

WM-329

UNITED STATES
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 WASTE ISOLATION PILOT PLANT SITE, NEW MEXICO,
JANUARY 1, 1980, TO DECEMBER 31, 1980

By

V. M. Glanzman

Open-File Report 81-892

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Prepared in cooperation with
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This bibliography lists reports released to the public between January 1, 1980, and December 31, 1980, 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.

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 7.

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 availability of microfiche or paper-duplicate copies of Open-File Reports may be obtained from Open-File Services Section, U.S. Geological Survey, Box 25425, Federal Center, Denver, Colorado 80225.

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

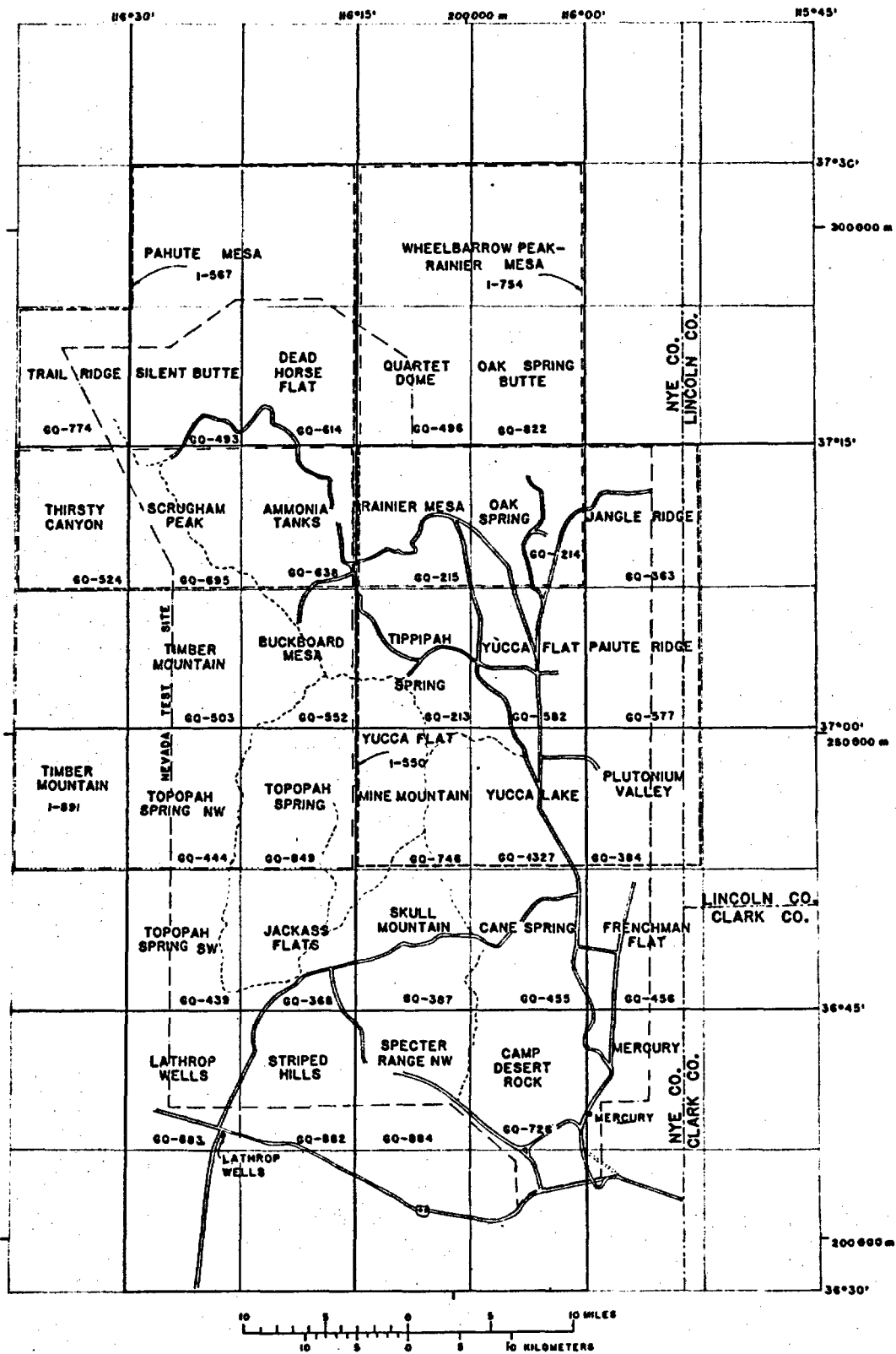


Figure 1.--Index map of Nevada Test Site showing outlines of geologic maps.

