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DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BIBLIOGRAPHY OF REPORTS BY U.S. GEOLOGICAL SURVEY PERSONNEL
PERTAINING TO UNDERGROUND NUCLEAR TESTING AND RADIOACTIVE WASTE DISPOSAL
AT THE NEVADA TEST SITE,
AND RADIOACTIVE WASTE DISPOSAL AT THE WIPP SITE, NEW MEXICO,
JANUARY 1, 1979, TO DECEMBER 31, 1979

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This bibliography presents reports released to the public between January 1, 1979, and December 31, 1979, by personnel of the U.S. Geological Survey. Reports include information on underground nuclear testing and waste management projects at the NTS (Nevada Test Site) and radioactive waste projects at the WIPP (Waste Isolation Pilot Plant) site, New Mexico. Reports on Project Dribble, Tatum Dome, Mississippi, previously prepared as administrative reports and released to the public as 474-series reports during 1979 are also included in this bibliography.

The bibliography is divided into three categories: (1) reports regarding underground nuclear testing, (2) waste management projects at the NTS, and (3) waste management studies at the WIPP site. Reports are listed in each category by publication outlet. The USGS-474 series reports pertain to underground nuclear testing studies and are cross referenced to administrative (or in-house) series (for example, USGS-474-228 is cross referenced as Area 12-44). The administrative series are used to break down the USGS-474 series for more specific area identification. A list of cross references is shown on page 13. Reports in the USGS-1543 series pertain to studies under the Nevada Nuclear Waste Storage Investigations.

Book publications of the U.S. Geological Survey may be obtained from Branch of Distribution, U.S. Geological Survey, 1200 South Eads St., Arlington, Virginia 22202. Maps of areas west of the Mississippi may be obtained from Branch of Distribution, U.S. Geological Survey, Box 25286, Federal Center, Denver, Colorado 80225. Information on

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Most reports issued in the USGS-474 and USGS-1543 series are available to the public through the NTIS (U.S. Department of Commerce, National Technical Information Service, Springfield, VA 22161). Microfiche copies may be purchased at \$3.50 each¹. Printed copies of reports are priced according to the following schedule. Reports should be ordered from NTIS by the USGS-474 or USGS-1543 number. Sandia publications pertaining to studies at the WIPP project site are also available from NTIS.

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Index maps of the NTS showing geologic maps (fig. 1) and the NTS numbering scheme (fig. 2) are included. The location of the WIPP project site is shown on figure 3.

