Numerical List of U.S. Geological Survey Trace Elements Reports to September 15, 1952

By
Jane H. Wallace and Virginia K. Blatcher

United States Department of the Interior Geological Survey
NUMERICAL LIST OF U. S. GEOLOGICAL SURVEY

TRACE ELEMENTS REPORTS TO SEPTEMBER 15, 1952*

Compiled by

Jane H. Wallace and Virginia K. Blatcher

November 1952

Trace Elements Investigations Report 300

*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 chiefly on behalf of the Division of Raw Materials of the U. S. Atomic Energy Commission

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INTRODUCTION

This report lists in numerical order U. S. Geological Survey Trace Elements Investigations and Memorandum Reports and supersedes a similar report issued in January 1952 (TEI-202).

This report contains lists not only of reports that have been transmitted to the U. S. Atomic Energy Commission, that is, those reports followed by a date, but also those reports for which tentative titles were available prior to the date of completion of this list, September 14, 1952. The reports that are in preparation and subject to change in title are indicated by an asterisk.

The classifications that are shown for some of the reports issued prior to 1947 are uncertain; classifications shown are based on the best information available at the time that this report was prepared.

To keep the numerical lists up to date, periodic supplements will be issued. The supplementary pages will be prepared so that they can be substituted for the pages in the present report.

The Geological Survey does not have additional copies for permanent distribution of most of the reports listed, but copies of many of the completed reports can be loaned to organizations or individuals who are cooperating with the Atomic Energy Commission.
NUMERICAL LIST OF U. S. GEOLOGICAL SURVEY

TRACE ELEMENTS REPORTS TO SEPTEMBER 15, 1952

("Indicates: In preparation. Title subject to change.")

Compiled by

Jane H. Wallace and Virginia K. Blatcher

TRACE ELEMENTS INVESTIGATIONS REPORTS


4. Harder, J. O., and Wyant, D. G., Preliminary report on a trace elements reconnaissance in western states: (Official use only). October 1944.


10. Fleischer, Michael, and Harder, J. O., Trace elements investigations; The occurrence of indium: (Unclassified). April 1945.


14. Fleischer, Michael, and Harder, J. O., Trace elements investigations; The occurrence of columbium and tantalum: (Unclassified). 1945.


29. Fleischer, Michael, and Cameron, E. N., Geochemistry of beryllium: (Unclassified). June 1946.


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.
31B. Foster, M. D., and Stevens, R. E., The determination of very small amounts of uranium in naturally occurring materials: (Confidential). 1946.

31C. Grimaldi, F. S., The determination of very small amounts of uranium in rocks and minerals: (Confidential). 1946.


31F. Grimaldi, F. S., Elimination of interference by nickel in the determination of uranium by means of zinc amalgam reductor: (Confidential). 1946.

31G. Schlecht, W. G., Control chart method applied to radioactive counting: (Confidential). 1946.

31H. Fleischer, Michael, and Harder, J. O., Geochemistry of indium: (Confidential), 1946.

31I. Fleischer, Michael, and Harder, J. O., Geochemistry of germanium: (Confidential). 1946.

31J. Fleischer, Michael, and Harder, J. O., Geochemistry of columbium and tantalum: (Confidential). 1946.

31K. Fleischer, Michael, and Cameron, E. N., Geochemistry of beryllium: (Confidential). 1946.


41. Gault, H. R., Trace elements reconnaissance in the Candle Creek area, Fairhaven district, Seward Peninsula, Alaska: (Official use only). December 1949.


51. Wyant, D. G., Uranium-vanadium deposits at Shinarump Mesa and some adjacent areas, Temple Mountain district, Emery County, Utah:


53. West, W. S., Radioactivity investigations in the Darby Mountains, Seward Peninsula, Alaska:

55. White, M. G., Reconnaissance for radioactive deposits along the upper Porcupine River, northeastern Alaska: (Unclassified). June 1951.

56. Wedow, Helmuth, Jr., Radioactivity investigations in the Eagle-Nation area, Upper Yukon region, Alaska.

57A. White, M. G., Radioactivity and mineralogy of placer concentrates from the Fortymile district, Alaska: (Unclassified). August 1950.


57C. White, M. G., Radioactivity in the 'Okpilak' gneissic granite, Mount Michelson area, northeastern Alaska: (Unclassified). January 1951.


