360,
 TEM- 62, 194, J-64,
 OF-a, -m, -p

Wyoming TEI- 94, 142, 184, 246,
 TEI-263, 271, 363, 377,
 TEI-378, TEM-62, 194,
 J-64, OF-a, -b, -g, -m,
 OF-p

South Carolina, Charleston County TEM-246

Synthesis of, abstracts of literature on. TEI-132

Tennessee TEI-271

Thorium content, Florida. TEM- 46

Uranium in rich phosphate beds, Phosphoria
 formation. TEI-142

Western United States TEM- 64

Sampling and mill studies TEM- 65

Photogeologic maps (according to quadrangle)

Agathla Peak-1 quadrangle. TEM-441

Agathla Peak-2 quadrangle. TEM-411

Agathla Peak-4 quadrangle. TEM-412

Agathla Peak-6 quadrangle. TEM-541

Agathla Peak-7 quadrangle. TEM-468

Agathla Peak-8 quadrangle. TEM-440

Aneth-1 and Aneth-2 quadrangles. TEM-452 and 364

Aneth-3 quadrangle TEM- 365

Aneth-4 quadrangle TEM-366

Aneth-5 quadrangle TEM-393

Aneth-6 quadrangle TEM-400

Aneth-7 quadrangle TEM-367

Aneth-8 quadrangle TEM-368

Bluff-1 quadrangle TEM-369

Bluff-8 quadrangle TEM-370

Bluff-13 quadrangle. TEM-371

Bluff-14 quadrangle. TEM-401

Carlisle-1 quadrangle. TEM-372

Carlisle-2 quadrangle. TEM-667

Carlisle-3 quadrangle. TEM-592

Carlisle-4 quadrangle. TEM-547

Carlisle-5 quadrangle. TEM-544

Carlisle-6 quadrangle. TEM-587

Carlisle-8 quadrangle. TEM-373

Photogeologic maps (according to quadrangle) (cont'd)

Carlisle- (cont'd)

Carlisle-9 quadrangle	TEM-374
Carlisle-10 quadrangle	TEM-669
Carlisle-15 quadrangle	TEM-668
Carlisle-16 quadrangle	TEM-375
Circle Cliffs-1 quadrangle	TEM-586
Circle Cliffs-2 quadrangle	TEM-548
Circle Cliffs-3 quadrangle	TEM-549
Circle Cliffs-4 quadrangle	TEM-634
Circle Cliffs-5 quadrangle	TEM-635
Circle Cliffs-6 quadrangle	TEM-585
Circle Cliffs-7 quadrangle	TEM-590
Circle Cliffs-8 quadrangle	TEM-595
Circle Cliffs-9 quadrangle	TEM-529
Circle Cliffs-10 quadrangle	TEM-531
Circle Cliffs-11 quadrangle	TEM-636
Circle Cliffs-14 quadrangle	TEM-637
Circle Cliffs-15 quadrangle	TEM-641
Circle Cliffs-16 quadrangle	TEM-614
Clay Hills-12 quadrangle	TEM-413
Clay Hills-13 quadrangle	TEM-409
Clay Hills-14 quadrangle	TEM-442
Clay Hills-15 quadrangle	TEM-414
Clay Hills-16 quadrangle	TEM-449
Desert Lake-9 quadrangle	TEM-737
Desert Lake-11 quadrangle	TEM-658
Desert Lake-14 quadrangle	TEM-651
Elk Ridge-1 quadrangle	TEM-410
Elk Ridge-8 quadrangle	TEM-407
Elk Ridge-9 quadrangle	TEM-453
Elk Ridge-12 quadrangle	TEM-396
Elk Ridge-13 quadrangle	TEM-376
Elk Ridge-16 quadrangle	TEM-377
Emery-1 quadrangle	TEM-591
Emery-8 quadrangle	TEM-593
Emery-9 quadrangle	TEM-588
Emery-16 quadrangle	TEM-546
Kaiparowits Peak-8 quadrangle	TEM-661
Kaiparowits Peak-9 quadrangle	TEM-663
Moab-10 quadrangle	TEM-616
Moab-11 quadrangle	TEM-652
Moab-12 quadrangle	TEM-639
Moab-13 quadrangle	TEM-731
Moab-14 quadrangle	TEM-584
Moab-15 quadrangle	TEM-598
Mount Peale-1 quadrangle	TEM-467
Mount Peale-4 quadrangle	TEM-527
Mount Peale-5 quadrangle	TEM-378
Mount Peale-6 quadrangle	TEM-379, 379A
Mount Peale-7 quadrangle	TEM-466
Mount Peale-8 quadrangle	TEM-465

Photogeologic maps (according to quadrangle) (cont'd)

Mount Peale- (cont'd)	
Mount Peale-9 quadrangle	TEM-450
Mount Peale-10 quadrangle.	TEM-451
Mount Peale-11 quadrangle.	TEM-380, 380A
Mount Peale-12 quadrangle.	TEM-381
Mount Peale-13 quadrangle.	TEM-398
Mount Peale-14 quadrangle.	TEM-382
Mount Peale-15 quadrangle.	TEM-447
Mount Peale-16 quadrangle.	TEM-448
Mount Pennell-5 quadrangle	TEM-596
Mount Pennell-11 quadrangle.	TEM-633
Mount Pennell-12 quadrangle.	TEM-597
Mount Pennell-13 quadrangle.	TEM-615
Mount Pennell-14 quadrangle.	TEM-613
Navajo Mountain-3 quadrangle	TEM-621
Navajo Mountain-4 quadrangle	TEM-619
Navajo Mountain-6 quadrangle	TEM-620
Navajo Mountain-9 quadrangle	TEM-469
Navajo Mountain-13 quadrangle.	TEM-526
Navajo Mountain-16 quadrangle.	TEM-470
Notom-15 quadrangle.	TEM-640
Orange Cliffs-1 quadrangle	TEM-665
Orange Cliffs-2 quadrangle	TEM-600
Orange Cliffs-3 quadrangle	TEM-594
Orange Cliffs-4 quadrangle	TEM-664
Orange Cliffs-5 quadrangle	TEM-525
Orange Cliffs-6 quadrangle	TEM-599
Orange Cliffs-7 quadrangle	TEM-612
Orange Cliffs-8 quadrangle	TEM-654
Orange Cliffs-9 quadrangle	TEM-732
Orange Cliffs-10 quadrangle.	TEM-618
Orange Cliffs-11 quadrangle.	TEM-523
Orange Cliffs-12 quadrangle.	TEM-524
Orange Cliffs-13 quadrangle.	TEM-500
Orange Cliffs-14 quadrangle.	TEM-501
Orange Cliffs-15 quadrangle.	TEM-653
Setsiltso Springs-3 quadrangle	TEM-402
Setsiltso Springs-4 quadrangle	TEM-404
Setsiltso Springs-5 quadrangle	TEM-439
Shanto Spring-1 quadrangle	TEM-499
Stinking Spring Creek-2 quadrangle	TEM-589
Stinking Spring Creek-3 quadrangle	TEM-542
Stinking Spring Creek-4 quadrangle	TEM-532
Stinking Spring Creek-5 quadrangle	TEM-528
Stinking Spring Creek-6 quadrangle	TEM-530
Stinking Spring Creek-7 quadrangle	TEM-550
Stinking Spring Creek-8 quadrangle	TEM-657
Stinking Spring Creek-9 quadrangle	TEM-650
Stinking Spring Creek-10 quadrangle.	TEM-543
Stinking Spring Creek-11 quadrangle.	TEM-383

Photogeologic maps (according to quadrangle) (cont'd)

Stinking Spring Creek- (cont'd)	
Stinking Spring Creek-12 quadrangle	TEM-384
Stinking Spring Creek-13 quadrangle	TEM-397
Stinking Spring Creek-14 quadrangle	TEM-394
Stinking Spring Creek-15 quadrangle	TEM-545
Straight Cliffs-1 quadrangle	TEM-638
Straight Cliffs-2 quadrangle	TEM-662
Tidwell-4 quadrangle	TEM-655
Tidwell-5 quadrangle	TEM-642
Tidwell-9 quadrangle	TEM-660
Tidwell-15 quadrangle	TEM-656
Tidwell-16 quadrangle	TEM-617
Verdure-1 quadrangle	TEM-399
Verdure-2 quadrangle	TEM-406
Verdure-3 quadrangle	TEM-433
Verdure-4 quadrangle	TEM-438
Verdure-5 quadrangle	TEM-408
Verdure-6 quadrangle	TEM-405
Verdure-7 quadrangle	TEM-395
Verdure-8 quadrangle	TEM-403
Verdure-9 quadrangle	TEM-385
Verdure-10 quadrangle	TEM-386
Verdure-11 quadrangle	TEM-387
Verdure-12 quadrangle	TEM-388
Verdure-13 quadrangle	TEM-389
Verdure-14 quadrangle	TEM-390
Verdure-15 quadrangle	TEM-391
Verdure-16 quadrangle	TEM-392
Woodside-13 quadrangle	TEM-659

Photogeologic maps (according to state and county)

Arizona

Apache County

Setsiltso Springs-3 quadrangle	TEM-402
Setsiltso Springs-4 quadrangle	TEM-404
Setsiltso Springs-5 quadrangle	TEM-439

Navajo County

Agathla Peak-1 quadrangle	TEM-441
Agathla Peak-2 quadrangle	TEM-411
Agathla Peak-4 quadrangle	TEM-412
Agathla Peak-6 quadrangle	TEM-541
Agathla Peak-7 quadrangle	TEM-468
Agathla Peak-8 quadrangle	TEM-440
Shanto Spring-1 quadrangle	TEM-499

Colorado

Dolores County

Verdure-1 quadrangle	TEM-399
Verdure-8 quadrangle	TEM-403
Verdure-9 quadrangle	TEM-385

Photogeologic maps (according to state and county) (cont'd)

Colorado (cont'd)

Montezuma County

Aneth-1 quadrangle TEM-452
 Verdure-9 quadrangle TEM-385
 Verdure-16 quadrangle. TEM-392

Montrose County

Mount Peale-1 quadrangle TEM-467
 Mount Peale-8 quadrangle TEM-465
 Mount Peale-9 quadrangle TEM-450

San Miguel County

Mount Peale-9 quadrangle TEM-450
 Mount Peale-16 quadrangle. TEM-448
 Verdure-1 quadrangle TEM-399

Utah

Emery County

Desert Lake-9 quadrangle TEM-737
 Desert Lake-11 quadrangle. TEM-658
 Desert Lake-14 quadrangle. TEM-651
 Emery-1 quadrangle TEM-591
 Emery-8 quadrangle TEM-593
 Emery-9 quadrangle TEM-588
 Emery-16 quadrangle. TEM-546
 Moab-13 quadrangle TEM-731
 Stinking Spring Creek-2 quadrangle TEM-589
 Stinking Spring Creek-3 quadrangle TEM-542
 Stinking Spring Creek-4 quadrangle TEM-532
 Stinking Spring Creek-5 quadrangle TEM-528
 Stinking Spring Creek-6 quadrangle TEM-530
 Stinking Spring Creek-7 quadrangle TEM-550
 Stinking Spring Creek-8 quadrangle TEM-657
 Stinking Spring Creek-9 quadrangle TEM-650
 Stinking Spring Creek-10 quadrangle. TEM-543
 Stinking Spring Creek-11 quadrangle. TEM-383
 Stinking Spring Creek-12 quadrangle. TEM-384
 Stinking Spring Creek-13 quadrangle. TEM-397
 Stinking Spring Creek-14 quadrangle. TEM-394
 Stinking Spring Creek-15 quadrangle. TEM-545
 Tidwell-4 quadrangle TEM-655
 Tidwell-5 quadrangle TEM-642
 Tidwell-9 quadrangle TEM-660
 Tidwell-15 quadrangle. TEM-656
 Tidwell-16 quadrangle. TEM-617
 Woodside-13 quadrangle TEM-659

Garfield County

Circle Cliffs-1 quadrangle TEM-586
 Circle Cliffs-2 quadrangle TEM-548
 Circle Cliffs-3 quadrangle TEM-549
 Circle Cliffs-4 quadrangle TEM-634
 Circle Cliffs-5 quadrangle TEM-635
 Circle Cliffs-6 quadrangle TEM-585
 Circle Cliffs-7 quadrangle TEM-590

Photogeologic maps (according to state and county) (cont'd)
Utah (cont'd)

Garfield County (cont'd)

Circle Cliffs- (cont'd)	
Circle Cliffs-8 quadrangle	TEM-595
Circle Cliffs-9 quadrangle	TEM-529
Circle Cliffs-10 quadrangle.	TEM-531
Circle Cliffs-11 quadrangle.	TEM-636
Circle Cliffs-14 quadrangle.	TEM-637
Circle Cliffs-15 quadrangle.	TEM-641
Circle Cliffs-16 quadrangle.	TEM-614
Kaiparowits Peak-8 quadrangle.	TEM-661
Kaiparowits Peak-9 quadrangle.	TEM-663
Mount Pennell-5 quadrangle	TEM-596
Mount Pennell-11 quadrangle.	TEM-633
Mount Pennell-12 quadrangle.	TEM-597
Mount Pennell-13 quadrangle.	TEM-615
Mount Pennell-14 quadrangle.	TEM-613
Notom-15 quadrangle.	TEM-640
Orange Cliffs-9 quadrangle	TEM-732
Orange Cliffs-10 quadrangle.	TEM-618
Orange Cliffs-11 quadrangle.	TEM-523
Orange Cliffs-12 quadrangle.	TEM-524
Orange Cliffs-13 quadrangle.	TEM-500
Orange Cliffs-14 quadrangle.	TEM-501
Orange Cliffs-15 quadrangle.	TEM-653

Grand County

Moab-10 quadrangle	TEM-616
Moab-11 quadrangle	TEM-652
Moab-12 quadrangle	TEM-639
Moab-13 quadrangle	TEM-731
Moab-14 quadrangle	TEM-584
Moab-15 quadrangle	TEM-598
Mount Peale-1 quadrangle	TEM-467
Mount Peale-4 quadrangle	TEM-527
Tidwell-9 quadrangle	TEM-660
Tidwell-16 quadrangle.	TEM-617

Kane County

Circle Cliffs-14 quadrangle.	TEM-637
Circle Cliffs-15 quadrangle.	TEM-641
Circle Cliffs-16 quadrangle.	TEM-614
Mount Pennell-13 quadrangle.	TEM-615
Mount Pennell-14 quadrangle.	TEM-613
Navajo Mountain-3 quadrangle	TEM-621
Navajo Mountain-4 quadrangle	TEM-619
Navajo Mountain-6 quadrangle	TEM-620
Navajo Mountain-13 quadrangle.	TEM-526
Straight Cliffs-1 quadrangle	TEM-638
Straight Cliffs-2 quadrangle	TEM-662

Photogeologic maps (according to state and county) (cont'd)

Utah (cont'd)