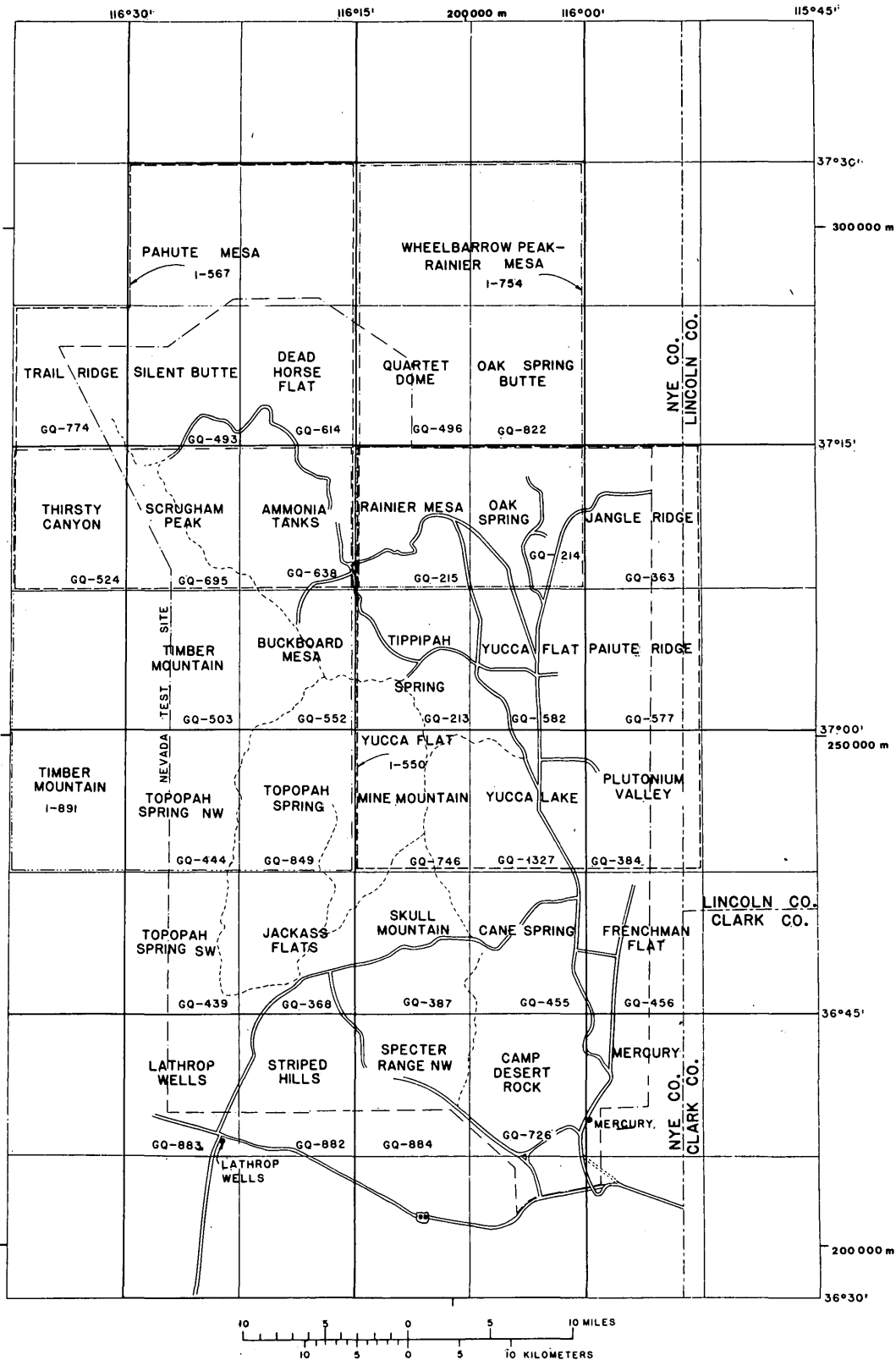


Figure 1.--Index map of Nevada Test Site showing outlines of geologic maps.