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.


73. West, W. S., and Benson, P. D., Radiometric reconnaissance on the Mountain View mining property and adjacent areas, Hyder district, southeastern Alaska.*


75. White, M. G., and Stevens, J. M., Radioactivity investigations in the vicinity of the Nixon Fork mines, McGrath district, Alaska.*

76A. White, M. G., Examination for radioactivity in a copper-lode prospect on Ruby Creek, Kobuk River Valley, Alaska: (Unclassified). August 1950.


78. Staff, Characteristics of radioactive carbonaceous and bituminous shales: (Confidential). January 1950.


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.


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.

89. Fischer, R. P., Some considerations regarding potential production of uranium-vanadium ore in Colorado, Utah, New Mexico, and Arizona; (Secret). 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.


97. Staff, Tonnage and grade of slime ponds and washer debris areas, Florida phosphate field; (Secret). September 1949.


100. Stewart, R. H., Preliminary results of prospecting of the "leached" zone over phosphate deposits in NW 1/4 of Sec. 9, T. 31 S., R. 25 E., Polk County, Florida; (Official use only). December 1949.


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.


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.


117. Stager, H. K., Carnotite resources of the Maverick group area, Mesa County, Colorado; (Official use only). June 1950.


124. Wilmarth, V. R., and others, The uranium deposits at the Yellow Canary claims, Daggett County, Utah.*

125. Leonard, B. F., Concept of mineral zoning applied to Front Range deposits.*


130. Fletcher, M. H., A study of critical factors in the "direct" fluorimetric determination of uranium: (Unclassified). October 1950.

130. Addendum. Fletcher, Mary H., Addendum to a study of critical factors in the "direct" fluorimetric determination of uranium: (Unclassified). April 1952.


142. Thompson, M. E., Distribution of uranium in rich phosphate beds of the Phosphoria formation: (Unclassified). February 1951.


144. Phair, George and Onoda, Kiyoko, Hydrothermal uranothorite in fluorite breccias from the Blue Jay mine, Jamestown, Boulder County, Colorado: (Unclassified). March 1951.

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.*

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.


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.


154. Finch, W. I., Carnotite resources of part of Blue Mesa, Mesa County, Colorado: (Restricted-Security Information). 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.

156. Granger, H. C., Bauer, H. L., Jr., and Lovering, T. G., Uranium deposits in Grant County, New Mexico.


161. Phoenix, D. A., Present and paleo-ground water of the Morrison formation.*


163. Brasher, G. K., Carnotite resources of Outlaw Mesa, Mesa County, Colorado.*


165. Stewart, N. H., Carnotite resources of the Moon Mesa and Horse Mesa area, Mesa County-Montrose County, Colorado.*
166. Holser, W. T., Beryllium minerals in the Victorio Mountains, Luna County, New Mexico: (Unclassified). January 1952.

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.


169. Lovering, T. G., Uranium deposits of Nevada. *


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

172. Wilmarth, V. R., Bear Lodge Mountains, Wyoming. *


174. Lovering, T. G., Uranium deposits of New Mexico. *

175. Harrison, J. E., Zoning as related to structure in the central part of the Front Range mineral belt of Colorado. *

176. Wilmarth, V. R., Thucholite near Placerville, San Miguel County, Colorado. *

177. Armstrong, F. C., Preliminary summary report on the Central City pitchblende area, Gilpin County, Colorado. *


179. Myers, A. T., and Barnett, P. R., Contamination of rock samples during grinding as determined spectrographically: (Unclassified). March 1952.


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.


189. West, W. S., and Benson, P. D., Radiometric reconnaissance in the vicinity of Ketchikan, Goddard Hot Springs, Chicago, Funter Bay, and Juneau, southeastern Alaska.*


195. Wedow, Helmuth, Jr., and Tolbert, G. E., Radioactivity at the Copper Creek copper lode prospect, Eagle district, east-central Alaska.

196. Wedow, Helmuth, Jr., and Tolbert, G. E., Reconnaissance for radioactive deposits in the Fortymile district, Upper Yukon region, Alaska.


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205. Benson, W. E., and others, Geologic mapping and study of the copper-uranium deposits in White Canyon, San Juan County, Utah.


216. 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.


223. Cuttitta, Frank, The colorimetric determination of total iron with o-phenanthroline: a
spectrophotometric study: (Unclassified). May 1952.

