

**Topic category:** Geology

**Keywords:** geology, seismic refraction profiles,  
southwestern New Mexico,

**County:** Southwestern NM

**Title:** Six regionally extensive upper-crustal seismic refraction profiles in Southwest New Mexico

**Author:** Ackermann, H.D., L.W. Pankratz, D.P. Klein

**Date:** 1994

**Publication/journal/publisher:** U.S. Geological Survey, Open-File Report 94-695

**Type of document:** Electronic file (DJVU)

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <http://pubs.er.usgs.gov/usgspubs/ofr/ofr94695>

**Purchase Price:**

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/ofr/ofr94695>

**Document Location:** USGS Online

**Work initiated by:** USGS

**Work funded by:** USGS

**Type of review:**

**Location of Work:** Southwestern NM

**Abstract or brief summary:**

This report presents 790 kilometers of seismic refraction velocity sections in southwest New Mexico. Velocity structure is depicted to about 2.5 km depth. Seismic data were processed by the United States Geological Survey (USGS) from industry-acquired, reversed seismic-refraction lines using shotpoints spaced at 3.2 km, and grouped geophones at 201 m spacing. The data are on six profiles located in the region from the Mexican border northward to about 32 ° 30' N, and from the Arizona-New Mexico border eastward to the Rio Grande river.

**Topic category:** Geology

**Keywords:** Geology, magmatism, metamorphism,  
Burro Mountains, southwestern New Mexico

**County:** Southwestern NM

**Title:** Magmatism and metamorphism at 1.46 Ga in the Burro Mountains, southwestern New Mexico

**Author:** Amato, J.M., A.O. Boullion, and A.E. Sanders

**Date:** 2008

**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 59,  
Geology of the Gila Wilderness-Silver City area, 107-116.

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/59/>

**Purchase Price:** \$45.00

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/59/>

**Document Location:** Contact NMGS

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern NM

**Abstract or brief summary:**

The Burro Mountain granite and biotite-hornblende granite in the Burro Mountains make up a large plutonic complex that cuts 1.65 Ga Mazatzal province metamorphic rocks. The goals of the current study were to determine the ages of magmatism and metamorphism and the P-T conditions of metamorphism in the Burro Mountains. The authors used U-Pb zircon geochronology and electron microscope dating of monazite to determine the timing.

**Topic category:** Geology

**Keywords:** Geology, mineral resources, York Ranch, Fence Lake, Catron, Cibola

**County:** Catron County

**Title:** Geology and mineral resources of York Ranch SE quadrangle, Cibola and Catron Counties, New Mexico

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**Author:** Anderson, O.J.

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**Date:** 1986

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**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources Open File Report 220A, 22 pages.

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**Type of document:** Electronic file (PDF)

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**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/openfile/details.cfm?Volume=220A>>

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**Purchase Price:** \$10.00 for CD

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**Web site address:** [http://geoinfo.nmt.edu/publications/openfile/downloads/OFR200-299/200-225/220/ofr\\_220a.pdf](http://geoinfo.nmt.edu/publications/openfile/downloads/OFR200-299/200-225/220/ofr_220a.pdf)

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**Document Location:** NMBGMR online

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**Work initiated by:** NMBGMR

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**Work funded by:** NMBGMR

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**Type of review:** peer review

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**Location of Work:** York Ranch SE quadrangle, Cibola and Catron Counties

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**Abstract or brief summary:**

The York Ranch SE 7-1/2 min. quadrangle is located in west-central New Mexico near the intersection of three structural or physiographic elements. Major geologic features in the area consist of (1) the North Plains basalt flow, (2) the Hickman fault zone which passes along the eastern edge of the quadrangle, and (3) a northwest-trending basaltic dike of Oligocene age which enters the south-central part of the quadrangle. Detailed and reconnaissance geologic mapping was carried out on the York Ranch SE 7-1/2 min. quadrangle. The information gathered was used to complete the geologic map and coal resource assessment of the Fence Lake 1:100,000 sheet (NMBMMR Open-file 220). York Ranch SE is the southeastern most quadrangle of the Fence Lake Sheet.

**Topic category:** Geology

**Keywords:** Geology, Zuni Salt Lake, Catron

**County:** Catron County

**Title:** Geology of the Zuni Salt Lake 7 1/2 Minute Quadrangle, Catron County, New Mexico

**Author:** Anderson, O.J.

**Date:** 1994

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources Open File Report  
405, 21 pages plus 2 plates

**Type of document:** Electronic file (PDF)

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/openfile/details.cfm?Volume=405>>

**Purchase Price:** \$10.00 for CD

**Web site address:** [http://geoinfo.nmt.edu/publications/openfile/downloads/OFR400-499/400-425/405/ofr\\_405.pdf](http://geoinfo.nmt.edu/publications/openfile/downloads/OFR400-499/400-425/405/ofr_405.pdf)

**Document Location:** NMBGMR online

**Work initiated by:** NMBGMR

**Work funded by:** NMBGMR

**Type of review:** peer review

**Location of Work:** Catron County

**Abstract or brief summary:**

Provides discussion on geology and nomenclature of Salt Lake Quadrangle with detailed descriptions. Includes a composite stratigraphic column, geologic map and cross section. Provides discussion on the Salt Lake Fault and economic geology of the quadrangle.

**Topic category:** Geology  
**Keywords:** Ground Water, Southwest New Mexico  
**County:** Southwestern, NM

**Title:** Ground Water in Southwestern New Mexico

**Author:** Anonymous

**Date:** 1970

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 21,  
Tyrone-Big Hatchet Mountain-Florida Mountains Region

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**  
<http://nmgs.nmt.edu/publications/guidebooks/21/>

**Purchase Price:** \$20.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/21/>

**Document Location:** Contact NMGS

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Southwest New Mexico

**Abstract or brief summary:**

Very brief discussion of ground water resources in southwest New Mexico.

**Topic category:** Geology

**Keywords:** Geology, coal, Techado, Catron, Cibola

**County:** Catron County

**Title:** Geology and coal resources of the Techado quadrangle, Catron and Cibola Counties, New Mexico

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**Author:** Arkell, B.W.

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**Date:** 1984

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**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources, Open File Report 221, 24 pages.

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**Type of document:** Electronic file (PDF)

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**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/openfile/details.cfm?Volume=221>>

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**Purchase Price:** \$10.00 for CD

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**Web site address:** [http://geoinfo.nmt.edu/publications/openfile/downloads/OFR200-299/200-225/221/ofr\\_221.pdf](http://geoinfo.nmt.edu/publications/openfile/downloads/OFR200-299/200-225/221/ofr_221.pdf)

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**Document Location:** NMBGMR online

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**Work initiated by:** NMBGMR

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**Work funded by:** NMBGMR

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**Type of review:** Unknown

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**Location of Work:** Techado quadrangle, Catron and Cibola Counties

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**Abstract or brief summary:**

The Techado quadrangle is located in west-central New Mexico along the eastern fringe of the Salt Lake coal field, approximately 13 miles north of Quemado and 26 miles south of Gallup. This report focuses primarily on the surface geology, stratigraphy and coal resources of the Techado quadrangle. The Techado region contains Late Cretaceous and Tertiary clastic sediments belonging to the Moreno Hill, Baca and Fence Lake Formations. Coal occurs within paludal sediments of the Lower and Upper Members of the Moreno Hill Formation. Includes geologic map, cross sections and stratigraphic column.

**Topic category:** Geology

**Keywords:** Geology, Veteado Mountain, Catron, Cibola

**County:** Catron County

**Title:** Geology of Veteado Mountain quadrangle, Catron and Cibola Counties, New Mexico

**Author:** Arkell, B.W.

**Date:** 1984

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources Open File Report 222, 20 pages.

**Type of document:** Electronic file (PDF)

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/openfile/details.cfm?Volume=222>>

**Purchase Price:** \$10.00 for CD

**Web site address:** [http://geoinfo.nmt.edu/publications/openfile/downloads/OFR200-299/200-225/222/ofr\\_222.pdf](http://geoinfo.nmt.edu/publications/openfile/downloads/OFR200-299/200-225/222/ofr_222.pdf)

**Document Location:** NMBGMR online

**Work initiated by:** NMBGMR

**Work funded by:** NMBGMR

**Type of review:** Unknown

**Location of Work:** Veteado Mountain quadrangle, Catron and Cibola Counties

**Abstract or brief summary:**

The purpose of the study was to map the quadrangle in detail to obtain knowledge of stratigraphy, structure and resource potential. The Veteado Mountain 7.5 minute quadrangle is located in west-central New Mexico along the eastern perimeter of the Salt Lake coal field. Veteado Mountain quadrangle contains a series of flat-lying Cretaceous and Tertiary sediments cut by Tertiary intrusives.

**Topic category:** Geology

**Keywords:** Mississippian, Datil Plateau

**County:** West-central New Mexico

**Title:** Mississippian strata of the east side of the Datil Plateau

**Author:** Armstrong, A.K.

**Date:** 1959

**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 10, West-Central New Mexico, 52-56, Reprinted 1996.

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/10/>

**Purchase Price:** \$20.00

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/10/>

**Document Location:** Contact NMGS

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** West-Central NM

**Abstract or brief summary:**

This article discusses the Mississippian geologic history, formations, and fauna (fossils) present on the east side of the Datil Plateau.



**Topic category:** Geology

**Keywords:** Geology, Mississippian, Stratigraphy

**County:** Southwestern NM

**Title:** The Stratigraphy and Facies of the Mississippian Strata of Southwestern New Mexico

**Author:** Armstrong, A.K.

**Date:** 1965

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 16  
Southwestern New Mexico II

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/16/>

**Purchase Price:** \$12.50 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/16/>

**Document Location:** Contact NMGS

**Work initiated by:** Shell Oil Co.

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern NM

**Abstract or brief summary:**

A brief summary of the Escabrosa Group and Paradise Formation of extreme southwestern New Mexico.

**Topic category:** Geology

**Keywords:** Mississippian, Stratigraphy, Klondike Hills,  
Southwestern New Mexico

**County:** Southwestern, NM

**Title:** Mississippian Stratigraphy and Geology of the Northwestern part of the Klondike Hills,  
Southwestern New Mexico

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**Author:** Armstrong, A.K.

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**Date:** 1970

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**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 21,  
Tyrone-Big Hatchet Mountain-Florida Mountains Region

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**Type of document:** Paper in Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/21/>

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**Purchase Price:** \$20.00 for Entire Book

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/21/>

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**Document Location:** Contact NMGS

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**Work initiated by:** USGS, Menlo Park, California

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**Work funded by:**

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**Type of review:** Journal Peer Review

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**Location of Work:** Klondike Hills, Luna County

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**Abstract or brief summary:**

This paper is a preliminary report of the geology of the northwestern part of the Klondike Hills and represents an initial phase of a restudy of the outcrop area of the Mississippi carbonates, focused on petrology, facies, megafossils and microfossils, and biostratigraphy.

**Topic category:** Geology

**Keywords:** Geology, map, Peloncillo Mountains

**County:** Hidalgo County

**Title:** Geologic map of the central Peloncillo Mountains, Hidalgo County, New Mexico

**Author:** Armstrong, A.K. and M.L. Silberman

**Date:** 1974

**Publication/journal/publisher:** U.S. Geological Survey, Open-File Report 74-11, 1 map; scale = 1:24000

**Type of document:** Electronic file (DJVU)

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/ofr/ofr7411>>

**Purchase Price:** \$10.00

**Web site address:** <<http://pubs.er.usgs.gov/usgspubs/ofr/ofr7411>>

**Document Location:** USGS online

**Work initiated by:** USGS

**Work funded by:** USGS

**Type of review:** None

**Location of Work:** Hidalgo County, Peloncillo Mountains

**Abstract or brief summary:**

Geologic map of the central Peloncillo Mountains

**Topic category:** Geology  
**Keywords:** Geology, Peloncillo Mountains, Hidalgo  
**County:** Hidalgo County

**Title:** Geology of Central Peloncillo Mountains, Hidalgo County, New Mexico

**Author:** Armstrong, A.K., M.L. Silberman, V.R. Todd, W.C. Hoggatt, and R.B. Carten

**Date:** 1978

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources Circular 158, 18 pages.

**Type of document:** printed report

**Source of document / Search method (phone, internet, library, etc.):**  
NMBGMR search <<http://geoinfo.nmt.edu/publications/circulars/158/>>

**Purchase Price:** \$7.25

**Web site address:**

**Document Location:** Contact NMBGMR

**Work initiated by:** NMBGMR

**Work funded by:** NMBGMR and USGS

**Type of review:**

**Location of Work:** Central Peloncillo Mountains, Hidalgo County

**Abstract or brief summary:**

Our objectives were to provide a more detailed geologic map of the central Peloncillo Mountains than was previously available, to determine the area of the igneous rocks, to study the geochemistry of the igneous rocks and ore deposits, and to attempt to assess the future mineral potential of the region. Included are a geologic map and detailed descriptions of the petrography of the igneous rocks and their K-Ar ages as well as the history of the region. Detailed geochemical anomaly maps and assessment of mineral potential are summarized.

**Topic category:** Geology

**Keywords:** Geology, uranium

**County:** Catron County

**Title:** Reconnaissance of geology and uranium occurrences of the upper Alamosa Creek Valley, Catron County, New Mexico

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**Author:** Bachman, G.O., E.H. Baltz, and R.L. Griggs

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**Date:** 1957

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**Publication/journal/publisher:** U.S Geological Survey, Trace Elements Investigations 521, 39 p. : ill., maps ; 28 cm.