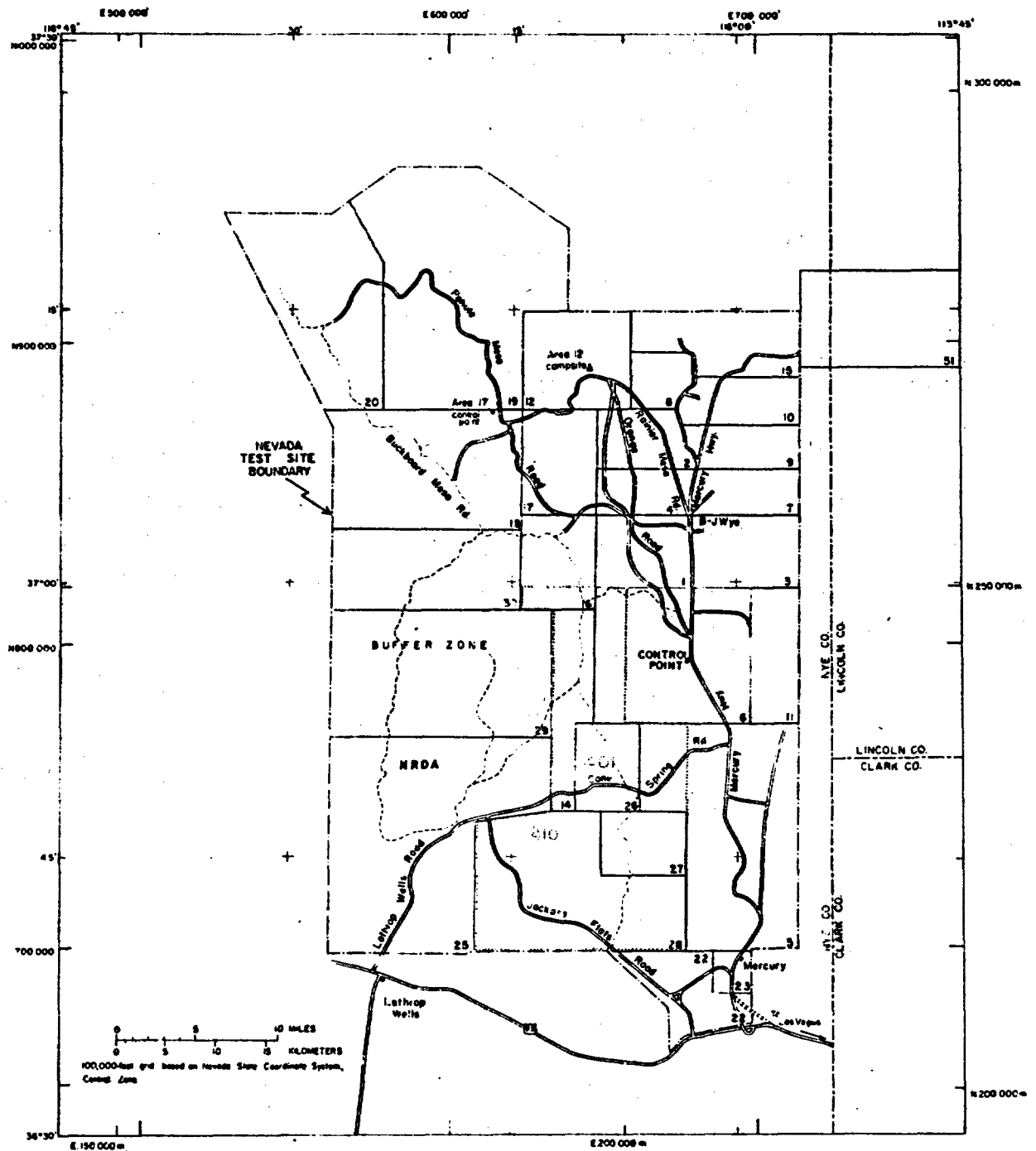


Figure 2.--Index map showing location of Nevada Test Site and outlines of numbered test areas on the test site.