224. Conant, L. C., and Swanson, V. E., Uranium content of Chattanooga shale in east-central
Tennessee and southern Kentucky.*

225. Staatz, Mortimer, Page, L. R., and Wilmarth, V. R., Results of drilling of the Helen Beryl Tin
Mountain and Elkhorn pegmatites, 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., Pitchblende at the Caribou mine, Boulder County, Colorado.*

229. Lovering, T. G., Uranium deposits of California.*

230. Lovering, T. G., Uranium deposits of Utah.*

231. Sheridan, D. M., High Climb pegmatites, South Dakota.*

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.

233. Stugard, Frederick, Jr., Pegmatites of the Middletown area, Connecticut.*

234. Pierson, C. T., and Singewald, Q. D., Occurrence of uranium-bearing minerals in the St. Kevin
district, Lake County, Colorado.*

235. Milkey, R. G., A theoretical treatment of the absorption characteristics of the dithizone mixed-
color system: (Unclassified). May 1952.


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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.*


240. Trites, A. F., Beroni, E. F., 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.*

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.


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.


247. Phair, George, Radioactive Tertiary porphyries in the Central City district, Colorado, and their bearing upon pitchblende deposition: (Unclassified). August 1952.

248. Pierson, C. T., and Singewald, Q. D., Results of radiometric reconnaissance in the Alma district, Park County, Colorado.*

249. Griffitts, W. T., Beryllium resources of the tin-spodumene belt, North Carolina.*


251. Shawe, D. R., Thorium resources of the Mountain Pass district, California.*

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262. Phair, George and Levine, Harry, Notes on the differential leaching of uranium, radium, and lead from pitchblende in H_{2}SO_{4} solutions.*


266. Altschuler, Z. S., Summary of work on the mineralogy and petrography of southeast phosphates through April 1952.*


272. Hail, W. J. Jr., and Gill, J. R., Radioactive carbonaceous shale and lignite deposits in the Goose Creek district, Cassia County, Idaho.*

273. Berman, Robert, A nomogram for obtaining percent composition by weight from mineral grain counts.*

274. Stich, J. N., Spectrographic identification of mineral grains.*

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276. Holmes, C. N., Jurassic stratigraphy of Colorado.*

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280. Staff, Trace Elements research quarterly progress report, April 1 to June 30, 1952: (Official use only). August 1952.

301. Curtis, Diane, A topical index of the U. S. Geological Survey Trace Elements Reports.


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.


10. Wyant, D. G., Lost Creek (Wamsutter) scheelkingerite deposit, Sweetwater County, Wyoming: (Restricted). December 1948.


27. Gott, G. B., Barbers Hill oil field, Chambers County, Texas: (Official use only). December 1949.


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 Marysvale, Piute County, Utah: (Pt. 1, Unclassified; Pt. 2, Official use only). September 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.


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.


49. Stead, F. W., Available data on the content of radioactive elements in recent marine sediments and sea water: (Confidential). December 1947.


52. Stead, F. W., Investigation of gamma-ray well logs: (Confidential). February 1948.


53A. Staff, Results of radioactivity determinations on Green River oil shale: (Confidential). August 1948.


56. Staff, Monazite in concentrates from Idaho placer operations: (Unclassified). March 1948.

57. Stieff, L. R., Carnotite mineralogical research: (Confidential). April 1948.


59. Staff, Radioactivity of recent sediments, salt and fresh water: (Confidential). May 1948.


64. Staff, Some factors related to western phosphate development: (Secret). June 1948.

65. Staff, Western phosphate program, sampling and mill studies: (Secret). August 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.


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: (Restricted). 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.


83. Staff, A tentative estimate of tonnage and grade of the leached zone and slime ponds in the Florida phosphate field: (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). Oct. 1949; supplemental list, March 1950.

87. Staff, Progress on airborne radiation detection: (Unclassified). December 1949.

88. Staff, Progress on carbone radiation detection: (Unclassified). 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.


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.


111. Bryner, Leonid, Preliminary appraisal of the results of diamond-drill exploration on Club Mesa, Montrose County, Colorado: (Official use only). June 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.


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.


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.

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.


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.


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.


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.


139. Bauer, H. L., Jr., Radioactive ilmenite, Virginia claim, Hillsboro mining district, Sierra County, New Mexico: (Unclassified). October 1950.