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**Type of document:** Electronic file (DJVU)

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/tei/tei521>>

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**Purchase Price:** Call for availability and price

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**Web site address:** <<http://pubs.er.usgs.gov/usgspubs/tei/tei521>>

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**Document Location:** USGS online

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**Work initiated by:** USGS

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**Work funded by:** USGS

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**Type of review:** None

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**Location of Work:** Catron County, Alamosa Creek Valley

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**Abstract or brief summary:**

Investigation to determine potentialities of the area for producing uranium and investigation of geologic controls for uranium concentrations. Study indicates that deposition of uranium was influenced by groundwater and the concentration of uranium was controlled by variations in permeability of the aquifers and minor structural features.

**Topic category:** Geology

**Keywords:** Geology, Knight Peak, Grant

**County:** Grant County

**Title:** Geology of the Knight Peak Area, Grant County, New Mexico

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**Author:** Ballman, D.L.

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**Date:** 1960

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**Publication/journal/publisher:** New Mexico Bureau of Geology and Mineral Resources, Bulletin 70, 39 pages.

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**Type of document:** Printed report

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**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/bulletins/70/>>

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**Purchase Price:** \$4.25

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**Web site address:**

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**Document Location:** Contact NMBGMR

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**Work initiated by:**

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Knight Peak area, Grant County

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**Abstract or brief summary:**

This project has as its purpose the investigation of the structure and stratigraphy of the Knight Peak area. Special emphasis has been placed upon deciphering the Tertiary volcanic history of the area. For this study of the geology of the Knight Peak area, geologic features were plotted on uncontrolled aerial photographs taken in 1946 and available through the Soil Conservation Service of the U.S. Department of Agriculture. This information was later projected onto the Grant County highway map. Precambrian granite, intruded by dikes of Precambrian diabase, is present on the northeast and southwest sides of the Knight Peak area.

**Topic category:** Geology

**Keywords:** Geology, Santa Rita, Southwest

**County:** Southwestern NM

**Title:** Geology of the Santa Rita Area, New Mexico

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**Author:** Ballmer, G.J.

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**Date:** 1953

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**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 4, Southwestern New Mexico, 130-131. Reprinted 1996.

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**Type of document:** Paper in Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/4/>

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**Purchase Price:** \$20.00

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/4/>

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**Document Location:** Contact NMGS

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**Work initiated by:**

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**Work funded by:**

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**Type of review:** Journal Peer Review

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**Location of Work:** Southwestern NM

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**Abstract or brief summary:**

This article briefly discusses the geologic history, mineralization, enrichment, and alteration of geology in the Santa Rita area.

**Topic category:** Geology

**Keywords:** Geology, Mineral deposits, Gold Hills, Hidalgo, grant

**County:** Grant and Hidalgo Counties

**Title:** Geology and mineral deposits of the Gold Hills, Hidalgo and Grant counties, New Mexico

**Author:** Beard, R.D., D.G. Brookins, J.L. Persico, and D.G. Brookins

**Date:** 1988

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 39, Cretaceous and Laramide Tectonic Evolution of Southwestern New Mexico

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/39/>

**Purchase Price:** \$10.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/39/>

**Document Location:** Contact NMGS

**Work initiated by:** University of New Mexico, Dept. of Geology

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Hidalgo and Grant

**Abstract or brief summary:**

The Gold Hills consist principally of Precambrian supracrustal and intrusive rocks.



**Topic category:** Geology

**Keywords:** Geology, map, Eagle Peak

**County:** Catron County

**Title:** Preliminary geologic map of the Eagle Peak quadrangle, Catron County, New Mexico

**Author:** Bove, D.J.

**Date:** 1990

**Publication/journal/publisher:** U.S. Geological Survey, Open-File Report 90-546, 1 map :photocopy ;58 x 48 cm., on sheet 91 x 113 cm.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/ofr/ofr90546>>

**Purchase Price:** \$10.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/ofr/ofr90546>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:** USGS

**Type of review:** Unknown

**Location of Work:** Eagle Peak quadrangle, Catron County

**Abstract or brief summary:**

Preliminary geologic map of the Eagle Peak quadrangle

**Topic category:** Geology  
**Keywords:** Luna, Granite Hill  
**County:** Luna County

**Title:** The geology of Granite Hill, Luna County, New Mexico

**Author:** Broderick, J.C.

**Date:** 1984

**Publication/journal/publisher:** M.S. Thesis, University of Texas, El Paso, Texas, 90 p.

**Type of document:** Book

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search

**Purchase Price:**

**Web site address:**

**Document Location:** NMBGMR GIC

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Luna County

**Abstract or brief summary:**

**Topic category:** Geology

**Keywords:** Geology, map, Cedar Mountains

**County:** Grant and Luna Counties

**Title:** Reconnaissance geologic map of the Cedar Mountains, Grant and Luna Counties, New Mexico

**Author:** Bromfield, C.S. and C.T. Wrucke

**Date:** 1961

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map MF-159, 1 map.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf159>>

**Purchase Price:** not available

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf159>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:** Unknown

**Location of Work:** Grant and Luna Counties

**Abstract or brief summary:**

Reconnaissance geologic map of the Cedar Mountains

**Topic category:** Geology

**Keywords:** Geology, map, Bear Mountain

**County:** Grant County

**Title:** Geologic map of Bear Mountain Quadrangle, Grant County, New Mexico

**Author:** Brooks, W.E. and J.C. Ratte

**Date:** 1985

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map MF-1782, 1 map; 58 x 49 cm., on sheet 75 x 75 cm., folded in envelope 25 x 32 cm.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1782>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1782>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:** Unknown

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of Bear Mountain Quadrangle

**Topic category:** Geology  
**Keywords:** Luna, Mahoney mine, Gym Peak  
**County:** Luna County

**Title:** Geology of the Mahoney mine-Gym Peak area, Luna County, New Mexico

**Author:** Brown, G.A.

**Date:** 1982

**Publication/journal/publisher:** M.S. Thesis, New Mexico State University, Las Cruces, New Mexico, 92 p.

**Type of document:** Book

**Source of document / Search method (phone, internet, library, etc.):**  
NMBGMR search

**Purchase Price:**

**Web site address:**

**Document Location:** NMBGMR GIC

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Luna County

**Abstract or brief summary:**

**Topic category:** Geology

**Keywords:** Geology, Florida Mountains

**County:** Southwestern NM

**Title:** Florida Mountains section of southwest New Mexico overthrust belt--A re-evaluation

**Author:** Brown, G.A. and R.E. Clemons

**Date:** 1983

**Publication/journal/publisher:** New Mexico Geology v. 5, no. 2, p. 26-28.

**Type of document:** Journal Article

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search

<<http://geoinfo.nmt.edu/publications/search/Results.cfm?Code=V5%2E2NMG&NoForm=TRUE>>

**Purchase Price:** \$4.00

**Web site address:**

**Document Location:** NMBGMR GIC

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Southwest NM

**Abstract or brief summary:**

**Topic category:** Geology  
**Keywords:** Soil survey, Gila  
**County:**

**Title:** Soil Survey of the Upper Gila Valley Area, Arizona

**Author:** Bureau of Chemistry and Soils

**Date:** 1994

**Publication/journal/publisher:** U.S. Department of Agriculture Soil Conservation Service, in cooperation with U.S. Department of Interior, Bureau of Land Management, and the New Mexico Agricultural Experiment Station

**Type of document:** Book

**Source of document / Search method (phone, internet, library, etc.):**

University of Arizona Library

<http://sabio.library.arizona.edu/search~S9?/tU.S.+Bureau+of+Chemistry+and+Soils.+%5BSoil+survey+r/tu+s+bureau+of+chemistry+and+soils+soil+survey+report+series+1933+no+++15/-3%2C-1%2C0%2CB/frameset&FF=tu+s+bureau+of+chemistry+and+soils+soil+survey+report+series+1933+no+++15&1%2C1%2C>

**Purchase Price:** Unknown

**Web site address:** [http://soils.usda.gov/survey/printed\\_surveys/state.asp?state=Arizona&abbr=AZ](http://soils.usda.gov/survey/printed_surveys/state.asp?state=Arizona&abbr=AZ)

**Document Location:** UofA Library

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Upper Gila Valley

**Abstract or brief summary:**

**Topic category:** Geology

**Keywords:** Geology, mining, Fence Lake,  
Environmental Impact Statement

**County:** Catron County

**Title:** Final Environmental Impact Statement Fence Lake Project

**Author:** Bureau of Land Management

**Date:** 1990

**Publication/journal/publisher:** United States Department of the Interior, Bureau of Land Management,  
Las Cruces District Office, Socorro Resource Area

**Type of document:** Printed report

**Source of document / Search method (phone, internet, library, etc.):**

U.S. Department of the Interior, Office of Surface Mining

**Purchase Price:** Contact BLM

**Web site address:**

**Document Location:** DBS&A project file

**Work initiated by:** BLM

**Work funded by:**

**Type of review:** Agency Review

**Location of Work:** Catron and Cibola Counties, NM

**Abstract or brief summary:**

The Salt River Project Agricultural Improvement and Power District (SRP) has applied for a federal coal lease on 6,840 acres near Fence Lake in Catron County and Cibola County, NM. SRP is applying for the federal coal lease in order to acquire a logical mining unit comprised of state-leased, private, and federal-leased coal lands.



**Topic category:** Geology

**Keywords:** Geology, Upper Gila River Project, Alma Dam, Reserve Dam, Camelback Dam

**County:** Grant County

**Title:** Upper Gila River Project Regional Geology, Geology of Alma Dam and Reservoir Site, Geology of Reserve Dam and Reservoir Site, and Geology of Camelback Dam and Reservoir Site

**Author:** Bureau of Reclamation

**Date:** 1971

**Publication/journal/publisher:** U.S. Bureau of Reclamation, Phoenix Development Office

**Type of document:** Report

**Source of document / Search method (phone, internet, library, etc.):**

BOR Phoenix Area Office Library

**Purchase Price:**

**Web site address:**

**Document Location:**

**Work initiated by:** U.S. BOR

**Work funded by:** U.S. BOR

**Type of review:** Unknown

**Location of Work:** Upper Gila River Basin

**Abstract or brief summary:**

This document discusses the regional geology, damsite geology, engineering geology, reservoir conditions, water holding evaluation, construction materials, and highway relocation for the Alma Dam and Reservoir site, the foundation conditions, excavation requirements, spillway, reservoir, and spillway materials for the Reserve Dam and Reservoir site, and the damsite, reservoir, and construction materials for the Camelsback Dam and Reservoir Site.

**Topic category:** Geology

**Keywords:** Geology, Basin and Range, Southwest

**County:** Southwestern NM

**Title:** Basin and Range Structure in Southwestern New Mexico

**Author:** Callaghan, E.

**Date:** 1953

**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 4, Southwestern New Mexico, 116. Reprinted 1996.

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/4/>

**Purchase Price:** \$20.00

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/4/>

**Document Location:** Contact NMGS

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern NM

**Abstract or brief summary:**

This article briefly and generally discusses the Basin and Range structure in Southwestern New Mexico.

**Topic category:** Geology

**Keywords:** Geology, Volcanic Rocks, Southwest

**County:** Southwestern NM

**Title:** Volcanic Rocks of Southwestern New Mexico

**Author:** Callaghan, E.

**Date:** 1953

**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 4, Southwestern New Mexico, 143-144. Reprinted 1996.

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/4/>

**Purchase Price:** \$20.00

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/4/>

**Document Location:** Contact NMGS

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern NM

**Abstract or brief summary:**

This article discusses the relation, age, and abundance of the various units of volcanic rocks in Southwestern New Mexico.

**Topic category:** Geology

**Keywords:** Geology, Fence Lake, Catron, Cibola, coal

**County:** Catron County

**Title:** Geology and coal resources of the Fence Lake 1:50,000 quadrangle, Catron and Cibola Counties, New Mexico

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**Author:** Campbell, F.W. and G.H. Roybal

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**Date:** 1984

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**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources, Open File Report 207, 37 pages.

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**Type of document:** Electronic file (PDF)

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**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/openfile/details.cfm?Volume=207>>

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**Purchase Price:** \$10.00 for CD

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**Web site address:** [http://geoinfo.nmt.edu/publications/openfile/downloads/OFR200-299/200-225/207/ofr\\_207.pdf](http://geoinfo.nmt.edu/publications/openfile/downloads/OFR200-299/200-225/207/ofr_207.pdf)

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**Document Location:** NMBGMR online

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**Work initiated by:** NMBGMR

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**Work funded by:** NMBGMR

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**Type of review:** Unknown

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**Location of Work:** Fence Lake 1:50,000 quadrangle, Catron and Cibola Counties

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**Abstract or brief summary:**

The purpose of this report is to evaluate the geology, structure, and the quality and quantity of coal beds in this part of the Salt Lake coal field. Includes a generalized geologic column.

**Topic category:** Geology

**Keywords:** Geology, Mogollon, Datil, volcanic

**County:** Southwestern NM

**Title:** Stress and volcanism in the northern Mogollon-Datil volcanic field, New Mexico: Effects of the post-Laramide tectonic transition

**Author:** Carther, S.M.

**Date:** 1990

**Publication/journal/publisher:** GSA Bulletin; November 1990; v. 102; no. 11; p. 1447-1458, © 1990 Geological Society of America

**Type of document:** Journal Article

**Source of document / Search method (phone, internet, library, etc.):**

<http://bulletin.geoscienceworld.org/cgi/content/abstract/102/11/1447>

**Purchase Price:** \$35.00

**Web site address:** <http://bulletin.geoscienceworld.org/cgi/content/abstract/102/11/1447>

**Document Location:** online

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern NM

**Abstract or brief summary:**

The tectonic transition between Laramide crustal shortening and mid-Tertiary extension occurred during Datil Group (upper Eocene-lower Oligocene) volcanism in the northern Mogollon-Datil field, New Mexico. Lithospheric stress regimes provided a common link between tectonism and volcanism during Datil time. Tectonic compression during Laramide crustal shortening prevented dike propagation on a regional scale. Tectonic tension began about 36 Ma in west-central New Mexico, allowing widespread dike propagation. Upper Datil basaltic andesite melts, which were more dense than parts of the continental crust, were able to ascend via dike propagation because dikes have sufficient vertical extent to derive buoyancy from "roots" in the dense upper mantle or lower crust. Crustal melting caused by widespread intrusion of mafic dikes may have produced the silicic mode of late Datil volcanism.