San Juan County

Aneth-1 quadrangle	TEM-452	
Aneth-2 quadrangle	TEM-364	
Aneth-3 quadrangle	TEM-365	
Aneth-4 quadrangle	TEM-366	
Aneth-5 quadrangle	TEM-393	
Aneth-6 quadrangle	TEM-400	
Aneth-7 quadrangle	TEM-367	
Aneth-8 quadrangle	TEM-368	
Bluff-1 quadrangle	TEM-369	
Bluff-8 quadrangle	TEM-370	
Bluff-13 quadrangle	TEM-371	
Bluff-14 quadrangle	TEM-401	
Carlisle-1 quadrangle	TEM-372	
Carlisle-2 quadrangle	TEM-667	
Carlisle-3 quadrangle	TEM-592	
Carlisle-4 quadrangle	TEM-547	
Carlisle-5 quadrangle	TEM-544	
Carlisle-6 quadrangle	TEM-587	
Carlisle-8 quadrangle	TEM-373	
Carlisle-9 quadrangle	TEM-374	
Carlisle-10 quadrangle	TEM-669	
Carlisle-15 quadrangle	TEM-668	
Carlisle-16 quadrangle	TEM-375	
Clay Hills-12 quadrangle	TEM-413	
Clay Hills-13 quadrangle	TEM-409	
Clay Hills-14 quadrangle	TEM-442	
Clay Hills-15 quadrangle	TEM-414	
Clay Hills-16 quadrangle	TEM-449	
Elk Ridge-1 quadrangle	TEM-410	
Elk Ridge-8 quadrangle	TEM-407	
Elk Ridge-9 quadrangle	TEM-453	
Elk Ridge-12 quadrangle	TEM-396	
Elk Ridge-13 quadrangle	TEM-376	
Elk Ridge-16 quadrangle	TEM-377	
Mount Peale-1 quadrangle	TEM-467	
Mount Peale-4 quadrangle	TEM-527	
Mount Peale-5 quadrangle	TEM-378	
Mount Peale-6 quadrangle	TEM-379, 379A	
Mount Peale-7 quadrangle	TEM-466	
Mount Peale-8 quadrangle	TEM-465	
Mount Peale-9 quadrangle	TEM-450	
Mount Peale-10 quadrangle	TEM-451	
Mount Peale-11 quadrangle	TEM-380, 380A	
Mount Peale-12 quadrangle	TEM-381	
Mount Peale-15 quadrangle	TEM-447	
Mount Peale-16 quadrangle	TEM-448	

Photogeologic maps (according to state and county) (cont'd)
Utah (cont'd)

San Juan County (cont'd)

Navajo Mountain-3 quadrangle	TEM-621
Navajo Mountain-6 quadrangle	TEM-620
Navajo Mountain-9 quadrangle	TEM-469
Navajo Mountain-13 quadrangle	TEM-526
Navajo Mountain-16 quadrangle	TEM-470
Orange Cliffs-1 quadrangle	TEM-665
Orange Cliffs-8 quadrangle	TEM-654
Orange Cliffs-15 quadrangle	TEM-653
Verdure-1 quadrangle	TEM-399
Verdure-2 quadrangle	TEM-406
Verdure-3 quadrangle	TEM-433
Verdure-4 quadrangle	TEM-438
Verdure-5 quadrangle	TEM-408
Verdure-6 quadrangle	TEM-405
Verdure-7 quadrangle	TEM-395
Verdure-8 quadrangle	TEM-403
Verdure-9 quadrangle	TEM-385
Verdure-10 quadrangle	TEM-386
Verdure-11 quadrangle	TEM-387
Verdure-12 quadrangle	TEM-388
Verdure-13 quadrangle	TEM-389
Verdure-14 quadrangle	TEM-390
Verdure-15 quadrangle	TEM-391
Verdure-16 quadrangle	TEM-392

Wayne County

Carlisle-4 quadrangle	TEM-547
Carlisle-5 quadrangle	TEM-544
Mount Peale-13 quadrangle	TEM-398
Mount Peale-14 quadrangle	TEM-382
Mount Pennell-14 quadrangle	TEM-613
Orange Cliffs-1 quadrangle	TEM-665
Orange Cliffs-2 quadrangle	TEM-600
Orange Cliffs-3 quadrangle	TEM-594
Orange Cliffs-4 quadrangle	TEM-664
Orange Cliffs-5 quadrangle	TEM-525
Orange Cliffs-6 quadrangle	TEM-599
Orange Cliffs-7 quadrangle	TEM-612
Orange Cliffs-8 quadrangle	TEM-654
Orange Cliffs-9 quadrangle	TEM-732
Orange Cliffs-10 quadrangle	TEM-618
Orange Cliffs-11 quadrangle	TEM-523
Orange Cliffs-12 quadrangle	TEM-524

Photosensitivity, uranium minerals	TEI-107
Pitchblende	
Colorado	
Boulder County, Caribou mine	J-72
Gilpin County, Central City district	TEI-177, 247, TEM-198, J-3
Idaho, Shoshone County, Sunshine mine.	TEM- 29
Michigan, Baraga County.	TEI-303
New Mexico, Grant and Sierra Counties.	TEM-119
United States.	TEI-168
Placer concentrates, Alaska, Fortymile district.	TEI- 57A
Placer mining	
Alaska	TEI- 40
Idaho.	TEM- 41
Placers	
Alaska	TEI- 6, 45 (pt. 1), TEM-326, 327
Idaho (central).	TEI- 19
Monazite	TEM- 56, 473, 602, J-68
Monazite	
Georgia.	TEM- 21
Idaho.	TEM- 56, 473
North Carolina	TEI- 32, TEM-21, 248 TEM-283
South Carolina	TEM- 21, 248
Virginia	TEM- 21
Pleistocene terrace deposits	
Georgia.	TEM- 23
South Carolina	TEM- 23
Pre-Morrison formations	
Arizona.	TEM-249
Colorado Plateau	TEI-328
New Mexico	TEM-249
Resource appraisal	TEI-328
Utah	TEM-249
Pseudowavellite, Florida	TEI-316
Public sample program.	TEM-124, 475, 648
Pyrobitumen deposits, Colorado, San Miguel County.	TEI-176

-Q-

Quarterly progress reports, trace elements TEI-270, 280

-R-

Radioactive springs, Colorado.	TEM- 1, 1A
Radioactive sediments	
Kansas	TEI- 52
Oklahoma	TEI- 52
Radioactivity	
Alluvium downstream from uranium deposits.	TEI-225
Copper ores, in.	TEM- 55
Fresh water.	TEM- 59
Iron oxides, in.	TEI-276
Recent marine sediments.	TEM- 49, 59
Sea water, in.	TEM- 49
Stream gravels, in	TEM-629
Radioactivity counting	
Errors, control chart method applied to.	TEI- 28, 31G
Radioactivity measurements, field.	TEI- 13
Radioactivity, methods for detection	J-28
Equipment.	TEI-211, TEM-323, J-93
Geiger-Muller.	J-94
Modification to Tracerlab automatic	
sample changer.	TEM-142
Ratemeter type 1011.	TEM- 84
Scintillation counters	TEI-403
Measurements of, field	TEI- 13
Radon, Utah, Grand County.	TEM-354
Radon-bearing gas, Amarillo helium district.	TEM-131
Radon in natural gas	TEM-239, 533
Recent sediments, radioactivity in	TEM- 59
Resource appraisal, pre-Morrison formation	TEI-328
Rhode Island, reconnaissance	TEI- 67

-S-

Sandstones	
United States.	TEI-168
Volcanic debris in	TEI-170
Schroekingite, Wyoming, Sweetwater County	TEI-302, TEM-10, 10A,
	TEM-183, 244, 284,
	TEM-288, 518
Secondary uranium deposits, United States.	TEI-168
Sedimentary rocks	
Characteristics of marine uranium-bearing.	J-66
Cross stratification, terminology.	TEI-269
Radioactivity of	TEM- 59
Stratification, terminology.	TEI-269
Semiannual progress reports, trace elements.	TEI-310, 330, 331,
	TEI-390, 391

Shales

Alabama	TEI- 22, TEM-240
Arkansas	TEM-240
California	TEM-240
Characteristics of carbonaceous and bituminous	TEI- 78
Chattanooga	TEI- 22, 58, 62, TEI- 93, 224, 366, TEM- 63, 280, 333, TEM-553, 649, J-108
Origin	TEI-237
Colorado	TEM-240
Connecticut	TEM-240
Florida	TEM-240
Green River oil shale	TEM- 53, 53A
Idaho	
Bonneville County, Fall Creek area	TEM-340
Cassia County, Goose Creek district	TEI-272, TEM-341
Illinois	TEM-240
Indiana	TEI- 1, 64, TEM-240
Iowa	TEM-240
Kansas	TEI- 18, TEM-240
Kentucky	TEI- 1, 22, 43, 64, TEI-224, TEM-240
Michigan	TEI- 1, TEM-240
Ontonagon County, White Pine mine	TEM-158
Mineralogy	TEM- 95
Mining	TEM- 47
Missouri	TEM-240
Ste. Genevieve County, Bussen's Quarry	TEM- 28
Montana	TEM-240, 446
Nebraska	TEM-338
Nevada	TEM-240, 338
Elko County, Goose Creek district	TEI-339
New Jersey	TEM-240
New Mexico	
Rio Arriba County	TEM-309
Sandoval County	TEI-241, TEM-278
New York	TEI- 1, TEM-240
North Carolina	TEM-240
North Dakota	TEM-240
Oklahoma	TEI- 18, TEM-240
Ohio	TEI- 1, 64, TEM-240
Pennsylvania	TEI- 43, TEM-240
Tennessee	TEI- 1, 22, 43, 58, TEI- 62, 63, 64, 93, TEI-224, 366, TEM-43, TEM-240, 280, 333,
Texas	TEM-240
United States	TEI-168
Utah	TEM-240, 338
Boxelder County, Goose Creek district	TEI-339

Shales (cont'd)

Virginia. TEI- 1, 64, TEM-240

Western United States TEI-381

West Virginia TEI- 1, 43, TEM-240

Wyoming TEM-122, 240, 338

Shinarump conglomerate

Age determination J-98

Utah. TEM-317, 353

Smelter products, sampling program. TEI-242

South Carolina

Airborne radioactivity survey TEM-673

Charleston County TEM-246

Heavy minerals. TEM- 23

Monazite, placers TEI-349, TEM-21, 248,
TEM-502, 539

Phosphate, Charleston County. TEM-246

Reconnaissance. TEI-352

South Dakota

Airborne radioactivity survey TEM-748

Autunite. TEM-559

Beryl TEI-226

Black Hills TEI-346, 355

Coals J-20

Custer County TEI-155, 225, 231, 294

Airborne radioactivity surveys

Harney Peak quadrangle, parts TEM-748

Hermosa quadrangle, parts TEM-748

Fall River County TEI-297

Craven Canyon area. TEM-152, 166

Edgemont. J-5

Geobotanical studies. TEM-163

Harding County, lignite TEI-238, TEM-342

Lawrence County TEM-559

Bald Mountain mining district TEM-740

Lignites. TEI-123, 238,
TEM-126, 175,
TEM-341, 342

Pegmatites. TEI-155, 225, 226,
TEI-231

Pennington County, beryl. TEI-226

Perkins County, lignite TEI-238

Reconnaissance. TEI- 4, 20, 21,
TEM-519

Stream gravels, radioactivity of. TEM-629

Synthesis of uranium minerals TEI-107

-T-

Tables

Calculation of radioactive equilibrium from Bateman's equation	TEI-333
Simplifying calculations of activities produced by thermal and pile neutrons	TEI-401

Tantalum

Geochemistry	TEI-31J
Occurrence	TEI- 14

Tennessee

Asphaltite	TEI- 43
Coals.	TEI- 43
Eastern Highland rim	TEI- 62
Reconnaissance	TEI- 8, 21, 352
Shales	TEI- 1, 22, 43, 58, 62, TEI- 63, 64, 224, 366, TEM- 43, 240, 280, 333

Texas

Amarillo helium district, radon-bearing gas.	TEM-131
Chambers County, Bakers Hill oil field	TEM- 27
Coals.	J-20
Glasscock County, Howard-Glasscock oil field	TEM-141
Hockley County, Yellowhouse field.	TEM-129
Howard County, Howard-Glasscock oil field	TEM-141
Panhandle, radon in helium-bearing gas	TEM-239
Panhandle gas field, radon and helium in natural gas	TEM-533
Radon-bearing gas, Amarillo helium district.	TEM-131
Reconnaissance	TEI- 9, 21
Shale.	TEM-240

Thorium

Alaska	TEM-339
California	TEI-251
Colorado	TEI-251, 353
Custer County, Wet Mountains	TEI-354, TEM-287
Fremont County, Wet Mountains.	TEI-354, TEM-287
Florida phosphate.	TEM- 46
Idaho, Lemhi Pass district	TEM-560, J-84
Isotope geology.	TEI-209
Montana, Lemhi Pass district	TEM-560, J-84
United States.	TEM- 39

Thucholite, Colorado, San Miguel County	TEM-307
---	---------

Torbernite

Colorado, Clear Creek County, Robineau claims.	TEM- 24
New Jersey, Hunterdon County, Stockton	TEM-125

Trace elements investigations.	TEI- 30, 33
Trace elements laboratory, progress reports	TEI-101, 148, 151, TEI-167, 182, 218, TEM-174, 250
Trace elements program	TEM- 78, 81
Interest to petroleum geologists	TEM- 75
Transient gas flow	TEI-329
Triassic formations.	TEI-313

-U-

United States

Beryllium resources, non-pegmatitic.	TEI-137
Distribution of uranium deposits	TEI-168
Fluorite	TEI-168
Lignites	TEI-168
Limestones	TEI-168
Northwestern phosphate field	TEM- 64
Mineralogy	TEM- 94
Sampling and mill studies.	TEM- 65
Pitchblende deposits	TEI-168
Sandstone deposits	TEI-168
Secondary uranium deposits	TEI-168
Shales	TEI-168
South-central.	TEI-350
Southwestern, copper-bearing sandstones.	TEM-510
Thorium resources.	TEI-150, TEM-39
Trace elements program	TEI- 35, 36, 207, 208
Uranium deposits	TEI-150, J-67
Western.	TEI-199
Shales	TEI-381
Uranium minerals, identification of, Colorado Plateau	TEI-334
Uranophane, Wyoming, Niobrara County, Lusk	TEI-158, J-121
Uranothorianite	
Alaska, Seward Peninsula, Candle quadrangle.	TEM-355
Colorado	TEI-144
Utah (See also Colorado Plateau).	TEI-230
Beaver County.	TEI- 21, 24
Indian Creek prospect.	TEM-212
Staats fluorspar mine.	TEI- 50
Boxelder County, Goose Creek district.	TEI-339, TEM-432
Burch Canyon	TEM-713
Carbonaceous rocks	TEI-281, 336, TEM-444
Carbon County.	TEI- 21, 24, TEM-444
Castle Valley, Round Mountain stock.	TEI-342
Daggett County, Yellow Canary claims	TEI-124, TEM-313
Davis County	TEM-444
Duchesne County.	TEI- 21, 24, TEM-240
Brush Creek-Diamond Mountain area.	OM-f
Duchesne River area.	OM-c
Limestone.	TEI-308
Moon Lake area	OM-d
Uinta River area	OM-f