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.


151. Bauer, H. L., Jr., and Klinger, F. L., Monzonite in Dry Creek Canyon, Sevier Plateau, Sevier County, Utah: (Unclassified). October 1950.


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162. Staatz, M. H., Uranium prospect, Jan Group, Juab County, Utah: (Unclassified). September 1950.

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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.


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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.


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.


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.


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.


194. McKelvey, V. E., Rare earths in western phosphate rocks: (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.


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.


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.


207. Sample, R. D., and Albee, H. F., Claim map, Calamity Mesa quadrangle, Mesa County, Colorado: (Official use only). August 1951.


211. Wyant, D. G., The East Slope No. 2 uranium prospect, Piute County, Utah: (Pt. 1, Unclassified; Pt. 2, Official use only). January 1951.

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.


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.


221. Wyant, D. G., Proposed exploration, Papsy's Hope No. 2 uranium prospect, Piute County, Utah: (Official use only). January 1951.


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.


240. Narten, P. F., Crawford, J. E., and Butler, A., Jr., Summary review of analytical data pertaining to the uranium content or radioactivity of domestic shales: (Confidential). January 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.


245. Swanson, R. W., Uranium content of phosphate rock mined in Powell County, Montana, and treated in Canada: (Official use only). April 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.


254. Page, L. R., Proposed beryllium program: (Official use only). June 1951.


256. Bryner, Leonid, and Cramer, M. A., Preliminary reserve statement 18, Reserve Block 6, Club Mesa, Montrose County, Colorado: (Official use only). October 1951.


262. Jobin, D. A., Preliminary reserve statement 24, Reserve Block A, Dolores Bench, Montrose County, Colorado.*

263. Jobin, D. A., Preliminary reserve statement 25, Reserve Block B, Dolores Bench, Montrose County, Colorado.*

264. Jobin, D. A., Preliminary reserve statement 26, Reserve Block C, Dolores Bench, Montrose County, Colorado.*

265. Jobin, D. A., Preliminary reserve statement 27, Reserve Block D, Dolores Bench, Montrose County, Colorado.*

266. Sample, R. D., and Albee, H. F., Claim map, Atkinson Creek quadrangle, Montrose County, Colorado: (Official use only). August 1951.


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.


277. Read, C. B., Recent discoveries of radioactive carbonaceous shale, Sandoval County, New Mexico: (Official use only). January 1952.

278. Davidson, D. F., Results of drilling on the Lowe property, Citrus County, Florida: (Official use only). January 1952.


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293. Gillerman, Elliot, and Whitebread, D. M., Preliminary report on uranium-bearing nickel-cobalt-native silver deposits in the Black Hawk district, Grant County, New Mexico, and a proposal for exploration.*


315. Ketner, K. B., Correlation between uranium and P2O5 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.


333. Brown, Andrew, Notes on eastern oil shale drilling; (Official use only). January 1952.


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.


342. Deul, Maurice, Summary of cooperative investigation of Dakota uraniumiferous lignites (I)*


348. Sample, R. D., and Albee, H. F., Claim map, Juanita Arch quadrangle, Mesa County, Colorado.*

349. Sample, R. D., and Albee, H. F., Claim map, Roc Creek quadrangle, Montrose County, Colorado.*


354. Faul, Henry, and Hunt, C. B., Radon in the Dillon tunnel in Miner’s Basin, north La Sal Mountains, Grand County, Utah.*


357. Wedow, Helmut, Jr., Summary of reconnaissance for radioactive deposits in Alaska by the Geological Survey during the period 1945-1951 and an appraisal of uranium possibilities.*


359. Meuschke, J. L., Aeromagnetic survey of Urravan mineral belt.*


365. Hackman, R. J., Photogeologic map, Aneth-3 quadrangle, San Juan County, Utah: (Unclassified). May 1952.


368. Hackman, R. J., Photogeologic map, Aneth-8 quadrangle, San Juan County, Utah: (Unclassified). May 1952.

369. Hackman, R. J., Photogeologic map, Bluff-1 quadrangle, San Juan County, Utah: (Unclassified). April 1952.


372. Tolbert, G. E., Photogeologic map, Carlisle-1 quadrangle, San Juan County, Utah: (Unclassified). March 1952.

373. Tolbert, G. E., Photogeologic map, Carlisle-8 quadrangle, San Juan County, Utah: (Unclassified). March 1952.


375. Tolbert, G. E., Photogeologic map, Carlisle-16 quadrangle, San Juan County, Utah: (Unclassified). May 1952.


381. Tolbert, G. E., Photogeologic map, Mt. Peale-12 quadrangle, San Juan County, Utah: (Unclassified). May 1952.


384. Fischer, W. A., Photogeologic map, Stinking Spring Creek-12 quadrangle, Emery County, Utah: (Unclassified). May 1952.