**Topic category:** Geology

**Keywords:** Geology, Quemado, Catron

**County:** Catron County

**Title:** Reconnaissance geologic map of the Quemado 30 x 60 Minute Quadrangle, Catron County, New Mexico

**Author:** Chamberlin, R.M., S.M. Cather, O.J. Anderson, and G.E. Jones

**Date:** 1994

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources, Open-file Report 406, 31 p.

**Type of document:** Electronic file (PDF)

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/openfile/details.cfm?Volume=406>>

**Purchase Price:** \$10.00 for CD

**Web site address:** [http://geoinfo.nmt.edu/publications/openfile/downloads/OFR400-499/400-425/406/ofr\\_406.pdf](http://geoinfo.nmt.edu/publications/openfile/downloads/OFR400-499/400-425/406/ofr_406.pdf)

**Document Location:** NMBGMR online

**Work initiated by:** NMBGMR

**Work funded by:** NMBGMR

**Type of review:** peer review

**Location of Work:** Quemado quadrangle, Catron County

**Abstract or brief summary:**

The Quemado 30 x 60 minute quadrangle, hereafter referred to as the Quemado sheet, is located in northern Catron County in west-central New Mexico. Our recent reconnaissance mapping of the Quemado sheet (1991-1993) was undertaken to provide new geologic data commensurate with that being used to prepare a digital geologic map of New Mexico (Anderson and Jones, 1994). A colored copy of the Quemado sheet is available for inspection at the New Mexico Bureau of Mines and Mineral Resources. Hydrologic data sets in combination with regional stratigraphic relationships suggest that the Cenozoic stratigraphic section may be divided into four regional hydrostratigraphic units. From oldest to youngest these units are: (1) Paleogene sedimentary rocks, (2) lower Spears Group, (3) middle and upper Spears Group plus intercalated volcanic rocks of the Datil and Mogollon groups, and (4) late Cenozoic surficial alluvial deposits.

**Topic category:** Geology

**Keywords:** Cenozoic, volcanism, southwestern NM,

**County:** Southwestern, NM

**Title:** The late Eocene-Oligocene peak of Cenozoic volcanism in southwestern New Mexico

**Author:** Chapin, C.E, W.C. McIntosh, and R.M. Chamberlin

**Date:** 2004

**Publication/journal/publisher:** New Mexico Geological Society Special Publication 11, The Geology of New Mexico: A Geologic History

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

**Purchase Price:**

**Web site address:**

**Document Location:**

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Southwestern, NM

**Abstract or brief summary:**

In this paper we review the construction of the huge middle Tertiary volcanic fields that blanketed southwestern New Mexico.

**Topic category:** Geology

**Keywords:** Petrography, Stratigraphy, Seville-Trident, Geology, Deming, exploration wells

**County:** Luna County

**Title:** Petrography and stratigraphy of Seville-Trident exploration wells near Deming, New Mexico

**Author:** Clemens, R.E.

**Date:** 1986

**Publication/journal/publisher:** New Mexico Geology v. 8, no. 1, p. 5-9, 11.

**Type of document:** Journal Article

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search

<<http://geoinfo.nmt.edu/publications/search/Results.cfm?Code=V8%2E1NMG&NoForm=TRUE>>

**Purchase Price:** \$4.00

**Web site address:**

**Document Location:** NMBGMR

**Work initiated by:** Seville-Trident Corp., NMBGMR

**Work funded by:** NMBGMR, NMSU

**Type of review:** Journal Peer Review

**Location of Work:** Luna County

**Abstract or brief summary:**

Petrographic analyses of cuttings from four wilcat oil and gas exploration wells drilled by Seville-Trident Corp. near Deming, New Mexico, from 1981 to 1983 are reported. Thickness of upper Tertiary-Quaternary basin fill southeast of Deming is interpreted to be about 4,000 ft. Basin-fill sediments overlie about 5,000 ft of Miocene-Oligocene volcanoclastic rocks and ash-flow tuffs. The Miocene-Oligocene rocks overlie up to 3,600 ft of Rubio Peak Formation (Eocene), which is intruded by a fine-crystalline quartz monzonite. Total depth of cuttings from the the 5 exploration holes ranged from 4,225 to 12,430 ft. All were completed as dry holes and no shows of oil or gas were found.



**Topic category:** Geology

**Keywords:** Petrography, exploration well log

**County:** Southwestern NM

**Title:** Petrographic and well log analysis of four exploration wells in southwestern New Mexico

**Author:** Clemens, R.E. and T.F. Lawton

**Date:** 1991

**Publication/journal/publisher:** New Mexico Bureau of Mine and Mineral Resources, Socorro, New Mexico. Open file report 381, p. 98

**Type of document:** Electronic file (PDF)

**Source of document / Search method (phone, internet, library, etc.):**  
NMBGMR search

**Purchase Price:** \$10.00

**Web site address:** [http://geoinfo.nmt.edu/publications/openfile/downloads/OFR300-399/376-399/381/ofr\\_381.pdf](http://geoinfo.nmt.edu/publications/openfile/downloads/OFR300-399/376-399/381/ofr_381.pdf)

**Document Location:** NMBGMR online

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Southwestern NM

**Abstract or brief summary:**

Report documents analysis of 4 oil and gas exploration well logs and cutting that were located in Grant (1), Hidalgo (1), and Luna (2) counties. The purpose of the study was to 1) identify Cretaceous and Tertiary units, 2) determine thickness changes, 3) provide additional data on lithology, 4) interpret Laramide deformation, and 5) provide additional data for Paleozoic rocks of the Florida-Burro uplift.

**Topic category:** Geology

**Keywords:** Geology, Good Sight Mountains, Uvas Valley

**County:** Luna County

**Title:** Geology of Good Sight Mountains and Uvas Valley, southwest New Mexico

**Author:** Clemons, R.E.

**Date:** 1979

**Publication/journal/publisher:** Circular 169, New Mexico Bureau of Mines and Mineral Resources, A Division of New Mexico Institute of Mining & Technology

**Type of document:** Printed report

**Source of document / Search method (phone, internet, library, etc.):**

<http://geoinfo.nmt.edu/publications/circulars/169/home.cfm>

**Purchase Price:** \$8.50

**Web site address:** <http://geoinfo.nmt.edu/publications/circulars/169/home.cfm>

**Document Location:** Contact NMBGMR

**Work initiated by:** NMBGMR

**Work funded by:** NMBGMR

**Type of review:** Agency Review

**Location of Work:** NE Luna County, NW Dona Ana County, and SW Sierra County

**Abstract or brief summary:**

Describes the 435 mi<sup>2</sup> area of the Good Sight Mountains and the Uvas Valley in Luna, Doña Ana, and Sierra Counties, New Mexico; the geologic map covers the western part of the Good Sight-Cedar Hills volcano-tectonic depression of Oligocene age.

**Topic category:** Geology

**Keywords:** Geology, Florida Gap, Luna, Florida Mountains

**County:** Luna County

**Title:** Geology of Florida Gap quadrangle, Luna County, New Mexico

**Author:** Clemons, R.E.

**Date:** 1982

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources Geological Map 52. Scale 1:24,000.

**Type of document:** Map sheet

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search

<<http://geoinfo.nmt.edu/publications/search/Results.cfm?Code=GM00052&NoForm=TRUE>>

**Purchase Price:** \$6.00

**Web site address:** <http://geoinfo.nmt.edu/publications/maps/geologic/gm/52/>

**Document Location:** NMBGMR GIC

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Florida Gap quadrangle, Luna County

**Abstract or brief summary:**

Florida Gap quadrangle is in east-central Luna County, approximately 6 mi east-southeast of Deming and covers the Lewis Flats area of the Mimbres Basin, Rock Hound State Park, and Florida Gap which separates the Little Florida Mountains from the Florida Mountains. This map is the first phase of a comprehensive geologic and mineral-resource investigation of the Florida Mountains; other quadrangles mapped are Capitol Dome (GM 56), South Peak (GM 59), and Gym Peak (GM 58). There is also a comprehensive work printed in 1998, Memoir 43.

**Topic category:** Geology

**Keywords:** Geology, Massacre Peak, Luna, Cooke's Range

**County:** Luna County

**Title:** Geology of Massacre Peak quadrangle, Luna County, New Mexico

**Author:** Clemons, R.E.

**Date:** 1982

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources Geological Map 51. Scale 1:24,000.

**Type of document:** Map sheet

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search

<<http://geoinfo.nmt.edu/publications/search/Results.cfm?Code=GM00051&NoForm=TRUE>>

**Purchase Price:** \$6.00

**Web site address:** <http://geoinfo.nmt.edu/publications/maps/geologic/gm/51/>

**Document Location:** NMBGMR GIC

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Massacre Peak quadrangle, Luna County

**Abstract or brief summary:**

Massacre Peak quadrangle is in north-central Luna county about 8 mi north-northeast of Deming. The Cooke's Spring Station of the Butterfield Trail was near Fort Cummings about a mile south of the Hyatt Ranch in the northeastern part of the quadrangle. The southern Cooke's Range crosses the quadrangle from northwest to southeast, covering about half the area. Starvation Draw separates Cooke's Range from Pony Hills and Fluorite Ridge in the southwestern part of the area. Elevations range from 4,560 ft along the southern edge to 5,655 ft on Fluorite Ridge, 5,667 ft on Massacre Peak, and 6,780 ft on Rattlesnake (formerly Sarten) Ridge near the northwest corner of the map.

**Topic category:** Geology

**Keywords:** Geology, Capital Dome, Luna, Florida Mountains

**County:** Luna County

**Title:** Geology of Capital Dome quadrangle, Luna County, New Mexico

**Author:** Clemons, R.E.

**Date:** 1984

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources Geological Map 56. Scale 1:24,000.

**Type of document:** Map sheet

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search

<<http://geoinfo.nmt.edu/publications/search/Results.cfm?Code=GM00056&NoForm=TRUE>>

**Purchase Price:** \$6.25

**Web site address:** <http://geoinfo.nmt.edu/publications/maps/geologic/gm/56/>

**Document Location:** NMBGMR GIC

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Capital Dome quadrangle, Luna County

**Abstract or brief summary:**

Capitol Dome quadrangle is in east-central Luna County, immediately southeast of Deming. NM-11 from Deming to Columbus parallels the edge of the quadrangle 0.1 mi (0.15 km) west of the quadrangle boundary. The northwest end of the Florida Mountains occupies the extreme southeast corner of the Capitol Dome quadrangle and accounts for the highest elevation (7,100 ft; 2,164 m) in the quadrangle. Pediment and alluvial fans extend northwest into the Mimbres Basin. The northwest half of the quadrangle with elevations between 4,220 and 4,320 ft (1,286-1,317 m) is in the western Mimbres Basin.

**Topic category:** Geology

**Keywords:** Luna, Geology, South Peak, Florida Mountains

**County:** Luna County

**Title:** Geology of South Peak quadrangle, Luna County, New Mexico

**Author:** Clemons, R.E.

**Date:** 1985

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources Geological Map 59. Scale 1:24,000.

**Type of document:** Map sheet

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search

<<http://geoinfo.nmt.edu/publications/search/Results.cfm?Code=GM00059&NoForm=TRUE>>

**Purchase Price:** \$6.75

**Web site address:** <http://geoinfo.nmt.edu/publications/maps/geologic/gm/59/>

**Document Location:** NMBGMR GIC

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** South Peak quadrangle, Luna County

**Abstract or brief summary:**

South Peak quadrangle is one of four conterminous 7½-minute quadrangles mapped in the Florida Mountains in east-central Luna County. South Peak quadrangle is in east-central Luna County, approximately 12 mi southeast of Deming. Good access to the base of the Florida Mountains is provided by gravel roads and jeep trails leading eastward from NM-11, which crosses the southeast part of the quadrangle about midway between Deming and Columbus. The Nathan Crawford Ranch headquarters and several permanent dwellings are in the north-central to northwest parts of the quadrangle.

**Topic category:** Geology  
**Keywords:** Geology, Florida Mountains  
**County:** Southwestern NM

**Title:** Geology of the Florida Mountains, Southwestern New Mexico

**Author:** Clemons, R.E.

**Date:** 1998

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources Memoir 43. p. 113.

**Type of document:** Printed report

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/memoirs/43/>>

**Purchase Price:** \$35.00

**Web site address:**

**Document Location:** NMBGMR GIC

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Florida Mountains, Southwest NM

**Abstract or brief summary:**

The Florida Mountains are an eastward-tilted Basin and Range fault block approximately 24 km (15 mi) southeast of Deming. Rather than hold all the data until completion of mapping and laboratory studies, several progress reports and four geologic maps (GM-52, GM-58, GM-56, and GM-59) were published previously. Terminology, interpretation, and ideas in this report represent revisions from Clemons' earlier publications.