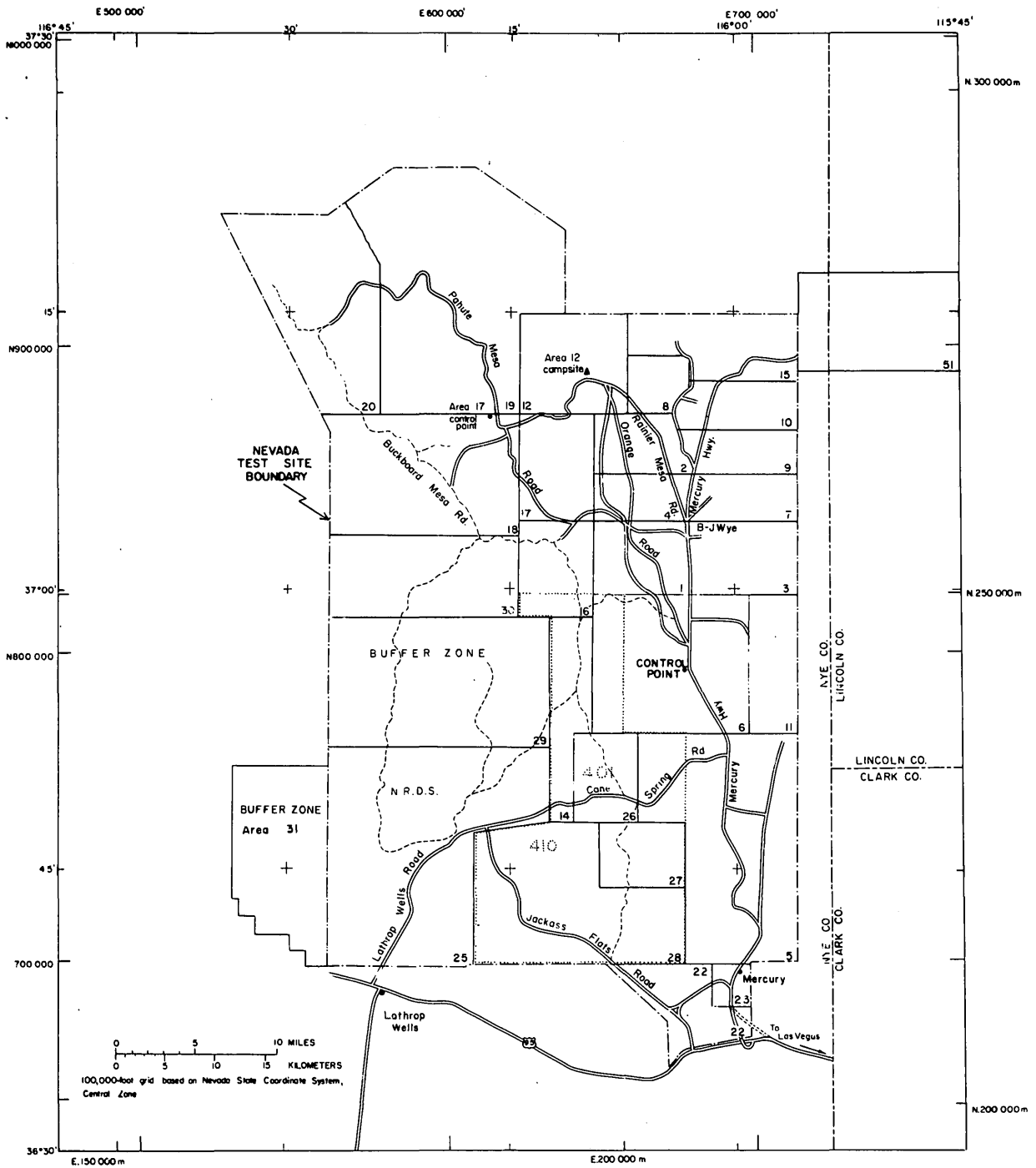


Figure 2.--Index map showing location of Nevada Test Site and outlines of numbered test areas on the test site.