Utah (cont'd)

Emery County	TEI- 21, 24, 232
Desert Lake-9 quadrangle	TEM-737
Desert Lake-11 quadrangle	TEM-658
Desert Lake-14 quadrangle	TEM-651
Emery-1 quadrangle	TEM-591
Emery-8 quadrangle	TEM-593
Emery-9 quadrangle	TEM-588
Emery-16 quadrangle	TEM-546
Moab-13 quadrangle	TEM-731
San Rafael Swell	TEM-290
Stinking Spring Creek-2 quadrangle	TEM-589
Stinking Spring Creek-3 quadrangle	TEM-542
Stinking Spring Creek-4 quadrangle	TEM-532
Stinking Spring Creek-5 quadrangle	TEM-528
Stinking Spring Creek-6 quadrangle	TEM-530
Stinking Spring Creek-7 quadrangle	TEM-550
Stinking Spring Creek-8 quadrangle	TEM-657
Stinking Spring Creek-9 quadrangle	TEM-650
Stinking Spring Creek-10 quadrangle	TEM-543
Stinking Spring Creek-11 quadrangle	TEM-383
Stinking Spring Creek-12 quadrangle	TEM-384
Stinking Spring Creek-13 quadrangle	TEM-397
Stinking Spring Creek-14 quadrangle	TEM-394
Stinking Spring Creek-15 quadrangle	TEM-545
Temple Mountain district	TEM-482
Shinarump mesa	TEI- 51
Tidwell-4 quadrangle	TEM-655
Tidwell-5 quadrangle	TEM-642
Tidwell-9 quadrangle	TEM-660
Tidwell-15 quadrangle	TEM-656
Tidwell-16 quadrangle	TEM-617
Woodside-13 quadrangle	TEM-659
Fischer Valley-Sinbad Valley anticline	J-86, OF-n
Fluorite	TEI-136, TEM-54
Juab County, Thomas Range	TEM-167, 534, J-90
Fluorspar	TEI- 50, 252
Gamma-ray logging, San Juan County, Carrizo Mountains	TEM-486
Garfield County	
Circle Cliffs-1 quadrangle	TEM-586
Circle Cliffs-2 quadrangle	TEM-548
Circle Cliffs-3 quadrangle	TEM-549
Circle Cliffs-4 quadrangle	TEM-634
Circle Cliffs-5 quadrangle	TEM-635
Circle Cliffs-6 quadrangle	TEM-585
Circle Cliffs-7 quadrangle	TEM-590
Circle Cliffs-8 quadrangle	TEM-595
Circle Cliffs-9 quadrangle	TEM-529
Circle Cliffs-10 quadrangle	TEM-531
Circle Cliffs-11 quadrangle	TEM-636

Utah (cont'd)

Garfield County (cont'd)

Circle Cliffs-14 quadrangle.	TEM-637
Circle Cliffs-15 quadrangle.	TEM-641
Circle Cliffs-16 quadrangle.	TEM-614
Kaiparowits Peak-8 quadrangle.	TEM-661
Kaiparowits Peak-9 quadrangle.	TEM-663
Mount Pennell-5 quadrangle.	TEM-596
Mount Pennell-11 quadrangle.	TEM-633
Mount Pennell-12 quadrangle.	TEM-597
Mount Pennell-13 quadrangle.	TEM-615
Mount Pennell-14 quadrangle.	TEM-613
Notom-15 quadrangle.	TEM-640
Orange Cliffs-9 quadrangle.	TEM-732
Orange Cliffs-10 quadrangle.	TEM-618
Orange Cliffs-11 quadrangle.	TEM-523
Orange Cliffs-12 quadrangle.	TEM-524
Orange Cliffs-13 quadrangle.	TEM-500
Orange Cliffs-14 quadrangle.	TEM-501
Orange Cliffs-15 quadrangle.	TEM-653

Geobotanical studies

Grand County, Thompsons district, Yellow

Cat area. TEM-273, 579

Piute County, Marysville area TEM-483

Temple Mountain district TEM-482

Geochemical studies, Wayne County, Capitol Reef

area. TEM-643

Geophysical investigations, San Juan County,

Happy Jack mine TEM-710

Grand County TEI-161

Beaver Mesa area TEM-727

Gateway district TEM-283, OM-1

Moab-10 quadrangle TEM-616

Moab-11 quadrangle TEM-652

Moab-12 quadrangle TEM-639

Moab-13 quadrangle TEM-731

Moab-14 quadrangle TEM-584

Moab-15 quadrangle TEM-598

Mount Peale-1 quadrangle TEM-467

Mount Peale-4 quadrangle TEM-527

North La Sal Mountains, Miner's Basin. TEM-354

Seven Mile canyon area TEI-287

Thompsons district, Yellow Cat TEM-205, 352, 579,
TEM-582, 723, J-104

Geobotanical studies TEM-273

Tidwell-9 quadrangle TEM-660

Tidwell-16 quadrangle. TEM-617

Uravan district. TEI-109, 283

Utah (cont'd)

Ground-water studies, Morrison formation	TEI-161, TEM-137
Henry Mountains region	OM-e
Holiday Mesa	TEM-712
Iron County.	TEI- 21, 24, TEM-444
Juab County.	TEM-338
Honeycomb Hills.	TEM-165
Jan Group.	TEM-162
Thomas Range, fluorite	TEI-136, 252, TEM-167, TEM-220, 534, J-90
Kane County.	TEI- 21, 24, TEM-444, J-105
Bulloch group.	TEM-213
Circle Cliffs-14 quadrangle.	TEM-637
Circle Cliffs-15 quadrangle.	TEM-641
Circle Cliffs-16 quadrangle.	TEM-614
Mount Pennell-13 quadrangle.	TEM-615
Mount Pennell-14 quadrangle.	TEM-613
Navajo Mountain-3 quadrangle	TEM-621
Navajo Mountain-4 quadrangle	TEM-619
Navajo Mountain-6 quadrangle	TEM-620
Navajo Mountain-13 quadrangle.	TEM-526
Straight Cliffs-1 quadrangle	TEM-638
Straight Cliffs-2 quadrangle	TEM-662
Lignite, Boxelder County, Goose Creek district	TEI-339
Magnetic investigations.	TEI-342
Millard County	TEM-240
Monzonite, Sevier County, Sevier Plateau	TEM-151
Morrison formation, ground-water studies	TEM-137
Pegmatites	P-227
Phosphate, Phosphoria formation.	TEI- 94, 142, 185, TEI-246, 263, 271, TEI-360, TEM-62, 194, J-64, OF-a, -m, -p
Piute County	
East Slope #2 prospect	TEM-211
Marysvale.	TEM- 33, 169
Geobotanical studies	TEM-483
Papsy's Hope prospect.	TEM-145
Papsy's Hope No. 2	TEM-221
Pre-Morrison formations.	TEM-249
Radon, Grand County, North La Sal Mountains.	TEM-354
Reconnaissance	TEI- 24, TEM-290
Rich County, Laketown.	TEI- 72
Salt Lake County	TEM-338
San Juan County.	TEI-109, 161, TEM-290, 353
Aneth-1 quadrangle	TEM-452
Aneth-2 quadrangle	TEM-364
Aneth-3 quadrangle	TEM-365

Utah (cont'd)

San Juan County (cont'd)

Aneth-4 quadrangle	TEM-366	
Aneth-5 quadrangle	TEM-393	
Aneth-6 quadrangle	TEM-400	
Aneth-7 quadrangle	TEM-367	
Aneth-8 quadrangle	TEM-368	
Bluff quadrangle, parts of	TEM-671	
Bluff-1 quadrangle	TEM-369	
Bluff-8 quadrangle	TEM-370	
Bluff-13 quadrangle	TEM-371	
Bluff-14 quadrangle	TEM-401	
Carlisle-1 quadrangle	TEM-372	
Carlisle-2 quadrangle	TEM-667	
Carlisle-3 quadrangle	TEM-592	
Carlisle-4 quadrangle	TEM-547	
Carlisle-5 quadrangle	TEM-544	
Carlisle-6 quadrangle	TEM-587	
Carlisle-8 quadrangle	TEM-373	
Carlisle-9 quadrangle	TEM-374	
Carlisle-10 quadrangle	TEM-669	
Carlisle-15 quadrangle	TEM-668	
Carlisle-16 quadrangle	TEM-375	
Carrizo Mountains, gamma-ray logging	TEM-486	
Clay Hills-12 quadrangle	TEM-413	
Clay Hills-13 quadrangle	TEM-409	
Clay Hills-14 quadrangle	TEM-442	
Clay Hills-15 quadrangle	TEM-414	
Clay Hills-16 quadrangle	TEM-449	
Comb Ridge area, parts of Bluff quadrangle	TEM-671	
Elk Ridge	TEM-714	
Elk Ridge-1 quadrangle	TEM-410	
Elk Ridge-8 quadrangle	TEM-407	
Elk Ridge-9 quadrangle	TEM-453	
Elk Ridge-12 quadrangle	TEM-396	
Elk Ridge-13 quadrangle	TEM-376	
Elk Ridge-16 quadrangle	TEM-377	
Gamma-ray logging, northwest Carrizo Mountains	TEM-486	
Happy Jack mine	TEM-645	
Geophysical investigations	TEM-710	
Monument Valley	TEI-321, TEM-535	
Holiday Mesa	TEM-712	
Mount Peale-1 quadrangle	TEM-467	
Mount Peale-4 quadrangle	TEM-527	
Mount Peale-5 quadrangle	TEM-378	
Mount Peale-6 quadrangle	TEM-379, 379A	
Mount Peale-7 quadrangle	TEM-466	
Mount Peale-8 quadrangle	TEM-465	
Mount Peale-9 quadrangle	TEM-450	

Utah (cont'd)

San Juan County (cont'd)

Mount Peale-10 quadrangle	TEM-451	
Mount Peale-11 quadrangle	TEM-380,	380A
Mount Peale-12 quadrangle	TEM-381	
Mount Peale-15 quadrangle	TEM-447	
Mount Peale-16 quadrangle	TEM-448	
Navajo Mountain-3 quadrangle	TEM-621	
Navajo Mountain-6 quadrangle	TEM-620	
Navajo Mountain-9 quadrangle	TEM-469	
Navajo Mountain-13 quadrangle	TEM-526	
Navajo Mountain-16 quadrangle	TEM-470	
Orange Cliffs-1 quadrangle	TEM-665	
Orange Cliffs-8 quadrangle	TEM-654	
Orange Cliffs-15 quadrangle	TEM-653	
Paradox district, Gray Daun area	TEM-480	
La Sal Creek area	TEM-724	
Vanadium Queen group	TEM-715	
Red House Cliffs area	TEM-537	
Verdure-1 quadrangle	TEM-399	
Verdure-2 quadrangle	TEM-406	
Verdure-3 quadrangle	TEM-433	
Verdure-4 quadrangle	TEM-438	
Verdure-5 quadrangle	TEM-408	
Verdure-6 quadrangle	TEM-405	
Verdure-7 quadrangle	TEM-395	
Verdure-8 quadrangle	TEM-403	
Verdure-9 quadrangle	TEM-385	
Verdure-10 quadrangle	TEM-386	
Verdure-11 quadrangle	TEM-387	
Verdure-12 quadrangle	TEM-388	
Verdure-13 quadrangle	TEM-389	
Verdure-14 quadrangle	TEM-390	
Verdure-15 quadrangle	TEM-391	
Verdure-16 quadrangle	TEM-392	
White Canyon	TEI-205, 320, TEM-7,	
	TEM- 7A, 325, 540	
Deer Flat, geophysical investigations	TEM-627	
Gonway and North Point claims	TEI-240	
Tiger (Hideout) claim	TEM-479	
Sanpete County	TEM-444	

Sevier County

Black Hill	TEM-150	
Sevier Plateau, Dry Creek canyon	TEM-151	
Tiger Eye No. 1 prospect	TEM-164	
Shale	TEI-339, TEM-240, 338	
Shinarump conglomerate	TEM-317, 353	
Tooele County, Sheeprock Mountains	TEM- 36	
Triassic formations	TEI-313	

Utah (cont'd)

Uintah County.	TEI- 21, 24, 232, TEM-240
Brush Creek-Diamond Mountain area.	OM-f
Carbonaceous rocks, Vernal area.	TEI-336
Coal	TEI-281
Eureka and Happy Landing groups.	TEM- 32
Uinta Basin.	TEI-308
Uinta River area.	OM-f
Uranium-vanadium ore, potential production	TEI- 89
Vanadium deposits.	B-936, OM-b
Utah County.	TEI- 24, TEM-338
Wasatch County	TEI- 24
Duchesne River area.	OM-c
Washington County.	TEI- 21, 24, J-105
Silver Reef district	TEI-254, TEM-214
Wayne County	TEI-232
Capitol Reef area.	TEI-203, 319, TEM-247, 538, 643
Carlisle-4 quadrangle.	TEM-547
Carlisle-5 quadrangle.	TEM-544
Miners Mountain area	OF-f
Mount Peale-13 quadrangle.	TEM-398
Mount Peale-14 quadrangle.	TEM-382
Mount Pennell-14 quadrangle.	TEM-613
Orange Cliffs-1 quadrangle	TEM-665
Orange Cliffs-2 quadrangle	TEM-600
Orange Cliffs-3 quadrangle	TEM-594
Orange Cliffs-4 quadrangle	TEM-664
Orange Cliffs-5 quadrangle	TEM-525
Orange Cliffs-6 quadrangle	TEM-599
Orange Cliffs-7 quadrangle	TEM-612
Orange Cliffs-8 quadrangle	TEM-654
Orange Cliffs-9 quadrangle	TEM-732
Orange Cliffs-10 quadrangle.	TEM-618
Orange Cliffs-11 quadrangle.	TEM-523
Orange Cliffs-12 quadrangle.	TEM-524
Weber County	TEM-338

-V-

Vanadium minerals, identification of, Colorado Plateau. TEI-334
 Venezuela. TEI-222, TEM-331
 Vermont. TEI- 67, 392
 Virginia
 Monazite, placers. TEI-349, TEM-21
 Reconnaissance TEI- 21, 352
 Shale. TEI- 1, 64, TEM-240
 Volcanic debris in sandstones. TEI-170