**Topic category:** Geology

**Keywords:** Geology, Gym Peak, Floridate Mountains,  
Luna

**County:** Luna County

**Title:** Geology of Gym Peak quadrangle, Luna County, New Mexico

**Author:** Clemons, R.E. and G.A. Brown

**Date:** 1983

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources Geological Map  
58. Scale 1:24,000.

**Type of document:** Map sheet

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search

<<http://geoinfo.nmt.edu/publications/search/Results.cfm?Code=GM00058&NoForm=TRUE>>

**Purchase Price:** \$6.00

**Web site address:** <http://geoinfo.nmt.edu/publications/maps/geologic/gm/58/>

**Document Location:** NMBGMR GIC

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Gym Peak quadrangle, Luna County

**Abstract or brief summary:**

Gym Peak quadrangle is in east-central Luna County, approximately 15-mi southeast of Deming. The southeast part of the Florida Mountains occupies the northwest third of the Gym Peak quadrangle. Pediment and alluvial fans extend eastward and southward into the Columbus section of the eastern Mimbres Basin. Elevations range from 4,010 ft, in the southeast corner of the quadrangle, to 7,166 ft on Gym Peak and 7,448 ft on Florida Peak.



**Topic category:** Geology

**Keywords:** Geology, Southwestern New Mexico

**County:** Southwestern, NM

**Title:** Geology of Southwestern New Mexico

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**Author:** Clemons, R.E. and G.H. Mack

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**Date:** 1988

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**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 39, Cretaceous and Laramide Tectonic Evolution of Southwestern New Mexico, p. 45-57.

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**Type of document:** Paper in Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/39/>

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**Purchase Price:** \$10.00 for Entire Book

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/39/>

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**Document Location:** Contact NMGS

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**Work initiated by:** New Mexico State University

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**Work funded by:**

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**Type of review:** Journal Peer Review

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**Location of Work:** Southwestern, NM

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**Abstract or brief summary:**

Rocks exposed in southwestern New Mexico range from Precambrian to Recent, with all systems except Triassic and Jurassic represented.

**Topic category:** Geology

**Keywords:** Geology, coal, Mariano Springs, Catron

**County:** Catron County

**Title:** Geology and coal resources of the Mariano Springs quadrangle, Catron County, New Mexico

**Author:** Cook, K.H. and B. Arkell

**Date:** 1987

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources, Open File Report 326, 18 pages.

**Type of document:** Electronic file (PDF)

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/openfile/details.cfm?Volume=326>>

**Purchase Price:** \$10.00 for CD

**Web site address:** [http://geoinfo.nmt.edu/publications/openfile/downloads/OFR300-399/326-350/326/ofr\\_326.pdf](http://geoinfo.nmt.edu/publications/openfile/downloads/OFR300-399/326-350/326/ofr_326.pdf)

**Document Location:** NMBGMR online

**Work initiated by:** NMBGMR, USGS

**Work funded by:** NMBGMR

**Type of review:** Unknown

**Location of Work:** Mariano Springs quadrangle, Catron County

**Abstract or brief summary:**

The Mariano Springs quadrangle is located in west-central New Mexico, approximately 3 mi north of Quemado. The purpose of the project was to map the Mariano Springs quadrangle in detail, in order to obtain an understanding of the stratigraphy, structure, and coal-resource potential in the area. The Mariano Springs quadrangle contains Cretaceous and Tertiary clastic sedimentary rocks that belong to the Moreno Hill, Baca, Spears, and Fence Lake Formations. Contains geologic map and cross sections.

**Topic category:** Geology

**Keywords:** Triassic, stratigraphy, west-central New Mexico

**County:** West-central New Mexico

**Title:** Triassic stratigraphy in the state line region of west-central New Mexico and east-central Arizona

**Author:** Cooley, M.E.

**Date:** 1959

**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 10, West-Central New Mexico, 66-73. Reprinted 1996.

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/10/>

**Purchase Price:** \$20.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/10/>

**Document Location:** Contact NMGS

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** West-Central NM

**Abstract or brief summary:**

This article provides a detailed discussion of the Triassic stratigraphy of West-central New Mexico and East-central Arizona, including the various formations, unconformities, and stratigraphic relationships.

**Topic category:** Geology

**Keywords:** Faults, Florida Mountains, Regional  
Tectonics

**County:**

**Title:** Thrust Fault of Eocene Age of Baca Formation, New Mexico

**Author:** Corbitt, L.L. and L.A. Woodward

**Date:** 1970

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 21,  
Tyrone-Big Hatchet Mountain-Florida Mountains Region

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/21/>

**Purchase Price:** \$20.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/21/>

**Document Location:** Contact NMGS

**Work initiated by:** University of New Mexico

**Work funded by:** Forest Oil Corporation

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern, NM

**Abstract or brief summary:**

The internal structures within the mountains are the primary focus of this report. Majority of the report is based on a PhD dissertation at the University of New Mexico by Corbitt.

**Topic category:** Geology

**Keywords:** Geology, map, Zuni Salt Lake, Volcanic

**County:** Catron County

**Title:** Geologic map of the Zuni Salt Lake volcanic crater, Catron County, New Mexico

**Author:** Cummings, D.

**Date:** 1968

**Publication/journal/publisher:** U.S Geological Survey, IMAP 544, 1 map :col. ;59 x 51 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/i/i544>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/i/i544>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:** Unknown

**Location of Work:** Catron, Zuni Salt Lake

**Abstract or brief summary:**

Geologic map of the Zuni Salt Lake volcanic crater

**Topic category:** Geology

**Keywords:** Geology, Circle Mesa, Grant

**County:** Grant County

**Title:** Geology of the Circle Mesa 7 ½-minute quadrangle, Grant County, New Mexico

**Author:** Cunningham, J.

**Date:** 1997

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources, Open File Report 435, 20 pages.

**Type of document:** Electronic file (PDF)

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/openfile/details.cfm?Volume=435>>

**Purchase Price:** \$10.00

**Web site address:** [http://geoinfo.nmt.edu/publications/openfile/downloads/OFR400-499/426-450/435/ofr\\_435.pdf](http://geoinfo.nmt.edu/publications/openfile/downloads/OFR400-499/426-450/435/ofr_435.pdf)

**Document Location:** NMBGMR online

**Work initiated by:** Western NM University

**Work funded by:** NMBGMR

**Type of review:** peer review

**Location of Work:** Circle Mesa quadrangle, Grant County

**Abstract or brief summary:**

The Circle Mesa Quadrangle lies near the center of Grant County in southwestern New Mexico. Report provides discussion on the stratigraphy, structure, and mineral resources of the area. The major physiographic features of the quadrangle trend northwest, and are, from southwest to northeast, the eastern edge of the Big Burro Mountains, the Mangas Valley, and the Silver City Range, with its northern and topographically lower extension of LS and Circle mesas. The Circle Mesa map is an outgrowth of the mapping of the Silver City Quadrangle to the east (Cunningham, 1974), since many of the rocks and structures encountered there extend into the Circle Mesa area.

**Topic category:** Geology

**Keywords:** Tres Hermanos sandstone, Mancos shale

**County:** West-central New Mexico

**Title:** Historical background of the type locality of the Tres Hermanos sandstone member of the Mancos shale

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**Author:** Dane, C.H.

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**Date:** 1959

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**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 10, West-Central New Mexico, 85-91. Reprinted 1996.

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**Type of document:** Paper in Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/10/>

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**Purchase Price:** \$20.00

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/10/>

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**Document Location:** Contact NMGS

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**Work initiated by:**

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**Work funded by:**

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**Type of review:** Journal Peer Review

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**Location of Work:** West-Central NM

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**Abstract or brief summary:**

This article provides a historical background of the type locality of the Tres Hermanos sandstone member of the Mancos Shale, referencing multiple historical descriptions.

**Topic category:** Geology

**Keywords:** Geology, Alamosa Creek

**County:** Catron County

**Title:** Reinterpretation of Section of Cretaceous Rocks in Alamosa Creek Valley Area, Catron and Socorro Counties, New Mexico

**Author:** Dane, C.H., A.A.Wanek, and J.B.Jr. Resside

**Date:** 1937

**Publication/journal/publisher:** Bulletin of the American Association of Petroleum Geologists, 20 p.

**Type of document:** Journal Article

**Source of document / Search method (phone, internet, library, etc.):**

internet (from WRRRI library search)

**Purchase Price:** \$10.00

**Web site address:** <http://search.datapages.com/data/doi/10.1306/0BDA57C5-16BD-11D7-8645000102C1865D>

**Document Location:** online

**Work initiated by:**

**Work funded by:**

**Type of review:** peer review

**Location of Work:** Catron & Socorro Counties, Alamosa Creek Valley

**Abstract or brief summary:**

Winchester's (1920) Bell Mountain sandstone member at the top of his Miguel formation in the Alamosa Creek Valley area, Socorro and Catron counties, New Mexico, is the upfaulted duplication of his Gallego sandstone member, from which it had been supposed to be separated by nearly 1,000 feet of beds. Winchester's names, Miguel formation, Chamiso formation (for the Mesaverde rocks overlying the Miguel formation), and Bell Mountain sandstone member, are abandoned and stratigraphic names used in the San Juan Basin are extended to the units recognized in the Alamosa Creek Valley. The marine shale tongue of the Mancos shale (Pescado tongue of Pike, 1947) underlying the Gallego sandstone member, now of the Gallup sandstone, is shown to be of latest Carlile age, although it contains some species heretofore regarded as indicative of Niobrara age. The name D-Cross tongue of the Mancos shale is proposed for this marine shale unit, which may be a somewhat higher and younger tongue than the Pescado tongue of Pike at the type locality. The lower part of the Gallup sandstone of the Alamosa Creek Valley area, of middle to late Carlile age, tongues out into the Mancos shale in the southeastern part of the Mount Taylor coal field.



**Topic category:** Geology

**Keywords:** Geophysical, Knight Peak, southwest New Mexico

**County:** Grant

**Title:** An integrated geophysical study of the Knight Peak graben

**Author:** Davis, K., S. Harder, R.W. Green-Ilder, and J. Ni

**Date:** 1988

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 39, Cretaceous and Laramide Tectonic Evolution of Southwestern New Mexico

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/39/>

**Purchase Price:** \$10.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/39/>

**Document Location:** Contact NMGS

**Work initiated by:** Shell Oil, Texas A&M

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Knight Peak, Grant County

**Abstract or brief summary:**

An integrated geophysical study using seismic refraction and gravity data was performed in the knight Peak graben area in southwestern New Mexico

**Topic category:** Geology

**Keywords:** Geophysical, southwest New Mexico

**County:** Southwestern, NM

**Title:** Geophysical anomalies in southwestern New Mexico

**Author:** DeAngelo, M.V. and G.R. Keller

**Date:** 1988

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 39,  
Cretaceous and Laramide Tectonic Evolution of Southwestern New  
Mexico

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/39/>

**Purchase Price:** \$10.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/39/>

**Document Location:** Contact NMGS

**Work initiated by:** University of Texas at El Paso

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern, NM

**Abstract or brief summary:**

Gravity and aeromagnetic data have been compiled for southwestern New Mexico and surrounding areas.

**Topic category:** Geology

**Keywords:** Geology, map, Hidalgo, Animas Mountains

**County:** Hidalgo County

**Title:** Geologic map of the northern part of the Animas Mountains, Hidalgo County, New Mexico

**Author:** Drewes, H.

**Date:** 1986

**Publication/journal/publisher:** U.S. Geological Survey, IMAP 1686, 1 map :col. ;54 x 49 cm., on sheet 84 x 84 cm., folded in envelope 30 x 24 cm.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/i/i1686>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/i/i1686>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:** Unknown

**Location of Work:** Hidalgo County, Animas Mountains

**Abstract or brief summary:**

Geologic map of the northern part of the Animas Mountains

**Topic category:** Geology

**Keywords:** Geology, map, Hidalgo, Big Hatchet Mountains

**County:** Hidalgo County

**Title:** Geologic map of the Big Hatchet Mountains, Hidalgo County, New Mexico

**Author:** Drewes, H.

**Date:** 1991

**Publication/journal/publisher:** U.S. Geological Survey, IMAP 2144, 1 map :col. ;on sheet 142 x 94 cm., folded in envelope 30 x 24 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/i/i2144>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/i/i2144>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:** Unknown

**Location of Work:** Hidalgo County, Big Hatchet Mountains

**Abstract or brief summary:**

Geologic map of the Big Hatchet Mountains

**Topic category:** Geology

**Keywords:** Geology, map, Cotton City, Hidalgo

**County:** Hidalgo County

**Title:** Geologic map of the Cotton City quadrangle and the adjacent part of the Vanar Quadrangle, Hidalgo County, New Mexico

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**Author:** Drewes, H. and C.H. Thorman

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**Date:** 1980

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**Publication/journal/publisher:** U.S. Geological Survey, IMAP 1221, 1 map :col. ;63 x 69 cm., folded in envelope 24 x 30 cm.

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**Type of document:** Map Sheet - limited availability

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/i/i1221>>

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**Purchase Price:** \$9.00

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/i/i1221>

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**Document Location:** Contact USGS

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**Work initiated by:** USGS

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**Work funded by:**

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**Type of review:** Unknown

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**Location of Work:** Hidalgo County

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**Abstract or brief summary:**

Geologic map of the Cotton City quadrangle and the adjacent part of the Vanar Quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Steins, Hidalgo

**County:** Hidalgo County

**Title:** Geologic map of the Steins quadrangle and the adjacent part of the Vanar quadrangle, Hidalgo County, New Mexico

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**Author:** Drewes, H. and C.H. Thorman

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**Date:** 1980

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**Publication/journal/publisher:** U.S. Geological Survey, IMAP 1220, 1 map :col. ;58 x 68 cm., folded in envelope 30 x 24 cm.