386. Hackman, R. J., Photogeologic map, Verdure-10 quadrangle, San Juan County, Utah: (Unclassified). April 1952.


388. Hackman, R. J., Photogeologic map, Verdure-12 quadrangle, San Juan County, Utah: (Unclassified). March 1952.


393. Hackman, R. J., Photogeologic map, Aneth-5 quadrangle, San Juan County, Utah: (Unclassified). July 1952.


400. Hackman, R. J., Photogeologic map, Aneth-6 quadrangle, San Juan County, Utah: (Unclassified). July 1952.

401. Ray, R. G., Photogeologic map, Bluff-14 quadrangle, Navajo Indian Reservation, San Juan County, Utah: (Unclassified). July 1952.


405. Hackman, R. J., Photogeologic map, Verdure-6 quadrangle, San Juan County, Utah: (Unclassified). July 1952.


408. Hackman, R. J., Photogeologic map, Verdure-5 quadrangle, San Juan County, Utah: (Unclassified). August 1952.


411. Eckstein, W. H., Photogeologic map, Agathla Peak-2 quadrangle, Navajo Indian Reservation, Navajo County, Arizona.*

412. Hackman, R. J., Photogeologic map, Agathla Peak-4 quadrangle, Navajo Indian Reservation, Navajo County, Arizona: (Unclassified). August 1952.
413. Fischer, W. A., Photogeologic map, Clay Hills-12 quadrangle, Piute Indian Reservation, San Juan County, Utah: (Unclassified). July 1952.


415. Strobell, J. D., Jr., Dinne Mesa NW, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona: (Unclassified). June 1952.


418. Strobell, J. D., Jr., Los Gigantes NE, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona: (Unclassified). June 1952.


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.


423. Strobell, J. D., Jr., Dinne Mesa NE, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona: (Unclassified). August 1952.

424. Strobell, J. D., Jr., Dinne Mesa SE, preliminary geologic map of part of the Carrizo Mountains area, northeastern Arizona: (Unclassified). August 1952.

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.


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.


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433. Hackman, R. J., Photogeologic map, Verdure-3 quadrangle, San Juan County, Utah: (Unclassified). August 1952.

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441. Ray, R. G., Photogeologic map, Agathla Peak-1, Navajo Indian Reservation, Navajo County, Arizona. *

442. Fischer, W. A., Photogeologic map, Clay Hills-14 quadrangle, Navajo Indian Reservation, San Juan County, Utah. *

443. Bachman, G. O., and Read, C. B., Trace Elements reconnaissance investigations in New Mexico and adjoining states in 1951. *


448. Hackman, R. J., Photogeologic map, Mt. Peale-16 quadrangle, Utah-Colorado.*

449. Bates, C. E., and Eckstein, W. H., Photogeologic map, Clay Hills-16 quadrangle, Navajo Indian Reservation, San Juan County, Utah.*

450. Hackman, R. J., Photogeologic map, Mt. Peale-9 quadrangle, Utah-Colorado.*

452. Hackman, R. J., Photogeologic map, Aneth-1 quadrangle, Utah-Colorado: (Unclassified), July 1952.


454. Scott, J. B., Development drilling on the Vanura claims, San Miguel County, Colorado.*

455. Scott, J. B., Development drilling on the Contact No. 4 claim, San Miguel County, Colorado.*

456. Sample, R. D., and Albee, H. F., Claim map, Egnar quadrangle, San Miguel County, Colorado.*

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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-Security Information). July 1952.

465. Hackman, R. J., Photogeologic map, Mt. Peale-8 quadrangle, Utah-Colorado.*
471. Dwornik, Edward, and Ross, Malcolm, Application of the electron microscope to mineralogic studies.*


474. Botinelly, Theodore, Summary report of the project "Mineralogy of the Chattanooga shales."**

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.


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