-W-

Wagon drilling
 Sample collectors for cuttings TEI-213
 Sampling TEI-217
 Washington
 Carbonaceous rocks TEM-444
 Granitic rocks TEM-343
 Lincoln County TEM-197
 Reconnaissance TEI- 4, 21, TEM-522
 Water
 Analyses, California, Salton Sea TEM- 42
 Fresh, radioactivity TEM- 59
 Natural, uranium in. TEM-476
 Non-saline TEM-281
 Sea, radioactivity TEM- 49, 59
 Trace elements concentrations. J-57
 Uranium determinations TEM-305
 Wavellite, Florida TEM-507
 West Virginia
 Asphaltites. TEI- 43
 Coals. TEI- 43
 Reconnaissance TEI- 21, 352
 Shales TEI- 1, 43, TEM-240
 Webster County, Erbacon. TEM-148
 Wisconsin, Marathon County, Wausau TEM-742
 Wyoming
 Airborne radioactivity survey
 Campbell County. TEM-508
 Carbon County, Baggs quadrangle, parts TEM-743
 Miller Hill area TEM-606
 Sand Creek quadrangle, parts TEM-744
 Saratoga quadrangle. TEM-746
 Savery quadrangle, parts of. TEM-745, 747
 Crook County, Devil's Tower area TEM-605

Wyoming (cont'd)

Airborne radioactivity survey (cont'd)

Fremont County, Tabernacle Buttes.	TEM-610
Johnson County, Pumpkin Buttes	TEM-508
Sublette County, Tabernacle Buttes	TEM-610
Sweetwater County	
Aspen Mountain area.	TEM-609
Baggs quadrangle, parts.	TEM-743
Red Desert	TEM-147
Uinta County, West Lonetree area	TEM-611
Campbell County	
Pumpkin Buttes area.	TEI-345, TEM-572
Airborne radioactivity survey.	TEM-508
Carbonaceous rocks	TEI-281, 336
Carbon County	
Baggs quadrangle, airborne radioactivity survey.	TEM-743
Miller Hill area	TEI-315
Airborne radioactivity survey.	TEM-606
Sand Creek quadrangle, parts	TEM-744
Saratoga quadrangle, airborne radioactivity survey.	TEM-746
Savery quadrangle, airborne radioactivity survey.	TEM-745, 747
Coal	
Converse County.	TEM-195
Sweetwater County, Red Desert.	TEI-332, 389, TEM-601
Converse County, Mountain Home coal mine	TEM-195
Crook County, Bear Lodge Mountains	TEI-172
Devil's Tower area, airborne radioactivity survey.	TEM-605
Fremont County	
Gas Hills area	TEM-708
Tabernacle Buttes area, airborne radioactivity survey.	TEM-610
Geobotanical studies, Sweetwater County.	TEM-484
Goshen County, Rawhide Buttes area	TEM-293
Green River basin.	J-58
Hartville area, Paleozoic rocks.	OM-g
Johnson County	
Pumpkin Buttes	TEI-345, TEM-572
Airborne radioactivity survey.	TEM-508
Lignites	TEI-123, TEM-126
Lincoln County, coal	TEI-281, 308
Natrona County, Gas Hills area	TEM-708
Niobrara County, Lusk, Silver Cliff mine	TEI-158, J-121
Rawhide Buttes area.	TEM-293
Pegmatites	P-227
Phosphate, Phosphoria formation.	TEI- 94, 142, 184, TEI-246, 263, 271, TEI-363, 377, 378, TEM- 62, 194, J-64, OF-a, -b, -g, -m, -p

Wyoming (cont'd)

Powder River Basin, Pumpkin Buttes	TEM-341, 573, 676, TEM-677, C-176
Reconnaissance	TEI- 4, 20, 21, 72, TEI-232, TEM-290
Schroeckingerite, Sweetwater County.	TEI-302, 308, TEM-10, TEM- 10A, 183, 244, TEM-284, 288, 518 TEM-122, 240, 338
Shales	TEM-282
Split Rock area.	TEM-282
Sublette County, Tabernacle Buttes, airborne radioactivity survey.	TEM-610
Sweetwater County, Aspen Mountain area Airborne radioactivity survey.	TEM-609
Baggs quadrangle, airborne radioactivity survey.	TEM-743 TEM-484
Geobotanical studies	TEI-302, TEM-10, 10A, TEM-183, 244, 284, TEM-288, 518
Lost Creek, schroeckingerite	TEI-122, 332, 372, TEI-389, TEM-96, TEM-341, 601
Red Desert area.	TEM-147
Airborne radioactivity survey.	TEM-611
Uinta County, West Lonetree area, airborne radioactivity survey.	TEI-158
Uranophane, Niobrara County.	TEM-445
Wind River basin	

-X-Z-

Xenon, occurrence.	TEI- 11
Zeunerite, Alaska.	TEI-57D, 221
Zirconium.	TEM- 66
Zonal relations of uranium deposits.	TEM-521

PART IV. FINDING LIST OF AUTHORS

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

-A-

Aberdeen, E. J.	(and White, Sherwood, Bruce, Ferguson).	TEM-281
Adams, J. W.	.....	TEI-126
	(and Gude, Beroni).....	TEM-154
	(and King).....	TEM- 29
Albee, H. F.	(with Sample)	TEM-206, 207, 208,
		-266, 267, 268,
		-345, 346, 347,
		-348, 349, 456,
		-457, 462
	(with Sample, Stephens)	TEM-350, 351, 458,
		-463, 268-A
	(with Williams, Cadigan, Stewart)	TEI-313
Altschuler, Z. S.	.....	TEI-266
	.....	TEM- 89, 98, 238,
		-478
	(and Berman, Owens, Delevaux, Lundine).	TEM-604
	(and Boudreau).....	TEI-102
	(and Cisney).....	J-2
	(and Jaffe, Dwornik).....	TEM-237
	(with McKelvey, Cathcart, Swanson, R.W.,	
	Lutz).....	TEI-271
	(with Owens, Berman).....	TEI-316
Alvord, D. C.	.....	TEI-289
	.....	TEM-352, 628, 496,
		-497
Anderson, F. J.	.....	TEI- 72
	.....	TEM- 26

Anderson, J. W. (with Fletcher, May). TEI-133

Annell, C. S. (with Deul) J-20
 (with Waring) TEI-143, 215

Armstrong, F. C. TEI-177, J-3
 TEM-522
 (with McKelvey, Davidson, O'Malley,
 Smith, L. E., Sheldon) TEI-183
 (with McKelvey, Gulbrandsen,
 Campbell). TEI-187
 (with McKelvey, Smith, L. E.,
 Hoppin). TEI-184

Axelrod, J. M. (and Grimaldi, Milton, Murata). . . . J-4

-B-

Bachman, G. O. (and Baltz, O'Sullivan) TEI-198
 (and Read). TEM-309, 435, 443
 (with Denson, Zeller) TEM-175
 (with Read, Sample). TEM-510
 (with Vine, Read, Moore, G. W.) TEI-241

Baker, R. C. (with Klemic) TEM-503

Bales, W. E. (and Bell). TEI-297
 (and Bell, Wilmarth). J-5
 (and Erickson). TEM-166

Balsley, J. R. (with Stead, Moxham, Reinhardt) . . . TEM-508

Baltz, E. H., Jr. (with Bachman, O'Sullivan). TEI-198
 (with Zeller) TEI-338
 (with Zeller) TEM-556

Barge, E. M. TEM-574, 623, 680

Barnett, P. R. (with Myers). TEI-179

Bates, C. E. TEM-394, 397, 587,
 -592, 616, 652
 (and Eckstein). TEM-449
 (and Hosley). TEM-660

Bates, R. G. TEM-358
 (and Widow) TEM-339
 (with Houston, Velikanje, Widow). TEI-293
 (with Widow, Grantz, Houston,
 Killeen, Matzko, Nelson, Stejer,
 Velikanje, West) TEM-552

Bauer, H. L., Jr.. TEM-121, 139, 160
 (and Klinger) TEM-151
 (and Klinger, Page, L. R.). TEM-150
 (and Staatz). TEM-220
 (with Beroni) TEI-123
 (with Granger). TEI-157
 (with Granger). TEM- 32, 33, 117,
 -119, 134, 146
 (with Granger, Lovering, T. G.,
 Gillerman) TEI-156
 (with Staatz) TEM-165, 167, 226,
 -227, 228, J-90
 (with Staatz, Wilmarth) TEI-136

Baumgardner, L. H. (with Moxham, Walker) TEI-380

Becraft, G. E. TEI-257, 282, J-6
. TEM-603
(and Rosenblum) J-7

Bell, Henry, III.. . . . TEI-114, 164, 286
. TEM-113, 190, 191,
-200, 275, 294
(and Cramer). TEM-192, 257, 259
(and Icke). TEM-112
(with Bales). TEI-297
(with Bales, Wilmarth). J-5
(with Cater). TEM-700
(with Cater, Bush). TEM-695
(with Cater, Bush, Withington). TEM-699

Bell, K. G.. TEI- 87
. TEM-311, 486
(and Rogers). TEI- 84

Benson, P. D. (with West) TEI- 73, 189

Benson, W. E. (and others). TEI-205
(and Trites, Beroni, Feeger). TEM-325
(with Trites, Beroni) TEI-240

Bergendahl, M. H.. TEM-507

Berman, Joseph J- 8, 9
(with Larsen, Waring, C. L.). J-61

Berman, Robert TEI-273, 314
. TEM-475
(with Altschuler, Owens, Delevaux,
Lundine) TEM-604
(with Owens, Altschuler). TEI-316

Beroni, E. P. (and Bauer). TEI-123
 (and Granger, King). TEM- 25
 (and King). TEM-133
 (and McKeown). TEI-308
 (and McKeown, Stugard, Gott). TEM-213
 (and Whitebread). TEM-293
 (with Adams, Gude). TEM-154
 (with Benson, W. E., Trites,
 Feeger). TEM-325
 (with Granger). TEM- 7, 20
 (with Trites, Benson, W. E.) TEI-240
 (with Wilmarth, Vickers, McKeown). TEI-124
 (with Wyant). TEI- 61
 (with Wyant). TEM-126

Bivens, N. W. (with Dutro). TEM-681, 682

Black, R. A. TEI-342
 TEM-578

Black, R. B. (with Gault, Lyons). TEI- 25

Blackman, D. H. (See also Weir, D. B.). TEI-119
 TEM-101, 170
 (with Fischer, R. P.) TEI- 86, 96, (Pt. 1)

Blade, L. V. (with Cathcart, Davidson, Ketner). TEI--265
 (with Cathcart, Gray). TEM-477

Blatcher, V. K. (and Wallace). TEI-325
 (with Wallace). TEI-300
 (with Wallace, Smith, H. B.). TEI-400

Block, Stanley (with Evans). TEI-368, J-25

Bortner, T. E. (with Meuschke, Moxham) TEM-673, 678

Bostwick, D. A. (with Swanson, R. W., Klepper,
Lowell, Honkala, Cressman, Payne,
Ruppel). TEI-186

Botinelly, Theodore. TEM-94, 95, 474

Boudreau, C. E. (See also Jaffe, E. B.)
(with Altschuler) TEI-102

Bowers, Howard TEM-686

Bracken, J. T. (and Senftle) TEI-402

Brasher, G. K. TEI-163
. TEM-258, 295
(and Douglas) TEM-459
(and Jobin) TEM-186, 189, 202
(with Douglas) TEM-480

Breger, I. A. (and Deul) TEI-284
(and Deul, Meyrowitz, Rubinstein) TEI-389
(and Meyrowitz, Deul) TEI-388
(and Meyrowitz, Warr) TEI-372

Brew, D. A. TEI-290
. TEM-274, 490, 498

Brill, K. G., Jr. (and Carroll) TEI- 32
(and Nelson, J. M., Prouty) TEI- 8
(and Wolfe) TEI- 19
(with Nelson, J. M.) TEI- 22, 43

Brobst, D. A. TEM-148

 Brock, M. R. (with Singewald, Christman) TEM-218

 Brown, Andrew. TEI- 93
 TEM- 63, 333
 (with Conant, Hass) TEI- 62
 (with Robeck) TEI- 63

 Brown, C. N. (with Fischer, R. P., MacKallor). TEM-205

 Bruce, F. L. (with Aberdeen, White, Sherwood,
 Ferguson). TEM-281

 Bryner, Leonid TEI-147
 TEM-111
 (and Cramer). TEM-256, 260, 261
 (and Douglas) TEM-296
 (and Withington). TEM-204
 (with Bush) TEM-298
 (with Cater). TEM-694

 Burbank, W. S. (and Pierson) TEM-310
 (with Pierson, Singewald) J-81

 Bush, A. L. TEI-112
 TEM-180
 (and Bryner). TEM-298
 (and Hilpert, Trace). TEI-116
 (and Stager). TEI-288
 (with Butler, A. P.). TEM-241
 (with Cater, Bell). TEM-695
 (with Cater, Bell, Withington). TEM-699
 (with Withington) TEI-115

Butler, A. P., Jr. TEI-207
 TEM- 39, 41, 42, 76
 (and Bush). TEM-241
 (and Chesterman). TEI- 5, 12
 (and Killeen, Page, G. B., Rubey) . . . TEI- 35
 (and Stead) TEI- 36
 (with Fischer, R. P.) TEM- 38
 (with Hall, M. L.) TEI-242
 (with McKelvey, Page, L. R., Fischer,
 R. P.) TEI-150, J-67
 (with Narten, Crawford) TEM-240
 (with Rabbitt, Rubey, Lovering,
 T. S., McKelvey). TEI-206
 (with Stokes, Russell, Fischer, R.P.) OM-1

Butler, C. R. (with Moore, F. B). TEM-198

-C-

Cadigan, R. A. TEM-716
 (with Craig, Holmes, Freeman,
 Mullens, Weir) TEI-180
 (with Williams, Albee, Stewart) . . . TEI-313

Caldwell, D. W. (with Overstreet, Theobald, White,
 Cuppels, Whitlow). TEI-349

Cameron, E. N. (with Fleischer). TEI- 29, 31K
 (with Warner, L. A., Holser,
 Wilmarth). TEI-137, J-50

Campbell, R. H. (and Schafer) TEM-512

Campbell, R. M. (with McKelvey, Armstrong,
Gulbrandsen) TEI-187

Cannon, H. L. TEI-160
. TEM-163, 199, 272,
-273, 575, 579
(and Durrell) TEM-484
(and Stillman). TEM-482, 483
(with Starrett) TEM-711

Cannon, R. S. TEI-209, J-12
. TEM-225

Carr, W. J. TEM- 53, 60
(and Cathcart, Gray). TEM-243
(with Cathcart, Petersen, Gray) TEM-436

Carroll, G. V. (with Brill). TEI- 32

Carswell, L. D. (with Cheney, Sheldon, Cressman,
Smart) OF-b
(with Sheldon, Cressman, Smart) TEI-378

Carter, W. D. TEM-581, 715, 724

Cass, J. T. TEM-737

213

Chace, F. M. TEM-136
(with Thurston, R. H.). TEI- 81A

Champion, W. R. (with Senftle). TEI-401

Cheney, T. M. (and Peterson, Sheldon, Smart,
Waring, R. G., Warner, M. A.). . . . OF-a
(and Sheldon, Cressman, Smart,
Carswell). OF-b
(and Sheldon, Waring, R. G.,
Warner, M. A.). TEI-377
(and Smart, Waring, R. G., Warner,
M. A.). TEI-360
(with Smart, Waring, R. G., Sheldon). . . . TEI-376