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**Type of document:** Map Sheet - limited availability

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/i/i1220>>

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**Purchase Price:** \$9.00

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/i/i1220>

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**Document Location:** Contact USGS

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**Work initiated by:** USGS

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**Work funded by:**

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**Type of review:** Unknown

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**Location of Work:** Hidalgo County

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**Abstract or brief summary:**

Geologic map of the Steins quadrangle and the adjacent part of the Vanar quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Taylor Creek, Catron

**County:** Catron County

**Title:** Geologic map of the Taylor Creek rhyolite and adjacent rocks, Catron and Sierra counties, New Mexico

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**Author:** Duffield, W.A., D.H. Richter, and S.S. Priest

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**Date:** 1995

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**Publication/journal/publisher:** U.S. Geological Survey, IMAP 2399, 1 map :col. ;83 x 62 cm., on sheet 97 x 89 cm., folded in envelope 30 x 24 cm. +1 pamphlet (16 p. : ill., maps ; 28 cm.)

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**Type of document:** Electronic file (DJVU)

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/i/i2399>>

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**Purchase Price:** \$9.00

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/i/i2399>

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**Document Location:** USGS website

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**Work initiated by:** USGS

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**Work funded by:** USGS

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**Type of review:** peer review

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**Location of Work:** Catron and Sierra Counties

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**Abstract or brief summary:**

Geologic map of the Taylor Creek rhyolite and adjacent rocks and text describing physical volcanology of silicic lava domes.

**Topic category:** Geology

**Keywords:** Geology, mineral resources, Grant, Luna

**County:** Grant and Luna Counties

**Title:** Geology and Mineral Resources of Dwyer Quadrangle, Grant, Luna, and Sierra Counties, NM

**Author:** Elston, W.E.

**Date:** 1957

**Publication/journal/publisher:** New Mexico State Bureau of Mines and Mineral Resources, Bulletin No. 38 Socorro, NM, 86 p. + maps

**Type of document:** Printed report

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/bulletins/38/>>

**Purchase Price:** \$8.50

**Web site address:**

**Document Location:** Contact NMBGMR

**Work initiated by:** NMBGMR

**Work funded by:**

**Type of review:** Unknown

**Location of Work:** Grant & Luna Counties

**Abstract or brief summary:**

Dwyer quadrangle is a 15-min quadrangle located in southwestern NM, southeast of the town of Santa Rita. The major part of this report deals with the Tertiary volcanic history of the quadrangle and the petrology of the volcanic rocks.



**Topic category:** Geology

**Keywords:** Volcanics, Gila, Mimbres,

**County:** Grant and Luna Counties

**Title:** Volcanic Rocks of the Mimbres and Upper Gila Drainages, New Mexico

**Author:** Elston, W.E.

**Date:** 1965

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 16  
Southwestern New Mexico II

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/16/>

**Purchase Price:** \$12.50 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/16/>

**Document Location:** Contact NMGS

**Work initiated by:** University of New Mexico, Dept. of Geology

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Mimbres and Gila Drainage Basins

**Abstract or brief summary:**

Description and discussion of volcanic rocks mainly rhyolite, latite and andesite in the Mimbres and Gila drain basins.

**Topic category:** Geology

**Keywords:** Geology, batholiths, Mogollon-Datil volcanic field, southwestern New Mexico

**County:** Southwestern NM

**Title:** When Batholiths Exploded: The Mogollon-Datil Volcanic Field, Southwestern New Mexico

**Author:** Elston, W.E.

**Date:** 2008

**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 59, Geology of the Gila Wilderness-Silver City area, 117-128.

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/59/>

**Purchase Price:** \$45.00

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/59/>

**Document Location:** Contact NMGS

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern NM

**Abstract or brief summary:**

Beginning in 1950, studies of the Mogollon-Datil volcanic field contributed to documenting a mid-Tertiary ignimbrite flareup (~40-15 Ma on a continental scale, 36-24 Ma in New Mexico). During this event, parts of western Mexico and the southwestern USA were periodically flooded by incandescent magma foam erupted from heaving calderas up to tens of kilometers in diameter, atop exploding granitic batholiths. The discovery of similar events on other continents and geologic periods was strong evidence for the then-disputed magmatic origin of granite, a problem fundamental to understanding the origin and nature of continents.

**Topic category:** Geology

**Keywords:** Geology, volcanism, gravity, paleomagnetic

**County:** Southwestern NM

**Title:** Cenozoic volcanism in southwestern New Mexico

**Author:** Elston, W.E. and S.A. Northrop, editors

**Date:** 1976

**Publication/journal/publisher:** In Cenozoic volcanism in southwestern New Mexico. New Mexico Geological Society Special Publication 5, 29-41.

**Type of document:** Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://geoinfo.nmt.edu/publications/nmgs/special/5/>

**Purchase Price:** \$5.00

**Web site address:** <http://geoinfo.nmt.edu/publications/nmgs/special/5/>

**Document Location:** NMGS

**Work initiated by:** NMGS

**Work funded by:**

**Type of review:** peer review

**Location of Work:** Southwest NM

**Abstract or brief summary:**

Describes regional geology, volcanic geology, volcano-tectonic structures, and other studies of the Cenozoic volcanism in southwest New Mexico

**Topic category:** Geology

**Keywords:** Geology, geothermal, Animas Valley, Hidalgo

**County:** Hidalgo County

**Title:** Geology and geothermal waters of Lightning Dock region, Animas Valley and Pyramid Mountains, Hidalgo County, New Mexico

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**Author:** Elston, W.E., E.G. Deal, and M.J. Logsdon

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**Date:** 1983

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**Publication/journal/publisher:** New Mexico Bureau of Mines & Mineral Resources, Circular 177, 44 pages.

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**Type of document:** Printed report

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**Source of document / Search method (phone, internet, library, etc.):**  
NMBGMR search <<http://geoinfo.nmt.edu/publications/circulars/177/>>

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**Purchase Price:** \$12.50

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**Web site address:**

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**Document Location:** Contact NMBGMR

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**Work initiated by:** NMBGMR

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**Work funded by:** USGS, NSF, and NMED

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**Type of review:** peer review

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**Location of Work:** Hidalgo County

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**Abstract or brief summary:**

This circular covers the geology of the Pyramid Peak, Swallow Fork Peak, Table Top Mountain, and South Pyramid Peak 7½-min quadrangles, which include the Lightning Dock KGRA. Hot wells (70–115.5°C) seem to be structurally controlled by intersections of the ring-fracture zone of an Oligocene ash-flow tuff cauldron (Muir cauldron), a Miocene-to-Holocene north-trending basin-and-range fault (Animas Valley fault), and a northeast-trending lineament that appears to control anomalously heated underground waters and Pliocene-Pleistocene basalt cones in the San Bernardino, San Simon, and Animas Valley.

**Topic category:** Geology

**Keywords:** Mogollon Plateau, volcanics,

**County:** Grant and Catron Counties

**Title:** Progress Report on the Mogollon Plateau Volcanic Province, Southwestern New Mexico: No. 2

**Author:** Elston, W.E., P.J. Coney, and R.C. Rhodes

**Date:** 1970

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 21,  
Tyrone-Big Hatchet Mountain-Florida Mountains Region

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/21/>

**Purchase Price:** \$20.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/21/>

**Document Location:** Contact NMGS

**Work initiated by:** University of New Mexico

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Grant and Catron

**Abstract or brief summary:**

Present knowledge of the geology of the Mogollon Plateau volcanic province.

**Topic category:** Geology

**Keywords:** Volcanism, Mogollon Plateau

**County:** Southwestern NM

**Title:** Progress report on the Mogollon Plateau volcanic field, southwestern New Mexico, No. 3—  
Surface expression of a pluton

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**Author:** Elston, W.E., R.C. Rhodes, P.J. Coney, and E.G. Deal

---

**Date:** 1976

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**Publication/journal/publisher:** In Cenozoic volcanism in southwestern New Mexico. New Mexico  
Geological Society Special Publication 5, 3-28

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**Type of document:**

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**Source of document / Search method (phone, internet, library, etc.):**

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**Purchase Price:** \$5.00 for entire book

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**Web site address:**

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**Document Location:**

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**Work initiated by:**

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Southwestern NM

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**Abstract or brief summary:**

**Topic category:** Geology

**Keywords:** Geology, map, Reading Mountain, Grant

**County:** Grant County

**Title:** Geologic map of the Reading Mountain Quadrangle, Grant County, New Mexico

**Author:** Finnell, T. L.

**Date:** 1976

**Publication/journal/publisher:** U.S Geological Survey, Miscellaneous Field Studies Map 800, 1 map ;58 x 49 cm., on sheet 102 x 70 cm. fold. to 18 x 25 cm.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf800>>

**Purchase Price:** copy of original may be available

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf800>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:** Unknown

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the Reading Mountain Quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Grant

**County:** Grant County

**Title:** Geologic map of the Twin Sisters Quadrangle, Grant County, New Mexico

**Author:** Finnell, T. L.

**Date:** 1976

**Publication/journal/publisher:** U.S Geological Survey, Miscellaneous Field Studies Map 779, 1 map ;58 x 49 cm., on sheet 71 x 102 cm., folded in envelope 25 x 32 cm.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf779>>

**Purchase Price:** not available

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf779>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:** Unknown

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the Twin Sisters quadrangle



**Topic category:** Geology

**Keywords:** Geology, map, Grant

**County:** Grant County

**Title:** Geologic map of the Dorsey Ranch Quadrangle, Grant County, New Mexico

**Author:** Finnell, T. L.

**Date:** 1982

**Publication/journal/publisher:** U.S Geological Survey, Miscellaneous Field Studies Map 1431, 1 map  
;58 x 49 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1431>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1431>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:** Unknown

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the Dorsey Ranch Quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Grant

**County:** Grant County

**Title:** Geologic map of the Cliff Quadrangle, Grant County, New Mexico

**Author:** Finnell, T. L.

**Date:** 1987

**Publication/journal/publisher:** U.S. Geological Survey, IMAP 1768, 1 map ;55 x 47 cm., on sheet 76 x 104 cm., folded in envelope 30 x 24 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/i/i1768>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/i/i1768>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:** Unknown

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the Cliff Quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Luna, Catron

**County:** Catron County

**Title:** Preliminary Geologic Map of the Luna Quadrangle, Catron County, New Mexico

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**Author:** Finnell, T.L., J.C. and Ratté

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**Date:** 2006

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**Publication/journal/publisher:** New Mexico Bureau of Geology and Mineral Resources, Open-file Digital Geologic Map OF-GM 129, Scale 1:24,000, May 2006, DRAFT

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**Type of document:** Electronic file (PDF)

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**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search

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**Purchase Price:** \$10.00 for CD

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**Web site address:** [http://geoinfo.nmt.edu/publications/maps/geologic/ofgm/downloads/129/Luna\\_v1p-00.pdf](http://geoinfo.nmt.edu/publications/maps/geologic/ofgm/downloads/129/Luna_v1p-00.pdf)

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**Document Location:** NMBGMR online

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**Work initiated by:** NMBGMR

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**Work funded by:** NMBGMR, USGS, STATEMAP

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**Type of review:**

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**Location of Work:** Luna quadrangle, Catron County

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**Abstract or brief summary:**

The Luna Quadrangle is located in Catron County, in west-central New Mexico, adjacent to the Arizona-New Mexico State Line. The San Francisco River traverses the center of the quadrangle from west to east through the lush Luna valley. The Luna 7 ½ minute geologic quadrangle is in the northwestern part of the middle-Tertiary Mogollon-Datil volcanic field, in the transition zone between the Colorado Plateaus and the Basin and Range physiographic and structural provinces.

**Topic category:** Geology

**Keywords:** Geology, Lordsburg, Hidalgo, Pyramid Mountains

**County:** Hidalgo County

**Title:** Geology of Lordsburg Quadrangle, Hidalgo County, New Mexico

**Author:** Flege, R.F.

**Date:** 1959

**Publication/journal/publisher:** New Mexico Bureau of Geology and Mineral Resources Bulletin 62, 36 p.

**Type of document:** Out of print report, CD with PDF

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/bulletins/62/>>

**Purchase Price:** \$10.00

**Web site address:**

**Document Location:** Contact NMBGMR

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Lordsburg quadrangle, Hidalgo County

**Abstract or brief summary:**

The geology of the quadrangle was mapped on a scale of 1:48,000 and transferred to the excellent topographic sheet of Lordsburg quadrangle (scale 1:62,500). Aerial photographs, furnished by the State Bureau of Mines, provided full coverage of the quadrangle. Lordsburg quadrangle lies in Hidalgo County in extreme southwestern NM. The length, which is 5 minutes greater than that of the standard 15-min quadrangle, was increased in order to include the whole of the Pyramid Mountains. The area thus enclosed covers approximately 333 sq mi.

**Topic category:** Geology

**Keywords:** Geology, Franklin Mountains

**County:** Southwestern NM

**Title:** Franklin Mountains Section

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**Author:** Flower, R.H.

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**Date:** 1953

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**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 4, Southwestern New Mexico, 15-17. Reprinted 1996.

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**Type of document:** Paper in Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/4/>

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**Purchase Price:** \$20.00

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/4/>

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**Document Location:** Contact NMGS

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**Work initiated by:**

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**Work funded by:**

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**Type of review:** Journal Peer Review

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**Location of Work:** Southwestern NM

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**Abstract or brief summary:**

This paper provides a discussion of the geology of the Franklin Mountains section, including rock type, age, thickness and outcrop information by formation.