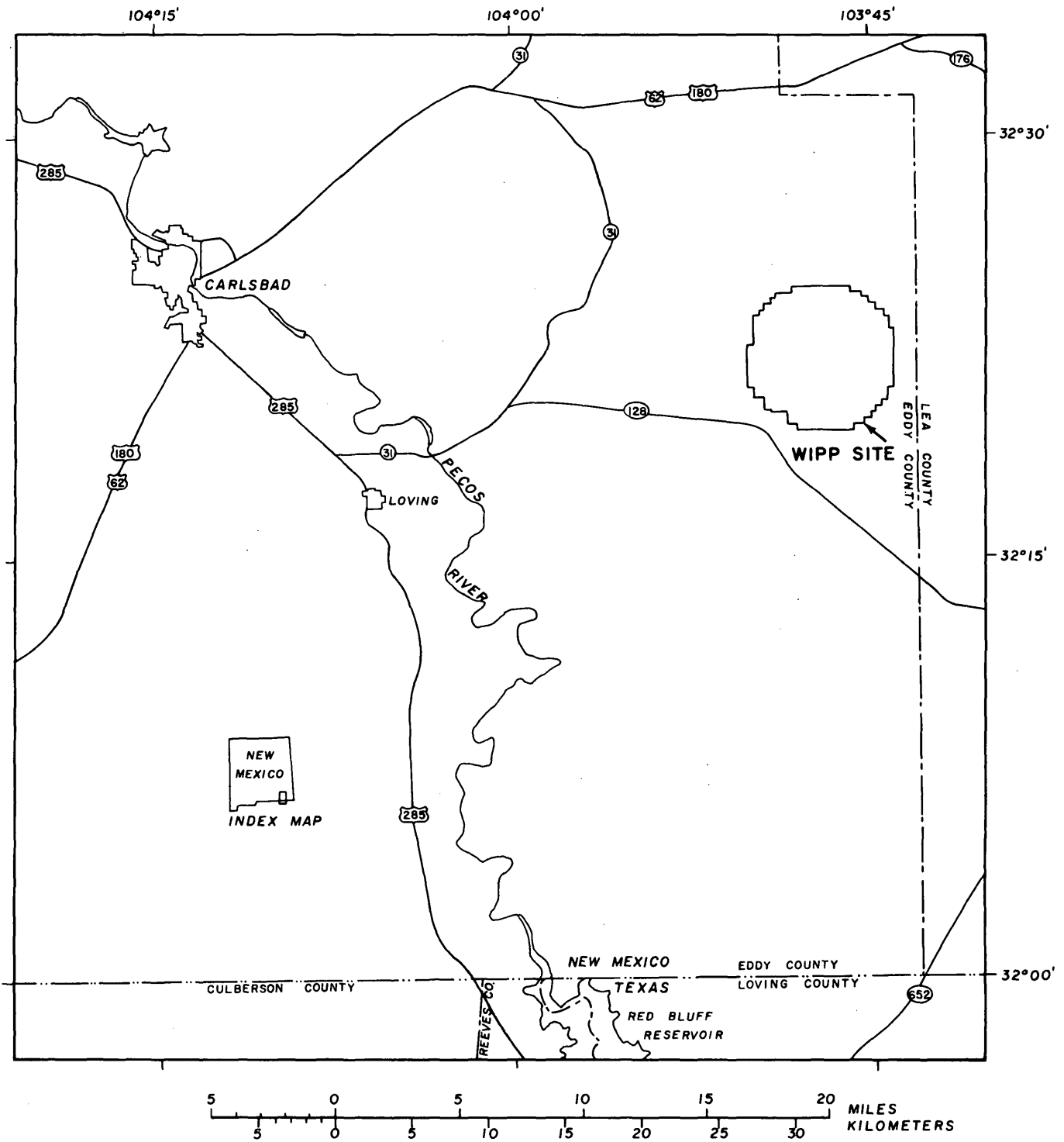


Figure 3.--Map showing location of the WIPP project site.

REPORTS PERTAINING TO UNDERGROUND NUCLEAR TESTING
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- USGS-474
-228 U.S. Geological Survey investigations in connection with the Mighty Epic event, U12n.10 tunnel, Nevada Test Site, with a section on Geologic investigations by G. M. Fairer and D. R. Townsend, a section on Geophysical logging and seismic investigations by R. D. Carroll, M. J. Cunningham, and D. C. Muller, a section on Gravity surveys--Rainier Mesa and U12n.10 tunnel by D. L. Healey, and a section on In situ stress investigations by W. L. Ellis, 191 p., 1979.
- 261 Supplementary lithologic logs of selected vertical drill holes in Area 12, Nevada Test Site, by Florian Maldonado, S. G. Steele, and D. R. Townsend, 61 p., 1979.
- 262 Map of the tuff aquitard (lower tuff units) in Yucca Flat, Nevada Test Site, by A. T. Fernald, 9 p., 1979.
- 267 Configuration of Tatum salt dome, Lamar County, Mississippi, by R. A. Black and W. S. Twenhofel, 4 p., 1979 [1961].
- 268 Velocity surveys in wells within a twenty-five mile radius of Tatum dome, Lamar County, Mississippi, by R. A. Black and W. S. Twenhofel, 2 p., 1979 [1961].
- 269 Hydrologic test program, Tatum salt dome, Lamar County, Mississippi (no author named), 5 p., 1979 [1961].
- 270 Generalized stratigraphic section for the Tatum dome area, Lamar County, Mississippi, by D. H. Eargle, 2 p., 1979 [1961].
- 271 Velocity cross section 1, extending southwest from Tatum dome, Lamar County, Mississippi, by R. A. Black and D. H. Eargle, 9 p., 1979 [1961].
- 272 Log of exploratory hole 1, Tatum dome, Lamar County, Mississippi, by R. V. Chafin, C. A. Armstrong, R. E. Taylor, and H. B. Harris, 7 p., 1979 [1961].
- 273 Subsurface contour maps of major reflecting horizons in the vicinity of Tatum dome, Lamar County, Mississippi, by R. A. Black and W. S. Twenhofel, 3 p., 1979 [1961].