Chesterman, C. W. (and Main). TEI- 24, 30
(with Butler, A. P.). TEI- 5, 12

Chew, R. T.. TEM-629
(with Trites). TEM-645

Choquette, P. W. (with McKeown, Klemic). TEI-382

Christ, C. L. (and Clark, Evans). J-16

Christman, R. A. (and Heyman, Dellwig, Gott). TEI-250
(with Singewald, Brock). TEM-218
(and others). TEI-354

Cisney, E. A. (with Altschuler). J-2
(with Larsen, Fletcher). J-59
(with Murata, Stieff, Zworykin). TEI-107
(with Weeks, Sherwood). TEI-335, J-117

Clabaugh, S. E. (with Gulbrandsen, McLaughlin,
Honkala, Krauskopf). TEI-260
(with Slaughter). TEI- 1, 3, 9

Clark, J. R. (with Christ, Evans). J-16

Claus, R. J. (with Witkind, Thaden, Johnson,
D. H., Lough). TEI-204
(with Witkind, McKay, Johnson, D. H.,
Finnell, Johnson, D. L.) TEM-318

Coats, R. R. TEM-343

Collier, J. T. (with Sheridan, Maxwell). TEI-302
(with Sheridan, Sears). TEM-288

Conant, L. C. TEI- 58, 237
. TEM-155, 280
(and Brown, A., Hass) TEI- 62
(and Rowe). TEM-649
(and Swanson, V. E.). TEI-224
(with Robeck) TEI- 64

Condon, W. H. TEM-546, 588, 593,
-618, 664, 732
(with Fischer, W. A.) TEM-469, 470, 499
(with Kent) TEM-653

Cook, K. L. (and Moss). TEI-244

Craig, L. C. (and Freeman) TEM-209
(and Holmes). J-18
(and Holmes, Cadigan, Freeman,
Mullens, Weir) TEI-180
(with Cater, Phoenix) TEI-110
(with Fischer, R. P., Hilpert,
Schumacher, Cater, Strobell,
Phoenix, Trace). TEM-276

Cramer, M. A. (with Bell, H.) TEM-192, 259
 (with Bryner) TEM-256, 260, 261
 (with Stephens) TEM-193

Crawford, J. E. (with Narten, Butler, A. P.) TEM-240

Cressman, E.R. TEI-258, J-19
 (and Wilson, W. H., Tandy, Garmoe). TEI-361
 (with Cheney, Sheldon, Smart, Carswell). OF-b
 (with Sheldon, Carswell, Smart) TEI-378
 (with Sheldon, Smart, Waring, R. G., Thompson, M. E., Weiser, Jones, R.J., Peirce). OF-m
 (with Swanson, Jones, Replogle) TEI-362
 (with Swanson, R. W., Klepper, Lowell, Honkala, Bostwick, Payne, Ruppel). TEI-186

Cuppels, N. P. (with Overstreet, Theobald, White Caldwell, Whitlow) TEI-349

Curtis, Diane (and Houser, S. S.) TEI-301

Cuttitta, Frank. TEI-152, 210, -223
 (and Kinser). TEI-326
 (with Frondel). TEI-309, 367

OFFICIAL USE ONLY

217

-D-

Davidson, D. F. TEM-246, 279, 337,
-362, 573, 676,
-677
(and Cathcart, Ketner). TEM-234
(and Smart, Peirce, Weiser) TEI-365
(and Wayland) TEM-123
(with Cathcart) TEI-212, J-14
(with Cathcart, Blade, Ketner). TEI-265
(with Cathcart, Dutro, Ketner,
Petersen, Tillman, Pratt). TEM-138
(with McKelvey, O'Malley, Smith, L.E.,
Armstrong, Sheldon). TEI-183
(with O'Malley, Hoppin, Sheldon). TEI-188

Davis, F. J. (with Stead). J-95
(with Stead, Moxham). J-96

Davis, W. E. TEM-232
(and Swartz, Shuler). TEI- 66
(with Fischer, R. P.) TEM-196

Delevaux, M. H. (with Altschuler, Berman, Owens,
Lundine) TEM-604

Dellwig, L. F. TEM-287
(and Gott). TEM-285
(with Christman, Heyman, Gott). TEI-250

Denson, N. M.. . . . TEM-195
(and Bachman, Zeller) TEM-175
(and others). TEM-341
(with Love, Henbest). OM

OFFICIAL USE ONLY

Deul, Maurice.	TEM-124
(and Annell).	J-20
(with Breger).	TEI-284
(with Breger, Meyrowitz).	TEI-388
(with Breger, Meyrowitz, Rubinstein).	TEI-389
Dings, M. G.	TEI-296
.	TEM-515, 516
(and Schafer).	TEI-255
Donnay, Gabrielle.	J-21
(and Donnay, J. D. H.).	J-22, 23
Donnay, J. D. H.	(with Donnay, G.) J-22, 23
Douglas, R. F.	TEM-495
(and Brasher).	TEM-480
(with Brasher).	TEM-459
(with Bryner).	TEM-296
Dow, V. T.	(with Gordon, Withington) TEI-213
	(with Gordon, Withington) TEM-298
Drake, A. A.	(with Sims, Moench) TEI-304
Duncan, D. C.	TEI-381
.	TEM-336, 338, 444
Durrell, M. E.	(with Cannon, H. L.). TEM-484
Dutro, H. B.	TEM-504, 630
(and Bivens).	TEM-681, 682
(with Cathcart, Davidson, Ketner,	
Petersen, Tillman, Pratt).	TEM-138
(with Cathcart, Tillman).	TEI-141

Dwornik, Edward (and Ross). TEM-471
(with Altschuler, Jaffe). TEM-237

-E-

Eckstein, W. H. TEM-411, 414, 541,
-731
(with Bates, C. E.) TEM-449

Eicher, L. L. TEM-487, 488
(and Myers, A. R.). TEM-727

Ekren, E. B. (with Stephens) TEM-297

Elston, D. P. (with Vogel). TEM-725

Emerick, W. L. TEM-485
 (and Gualtieri) TEM-625, 683, 684,
 -685, 689
 (with Gualtieri). TEM-687

Erickson, E.S., Jr. (with Stieff) TEI-307

Erickson, R. L.	(and Gott)	TEM-290
	(and Myers, Horr)	TEM-513
	(with Bales)	TEM-166
	(with Gott)	TEI-232

Evans, H. T., Jr. (and Block) TEI-368, J-25
 (and Mrose) J-27
 (with Christ, Clark). J-16

-F-

Fahey, J. J. (and Foster). TEI-16, 31D

Fairchild, J. G. (with Grimaldi) TEI-15, 31E

Farley, T. A. (with Senftle, Stieff). TEI-374

Faul, Henry. J-28
 (and Gott, Manger, Mytton,
 Sakakura). TEM-533
 (and Hunt). TEM-354
 (and Manger, Sakakura). TEM-239
 (and Sakakura). TEM-135
 (and Tittle). J-30
 (with Tittle). J-110
 (with Wilson, Rhoden, Vaughn) TEI-403

Feegar, J. A. (with Benson, W. E., Trites, Beroni). TEM-325

Ferguson, D. E. (with Aberdeen, White, Sherwood,
 Bruce) TEM-281

Fetzer, W. G. (and Waulters, Fischer, R. P.) TEI-89

Finch, W. I. TEI-154, 287, 328
 TEM-242, 269

Finnell, T. L. TEM-646
 (and Renzetti, Trites). TEM-479
 (with Trites). TEI-320
 (with Trites). TEM-540
 (with Witkind, McKay, Johnson, D. H.,
 Claus, Johnson, D. L.) TEM-318

Fischer, R. P. TEI- 80, 109, B-936-P,
 J-32, 33, 34, OM-b
 TEM- 48, 156, 203,
 -324
 (and Blackman). TEI- 86, 96 (Pt. 1)
 (and Butler, A. P.) TEM- 38
 (and Davis) TEM-196
 (and Haff, Rominger). J-35
 (and Hilpert, Schumacher, Cater,
 Strobell, Craig, Phoenix, Trace) TEM-276
 (and King). TEM- 7A
 (and MacKallor, Brown, C. W.) TEM-205
 (and Stokes, Smith, L. E.) OM-a
 (with Fetzner, Waulters) TEI- 89
 (with Hilpert). TEM- 77
 (with McKelvey, Page, L. R., Butler,
 A. P.) TEI-150, J-67
 (with Stokes, Russell, Butler, A.P.) OM-i

Fischer, W. A. TEM-384, 409, 413,
 -442
 (and Condon). TEM-469, 470, 499

Fix, P. F. TEM-476

Flanagan, F. J. (and Nelson, J. M., Warr) TEM-142
 (and Senftle) TEI-333

Flege, R. F., Jr. (with Vine) TEI-336

Fleischer, Michael TEI- 11, 128
 (and Cameron) TEI- 29, 31K
 (and Harder). TEI- 7, 10, 14,
 - 31H, 31I, 31J
 (and Rabbitt) TEI- 37, J-36
 (with Foster, Stevens, R. E.,
 Grimaldi, Schlecht). TEI- 31A
 (with Frondel). TEI-103

Fletcher, M. H. TEI-130, 130 Addendum
 (and May) TEI-120
 (and May, Anderson, J. W.) TEI-133
 (and May, Slavin) TEI-104
 (and Warner, E. R.) TEM-252
 (with Grimaldi, May) TEI-219
 (with Larsen, Cisney) J-59
 (with May) TEI- 91, 135

Foster, M. D. (and Grimaldi, Stevens, R. E.) TEI- 2
 (and Stevens, R. E.) TEI-31B
 (and Stevens, R. E., Grimaldi, Schlecht, Fleischer) TEI-31A
 (with Fahey) TEI-16, 31D

Freedman, Jacob. TEI-346

Freeman, V. L. (with Craig) TEM-209
 (with Craig, Holmes, Cadigan, Mullens, Weir) TEI-180
 (with Mullens) TEI-341

Frondel, Clifford. TEI-327

Frondel, J. W. J-38
 (and Cuttitta) TEI-309, 367
 (and Fleischer) TEI-103

Fuyat, R. K. (with Silverman, Weiser) TEI-118

-G-

Garmoe, W. J. (with Cressman, Wilson, Tandy). TEI-361

Garrels, R. M. J-40

Gates, G. L. (with Manger) TEM-509

Gault, H. R. TEI- 41
 (and Black, Lyons). TEI- 25

Gilbert, C. G. (with Strobell, Sample, Stephens,
 H. G.) TEM-632

Gill, J. R. (with Hail) TEI-272
 (with Hail) TEM-446

Gillerman, Elliot. TEM-675, J-41, 42
 (and Whitebread). TEI-261
 (with Granger). TEM-120
 (with Granger, Bauer, Lovering, T.G.). TEI-156

Girhard, M. N. (with Stieff, Stern). TEI-106, 108

Glass, J. J. (with Hewett) J-47

Gordon, E. D. (and Withington, Dow) TEI-213
 (and Withington, Dow) TEM-298

Gosman, R. F. (with Peterson, Swanson, R. W.) TEI-375

Gott, G. B. TEI- 52, 82
. TEM- 1, 1A, 27,
- 28, 132, 222
(and Erickson). TEI-232
(and Erickson). TEM-290
(and Hill). TEI-121
(and Smith, J. F., McKelvey). TEM-249
(with Beroni, McKeown, Stugard) TEM-213
(with Christman, Heyman, Dellwig) TEI-250
(with Dellwig). TEM-285
(with Faul, Manger, Mytton, Sakakura) TEM-533
(with Kaiser, King, Wilmarth,
Stugard, Wyant). TEI-168

Gottfried, David (with Neuerburg). TEM-709

Gower, H. D. (with Masursky, Pipiringos) TEI-332

Granger, H. C. TEI-227
. TEM-118, 219, 304
(and Bauer) TEI-157
(and Bauer) TEM- 32, 33, 117,
-119, 134, 146
(and Bauer, Lovering, T. G.,
Gillerman) TEI-156
(and Beroni). TEM- 7, 20
(and Gillerman) TEM-120
(and King). TEM-128, 128A
(with Beroni, King) TEM- 25
(with King) TEM- 24
(with Waters) TEI-170

Grantz, A. (with Wedow, Bates, Houston, Killeen,
Matzo, Nelson, Stejer, West,
Velikanje) TEM-552

Gray, C. H., Jr. (with Carr, Cathcart) TEM-243
(with Cathcart, Blade). TEM-477
(with Cathcart, Carr, Petersen) TEM-436

Griffitts, W. R. TEI-249

Grimaldi, F. S. TEI- 23, 31C, 31F,
-178, OF-c
(and Fairchild) TEI- 15, 31E
(and Gutttag) TEI-134
(and Levine) TEI- 47, 60
(and Marsh) TEI- 44
(and May, Fletcher) TEI-219
(and Ward, Kreher) TEI- 98
(with Axelrod, Milton, Murata) J-4
(with Foster, Stevens, R. E.) TEI- 2
(with Foster, Stevens, R.E.,
Schlecht, Fleischer) TEI- 31A
(with Gutttag) TEI-153, 153A
(with Levine) TEI-105
(with Levine, Rowe) TEI-379
(with Pietsch) TEI-181
(with Randolph) TEI- 99

Gualtieri, J. L. TEM-493
(and Emerick) TEM-687
(with Emerick) TEM-625, 683, 684,
-685, 689

Gude, A. J., 3rd (and McKeown) TEM-292
(with Adams, Beroni) TEM-154
(with McKeown) TEM-308
(with Roberts) TEM-140, 229

Guinan, W. A. TEM- 71, 86

Gulbrandsen, R. A. (and McLaughlin, Honkala, Clabaugh,
Krauskopf) TEI-260
(with McKelvey, Armstrong, Campbell) . TEI-187

Gutttag, N. W. (and Grimaldi) TEI-153, 153A
(with Grimaldi) TEI-134

-H-

Hackman, R. J. TEM-364, 365, 366,
-367, 368, 369,
-370, 376, 377,
-385, 386, 387,
-388, 389, 390,
-391, 392, 393,
-395, 396, 399,
-400, 403, 405,
-406, 407, 408,
-410, 412, 433,
-438, 447, 448,
-450, 451, 452,
-453, 465, 466,
-467, 526, 527,
-531, 548, 585,
-590, 596, 613,
-614, 621, 636,
-637, 641, 668

 (and Tolbert) TEM-380A, 640
 (with Tolbert) TEM-379A

Haff, J. C. (with Fischer, R. P., Rominger) . . . J-35

Hail, W. J., Jr. (and Gill) TEI-272
 (and Gill) TEM-446
 (with Mapel) TEI-339
 (with Mapel) TEM-432

Haines, D. V. (with Raup) TEM-679

Hall, M. L. (and Butler, A. P.) TEI-242

Hall, R. B. (and Moore, F. B.) TEM-108

Hanley, E. S. TEM- 6

OFFICIAL USE ONLY

227

Hanley, J. B. J-44
(and Heinrich, Page, L. R.) P-227

Harder, J. O. (and Reed) TEI- 6
(and Stead) TEI- 21
(and Wyant) TEI- 4
(with Fleischer) TEI- 7, 10, 14,
-31H, 31I, 31J