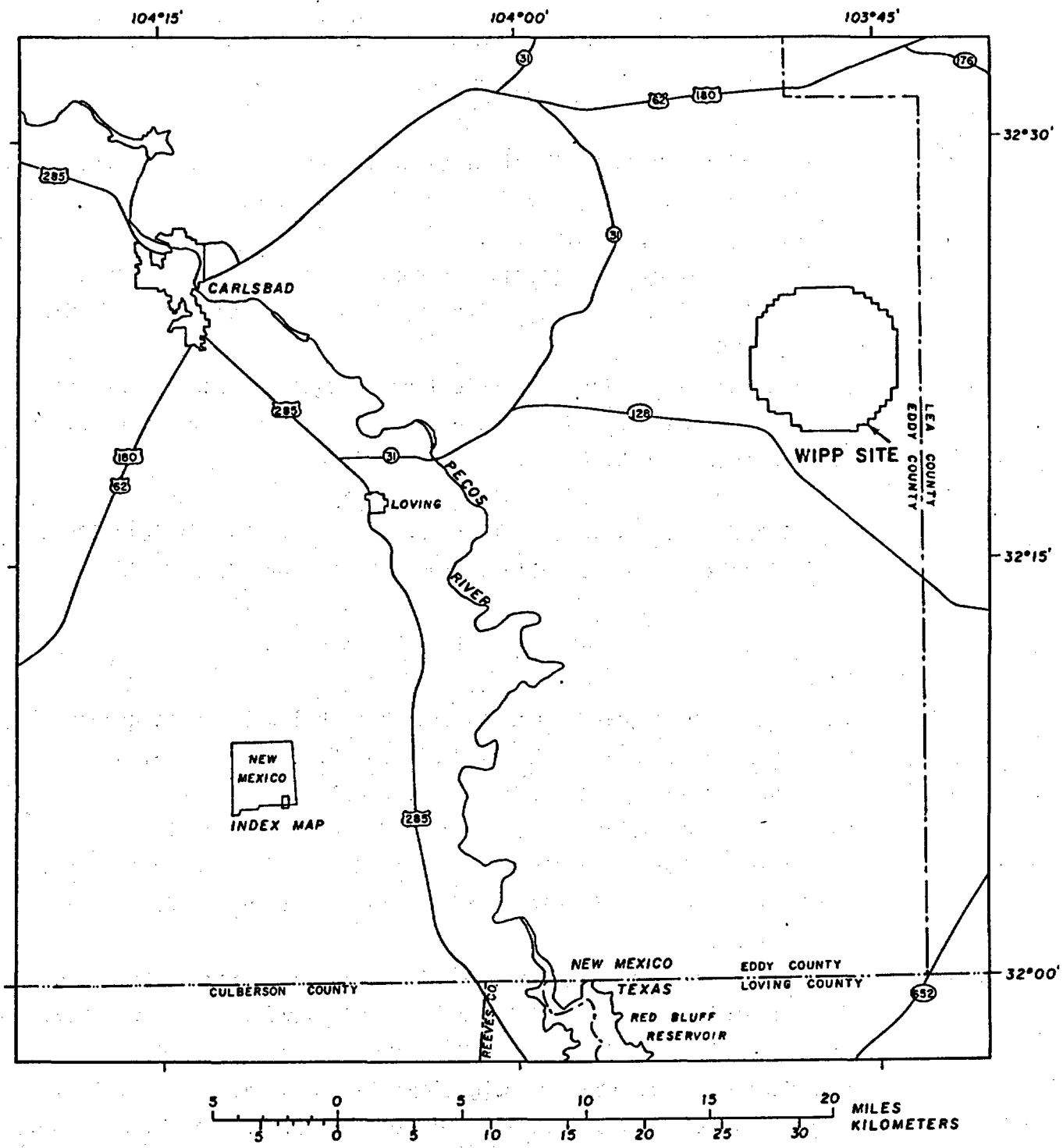


Figure 3.--Map showing location of the WIPP project site.

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USGS-474 Series

- USGS-474
-229 Geology of the U12n.02 (Midi Mist) drift, and postshot observations, Rainier Mesa, Area 12, Nevada Test Site, by J. R. Ege, Walter Danilchik, and C. T. Feazel, 21 p., 1980.
- 266 Review of geology and material property data in shallow alluvium, eastern Area 2, Nevada Test Site, by R. W. Spengler and V. M. Glanzman, 20 p., 1980.
- 309 Statistical evaluation of physical properties in Area 12, Nevada Test Site, using the USGS/DNA storage and retrieval system, by G. E. Brethauer, J. E. Magner, and D. R. Miller, 96 p., 1980.
- 310 Preliminary analysis of physical-properties data characteristics of tunnel beds 3 and 4 in a part of Areas 4 and 7, Nevada Test Site, by G. E. Brethauer, D. C. Muller, and J. E. Kibler, 77 p., 1980.

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- 80-611 Complete Bouguer gravity map of the Tonopah 1 x 2 degree quadrangle, Nevada, by D. L. Healey, R. R. Wahl, and F. E. Currey, 91 p., 1980.
- 80-817 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, by V. M. Glanzman, 22 p., 1980.
- 80-847 A vertical seismic profiling experiment to determine depth and dip of the Paleozoic surface at drill hole U10bd, Nevada Test Site, Nevada, by A. H. Balch, M. W. Lee, and D. C. Muller, 25 p., 1980.