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-274 Velocity functions computed from well geophone surveys within a 25-mile radius of Tatum salt dome, Lamar County, Mississippi, by R. A. Black and D. F. Balsinger, 6 p., 1979 [1961].
- 275 Log of exploratory hole 4, Tatum dome, Lamar County, Mississippi, by R. V. Chafin, C. A. Armstrong, H. B. Harris, and R. E. Taylor, 11 p., 1979 [1961].
- 276 Log of exploratory hole 5, Tatum dome, Lamar County, Mississippi, by C. A. Armstrong, R. V. Chafin, H. B. Harris, R. E. Taylor, and John Stanford, 10 p., 1979 [1961].
- 277 Log of exploratory hole 6, Tatum dome, Lamar County, Mississippi, by C. A. Armstrong, R. V. Chafin, H. B. Harris, R. E. Taylor, and John Stanford, 9 p., 1979 [1961].
- 278 Geology of core hole WP-1, Tatum dome, Lamar County, Mississippi, by D. H. Eargle, 46 p., 1979 [1962].
- 279 Logs of exploratory holes 2 and 7, Tatum dome, Lamar County, Mississippi, by C. A. Armstrong, R. E. Taylor, R. V. Chafin, and H. B. Harris, 18 p., 1979 [1962].
- 280 Logs of exploratory holes 3 and 9, Tatum dome, Lamar County, Mississippi, by C. A. Armstrong, R. E. Taylor, R. V. Chafin, and H. B. Harris, 18 p., 1979 [1962].
- 281 Velocity cross section 2, extending northeast from Tatum dome, Lamar County, Mississippi, by D. H. Eargle and R. A. Black, 7 p., 1979 [1962].
- 282 Geology of core hole WP-4, Tatum dome, Lamar County, Mississippi, by D. H. Eargle, 45 p., 1979 [1962].
- 283 Velocity cross section 3, extending west from Tatum dome, Lamar County, Mississippi, by R. A. Black, D. H. Eargle, Beth Davis, and John Stanford, 9 p., 1979 [1962].
- 284 Velocity cross section 4, extending northwest from Tatum dome, Lamar County, Mississippi, by D. H. Eargle, R. A. Black, Beth Davis, and John Stanford, 8 p., 1979 [1962].

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- 285 Velocity cross section 6, extending southeast from Tatum dome, Lamar County, Mississippi, by R. A. Black, D. H. Eargle, Beth Davis, and John Stanford, 7 p., 1979 [1962].
- 286 Surface water investigations in Lower Little Creek Basin, Lamar and Marion Counties, Mississippi, by John Skelton, 15 p., 1979 [1962].
- 287 Well records and quality of water in the Tatum dome area, Lamar County, Mississippi, by J. W. Lang and E. J. Harvey, 5 p., 1979 [1963].
- 288 Distribution coefficient data and preliminary estimates of movement of radionuclides, Tatum salt dome, Lamar County, Mississippi, by W. A. Beetem and V. J. Janzer, 37 p., 1979 [1963].
- 289 Results of aquifer tests at hydrologic test sites 1 and 2, Tatum dome, Lamar County, Mississippi, by F. C. Koopman, A. I. Johnson, C. A. Armstrong, and R. E. Taylor, 31 p., 1979 [1963].
- 290 Surface water investigations in Lower Little Creek Basin, Lamar and Marion Counties, Mississippi, by John Skelton, 41 p., 1979 [1963].
- 291 Chemical characterization of selected core samples from the vicinity of Tatum salt dome, Lamar County, Mississippi, by E. A. Jenne, 13 p., 1979 [1963].
- 292 Inventory of wells near calibration shot points in south Mississippi, by P. E. Grantham and B. E. Wasson, 7 p., 1979 [1963].
- 293 Measurements of subsurface natural gamma radioactivity, Project Dribble, Lamar County, Mississippi, by C. M. Bunker and W. A. Bradley, 14 p., 1979 [1963].
- 294 Basic data for domestic supply wells in a five-mile radius of Tatum salt dome, Lamar County, Mississippi--A supplement to Technical Letter: Dribble-30 (and radiochemical analyses of selected water samples in the area), by R. E. Taylor and P. E. Grantham, 3 p., 1979 [1963].