Harrison, H. C. (with Larsen, Keevil) J-60

Harrison, J. E. TEM-291, J-46
(and Leonard) TEM-153
(and Wells) TEI-295
(with Sims, Moore, F. B.) TEM-520
(with Wells) TEI-305

Hass, W. H. (with Conant, Brown, A.) TEI- 62

Hawkes, H. E. TEI- 96 (Pt. 3)

Heinrich, E. Wm. (with Hanley, J. B., Page, L. R.) . . P-227

Hemphill, W. R. TEM-530, 543, 550,
-589, 599, 612,
-650, 654, 657

Henbest, L. G. (with Love, Denson) OM-g

Henderson, J. R. TEM-743, 744, 745,
-746, 747
(and Moxham) TEM-605

Honkala, F. S. TEI-323
 (with Gulbrandsen, McLaughlin,
 Clabaugh, Krauskopf) TEI-260
 (with Swanson, R. W., Klepper, Lowell,
 Cressman, Bostwick, Payne, Ruppel) TEI-186

Hoppin, R. A. (with McKelvey, Smith, L. E.,
Armstrong). TEI-184
(with O'Malley, Davidson, Sheldon) . . . TEI-188

Horr, C. A. (with Erickson, R. L., Myers). TEM-513

Hosford, G. F. (with McKelvey, Smith, L. E.,
Kinney, Huddle, Sears, Sprouse,
Stewart, M. D.) TEI-185

Hosley, V. M. TEM-525, 544, 547,
-584, 598, 638,
-639, 656
(with Bates, C. E.). TEM-660

Houser, F. N. (with Cathcart). J-15
(with Overstreet, McKelvey). TEM-21

Houser, S. S. (with Curtis). TEI-301

Houston, J. R. TEM-321, 356
(and Velikanje, Bates, Wedow). TEI-293
(with Wedow, Bates, Grantz, Killeen,
Matzko, Nelson, Stejer, Velikanje,
West) TEM-552

Hubbard, H. A. (with Mullens, T. E.). TEM-537

Huddle, J. W. (and McCann) OM-c
(and Mapel, McCann). OM-d
(with McKelvey, Smith, L. E.,
Kinney, Hosford, Sears, Sprouse,
Stewart, M. D.) TEI-185

Huff, L. C. TEM-643
 (with Smith, J. F., Hinrichs, Luedke) . TEM-538

Huleatt, W. P. TEI-217

Hunt, C. B. (and others) OM-c
 (with Faul) TEM-354

-I-

Icke, H. M. (with Bell, H.) TEM-112

-J-

Jackson, W. H. TEM-627, 710

Jaffe, E. B. (See Boudreau) TEI-132
 (and Sherwood) TEM-149
 (with Altschuler, Dwornik) TEM-237

James, H. L. TEM-159

Jobin, D. A. TEI-214
 TEM-262, 263, 264,
 -265, 461
 (and Schessler) TEM-481
 (with Brasher). TEM-186, 189, 202
 (with McKay). TEM-705

Joesting, H. R. TEM-100

Johnson, D. H. TEI- 69
 TEM-125
 (with Wilmarth) TEI-158, 172
 (with Witkind, Thaden, Claus, Lough). TEI-204
 (with Witkind, McKay, Finnell, Claus,
 Johnson, D. L.). TEM-318

Johnson, D. L. (with Witkind, McKay, Johnson, D. H.,
 Finnell, Claus). TEM-318

Johnson, H. S., Jr. TEI-352

Johnson, R. W. TEM-748
 (and Moxham). TEM-607
 (with Moxham) TEM-644

Jones, R. J. (with Sheldon, Cressman, Smart, Waring,
 R. G., Thompson, M. E., Weiser, J. D.,
 Peirce). OF-m

Jones, R. S. (with Swanson, R. W., Cressman,
 Replogle). TEI-362

-K-

Kaiser, E. P. TEM-145, 210, 216,
-217
(and King, Wilmarth, Stugard, Wyant,
Gott). TEI-168
(with Wyant, Stugard) TEI-169

Kazakov, A. V. TEI-385
(and Sokolova). TEI-386

Keevil, N. B. (with Larsen, Harrison, H. C.). J-60

Keiser, H. D. TEM- 66

Kellagher, Richard TEI-371

Keller, G. V. TEM-608

Kennedy, G. C. OF-d

Kent, K. B. TEM-651, 658
(and Condon). TEM-653

Ketner, K. B. TEM-168, 233, 315,
-506
(with Cathcart, Blade, Davidson). TEI-265
(with Cathcart, Davidson, Dutro,
Petersen, Tillman, Pratt). TEM-138
(with Davidson, Cathcart) TEM-234

Killeen, P. L. (and Ordway). TEI- 27
 (and White, M. G.). TEI- 42
 (with Butler, A. P., Page, G. B.,
 Rubey) TEI- 35
 (with Wedow, Bates, Grantz, Houston,
 Matzko, Nelson, West, Stejer,
 Velikanje) TEM-552
 (with White, M. G.) TEI- 45 (Pt. 1),
 - 46

King, R. U. TEI- 59
 TEM- 3, 4, 5, 13,
 -22, 102
 (and Granger) TEM- 24
 (and Leonard, Moore, F. B., Pierson). TEM-173
 (and Roberts) TEM- 11, 12
 (with Adams). TEM- 29
 (with Beroni) TEM-133
 (with Beroni, Granger). TEM- 25
 (with Fischer, R. P.) TEM- 7A
 (with Granger). TEM-128, 128A
 (with Kaiser, Wilmarth, Stugard,
 Wyant, Gott) TEI-168
 (with Moore, F. B., Hinrichs) TEM-215

Kinney, D. M. TEM- 67, OM-f
 (with McKelvey, Smith, L. E., Huddle,
 Hosford, Sears, Sprouse,
 Stewart, M. D.). TEI-185

Kinser, C. A. TEI-370
 (with Cuttitta) TEI-326

Klemic, Harry (and Baker) TEM-503
 (with McKeown). TEI-317, 383
 (with McKeown). TEM-551
 (with McKeown, Choquette) TEI-382

Kleinhampl, F. J. (with Pierson, Weeks, W. F.). TEI-306

Klepper, M. R. TEM- 31, 127
(with Swanson, R. W., Lowell, Honkala,
Cressman, Bostwick, Payne, Ruppel) . . . TEI-186

Klinger, F. L. (with Bauer). TEM-151
(with Bauer, Page, L. R.) TEM-150
(with Stugard). TEM-164

Koczy, Gerta TEM-305

Koschmann, A. H. J-56

Kostyleva, E. E. TEI-369

Krauskopf, K. B. J-57
(with Gulbrandsen, McLaughlin,
Honkala, Clabaugh) TEI-260

Kreher, Ruth (with Grimaldi, Ward) TEI- 98

Krummel, W. J. (and Lewis) TEM-714

Kummel, Bernard. J-58

Kupfer, D. H.. TEI-294

-L-

Lang, A. J., Jr. (and Redden). TEI-155

Larsen, E. S., Jr. (and Fletcher, Cisney). J-59
 (and Keevil, Harrison, H. C.) J-60
 (and Waring, C. L., Berman, J.) J-61
 (with Meyrowitz). J-70

Laurence, R. A. TEM- 18

Leonard, B. F. TEM-521, J-62
 (with Harrison) TEM-153
 (with King, Moore, F. B., Pierson). TEI-173

Levine, Harry (and Grimaldi). TEI-105
 (and Rowe, Grimaldi). TEI-379
 (with Grimaldi) TEI- 47, 60
 (with Phair). TEI-262

Lewis, R. Q. TEM-712
 (and Reitan). TEM-713
 (with Krummel). TEM-714
 (with Trimble). TEI-321
 (with Trimble). TEM-535

Lough, C. F. (with Witkind, Thaden). TEM-492, 536, 577
 (with Witkind, Thaden, Johnson, Claus). TEI-204

Love, J. D. TEI-315, C-176
 TEM-122, 283, 708
 (and Henbest, Denson) OM-g

OFFICIAL USE ONLY

-Mc-

McCann, F. T.	(with Huddle)	OM-c
	(with Huddle, Mapel).	OM-d
McGinley, F. E.	(with Cathcart)	TEM-464, 505
MacKallor, J. A.	(with Fischer, R. P., Brown, C. N.) . .	TEM-205
McKay, E. J. . . . .	. . . . .	TEI-283
	. . . . .	TEM-271, 691
	(and Jobin)	TEM-705
	(with Troyer, Soister).	TEM-572
	(with Troyer, Soister, Wallace, S. R.).	TEI-345
	(with Witkind, Johnson, D. H.,	
	Finnell, Claus, Johnson, D. L.). . . .	TEM-318
McKee, E. D.	(and Weir).	TEI-269
McKelvey, V. E. . . . .	. . . . .	TEI- 77, 131, 199,
	. . . . .	-208, OF-g, J-64
	. . . . .	TEM-194
	(and Armstrong, Gulbrandsen, Campbell).	TEI-187
	(and Cathcart).	TEI- 94
	(and Cathcart, Altschuler, Swanson,	
	R. W., Lutz)	TEI-271
	(and Cathcart, Worthing).	TEM-236
	(and Davidson, O'Malley, Smith, L. E.,	
	Armstrong, Sheldon).	TEI-183
	(and Nelson, J. M.)	J-66
	(and Page, L. R., Fischer, R. P.,	
	Butler, A. P.)	TEI-150, J-67
	(and Smith, L. E., Hoppin, Armstrong)	TEI-184
	(and Smith, L. E., Kinney, Huddle,	
	Hosford, Sears, Sprouse,	
	Stewart, M. D.)	TEI-185
	(and Swanson, R. W.).	TEI-111
	(and Swanson, R. W., Sheldon)	TEI-263
	(with Gott, Smith, J. F.)	TEM-249
	(with Overstreet, Houser)	TEM- 21
	(with Rabbitt, Rubey, Butler, A. P.,	
	Lovering, T. S.)	TEI-206
	(with Swanson, R. W., Sheldon). . . .	TEI-246

McKeown, F. A. TEI- 67
 TEM- 19
 (and Gude). TEM-308
 (and Klemic). TEI-317, 383
 (and Klemic). TEM-551
 (and Klemic, Choquette). TEI-382
 (with Beroni). TEI-308
 (with Beroni, Stugard, Gott). TEM-213
 (with Gude). TEM-292
 (with Narten). TEI- 70
 (with Wilmarth, Vickers, Beroni). TEI-124

McLaughlin, K. P. (with Gulbrandsen, Honkala, Clabaugh,
 Krauskopf) TEI-260

McNeal, R. P. TEM-107, 129, 141

-M-

Mackin, J. H. TEM-473
 (and Schmidt) TEM-602

Madsen, J. W. TEM-576, 631

Main, F. H. (with Chesterman) TEI-24, 30

Manger, G. E. (and Gates) TEM-509
 (with Faul, Gott, Mytton, Sakakura) TEM-533
 (with Faul, Sakakura) TEM-239

Mapel, W. J. (and Hail). TEI-339
 (and Hail). TEM-432
 (with Huddle, McCann) OM-d

OFFICIAL USE ONLY

239

Marsh, C. A. (with Grimaldi) TEI-44

Masursky, Harold (and Pipiringos). TEM-601
(and Pipiringos, Gower) TEI-332

Matzko, J. J. TEI- 45C
(with Nelson, West) TEI-292
(with Wedow). TEI- 38
(with Wedow, Bates, Grantz, Houston,
Killeen, Nelson, Stejer, West,
Velikanje) TEM-552
(with West) TEM- 45 (Pt. 2),
-49

Maxwell, C. H. (with Sheridan, Collier). TEI-302

May, Irving (and Fletcher). TEI- 91, 135
(with Fletcher) TEI-120
(with Fletcher, Anderson, J. W.). TEI-133
(with Fletcher, Slavin) TEI-104
(with Grimaldi, Fletcher) TEI-219

Mela, Henry, Jr. (with Waring) TEI-239

Mertie, J. B., Jr. TEM-23, 248

Meschter, D. Y. TEI-256

Meuschke, J. L. TEM-344, 359
(and Moxham). TEM-606, 609, 610,
-611
(and Moxham, Bortner) TEM-673, 678

Meyrowitz, Robert. TEM-335, J-69
 (and Larsen). J-70
 (with Breger, Deul) TEI-388
 (with Breger, Deul, Rubinstein) TEI-389
 (with Breger, Warr) TEI-372

Milkey, R. G. TEI-236, 245, 373
 (with Stieff, Stern). TEI-268, J-102

Millgate, M. L. TEM-626

Milton, Charles (with Axelrod, Grimaldi, Murata). J-4

Mobley, C. M. TEM-460, 723

Moench, R. H. (with Sims, Drake). TEI-304

Moore, F. B. (and Butler, C. R.) TEM-198
 (and Cavender). TEI-228, J-72
 (and Hall, R. B.) TEM-108
 (and King, Hinrichs). TEM-215
 (with King, Leonard, Pierson) TEI-173
 (with Sims, Harrison) TEM-520

Moore, G. W. TEI-235
 (and Stephens, J. G.) TEI-337
 (with Vine) TEI-281
 (with Vine) TEM-340
 (with Vine, Bachman, Read). TEI-241

Moss, C. K. (with Cook) TEI-244

OFFICIAL USE ONLY

241

Moxham, R. M.	TEI- 48, 54, -57D, 387
	TEM-326, 360
(and Johnson, R. W.)	TEM-644
(and Nelson, A.E.)	TEI- 74A, 190, 191
(and Walker, Baumgardner)	TEI-380
(and Wedow, White, M. G.)	TEM-235
(and West)	TEI- 39
(and West)	TEM-330
(with Henderson)	TEM-605
(with Johnson, R. W.)	TEM-607
(with Meuschke)	TEM-606, 609, -610, 611
(with Meuschke, Bortner)	TEM-673, 678
(with Stead, Balsley, Reinhardt)	TEM-508
(with Stead, Davis, F. J.)	J-96

Mrose, M. E. (with Evans). J-27

Mullens, T. E. (and Freeman) TEI-341
(and Hubbard) TEM-537
(with Craig, Holmes, Cadigan, Freeman,
Weir). TEI-180

Murata, K. J. (and Cisney, Stieff, Zworykin). TEI-107
(with Axelrod, Grimaldi, Milton). J-4

Myers, A. R. (with Eicher) TEM-727

Myers, A. T. (and Barnett) TEI-179
(with Erickson, Horr) TEM-513

Myers, W. B. TEI-259

Mytton, J. W. (with Faul, Gott, Manger, Sakakura) . . . TEM-533

OFFICIAL USE ONLY

OFFICIAL USE ONLY

242

-N-

Narten, P. F. TEM-670
 (and Crawford, Butler, A. P.) TEM-240
 (and McKeown) TEI- 70
 (and Starrett). TEM-580
 (with Nelson, J. M.). TEI- 68