**Topic category:** Geology

**Keywords:** Geology, Paleozoic, Stratigraphy,  
Southwest

**County:** Southwestern NM

**Title:** Paleozoic Sedimentary Rocks of Southwestern New Mexico

**Author:** Flower, R.H.

**Date:** 1953

**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 4,  
Southwestern New Mexico, 106-111. Reprinted 1996.

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/4/>

**Purchase Price:** \$20.00

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/4/>

**Document Location:** Contact NMGS

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern NM

**Abstract or brief summary:**

This paper provides information on the Lower Paleozoic stratigraphy of Southern New Mexico, with detailed discussions of each formation.

**Topic category:** Geology  
**Keywords:** Paleozoic Geology, New Mexico  
**County:** NM

**Title:** Early Paleozoic of New Mexico

**Author:** Flower, R.H.

**Date:** 1965

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 16  
Southwestern New Mexico II

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/16/>

**Purchase Price:** \$12.50 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/16/>

**Document Location:** Contact NMGS

**Work initiated by:** NM Bureau of Mines and Mineral Resources

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern NM

**Abstract or brief summary:**

A detailed work presenting a sequence of events during the Paleozoic and formation descriptions.

**Topic category:** Geology

**Keywords:** Plio-Pleistocene, San Augustine Plains

**County:** West-central New Mexico

**Title:** Plio-Pleistocene sediments and climates of the San Augustine Plains, New Mexico

**Author:** Foreman, F., K.H. Clisby, and P.B. Sears

**Date:** 1959

**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 10, West-Central New Mexico, 117-120. Reprinted 1996.

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/10/>

**Purchase Price:** \$20.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/10/>

**Document Location:** Contact NMGS

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** West-Central NM

**Abstract or brief summary:**

This article provides a discussion of the sediments, interpretation, and pollen record for Plio-Pleistocene sediments and climate for the San Augustin Plains.



**Topic category:** Geology

**Keywords:** Geology, Gila Cliff Dwellings

**County:** Grant County

**Title:** Geology of the Gila Cliff Dwellings

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**Author:** Forest Service

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**Date:** 2003

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**Publication/journal/publisher:** Gila National Forest, Widerness Ranger District, Forest Service, United States Department of Agriculture. April 20, 2003

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**Type of document:** Electronic file (PDF)

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**Source of document / Search method (phone, internet, library, etc.):**

<http://www.nps.gov/gicl/planyourvisit/upload/Geology%20of%20the%20Gila%20Cliff%20Dwellings.pdf>

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**Purchase Price:** Free

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**Web site address:**

<http://www.nps.gov/gicl/planyourvisit/upload/Geology%20of%20the%20Gila%20Cliff%20Dwellings.pdf>

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**Document Location:** online

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**Work initiated by:** Forest Service, USDA

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**Work funded by:** Forest Service, USDA

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**Type of review:** Unknown

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**Location of Work:** Gila National Forest, Grant County

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**Abstract or brief summary:**

Describes the geology in and around the Gila Cliff Dwellings including volcanics and depositional environments

**Topic category:** Geology  
**Keywords:** Geology, stratigraphy, petroleum  
**County:** Catron County

**Title:** Stratigraphy and petroleum possibilities of Catron County, New Mexico

**Author:** Foster, R.W.

**Date:** 1964

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources Bulletin 85

**Type of document:** Journal Article

**Source of document / Search method (phone, internet, library, etc.):**

<http://geoinfo.nmt.edu/publications/bulletins/85/>

**Purchase Price:** \$5.00

**Web site address:** <http://geoinfo.nmt.edu/publications/bulletins/85/>

**Document Location:** NMBGMR

**Work initiated by:** NMBGMR

**Work funded by:**

**Type of review:** Unknown

**Location of Work:** Catron County

**Abstract or brief summary:**

Most of Catron County is underlain by volcanics and sediments of Tertiary and Quaternary age. Outcrops of pre-Tertiary rocks are restricted to a strip, four townships wide, across the northern part of the county and to a few isolated exposures in the volcanic rocks. The most favorable stratigraphic intervals for petroleum exploration are Cretaceous sandstones, Permian carbonates and sandstones, and, where present, Pennsylvanian carbonates.

**Topic category:** Geology

**Keywords:** Cretaceous, North Plains

**County:** Catron County

**Title:** Cretaceous sediments of the North Plains and adjacent area, McKinley, Valencia, and Catron Counties, New Mexico

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**Author:** Gadway, K.L.

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**Date:** 1959

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**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 10, West-Central New Mexico, 81-84. Reprinted 1996.

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**Type of document:** Paper in Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/10/>

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**Purchase Price:** \$20.00 for Entire Book

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/10/>

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**Document Location:** Contact NMGS

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**Work initiated by:**

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**Work funded by:**

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**Type of review:** Journal Peer Review

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**Location of Work:** West-Central NM

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**Abstract or brief summary:**

This article discusses the stratigraphy of Cretaceous sediments of the North Plains area in McKinley, Valencia, and Catron Counties. Formations discussed include the Dakota sandstone, Mancos Shale, Lower Gallup sandstone, D-Cross Tongue of the Mancos, and Upper Gallup sandstone.

**Topic category:** Geology  
**Keywords:** Luna, Carrizalillo Hills, Geology  
**County:** Luna County

**Title:** The geology of Carrizalillo Hills, Luna County, New Mexico

**Author:** Gates, E.E.

**Date:** 1985

**Publication/journal/publisher:** M.S. Thesis, University of Texas, El Paso, Texas, 133 p.

**Type of document:** Book

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search

**Purchase Price:**

**Web site address:**

**Document Location:** NMBGMR GIC

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Carrizalillo Hills, Luna County

**Abstract or brief summary:**

**Topic category:** Geology

**Keywords:** Geomorphology, soils, Basin and Range, southern New Mexico

**County:** Southern New Mexico

**Title:** Soils and geomorphology in the Basin and Range area of Southern New Mexico - Guidebook to the Desert Project

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**Author:** Gile, L.H., J.W. Hawley, and R.B. Grossman

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**Date:** 1981

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**Publication/journal/publisher:** New Mexico Bureau of Mines & Mineral Resources, Memoir 39.

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**Type of document:** Printed report

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**Source of document / Search method (phone, internet, library, etc.):**

New Mexico Bureau of Mines & Mineral Resources

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**Purchase Price:** \$21.00

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**Web site address:** <http://geoinfo.nmt.edu/publications/memoirs/39/home.cfm>

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**Document Location:**

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**Work initiated by:**

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Southern New Mexico

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**Abstract or brief summary:**

This book is intended primarily for use in field-study tours of the Desert-Soil Geomorphology Project of the U.S. Soil Conservation Service (informally termed the Desert Project) in Doña Ana County, southern New Mexico. Main purposes are to illustrate major soils and landscapes of the project area, to illustrate principles of soil and landscape evolution in basin-and-range topography, to show the landscape positions in which the soils are most likely to occur, to describe soil development, and to illustrate the United States system of soil taxonomy as it applies to desert soils of the region. The Desert Project encompasses a 400-mi<sup>2</sup> area near Las Cruces and includes a segment of the Rio Grande valley and parts of adjacent intermountain basins. Soil Survey Investigations field and laboratory studies were initiated in 1957. The Desert Project represents one of the most comprehensive studies of soils and landscapes ever undertaken in an arid to semiarid region. A number of formal field-study tours were held during progress of the research. This report is intended as permanent guide to many of the detailed study sites of the Desert Project.

**Topic category:** Geology

**Keywords:** Kneeling Nun, Geology, Santa Rita,  
Rhyolite tuff

**County:** Southwestern NM

**Title:** Some Aspects of the Kneeling Nun Rhyolite Tuff

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**Author:** Giles, D.

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**Date:** 1965

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**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 16  
Southwestern New Mexico II

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**Type of document:** Paper in Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/16/>

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**Purchase Price:** \$12.50 for Entire Book

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/16/>

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**Document Location:** Contact NMGS

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**Work initiated by:** University of New Mexico, Dept. of Geology

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**Work funded by:**

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**Type of review:** Journal Peer Review

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**Location of Work:** SW NM

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**Abstract or brief summary:**

Description and discussion of the Kneeling Nun rhyolite tuff

**Topic category:** Geology  
**Keywords:** Geology, map, White Signal, Grant  
**County:** Grant County

**Title:** Geologic map of the central part of the White Signal district, Grant County, New Mexico

**Author:** Gillerman, E.

**Date:** 1954

**Publication/journal/publisher:** U.S Geological Survey, Open File Report 54-99, 1 map

**Type of document:** Electronic file (DJVU)

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/ofr/ofr5499>>

**Purchase Price:** \$10.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/ofr/ofr5499>

**Document Location:** USGS online

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the White Signal district

**Topic category:** Geology

**Keywords:** Big Burro Mountains, Ore deposits,  
structural geology, mineral deposits

**County:** Grant County

**Title:** Mineral Deposits and Structural Pattern of the Big Burro Mountains, New Mexico

**Author:** Gillerman, E.

**Date:** 1970

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 21,  
Tyrone-Big Hatchet Mountain-Florida Mountains Region

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/21/>

**Purchase Price:** \$20.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/21/>

**Document Location:** Contact NMGS

**Work initiated by:** The University of Kansas

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Big Burro Mountains, Grant

**Abstract or brief summary:**

Mineral deposits in the Big Burro Mountains are dominated by the Tyrone ore body. This paper focuses on the structure and mineral deposits in the area.



**Topic category:** Geology

**Keywords:** Geology, map, Black Hawk, Grant

**County:** Grant County

**Title:** Geologic map of the Black Hawk mining district, Grant County, New Mexico

**Author:** Gillerman, E. and D.H. Whitebread

**Date:** 1954

**Publication/journal/publisher:** U.S Geological Survey, Open File Report 54-100, Map ;60 x 77 cm.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/ofr/ofr54100>>

**Purchase Price:** not known

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/ofr/ofr54100>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the Black Hawk mining district

**Topic category:** Geology

**Keywords:** Geology, Central Peloncillo Mountains, Hidalgo

**County:** Hidalgo County

**Title:** Geology of the Central Peloncillo Mountains, Hidalgo County, New Mexico and Cochise County, Arizona

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**Author:** Gillerman, E.G.

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**Date:** 1958

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**Publication/journal/publisher:** New Mexico Bureau of Geology and Mineral Resources Bulletin 57, 152 p.

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**Type of document:** Printed report

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**Source of document / Search method (phone, internet, library, etc.):**  
NMBGMR search <<http://geoinfo.nmt.edu/publications/bulletins/57/>>

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**Purchase Price:** \$10.00

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**Web site address:**

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**Document Location:** Contact NMBGMR

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**Work initiated by:**

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Central Peloncillo Mountains, Hidalgo County NM and Cochise County AZ

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**Abstract or brief summary:**

The central Peloncillo Mountains consist mostly of Late Cretaceous and late Tertiary volcanic rocks; in addition, Cretaceous and Paleozoic marine sedimentary rocks and Precambrian granite are exposed in fault blocks bounded by northwest-trending steeply dipping faults. The central Peloncillo Mountains, situated as they are on the NM-AZ boundary, are critical in a comparison and correlation of the geology of these two states. The mountains contain a relatively complete sequence of lower Paleozoic strata, similar to strata in portions of NM farther east, but the older rocks of the sequence closely resemble rocks in AZ. The distinction between the different periods of volcanic activity is particularly important in the search for mineral deposits, because no important base-metal deposits have been found in southwestern NM in the younger volcanic rocks.

**Topic category:** Geology  
**Keywords:** Geology, map, New Mexico  
**County:** New Mexico

**Title:** The digital geologic map of New Mexico in ARC/INFO format

**Author:** Green, G.N. and G.E. Jones

**Date:** 1997

**Publication/journal/publisher:** U.S. Geological Survey, Open-File Report 97-52, 9 p.

**Type of document:** Electronic file (DJVU and .txt)

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/ofr/ofr9752>>

**Purchase Price:** \$10.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/ofr/ofr9752>

**Document Location:** USGS online

**Work initiated by:** USGS

**Work funded by:** USGS

**Type of review:** Internal review

**Location of Work:** New Mexico

**Abstract or brief summary:**

This geologic map was prepared as part of a study of digital methods and techniques as applied to complex geologic maps. The geologic map was digitized in GSMAP, Ver. 8. The database can be downloaded via 'anonymous ftp' from the USGS. The files are located on [greenwood.cr.usgs.gov](http://greenwood.cr.usgs.gov) in a directory named /pub/open-file-reports/ofr-97-0052.

**Topic category:** Geology

**Keywords:** Stratigraphy, Hidalgo, Paleozoic, cretaceous

**County:** Hidalgo County

**Title:** Upper Paleozoic and Cretaceous Stratigraphy of the Hidalgo County Area, New Mexico

**Author:** Greenwood, E., F.E. Kottlowksi, and A.K. Armstrong

**Date:** 1970

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 21, Tyrone-Big Hatchet Mountain-Florida Mountains Region

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/21/>

**Purchase Price:** \$20.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/21/>

**Document Location:** Contact NMGS

**Work initiated by:** NM Bureau of Mines and Mineral Resources and USGS

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Hidalgo County

**Abstract or brief summary:**

The main upper Paleozoic units in southwestern most New Mexico are thick to thin Pennsylvanian sequences making up most of the Horquilla Limestone, and the Permian upper Horquilla, Earp, Abo, Huecco, Colina, Epitaph, Scherrer, and Concha formations

**Topic category:** Geology

**Keywords:** Geology, ore, mining, Steeple Rock, Grant

**County:** Grant County

**Title:** Geology and ore deposits of the Steeple Rock mining district, Grant County, New Mexico

**Author:** Griggs, R.L. and H.C. Wagner

**Date:** 1966

**Publication/journal/publisher:** U.S. Geological Survey, Bulletin 1763, iv, 22 p. :ill., maps ;28 cm.

**Type of document:** Electronic file (DJVU)

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/b/b1222e>>

**Purchase Price:** \$1.75

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/b/b1222e>

**Document Location:** USGS online

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Grant

**Abstract or brief summary:**

Description of geology, structure, ore deposits and mines in the Steeple Rock Mining District The Steeple Rock mining district of western Grant County, NM, is in an area of block-faulted Tertiary lavas that have been intruded by rhyolite dikes and plugs. The ore occurs in veins that occupy premineralization faults which cut the volcanic sequence. The sulfide ore occurs in a breccia zone at the intersection of two faults and include sphalerite, galena, and chalcopyrite.