- 80-1074 U.S. Geological Survey investigations in the U12n.03 drift, Rainier Mesa, Area 12, Nevada Test Site, Nevada, by J. R. Ege, R. D. Carroll, J. E. Magner, and D. R. Cunningham, 29 p., 1980.
- 80-1098 Compilation of results of three-dimensional stress determinations made in Rainier and Aqueduct Mesas, Nevada Test Site, Nevada, by W. L. Ellis and J. E. Magner, 27 p., 1980.

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- 1464 Stratigraphy, preliminary petrology, and some structural features of Tertiary volcanic rocks in the Gabbs Valley and Gillis Ranges, Mineral County, Nevada, by E. B. Ekren, F. M. Byers, Jr., R. F. Hardyman, R. F. Marvin, and M. L. Silberman, 54 p., 1980.
- 1478 The Pleistocene geology of Amchitka Island, Aleutian Islands, Alaska, by L. M. Gard, Jr., 38 p., 1980.

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- 1535Q The effect of dissolution of volcanic glass on the water chemistry in a volcanic aquifer, Rainier Mesa, Nevada, by A. F. White, H. C. Claassen, and Larry Benson, p. Q1-Q34, 1980.

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- Carroll, R. D., and Cunningham, M. J., Geophysical investigations in deep horizontal holes drilled ahead of tunnelling: *International Journal of Rock Mechanics and Mining Sciences*, v. 17, no. 2, p. 89-107, 1980.
- White, A. F., and Claassen, H. C., Kinetic model for the short-term dissolution of a rhyolitic glass: *Chemical Geology*, v. 28, no. 112, p. 91-109, 1980.