Nelson, A. E. (and Tolbert) TEM-320
 (and West, Matzko). TEI-292
 (with Moxham) TEI- 74A, 190, 191
 (with Tolbert). TEM-319
 (with Wedow, Bates, Grantz, Houston,
 Killeen, Matzko, Stejer, Velikanje,
 West). TEM-552
 (with White, M. G.) TEM-329

Nelson, J. M. TEI- 65
 (and Brill) TEI- 22, 43
 (and Narten). TEI- 68
 (and Stratton). TEI- 34
 (with Brill, Prouty). TEI- 8
 (with Flanagan, Warr) TEM-142
 (with McKelvey) J-66
 (with Slaughter). TEI-20

Nelson, R. A. TEM-361
 (and Sharp, Stead). TEM-147

Neuerburg, G. J. (and Gottfried) TEM-709

Newman, W. L. TEM-187
 (with Shoemaker). J-87
 (with Stephens) TEM-201

Nolan, T. B. TEM-40, 51, 55,
 -58, 61, 62,
 -81

Norton, J. J. TEI-149
 (with Staatz, Page, Stephens,
 Wilmarth). TEI-225

-0-

Okerlund, M. D. TEM-582

Olson, J. C. OF-h, OF-i, OF-j,
 J-75
 (and Sharp) J-76
 (and Wallace, S. R.) TEI-353
 (with Sharp). OF-k

O'Malley, F. W. (and Davidson, Hoppin, Sheldon) TEI-188
 (with McKelvey, Davidson, Smith, L. E.,
 Armstrong, Sheldon). TEI-183

Onoda, Kiyoko (with Phair)(See also Shimamoto) TEI-144
 (with Phair). TEM-173

Ordway, R. J. (with Killeen). TEI- 27

Orkild, P. P. TEM-528, 532, 542,
 -545, 591, 594,
 -600, 617, 642,
 -655, 659, 665

Osterwald, F. W. TEM-534
 (with Sims, Tooker) TEI-125
 (with Staatz) TEI-252

OFFICIAL USE ONLY

244

O'Sullivan, R. B. (with Bachman, Baltz) TEI-198

Overstreet, W. C. TEM-502, 539
(and McKelvey, Houser, F. N.) TEM- 21
(and Theobald) TEM-283
(and Theobald, White, A. M., Cuppels,
Caldwell, Whitlow) TEI-349

Owens, J. P. (and Berman, Altschuler) TEI-316
(with Altschuler, Berman, Delevaux,
Lundine) TEM-604

-P-

Page, G. B. (with Butler, A. P., Killeen, Rubey) . . TEI- 35

Page, L. R. TEI- 88, 90; J-78
 TEM-183, 254
(and Redden) TEM-152
(and others) TEI-355
(with Bauer, Kilinger) TEM-150
(with Hanley, Heinrich, E. Wm.) P-227
(with McKelvey, Fischer, R. P.,
Butler, A. P.) TEI-150; J-67
(with Staatz, Norton, Stephens,
Wilmarth) TEI-225

Payne, O. A. (with Swanson, R. W., Klepper, Lowell,
Honkala, Cressman, Bostwick, Ruppel) . TEI-186

OFFICIAL USE ONLY

Peirce, H. W. (with Davidson, Smart, Weiser). TEI-365
 (with Sheldon, Cressman, Smart,
 Waring, R. G., Thompson, M. E.,
 Weiser, Jones, R. J.) OF-m
 (with Sheldon, Warner, M. A.,
 Thompson, M. E.) TEI-364
 (with Swanson, R. W., Waring, R. G.,
 Warner, M. A., Smart) OF-p

Petersen, R. G. TEI-264
 TEM-231
 (with Cathcart, Carr, Gray) TEM-436
 (with Cathcart, Davidson, Dutro,
 Ketner, Tillman, Pratt) TEM-138

Peterson, J. A. (and Gosman, Swanson, R. W.) TEI-375
 (with Cheney, Sheldon, Smart,
 Waring, R. G., Warner, M. A.) OF-a

Phair, George. TEI-247
 (and Levine). TEI-262
 (and Onoda) TEI-144
 (and Onoda) TEM-173
 (with Sims) TEI-311

Phoenix, D. A. TEI-161
 TEM- 99, 109, 137,
 -270
 (with Cater, Craig) TEI-110
 (with Fischer, R. P., Hilpert,
 Schumacher, Cater, Strobell,
 Craig, Trace) TEM-276
 (with Stokes) OM-j

Pierson, C. T. (and Burbank, Singewald). J-81
 (and Singewald) TEI-234, 248
 (and Weeks, W. F., Kleinhampl). TEI-306
 (with Burbank). TEM-310
 (with King, Leonard, Moore, F. B.) TEI-173
 (with Singewald, Wilmarth, Vickers) TEM-224

Pietsch, Audrey (and Grimaldi). TEI-181

Pipiringos, G. N. (with Masursky) TEM-601
(with Masursky, Gower). TEI-332

Portnov, A. I. TEI-324

Pratt, J. B. (with Cathcart, Davidson, Dutro,
Ketner, Petersen, Tillman) TEM-138

Pray, L. C. (with Sharp). OM-h

Prouty, C. E. (with Brill, Nelson, J. M.) TEI- 8

-R-

Rabbitt, J. C. TEI-101, 148, 151,
-167, 182, 218
. TEM- 46, 50, 174,
-250

(and Rubey, Butler, A. P., Lovering,
T. S., McKelvey) TEI-206
(with Fleischer). TEI- 37, J-36

Randolph, R. B. (and Grimaldi). TEI- 99

Raup, R. B., Jr. TEM-511
(and Haines). TEM-679

Ray, R. G. TEM-371, 383, 401,
-402, 404, 439,
-440, 441, 468,
-500, 501, 523,
-524

Read, C. B. TEM-278
(and Sample, Bachman) TEM-510
(with Bachman). TEM-309, 435, 443
(with Vine, Bachman, Moore, G. W.). TEI-241

Redden, J. A. (with Lang) TEI-155
(with Page, L. R.). TEM-152

Reed, J. C. (with Harder) TEI- 6

Reinhardt, P. W. (with Stead, Balsley, Moxham) TEM-508

Reitan, P. H. (with Lewis). TEM-713

Renzetti, B. L. (with Finnell, Trites). TEM-479

Replogle, B. K. (with Swanson, R. W., Cressman,
Jones) TEI-362

Rhoden, V. C. (with Wilson, Vaughn, Faul) TEI-403

Riley, L. B. (and Shoemaker) TEI-278

Roach, C. H. TEM-688, 717, 718,
-719

Robeck, R. C. (and Brown, A.) TEI- 63
 (and Conant). TEI- 64

Roberts, W. A. (and Gude). TEM-140, 229
 (with King) TEM- 11, 12

Robinson, G. D. (and Wedow, Lyons). TEI- 26

Rodríguez,
 Carlos Ponte (with Wyant, Sharp) TEI-222

Rogers, A. S. TEM-171
 (with Bell, K. G.). TEI- 84

Rominger, J. F. (with Fischer, R. P., Haff) J-35

Rosenblum, S. (with Becraft). J-7

Rosholt, J. N., Jr. TEI-318

Ross, Malcolm (with Dwornik). TEM-471

Rove, O. N. TEI- 33, J-81

Rowe, J. J. TEM-316
 (with Conant) TEM-649
 (with Levine, Grimaldi) TEI-379

Rubey, W. W. (with Butler, A. P., Killeen,
Page, G. B.) TEI- 35
(with Rabbitt, Butler, A. P.,
Lovering, T.S., McKelvey). TEI-206

Rubinstein, S. (with Breger, Deul, Meyrowitz). TEI-389

Ruppel, E. T. (with Swanson, R. W., Klepper,
Lowell, Honkala, Cressman,
Bostwick, Payne) TEI-186

Russell, R. T. (with Stokes, Fischer, R. P.,
Butler, A. P.) OM-i

-S-

Sakakura, A. Y. TEI-329
. TEM-306
(with Faul) TEM-135
(with Faul, Gott, Manger, Mytton) TEM-533
(with Faul, Manger) TEM-239

Sample, R. D. (and Albee) TEM-206, 207, 208,
-266, 267, 268,
-345, 346, 347,
-348, 349, 456,
-457, 462
(and Albee, Stephens) TEM-268A, 350, 351,
-458, 463
(with Bachman, Read). TEM-510
(with Sears, J. D.) TEM-671
(with Strobell, Stephens, H. G.,
Gilbert) TEM-632

Schafer, Max (with Campbell) TEM-512
 (with Dings). TEI-255

Schaller, W. T. TEM- 72

Schessler, T. E. (with Jobin). TEM-481

Schlecht, W. G. TEI- 28, 31G
 (with Foster, Stevens, R. E.,
 Grimaldi, Fleischer) TEI- 31A

Schmidt, D. L. (with Mackin) TEM-602

Schnabel, R. W. (and Vickers) TEM-434

Schumacher, J. I. (with Fischer, R. P., Hilpert, Cater,
 Strobell, Craig, Phoenix, Trace) . . TEM-276

Scott, J. B. TEM-454
 (with Withington) TEM-455

Scott, J. M. TEM-529, 549, 586,
 -595, 597, 615,
 -619, 620, 633,
 -634, 635, 661,
 -662, 663, 667,
 -669

Sears, J. D. (and Sample). TEM-671

Sears, R. S.	(with McKelvey, Smith, L. E., Kinney, Huddle, Hosford, Sprouse, Stewart, M. D.)	TEI-185
	(with Sheridan, Collier).	TEM-288
Senftle, F. E.		J-83
	(and Champion).	TEI-401
	(and Farley, Stieff).	TEI-374
	(with Bracken).	TEI-402
	(with Flanagan).	TEI-333
Sharp, W. N.		TEM= 35
	(and Cavender).	TEI-351, J-84
	(and Cavender).	TEM-286, 560
	(and Olson).	OF-k
	(and Pray).	OM-h
	(with Nelson, Stead).	TEM-147
	(with Olson).	J-76
	(with Wyant, Rodríguez).	TEI-222
	(with Wyant, Sheridan).	TEI-122
Shawe, D. R.		TEI-251
Sheldon, R. P.	(and Cressman, Carswell, Smart) . . .	TEI-378
	(and Cressman, Smart, Waring, R. G., Thompson, M. E., Weiser, Jones, R. J., Peirce)	OF-m
	(and Waring, R. G., Warner, M. A., Smart)	TEI-363
	(and Warner, M. A., Thompson, M. E., Peirce).	TEI-364
	(with Cheney, Cressman, Smart, Carswell).	OF-b
	(with Cheney, Peterson, Smart, Waring, R. G., Warner, M. A.). . . .	OF-a
	(with Cheney, Waring, R. G., Warner, M. A.)	TEI-377
	(with McKelvey, Davidson, O'Malley, Smith, L. E., Armstrong)	TEI-183
	(with McKelvey, Swanson, R. W.) . . .	TEI-263
	(with O'Malley, Davidson, Hoppin) . .	TEI-188
	(with Smart, Waring, R. G., Cheney) .	TEI-376
	(with Swanson, R. W., McKelvey) . . .	TEI-246

Sheridan, D. M. TEI-231
. TEM-284, 518
(and others). TEI-226
(and Collier, Maxwell). TEI-302
(and Collier, Sears). TEM-288
(with Wyant). TEM-244
(with Wyant, Sharp). TEI-122

Sherwood, A. M. (with Aberdeen, White, Bruce,
Ferguson). TEM-281
(with Jaffe). TEM-149
(with Weeks, Cisney). TEI-335, J-117
(with Weeks, Thompson). TEI-393

Shimamoto, K. O. (See also Onoda, Kiyoko). J-80

Shoemaker, E. M. TEM-115, 583, 701
. OF-n, J-85, J-86
(and Luedke). TEI-279
(and Newman). J-87
(with Luedke). TEM-301
(with Riley). TEI-278

Shuler, R. M. (with Davis, Swartz). TEI- 66

Silverman, S. R. (and Fuyat, Weiser). TEI-118

Sims, P. K. (and Drake, Moench). TEI-304
(and Harrison, J. E., Moore, F. B.). TEM-520
(and Osterwald, Tooker). TEI-125
(and Phair). TEI-311

Singewald, Q. D. TEI-392
. TEM-218
. TEM-224
. TEI-234, 248
. J-81

Slaughter, A. L. TEI- 17, 18
 (and Clabaugh). TEI- 1, 3, 9
 (and Nelson, J. M.) TEI- 20

Slavin, Morris (with Fletcher, May). TEI-104

Smart, R. A. (and Waring, R. G., Cheney, Sheldon). TEI-376
 (with Cheney, Peterson, Sheldon,
 Waring, R. G., Warner, M. A.). . . . OF-a
 (with Cheney, Sheldon, Cressman,
 Carswell). OF-b
 (with Cheney, Waring, R. G., Warner,
 M. A.) TEI-360
 (with Davidson, Peirce, Weiser) TEI-365
 (with Sheldon, Cressman, Carswell). . . TEI-378
 (with Sheldon, Cressman, Waring,
 R. G., Thompson, M. E., Weiser,
 Jones, R. J., Peirce). OF-m
 (with Sheldon, Waring, R. G.,
 Warner, M. A.) TEI-363
 (with Swanson, R. W., Waring, R. G.,
 Peirce, Warner, M. A.) OF-p

Smith, H. B. . . . (with Wallace, Blatcher). TEI-400

Smith, J. F., Jr.. TEM-247
 (and Hinrichs, Huff, Luedke). TEM-538
 (and Hinrichs, Luedke). TEI-203
 (and others). TEI-319
 (with Gott, McKelvey) TEM-249

Smith, L. E. (with Fischer, R. P., Stokes) OM-a
 (with McKelvey, Davidson, O'Malley,
 Armstrong, Sheldon). TEI-183
 (with McKelvey, Hoppin, Armstrong). . . TEI-184
 (with McKelvey, Kinney, Huddle,
 Hosford, Sears, Sprouse,
 Stewart, M. D.). TEI-185
 (with Wilmarth) TEI-277

Soister, P. E. (with Troyer, McKay). TEM-572
(with Troyer, McKay, Wallace, S. R.). TEI-345

Sokolova, E. I. (with Kazakov). TEI-386

Sprouse, D. P. (with McKelvey, Smith, L. E.,
Kinney, Huddle, Hosford, Sears,
Stewart, M. D.). TEI-185

Staatz, M. H. TEM-162, 223
(and Bauer) TEM-165, 167, 226,
-227, 228, J-90
(and Norton, Page, L. R., Stephens,
Wilmarth). TEI-225
(and Osterwald) TEI-252
(and Trites). TEI-138, J-91
(and Wilmarth, Bauer) TEI-136
(with Bauer). TEM-220

Staff. TEI- 78, 97, 270,
-280, 310, 330,
-331, 390, 391
. TEM- 37, 53A, 56,
- 59, 64, 65,
- 69, 70, 73,
- 75, 78, 79,
- 83, 87, 88,
- 91, 92, 93,
- 96, 97

Stager, H. K. TEI-117, 146
. TEM-103, 332, 491
(with Bush) TEI-288
(with Cater). TEM-693