**Topic category:** Geology

**Keywords:** Geology, Grant

**County:** Grant County

**Title:** A zeolithic tuff in a lacustrine facies of the Gila Conglomerate near Buckhorn, Grant County, New Mexico

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**Author:** Guide, A.J.III and R.A. Sheppard

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**Date:** 1988

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**Publication/journal/publisher:** U.S. Geological Survey, Bulletin 1763, iv, 22 p. :ill., maps ;28 cm.

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**Type of document:** Electronic file (DJVU)

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/b/b1763>>

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**Purchase Price:** \$1.50

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**Web site address:**

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**Document Location:** USGS online

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**Work initiated by:** USGS

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**Work funded by:** USGS

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**Type of review:** peer review

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**Location of Work:** Grant County

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**Abstract or brief summary:**

Geologic setting and detailed mineralogy of zeolithic tuff in the Gila Conglomerate

**Topic category:** Geology

**Keywords:** Geology, Catron, Tejana Mesa, Hubbell Draw, Uranium

**County:** Catron County

**Title:** Geology and uranium potential of the Tejana Mesa-Hubbell Draw area, Catron County, New Mexico

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**Author:** Guilinger, D.R.

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**Date:** 1982

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**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources, Open File Report 176, New Mexico Institute of Mining and Technology, Socorro, New Mexico, August 1982, Master's Thesis

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**Type of document:** Electronic file (PDF)

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**Source of document / Search method (phone, internet, library, etc.):**  
NMBGMR search

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**Purchase Price:** \$10.00 for CD

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**Web site address:** [http://geoinfo.nmt.edu/publications/openfile/downloads/OFR100-199/176-199/176/ofr\\_176.pdf](http://geoinfo.nmt.edu/publications/openfile/downloads/OFR100-199/176-199/176/ofr_176.pdf)

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**Document Location:** NMBGMR online

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**Work initiated by:** NMBGMR and NMT

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**Work funded by:** NMBGMR and NMT

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**Type of review:** peer review

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**Location of Work:** Tejana Mesa-Hubbell Draw area, Catron County

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**Abstract or brief summary:**

Exposures within the Tejana Mesa-Hubbell Draw (TM-HD) area of west-central New Mexico (Catron County) represent Late Cretaceous and Cenozoic continental sedimentation and late Cenozoic basaltic volcanism, punctuated by periods of weathering and erosion. The TM-HD area is located at the southern margin of the Colorado Plateau and along the northern eroded margin of the Datil-Mogollon volcanic field. One of the most important results of this study has been the identification and description of a post-Mesaverde, pre-Baca oxidation zone within the TM-HD area. The pre-Baca paleosol is interpreted to be the primary zone of uranium potential in the TM-HD area for two reasons: 1) the tropical pedogenesis, inferred to have produced the oxidation zone (paleosol), provides a viable mechanism for the formation of tabular and roll front ore deposits (Chamberlin, 1981), and 2) there are a number of known uranium occurrences (seven radiometric anomalies and one small deposit) associated with the redox boundary at the base of the oxidation zone.

**Topic category:** Geology

**Keywords:** Geology, Datil Mountains, San Agustin, Catron

**County:** Catron County

**Title:** Geology of the northeastern Datil Mountains, Socorro and Catron Counties, New Mexico

**Author:** Harrison, R.W.

**Date:** 1980

**Publication/journal/publisher:** New Mexico Bureau of Geology and Mineral Resources, Open-File Report 136, 146 pages. Master Thesis, New Mexico Institute of Mining and Technology, Socorro, New Mexico, September, 1980.

**Type of document:** Electronic file (PDF)

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/openfile/details.cfm?Volume=136>>

**Purchase Price:** \$10.00 for CD

**Web site address:** [http://geoinfo.nmt.edu/publications/openfile/downloads/OFR100-199/126-150/136/ofr\\_136.pdf](http://geoinfo.nmt.edu/publications/openfile/downloads/OFR100-199/126-150/136/ofr_136.pdf)

**Document Location:** NMBGMR online

**Work initiated by:** NMIMT

**Work funded by:** NMBGMR

**Type of review:** peer review

**Location of Work:** Northeastern Datil Mountains, Socorro and Catron Counties

**Abstract or brief summary:**

The purpose of this investigation is to determine the stratigraphic and structural relationships of the Tertiary volcanic and volcanoclastic rocks in the northeastern Datil Mountains, New Mexico. The area of study is located approximately twelve miles north-northeast of Datil, New Mexico. The southeastern portion of the study-area lies within the Plains of San Agustin. Utilizing the stratigraphic and structural relationships observed in the study area, a sequence of events was developed for the northeastern Datil Mountains.



**Topic category:** Geology

**Keywords:** Floodplain, geomorphology, Southern New Mexico

**County:** New Mexico

**Title:** Geomorphic Surfaces Along the Rio Grande Valley from El Paso, Texas to Caballo Reservoir, New Mexico

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**Author:** Hawley, J.

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**Date:** 1965

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**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 16  
Southwestern New Mexico II

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**Type of document:** Paper in Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/16/>

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**Purchase Price:** \$12.50 for Entire Book

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/16/>

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**Document Location:** Contact NMGS

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**Work initiated by:** US Dept. of Agriculture

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**Work funded by:**

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**Type of review:** Journal Peer Review

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**Location of Work:** Rio Grande Valley from Caballo Reservoir to El Paso

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**Abstract or brief summary:**

The Rio Grande flood plain is flanked by an ascending sequence of geomorphic surfaces graded to successively higher and older flood-plain positions of the ancestral river.

**Topic category:** Geology

**Keywords:** Geology, map, Burro Peak, Grant

**County:** Grant County

**Title:** Geologic map of the Burro Peak Quadrangle, Grant County, New Mexico

**Author:** Hedlund, D.C.

**Date:** 1978

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1040, 1 map ;58 x 49 cm. on sheet 81 x 115 cm. fold. to 30 x 21 cm. in envelope 24 x 31 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1040>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1040>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the Burro Peak quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, C Bar Ranch, Grant

**County:** Grant County

**Title:** Geologic map of the C Bar Ranch Quadrangle, Grant County, New Mexico

**Author:** Hedlund, D.C.

**Date:** 1978

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1039, 1 map  
;58 x 49 cm. on sheet 92 x 112 cm. fold. in envelope 25 x 31 cm

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1039>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1039>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the C Bar Ranch quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Gold Hill, Hidalgo, Grant

**County:** Grant and Hidalgo Counties

**Title:** Geologic map of the Gold Hill Quadrangle, Hidalgo and Grant counties, New Mexico

**Author:** Hedlund, D.C.

**Date:** 1978

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1035, 1 map  
;58 x 49 cm. on sheet 92 x 112 cm. fold. in envelope 25 x 31 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1035>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1035>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant & Hidalgo Counties

**Abstract or brief summary:**

Geologic map of the gold Hill quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Hillsboro, San Lorenzo, Grant

**County:** Grant County

**Title:** Geologic map of the Hillsboro and San Lorenzo Quadrangle, Sierra and Grant counties, New Mexico

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**Author:** Hedlund, D.C.

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**Date:** 1978

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**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 900-A, map ;58 x 97 cm. on 2 sheets 72 x 105 cm. and 86 x 111 cm. fold. in envelope 27 x 30 cm.

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**Type of document:** Map Sheet

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf900a>>

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**Purchase Price:** not available

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf900a>

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**Document Location:** Contact USGS

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**Work initiated by:** USGS

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Grant County

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**Abstract or brief summary:**

Geologic map of the Hillsboro and San Lorenzo quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Hurley, Grant

**County:** Grant County

**Title:** Geologic map of the Hurley East Quadrangle, Grant County, New Mexico

**Author:** Hedlund, D.C.

**Date:** 1978

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1036, 1 map  
;58 x 49 cm. on sheet 112 x 91 cm. in envelope 25 x 31 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1036>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1036>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the Hurley East quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Ninetysix Ranch, Grant

**County:** Grant County

**Title:** Geologic map of the Ninetysix Ranch Quadrangle, Grant County, New Mexico

**Author:** Hedlund, D.C.

**Date:** 1978

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1034, 1 map  
;58 x 49 cm. on sheet 74 x 91 cm. fold. in envelope 25 x 31 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1034>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1034>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the Ninetysix Ranch quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Soldiers Farewell Hill, Grant

**County:** Grant County

**Title:** Geologic map of the Soldiers Farewell Hill Quadrangle, Grant County, New Mexico

**Author:** Hedlund, D.C.

**Date:** 1978

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1033, 1 map  
;58 x 49 cm. on sheet 92 x 112 cm. fold. in envelope 25 x 31 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1033>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1033>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the Soldiers Farewell Hill quadrangle



**Topic category:** Geology

**Keywords:** Geology, map, Tyrone, Grant

**County:** Grant County

**Title:** Geologic map of the Tyrone Quadrangle, Grant County, New Mexico

**Author:** Hedlund, D.C.

**Date:** 1978

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1037, 1 map  
;58 x 49 cm. on sheet 104 x 103 cm. fold. to 26 x 22 cm. in envelope 24 x  
31 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1037>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1037>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the Tyrone quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Werney Hill, Grant

**County:** Grant County

**Title:** Geologic map of the Werney Hill Quadrangle, Grant County, New Mexico

**Author:** Hedlund, D.C.

**Date:** 1978

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1038, 1 map  
;58 x 49 cm. on sheet 92 x 112 cm. fold. in envelope 25 x 31 cm.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1038>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1038>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the Werney Hill quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, White Signal, Grant

**County:** Grant County

**Title:** Geologic map of the White Signal Quadrangle, Grant County, New Mexico

**Author:** Hedlund, D.C.

**Date:** 1978

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1041, 1 map  
;58 x 49 cm. on sheet 85 x 101 cm. fold. in cover 25 x 31 cm.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1041>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1041>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the White Signal quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Wind Mountain, Grant

**County:** Grant County

**Title:** Geologic map of the Wind Mountain Quadrangle, Grant County, New Mexico

**Author:** Hedlund, D.C.

**Date:** 1978

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1031, 1 map  
;58 x 49 cm. on sheet 101 x 132 cm. in cover 25 x 31 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1031>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1031>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the Wind Mountain quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, redrock, Grant

**County:** Grant County

**Title:** Geologic map of the Redrock NE quadrangle, Grant County, New Mexico

**Author:** Hedlund, D.C.

**Date:** 1980

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1264, 1 map  
;58 x 49 cm., on sheet 76 x 106 cm., folded in envelope 30 x 24 cm.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1264>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1264>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the Redrock NE quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, redrock, Grant

**County:** Grant County

**Title:** Geologic map of the Redrock NW Quadrangle, Grant County, New Mexico

**Author:** Hedlund, D.C.

**Date:** 1980

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1263, 1 map  
;57 x 49 cm. on sheet 73 x 106 cm.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1263>>

**Purchase Price:** not available

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1263>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the Redrock NW quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, redrock, Grant, Hidalgo

**County:** Grant and Hidalgo Counties

**Title:** Geologic map of the Redrock SE Quadrangle, Grant and Hidalgo counties, New Mexico

**Author:** Hedlund, D.C.

**Date:** 1980

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1265, 1 map  
;58 x 49 cm. on sheet 80 x 102 cm.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1265>>

**Purchase Price:** not available

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1265>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant & Hidalgo Counties

**Abstract or brief summary:**

Geologic map of the Redrock SE quadrangle

**Topic category:** Geology

**Keywords:** Geology, mines, Tyrone, Grant

**County:** Grant County

**Title:** Geology, mines, and prospects of the Tyrone Stock and vicinity, Grant County, New Mexico

**Author:** Hedlund, D.C.

**Date:** 1985

**Publication/journal/publisher:** U.S. Geological Survey, Open-File Report 85-232, i, 31 p. :maps ;28 cm.

**Type of document:** Electronic file (DJVU)

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/ofr/ofr85232>>

**Purchase Price:** \$10.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/ofr/ofr85232>

**Document Location:** USGS online

**Work initiated by:** USGS

**Work funded by:** USGS

**Type of review:** None

**Location of Work:** Grant County, Tyrone

**Abstract or brief summary:**

This preliminary study emphasizes the geochronology of intrusion, faulting and mineralization in the Tyrone area of the Big and Little Burro Mountains of southwestern New Mexico. Geologic and aeromagnetic mapping, geochemical study, and K-Ar and fission-track age determinations have elucidated the intrusive history of the Tyrone stock.



**Topic category:** Geology

**Keywords:** Geology, Steeple Rock, Grant, Hidalgo

**County:** Grant and Hidalgo Counties

**Title:** Geologic map and sections of the Steeple Rock Quadrangle, Grant and Hidalgo Counties, New Mexico

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**Author:** Hedlund, D.C.