Administrative Series Cross Reference (474 Series)

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- 80-357 Preliminary assessment of the risk of volcanism at a proposed nuclear waste repository in the southern Great Basin, by B. M. Crowe and W. J. Carr, 15 p., 1980.
- 80-466 Resistivity sounding investigation by the Schlumberger method in the Syncline Ridge area, Nevada Test Site, Nevada, by L. A. Anderson, R. J. Bisdorf, and D. R. Schoenthaler, 54 p., 1980.
- 80-569 Paleohydrology of the southern Great Basin with special reference to water table fluctuations beneath the Nevada Test Site during the Late(?) Pleistocene, by I. J. Winograd and G. C. Doty, 91 p., 1980.
- 80-826 Analysis of thermal data from drill holes UE25a-3 and UE25a-1, Calico Hills and Yucca Mountain, Nevada Test Site, by J. H. Sass, A. H. Lachenbruch, and C. W. Mase, 25 p., 1980.
- 80-929 Preliminary interpretations of geologic results obtained from boreholes UE25a-4, -5, -6, and -7, Yucca Mountain, Nevada Test Site, by R. W. Spengler and J. G. Rosenbaum, 33 p., 1980.
- 80-941 Interpretation of geophysical well-log measurements in drill hole UE25a-1, Nevada Test Site, radioactive waste program, by J. T. Hagstrum, J. J. Daniels, and J. H. Scott, 32 p., 1980.
- 80-942 Geology of the Syncline Ridge area related to nuclear waste disposal, Nevada Test Site, Nye County, Nevada, by D. L. Hoover and J. N. Morrison, 70 p., 1980.
- 80-963 Flood potential of Topopah Wash and tributaries, eastern part of Jackass Flats, Nevada Test Site, southern Nevada, by R. C. Christensen and N. E. Spahr, 22 p., 1980.
- 80-1263 Analysis of the magnetic susceptibility well log in drill hole UE25a, Yucca Mountain, Nevada Test Site, by J. T. Hagstrum, J. J. Daniels, and J. H. Scott, 33 p., 1980.

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- SAND79-0275 Geologic data, in Basic data report for drillhole WIPP 18 (Waste Isolation Pilot Plant - WIPP), by J. L. Gonzales and C. L. Jones, p. 6-16, 1980.
- SAND79-0276 Geologic data for borehole WIPP 19, in Basic data report for drillhole WIPP 19 (Waste Isolation Pilot Plant - WIPP), by C. L. Jones and J. L. Gonzales, p. 6-25, 1980.
- SAND79-0277 Geological data for borehole WIPP 21, in Basic data report for drillhole WIPP 21 (Waste Isolation Pilot Plant - WIPP), by J. L. Gonzales and C. L. Jones, p. 6-16, 1980.
- SAND79-0278 Geologic data for borehole WIPP 22, in Basic data report for drillhole WIPP 22 (Waste Isolation Pilot Plant - WIPP), by C. L. Jones and J. L. Gonzales, p. 6-19, 1980.
- SAND79-0284 Geologic data for borehole WIPP 30, in Basic data report for drillhole WIPP 30 (Waste Isolation Pilot Plant - WIPP), by R. P. Snyder and S. L. Drellack, p. 4-19, 1980.
- SAND80-1102 Geologic data for borehole WIPP 32, in Basic data report for drillhole WIPP 32 (Waste Isolation Pilot Plant - WIPP), by R. P. Snyder and A. F. McIntyre, p. 6-26, 1980.

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- 80-879 Part I: A preliminary study of uranium-thorium systematics in dissolution residues at the top of Salado evaporites--Implications to process and time of the last vertical dissolution cycle of salt beds near the WIPP site, by B. J. Szabo and W. C. Gottschall; Part II: Uranium trend dating of surficial deposits and gypsum spring deposit near WIPP site, New Mexico, by J. N. Rosholt and C. R. McKinney, 21 p., 1980.
- 80-1099 Regional geology and Cenozoic history of Pecos Region, southeastern New Mexico, by G. O. Bachman, 116 p., 1980.

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