Starrett, W. H. (and Cannon, H. L.) TEM-711
(with Narten) TEM-580

OFFICIAL USE ONLY

255

Stead, F. W. TEI= 13, 83, 211,
J=92, J=93, J=94
 TEM= 49, 52, 84,
-161, 314
(and Balsley, Moxham, Reinhardt). . . TEM=508
(and Davis, F. J.). J=95
(and Moxham, Davis, F. J.). J=96
(with Butler, A. P.). TEI= 36
(with Harder) TEI= 21
(with Nelson, R. A., Sharp) TEM=147

Stejer, F. A. (with Wedow, Bates, Grantz,
Houston, Killeen, Matzko, Nelson,
Velikanje, West) TEM-552

Stephens, H. G. TEM=110, 188
 (and Cramer). TEM=193
 (and Ekren) TEM=297
 (and Newman). TEM=201
 (with Sample, Albee). TEM=268A, 350, 351,
 -458, 463
 (with Staatsz, Norton, Page, Wilmarth). TEI-225
 (with Strobell, Sample, Gilbert). . . TEM=632

Stephens, J. G. (with Moore, G. W.) TEI-337

Stern, T. W.	TEI-129
(and Stieff)	TEM-647
(and Weeks)	TEI-243
(with Stieff)	TEI-127, 322, J-99
(with Stieff)	TEM-317
(with Stieff, Girhard)	TEI-106, 108
(with Stieff, Milkey)	TEI-268, J-102

Stevens, J. M. (with Wedow, Tolbert) TEI-197
(with White, M. G.) TEI- 75, 192, 193

Stevens, R. E. (with Foster) TEI- 31B
 (with Foster, Grimaldi) TEI- 2
 (with Foster, Grimaldi, Schlecht,
 Fleischer) TEI- 31A

Stewart, J. H. TEI-165
 TEM-299
 (with Williams, Cadigan, Albee) . . . TEI-313

Stewart, M. D. (with McKelvey, Smith, L. E., Kinney,
 Huddle, Hosford, Sears, Sprouse) . . TEI-185

Stewart, R. H. TEI-100
 TEM-255

Stich, J. N. TEI-274

Stieff, L. R.. TEI- 92
 TEM- 57, 68, 74,
 = 90
 (and Erickson). TEI-307
 (and Girhard, Stern). TEI-106, 108
 (and Stern) TEI-127, 322, J-99
 (and Stern) TEM-317
 (and Stern, Milkey) TEI-268, J-102
 (with Murata, Cisney, Zworykin) . . . TEI-107
 (with Senftle, Farley). TEI-374
 (with Stern). TEM-647

Stillman, R. W. (with Cannon, H. L.). TEM-482, 483

Stokes, W. L.. C-111, J-103, -104
 (and Phoenix) OM-j
 (and Russell, Fischer, R. P.,
 Butler, A. P.) OM-i
 (with Fischer, R. P., Smith, L. E.) . OM-a

Stratton, E. V. (with Nelson, J. M.). TEI- 34

Strobell, J. D., Jr. TEM-300, 415, 416,
 -417, 418, 419,
 -420, 421, 422,
 -423, 424, 425,
 -426, 427, 428,
 -429, 430
 (and Sample, Stephens, H. G.,
 Gilbert) TEM-632
 (with Fischer, R. P., Hilpert,
 Schumacher, Cater, Craig,
 Phoenix, Trace). TEM-276

Stugard, Frederick,
 Jr. TEI-233, 254, J-105
 TEM-143, 214
 (and Klinger) TEM-164
 (with Beroni, McKeown, Gott). TEM-213
 (with Kaiser, King, Wilmarth, Wyant,
 Gott). TEI-168
 (with Wyant). TEM-212
 (with Wyant, Kaiser). TEM-169

Suess, H. E. TEM-312

Swanson, R. W. TEM-245, OF-O, J-107
 (and Cressman, Jones, Replogle) TEI-362
 (and Klepper, Lowell, Honkala,
 Cressman, Bostwick, Payne, Ruppel) TEI-186
 (and McKelvey, Sheldon) TEI-246
 (and Waring, R. G., Peirce, Warner,
 M. A., Smart). OF-p
 (with McKelvey) TEI-111
 (with McKelvey, Cathcart,
 Altschuler, Lutz). TEI-271
 (with McKelvey, Sheldon). TEI-263
 (with Peterson, Gosman) TEI-375

Swanson, V. E. TEI-366, J-108
 (with Conant) TEM-553
 TEI-224

Swartz, J. H. (with Davis, Shuler) TEI- 66

-T-

Tandy, C. W. (with Cressman, Wilson, Garmoe) . . . TEI-361

Thaden, R. E. (with Witkind, Johnson, D. H.,
 Claus, Lough) TEI-204
 (with Witkind, Lough) TEM-492, 536, 577

Theobald, P. K., Jr. (with Overstreet) TEM-283
 (with Overstreet, White, A. M.,
 Cuppels, Caldwell, Whitlow) TEI-349

Thompson, M. E. TEI-142, 275
 (with Sheldon, Cressman, Smart,
 Waring, R. G., Weiser, Jones, R. J.,
 Peirce) OF-m
 (with Sheldon, Warner, M. A. Peirce) . TEI-364
 (with Weeks) TEI-334
 (with Weeks, Sherwood) TEI-393
 (with Weeks, Thompson, R. B., Jr.) . . J-119

Thompson, R. B., Jr. TEM-648
 (with Weeks, Thompson, M. E.) J-119

Thurston, R. H.	(and Chace)	TEI- 81A
	(and Trites).	TEI-171, J-109
Thurston, W. R..		TEI-139
		TEM-104, 105, 106
Tillman, C. G.	(with Cathcart, Davidson, Dutro, Ketner, Petersen, Pratt)	TEM-138
	(with Cathcart, Dutro).	TEI-141
Tittle, C. W.	(and Faul).	J-110
	(with Faul)	J-30
Tolbert, G. E.		TEM-372, 373, 374, -375, 378, 379, -380, 381, 382, -398
	(and Hackman)	TEM-379A
	(and Nelson, A. E.)	TEM-319
	(with Hackman).	TEM-380A, 640
	(with Nelson, A. E.).	TEM-320
	(with Wedow).	TEI-195, 196
	(with Wedow, Stevens, J. M.).	TEI-197
	(with White, M. G.)	TEI-194
Tookey, E. W.	(with Sims, Osterwald).	TEI-125
	(with Trites)	TEI-140
Tourtlot, H. A.		TEM-445
Trace, R. D.		TEI-113, 162
		TEM- 80, 176, 177, -178, 179, 181, -182, 184, 185
	(with Bush, Hilpert).	TEI-116
	(with Fischer, R. P., Hilpert, Schumacher, Cater, Strobell, Craig, Phoenix).	TEM-276

Trimble, D. E. TEM-353
 (and Lewis) TEI-321
 (and Lewis) TEM-535

Trites, A. F., Jr. (and Beroni, Benson, W. E.) TEI-240
 (and Chew) TEM-645
 (and Finnell) TEI-320
 (and Finnell) TEM-540
 (and Tooker) TEI-140
 (with Benson, W. E., Beroni, Feeger) TEM-325
 (with Finnell, Renzetti) TEM-479
 (with Staatz) TEI-138, J-91
 (with Thurston, R. H.) TEI-171, J-109

Troyer, M. L. (and McKay, Soister) TEM-572
 (and McKay, Soister, Wallace, S. R.) TEI-345

Tucker, W. P. (and Waring) TEI-267

-V-

Vaughn, W. W. (with Wilson, Rhoden, Faul) TEI-403

Velikanje, R. S. (with Houston, Bates, Wedow) TEI-293
 (with Wedow, Bates, Grantz,
 Houston, Killeen, Matzko, Nelson,
 Stejer, West) TEM-552

Vhay, J. S. TEM- 30, 197

261

W

Ward, F. N. (with Grimaldi, Kreher) TEI- 98

Waring, C. L. (and Annell). TEI-143, 215
 (and Mela). TEI-239
 (and Worthing). TEI-216
 (with Larsen, Berman, J.) J-61
 (with Tucker) TEI-267

Waring, R. G. (with Cheney, Peterson, Sheldon,
 Smart, Warner, M. A.) OF-a
 (with Cheney, Sheldon, Warner, M.A.) TEI-377
 (with Cheney, Smart, Warner, M. A.) TEI-360
 (with Sheldon, Cressman, Smart,
 Thompson, M. E., Weiser, Jones,
 R. J., Peirce) OF-m
 (with Sheldon, Warner, M. A., Smart). TEI-363
 (with Smart, Cheney, Sheldon) TEI-376
 (with Swanson, R. W., Peirce,
 Warner, M. A., Smart). OF-p

Warner, E. R. (with Fletcher) TEM-252

Warner, L. A. (and Holser, Wilmarth, Cameron) TEI-137, J-50

Warner, M. A. (with Cheney, Peterson, Sheldon,
 Smart, Waring, R. G.) OF-a
 (with Cheney, Sheldon, Waring, R.G.) TEI-377
 (with Cheney, Smart, Waring, R. G.) TEI-360
 (with Sheldon, Thompson, M. E.,
 Peirce). TEI-364
 (with Sheldon, Waring, R. G., Smart). TEI-363
 (with Swanson, R. W., Waring, R. G.,
 Peirce, Smart) OF-p

Warr, J. J., Jr. (with Breger, Meyrowitz). TEI-372
 (with Flanagan, Nelson, J. M.) TEM-142

Waters, A. C. (and Granger) TEI-170

Waulters, E. E. (with Fetzner, Fischer, R. P.) TEI- 89

Wayland, T. E. TEM=230, J-115
 (with Davidson) TEM-123

Wedow, Helmuth, Jr. TEI- 56
 TEM=323, 328, 357,
 -622
 (and Bates, Grantz, Houston,
 Killeen, Matzko, Nelson,
 Velikanje, West, Stejer) TEM-552
 (and Matzko). TEI- 38
 (and Stevens, J. M., Tolbert) TEI-197
 (and Tolbert) TEI-195, 196
 (and White, M. G., Moxham). TEM-235
 (with Bates, R. G.) TEM-339
 (with Houston, Velikanje, Bates). TEI-293
 (with Robinson, Lyons). TEI- 26

Weeks, A. D. TEI-285, J-116
 TEM-251, 431, 437
 (and Cisney, Sherwood). TEI-335, J-117
 (and Thompson, M. E.) TEI-334
 (and Thompson, Sherwood). TEI-393
 (and Thompson, M. E., Thompson,
 R. B., Jr.) J-119
 (with Stern). TEI-243

Weeks, W. F. (with Pierson, Kleinhampl). TEI-306

Weir, D. B. (See also Blackman, D. H.) B-988-B

Weir, G. W. J-120
 (with Craig, Holmes, Cadigan,
 Freeman, Mullens). TEI-180
 (with McKee). TEI-269

Weiser, J. D. (with Davidson, Smart, Peirce). TEI-365
 (with Sheldon, Cressman, Smart,
 Waring, R. G., Thompson, M. E.,
 Jones, R. J., Peirce). OF-m
 (with Silverman, Fuyat) TEI-118

Welch, S. W. TEI-347, 348

Wells, J. D. (and Harrison). TEI-305
 (with Harrison) TEI-295

West, W. S. TEI- 53, 291
 TEM-355
 (and Benson, P. O.) TEI- 73, 189
 (and Matzko). TEI- 45 (Pt. 2),
 ~ 49
 (with Moxham) TEI- 39
 (with Moxham) TEM-330
 (with Nelson, Matzko) TEI-292
 (with Wedow, Bates, Grantz, Houston,
 Killeen, Matzko, Nelson, Stejer,
 Velikanje) TEM-552
 (with White, M. G.) TEI-220, 221
 (with White, M. G.) TEM-322

White, A. M. (with Overstreet, Theobald, Cuppels,
 Caldwell, Whitlow) TEI-349

White, M. G. TEI- 40, 55, 57A,
 ~ 57B, 57C, 76A
 TEM-327
 (and Killeen) TEI- 45 (Pt. 1), 46
 (and Nelson, A. E.) TEM-329
 (and Stevens, J. M.) TEI- 75, 192, 193
 (and Tolbert) TEI-194
 (and West). TEI-220, 221
 (and West). TEM-322
 (with Killeen). TEI- 42
 (with Wedow, Moxham). TEM-235

White, W. F. (with Aberdeen, Sherwood, Bruce,
Ferguson). TEM-281

White, W. S. TEM- 34
(and Wright). TEM-158

Whitebread, D. W. (with Beroni) TEM-293
(with Gillerman). TEI-261

Whitlow, J. W. (with Overstreet, Theobald, White,
A. M., Cuppels, Caldwell). TEI-349

Williams, G. A. (and Cadigan, Albee, Stewart) TEI-313

Wilmarth, V. R. TEI-253, 299, J-121
. TEM- 36, 307, 313
(and Johnson, D. H.). TEI-158, 172
(and Smith, L. E.). TEI-277
(and Vickers) TEI-176
(and Vickers, McKeown, Beroni). TEI-124
(with Bales, Bell). J-5
(with Kaiser, King, Stugard, Wyant,
Gott). TEI-168
(with Singewald, Pierson, Vickers). TEM-224
(with Staatz, Bauer). TEI-136
(with Staatz, Norton, Page, L. R.,
Stephens). TEI-225
(with Warner, L. A., Holser, Cameron). TEI-137, J-50

Wilson, E. E. (and Rhoden, Vaughn, Faul). TEI-403

Wilson, W. H. (with Cressman, Tandy, Garmoe). TEI-361

Withington, C. F. TEI-145
. TEM-114, 703
(and Bryner). TEM-204
(and Bush). TEI-115
(and Scott, J. B.). TEM-455
(with Cater). TEM-690
(with Cater, Bush, Bell). TEM-699
(with Gordon, Dow). TEI-213
(with Gordon, Dow). TEM-298

Witkind, I. J. (and Thaden, Johnson, D. H., Claus,
Lough) TEI-204
(and McKay, Johnson, D. H., Finnell,
Claus, Johnson, D. L.) TEM-318
(and Thaden, Lough) TEM-492, 536, 577

Wolfe, J. R. (with Brill). TEI- 19

Worthing, Helen (with McKelvey, Cathcart). TEM-236
(with Waring) TEI-216

Wright, J. C. (with White, W. S.) TEM-158

Wyant, D. G. TEI- 50, 51
. TEM- 2, 2A, 2B,
= 8, 9, 9A,
= 10, 10A, 14,
= 15, 16, 17,
= 54, 211, 221,
=331
(and Beroni). TEI- 61
(and Beroni). TEM-126
(and Sharp, Rodríguez). TEI-222
(and Sharp, Sheridan). TEI-122
(and Sheridan). TEM-244
(and Stugard). TEM-212
(and Stugard, Kaiser). TEM-169
(with Harder). TEI- 4
(with Kaiser, King, Wilmarth,
Stugard, Gott) TEI-168

267

-Z-

Zworykin, E. V. (with Murata, Cisney, Stieff) TEI-107