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-295 Hydrogeology at hydrologic test well HT-3 and correlation of aquifers at Tatum dome, Lamar County, Mississippi, by W. N. Lockwood, 22 p., 1979 [1964].
- 296 Hydrologic and physical properties of cores from hydrologic test sites 1 and 2, Tatum dome, Lamar County, Mississippi, by A. I. Johnson and A. H. Ludwig, 47 p., 1979 [1964].
- 297 Surface water investigations in Lower Little Creek Basin, Lamar and Marion Counties, Mississippi, by H. G. Golden and M. W. Gaydos, 15 p., 1979 [1964].
- 298 Radiochemical analyses of water samples collected postshot in the vicinity of Tatum dome, Mississippi, by V. J. Janzer and S. J. Rucker, 13 p., 1979 [1965].
- 299 Streamflow in Lower Little Creek Basin affected by the Salmon Event, Lamar County, Mississippi, by C. P. Humphreys, Jr., and R. E. Taylor, 14 p., 1979 [1965].
- 300 Subsurface gamma-radioactivity measurements after Salmon Event, Project Dribble, Lamar County, Mississippi, by C. M. Bunker and W. A. Bradley, 5 p., 1979 [1965].
- 301 Geologic section and hydrologic observations at station 1A, Tatum salt dome, Lamar County, Mississippi, by R. E. Taylor, 19 p., 1979 [1966].
- 302 Surface-water records in Lower Little Creek Basin, Lamar and Marion Counties, Mississippi, by R. E. Taylor and D. E. Shattles, 16 p., 1979 [1966].
- 303 Aquifer-response measurements for the Sterling event, Tatum dome, Lamar County, Mississippi, by D. A. Baldwin, 10 p., 1979 [1968].
- 304 Summary of geology for two potential underground test sites in basaltic rocks, Nevada Test Site, by F. M. Byers, Jr., and Hazelwood, R. M., 10 p., 1979 [1962].
- 305 Complete Bouguer gravity map of the Caliente 1°X2° sheet, Nevada and Utah, by D. L. Healey, R. R. Wahl, F. E. Currey, and W. E. Stephens, 76 p., 1979.

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-306 Bibliography of reports by U.S. Geological Survey personnel on the Nevada Test Site and related subjects, July 1, 1977, to December 31, 1978, with author and subject indexes, by V. M. Glanzman, 27 p., 1979.
- 307 Preliminary investigation of physical-properties data from Pahute Mesa, Nevada Test Site, using the GRASP storage and retrieval system, by G. E. Brethauer, 54 p., 1979.
- 308 Interpretation of gravity data in the Timber Mountain area of the Nevada Test Site, by D. L. Healey and C. H. Miller, 47 p., 1979 [1966].

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- 79-220 Schlumberger soundings and geoelectric cross sections in Yucca Lake, Nevada Test Site, Nevada, by A. A. R. Zohdy and R. J. Bisdorf, 68 p., 1979.

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- 712-E Geochemistry of ground water associated with tuffaceous rocks, Oasis Valley, Nevada, by A. F. White, p. E1-E25, 1979.

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Nomograph for determining true geologic bed thickness in horizontal drill holes and in tunnels, by C. H. Miller and J. E. Magner: Bulletin of the Association of Engineering Geologists, v. XV, no. 4, p. 383-386, 1978.

Application of geochemical kinetic data to ground-water systems, by H. C. Claassen and A. F. White: American Chemical Society Symposium Series, no. 93, p. 771-793, 1979.

Dissolution kinetics of silicate rocks--Application to solute modeling, by A. F. White and H. C. Claassen: American Chemical Society Symposium Series, no. 93, p. 447-473, 1979.

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- 2 Geology of the UE17e drill hole, Area 17, Nevada Test Site, by J. N. Hodson and D. L. Hoover, 36 p., 1979.
- 3 Summary of hydraulic tests and hydrologic data for holes UE16d and UE16f, Syncline Ridge area, Nevada Test Site, by G. A. Dinwiddie and J. E. Weir, Jr., 25 p., 1979.
- 4 Geohydrology of hole UE17a, Syncline Ridge area, Nevada Test Site, by J. E. Weir, Jr., and J. N. Hodson, 18 p., 1979.
- 6 Preliminary geologic and geophysical data of the UE25a-3 exploratory drill hole, Nevada Test Site, Nevada, by Florian Maldonado, D. C. Muller, and J. N. Morrison, 47 p., 1979.

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- 79-235 Inventory of granitic masses in the State of Nevada, by R. W. Spengler, Florian Maldonado, J. E. Weir, Jr., and G. L. Dixon, 264 p., 1979.
- 79-277 A slingram survey on the Nevada Test Site - Part of an integrated geologic-geophysical study of site evaluation for nuclear waste disposal, by V. J. Flanigan, 30 p., 1979.
- 79-760 Inventory of clay-rich bedrock and metamorphic derivatives in eastern Nevada, excluding the Nevada Test Site, by H. E. Simpson, J. E. Weir, Jr., and L. A. Woodward, 147 p., 1979.
- 79-926 Major-element geochemistry of the Silent Canyon-Black Mountain peralkaline volcanic centers, northwestern Nevada Test Site: Applications to an assessment of renewed volcanism, by B. M. Crowe and K. A. Sargent, 25 p., 1979.
- 79-1244 Preliminary report on the geology of drill hole UE25a-1, Yucca Mountain, Nevada Test Site, by R. W. Spengler, D. C. Muller, and R. B. Livermore, 43 p., 1979.
- 79-1695 Some reconnaissance-type electrical surveys of Timber Mountain caldera, Nye County, Nevada, by C. J. Zablocki, 23 p., 1979.

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- SAND79-0273 Geologic data for borehole WIPP-13, in Basic data report for drillhole WIPP-13 (Waste Isolation Pilot Plant - WIPP), by J. L. Gonzales and C. L. Jones, p. 5-15, 1979.
- SAND79-0279 Geological data, in Basic data report for drillhole WIPP-25 (Waste Isolation Pilot Plant - WIPP), by J. L. Gonzales and C. L. Jones, p. 4-26, 1979.
- SAND79-0280 Geological data, in Basic data report for drillhole WIPP-26 (Waste Isolation Pilot Plant - WIPP), by S. L. Drellack, Jr., and R. P. Snyder, p. 4-29, 1979.
- SAND79-0281 Geologic data for borehole WIPP-27, in Basic data report for drillhole WIPP-27 (Waste Isolation Pilot Plant - WIPP), by C. L. Jones and A. F. McIntyre, p. 5-18, 1979.
- SAND79-0282 Geological data, in Basic data report for drillhole WIPP-28 (Waste Isolation Pilot Plant - WIPP), by S. L. Drellack, Jr., and R. P. Snyder, p. 4-31, 1979.
- SAND79-0283 Geological data, in Basic data report for drillhole WIPP-29 (Waste Isolation Pilot Plant - WIPP), by R. P. Snyder and A. F. McIntyre, p. 4-18, 1979.

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USGS PP, USGS Professional Paper

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Granitic rocks: USGS OF 79-235

Gravity data

Nevada: USGS-474-228, USGS-474-305, USGS-474-308

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Ground water: USGS PP 712-E, Journals, USGS-1543-3, USGS-1543-4

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Guadalupe Mountains, New Mexico: USGS OF 79-1520
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Nomograph for determining geologic structure: Journals (Miller and Magner)
Oasis Valley: USGS PP 712-E
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Physical properties: USGS-474-228, USGS-474-307, USGS-1543-2
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Waste Isolation Pilot Plant (WIPP): USGS OF 79-1520, SAND79-0273,
SAND79-0279, SAND79-0280, SAND79-0281,
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Waste management and related studies: USGS OF 79-235, USGS OF 79-277,
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Yucca Flat: USGS-474-262

Yucca Mountain: USGS-474-308, USGS OF 79-1244