---

**Date:** 1990

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**Publication/journal/publisher:** U.S. Geological Survey, Open-File Report 90-240, i, 14 p. :ill. ;28 cm.

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**Type of document:** Electronic file (DJVU)

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/ofr/ofr90240>>

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**Purchase Price:** \$10.00

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**Web site address:**

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**Document Location:** USGS online

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**Work initiated by:** USGS

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**Work funded by:**

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**Type of review:** Unknown

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**Location of Work:** Grant & Hidalgo Counties

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**Abstract or brief summary:**

Geologic map of Steeple Rock Quadrangle, description of units, mining

**Topic category:** Geology

**Keywords:** Geology, map, Applegate Mountain, Grant

**County:** Grant County

**Title:** Geologic map of the Applegate Mountain quadrangle, Grant County, New Mexico

**Author:** Hedlund, D.C.

**Date:** 1990

**Publication/journal/publisher:** U.S. Geological Survey, Open-File Report 90-425, 1 map :photocopy ;58 x 49 cm., on sheet 91 x 100 cm.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/ofr/ofr90425>>

**Purchase Price:** \$10.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/ofr/ofr90425>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the Applegate Mountain quadrangle

**Topic category:** Geology

**Keywords:** Geology, mineral resources, Grant, Hidalgo

**County:** Grant and Hidalgo Counties

**Title:** Geology and mineral deposits of the Steeple Rock and Duncan mining districts, Grant and Hidalgo counties, New Mexico, and Greenlee County, Arizona

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**Author:** Hedlund, D.C.

---

**Date:** 1990

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**Publication/journal/publisher:** U.S. Geological Survey, Open-File Report 90-239, i, 27 p. :ill. ;28 cm.

---

**Type of document:** Electronic file (DJVU)

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/ofr/ofr90239>>

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**Purchase Price:** \$10.00

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/ofr/ofr90239>

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**Document Location:** USGS online

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**Work initiated by:** USGS

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**Work funded by:**

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**Type of review:** not peer-reviewed

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**Location of Work:** Grant & Hidalgo Counties

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**Abstract or brief summary:**

Describes the geology, mineralogy, mining districts, mines, geochemistry and geophysics of the Steeple Rock and Duncan mining districts

**Topic category:** Geology

**Keywords:** Geology, map, Walker Canyon, Grant, Hidalgo

**County:** Grant and Hidalgo Counties

**Title:** Preliminary geologic map and sections of the Walker Canyon quadrangle, Grant and Hidalgo Counties, New Mexico

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**Author:** Hedlund, D.C.

---

**Date:** 1990

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**Publication/journal/publisher:** U.S. Geological Survey, Open-File Report 90-423, 1 map :photocopy ;58 x 49 cm., on sheet 106 x 115 cm.

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**Type of document:** Map Sheet

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/ofr/ofr90423>>

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**Purchase Price:** \$10.00

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/ofr/ofr90423>

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**Document Location:** Contact USGS

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**Work initiated by:** USGS

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**Work funded by:**

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**Type of review:** None

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**Location of Work:** Grant & Hidalgo Counties

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**Abstract or brief summary:**

Preliminary geologic map and unit descriptions of the Water Canyon quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Crookson Peak, Grant

**County:** Grant County

**Title:** Preliminary geologic map of the Crookson Peak quadrangle, Grant County, New Mexico

**Author:** Hedlund, D.C.

**Date:** 1990

**Publication/journal/publisher:** U.S. Geological Survey, Open-File Report 90-252, 1 map :photocopy ;58 x 49 cm., on sheet 91 x 110 cm.

**Type of document:** Electronic file (DJVU)

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/ofr/ofr90252>>

**Purchase Price:** \$10.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/ofr/ofr90252>

**Document Location:** USGS online

**Work initiated by:** USGS

**Work funded by:**

**Type of review:** None

**Location of Work:** Gran

**Abstract or brief summary:**

Preliminary geologic map and unit descriptions for the Crookson Peak quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Goat Camp Spring, Grant

**County:** Grant County

**Title:** Preliminary geologic map of the Goat Camp Spring quadrangle, Grant County, New Mexico and Greenlee County, Arizona

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**Author:** Hedlund, D.C.

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**Date:** 1990

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**Publication/journal/publisher:** U.S. Geological Survey, Open-File Report 90-490, 1 map :photocopy ;58 x 49 cm., on sheet 79 x 98 cm.

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**Type of document:** Map Sheet

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/ofr/ofr90490>>

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**Purchase Price:** \$10.00

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/ofr/ofr90490>

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**Document Location:** Contact USGS

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**Work initiated by:** USGS

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**Work funded by:**

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**Type of review:** None

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**Location of Work:** Grant County

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**Abstract or brief summary:**

Preliminary geologic map and unit descriptions of the Goat Camp Spring quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Tillie Hall Peak, Grant

**County:** Grant County

**Title:** Geologic map of the Tillie Hall Peak quadrangle, Greenlee County, Arizona, and Grant County, New Mexico

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**Author:** Hedlund, D.C.

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**Date:** 1993

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**Publication/journal/publisher:** U.S Geological Survey, Geologic Quadrangle 1715, 1 map :col ;58 x 49 cm., on sheet 79 x 109 cm., folded in envelope 30 x 24 cm.

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**Type of document:** Map Sheet

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/gq/gq1715>>

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**Purchase Price:** \$9.00

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/gq/gq1715>

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**Document Location:** Contact USGS

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**Work initiated by:** USGS

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Grant County

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**Abstract or brief summary:**

Geologic map of the Tillie Hall Peak quadrangle

**Topic category:** Geology

**Keywords:** Geology, Canador Peak, Grant, Hidalgo

**County:** Grant and Hidalgo Counties

**Title:** Preliminary geologic [map] and section of part of the Canador Peak 15' quadrangle, Grant and Hidalgo Counties, New Mexico

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**Author:** Hedlund, D.C. and T.L. Finnell

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**Date:** 1990

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**Publication/journal/publisher:** U.S. Geological Survey, Open-File Report 90-505, 1 map :photocopy ;77 x 56 cm., on sheet 106 x 103 cm.

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**Type of document:** Map Sheet

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/ofr/ofr90505>>

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**Purchase Price:** \$10.00

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/ofr/ofr90505>

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**Document Location:** Contact USGS

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**Work initiated by:** USGS

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**Work funded by:**

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**Type of review:** None

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**Location of Work:** Grant & Hidalgo Counties

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**Abstract or brief summary:**

Preliminary geologic map and unit descriptions of the Canador Peak quadrangle



**Topic category:** Geology

**Keywords:** Geology, Grant, gravity map, geochemistry, geophysics

**County:** Grant County

**Title:** Background information to accompany folio of geologic, mineral resource, geochemical, aeromagnetic, and gravity maps of the Hillsboro and San Lorenzo quadrangles, Sierra and Grant Counties, New Mexico; with sections on geochemistry and geophysics

**Author:** Hedlund, D.C., K.C. Watts, H.V. Alminas, and J.C. Wynn

**Date:** 1979

**Publication/journal/publisher:** U.S Geological Survey, Circular 808, iv, 26 p. :ill., maps ;26 cm.

**Type of document:** Electronic file (DJVU)

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/cir/cir808>>

**Purchase Price:** \$0.00

**Web site address:**

**Document Location:** USGS online

**Work initiated by:** USGS

**Work funded by:**

**Type of review:** peer review

**Location of Work:** Grant County

**Abstract or brief summary:**

The Hillsboro and San Lorenzo 15-minute quadrangles of southwestern New Mexico have been mapped at a 1:48,000 scale and selected mineralized areas within these quadrangles have been mapped in greater detail. Mineralogy and economic geology of the area are discussed.

**Topic category:** Geology

**Keywords:** Geology, Santa Rita, Southwest

**County:** Southwestern NM

**Title:** Some Geological Features of the Santa Rita Quadrangle, New Mexico

**Author:** Hernon, R.M., W.R. Jones, and S.L. Moore

**Date:** 1953

**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 4, Southwestern New Mexico, 117-129. Reprinted 1996.

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/4/>

**Purchase Price:** \$20.00

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/4/>

**Document Location:** Contact NMGS

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern NM

**Abstract or brief summary:**

This article discusses the regional setting, formations, intrusions, structure, alteration and mineralization, ore deposits, and interrelation of geologic events for the Santa Rita Quadrangle.

**Topic category:** Geology

**Keywords:** Geology, Santa Rita, Grant

**County:** Grant County

**Title:** Geology of the Santa Rita quadrangle, New Mexico

**Author:** Hernon, R.M., W.R. Jones, and S.L. Moore

**Date:** 1964

**Publication/journal/publisher:** U.S. Geological Survey, Geological Quadrangle 306. Scale 1:24,000, 1 map.

**Type of document:** Map sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/gq/gq306>>

**Purchase Price:** \$9.00

**Web site address:**

**Document Location:** Contact USGS

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Santa Rita quadrangle, Grant County

**Abstract or brief summary:**

Geology of the Santa Rita quadrangle, New Mexico

**Topic category:** Geology

**Keywords:** geology, features, Santa Rita

**County:** Santa Rita Quad, NM

**Title:** Some Geological Features of the Santa Rita Quadrangle, New Mexico

**Author:** Hernon, R.M., W.R. Jones, and S.L. Moore

**Date:** 1965

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 16  
Southwestern New Mexico II

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/16/>

**Purchase Price:** \$12.50 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/16/>

**Document Location:** Contact NMGS

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Santa Rita Quad, NM

**Abstract or brief summary:**

The basic geology of the Santa Rita quadrangle and a resume of features are included in this work.

**Topic category:** Geology

**Keywords:** Geology, mineral deposits, Big Burro Mountains, Redrock, Grant

**County:** Grant County

**Title:** Geology and Mineral Deposits of the Northern Big Burro Mountains, Redrock area, Grant County, New Mexico

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**Author:** Hewitt, C.H.

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**Date:** 1959

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**Publication/journal/publisher:** New Mexico Bureau of Mines & Mineral Resources, Bulletin 60, 151 pages.

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**Type of document:** Electronic file (CD), out of print

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**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/bulletins/60/>>

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**Purchase Price:** \$10.00 for CD

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**Web site address:**

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**Document Location:** Contact NMBGMR

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**Work initiated by:**

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Northern Big Burro Mountains, Redrock area, Grant County

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**Abstract or brief summary:**

The northern Big Burro Mountains-Redrock area, part of the Basin and Range province, is in Grant County, southwestern NM. Precambrian metamorphic and igneous rocks underlie the northwest-trending mountains; Pliocene Gila conglomerate and younger, unconsolidated gravels underlie the desert basin southwest of the mountains. North-dipping, Upper Cretaceous Beartooth quartzite and Colorado shale beds and early- to middle-Tertiary quartz latite-rhyolite flows cover the northern end of the mountains. Laramide and post-Laramide stocks and dikes have been intruded into Precambrian, Cretaceous, and early-Tertiary rocks.

**Topic category:** Geology

**Keywords:** Geology, map, Silver City, Grant

**County:** Grant County

**Title:** Preliminary geologic map of the Silver City 7.5-minute quadrangle map, Grant County, New Mexico

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**Author:** Hildebrand, R.S., C.A. Ferguson, and S. Skotnicki

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**Date:** 2008

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**Publication/journal/publisher:** New Mexico Bureau of Geology and Mineral Resources, Open-file Digital Geologic Map OF-GM 164, Scale 1:24,000, May 2008, DRAFT

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**Type of document:** Electronic file (PDF)

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**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search

<<http://geoinfo.nmt.edu/publications/maps/geologic/ofgm/details.cfm?Volume=164>>

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**Purchase Price:** \$10.00

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**Web site address:**

[http://geoinfo.nmt.edu/publications/maps/geologic/ofgm/downloads/164/Silver\\_City\\_v1p-00.pdf](http://geoinfo.nmt.edu/publications/maps/geologic/ofgm/downloads/164/Silver_City_v1p-00.pdf)

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**Document Location:** NMBGMR online

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**Work initiated by:** NMBGMR

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**Work funded by:** NMBGMR, USGS, STATEMAP

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**Type of review:**

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**Location of Work:** Silver City quadrangle, Grant County

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**Abstract or brief summary:**

Preliminary geologic map, geologic unit descriptions, and photos for the Silver City quadrangle.

**Topic category:** Geology

**Keywords:** Tres Hermanas Mountains, Luna county,  
contact metamorphism

**County:** Luna County

**Title:** Contact Metamorphism in the Tres Hermanas Mountains, Luna County, New Mexico

**Author:** Homme, F.C., and A. Rosenzweig

**Date:** 1970

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 21,  
Tyrone-Big Hatchet Mountain-Florida Mountains Region

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/21/>

**Purchase Price:** \$20.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/21/>

**Document Location:** Contact NMGS

**Work initiated by:** University of New Mexico

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Tres Hermanas Mountains, Luna county

**Abstract or brief summary:**

Description of contact rocks and their paragenesis as well as mineralogy are contained in this paper.

**Topic category:** Geology

**Keywords:** Geology, map, Alma quadrangle, Catron

**County:** Catron County

**Title:** Geologic map of the Alma quadrangle, Catron County, New Mexico

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**Author:** Houser, B.

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**Date:** 1987

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**Publication/journal/publisher:** U.S. Geological Survey, Geologic Quadrangle 1610, 1 map :col. ;58 x 49 cm., on sheet 84 x 94 cm., folded in envelope 25 x 32 cm.

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**Type of document:** Map Sheet - limited availability

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/gq/gq1610>>

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**Purchase Price:** \$9.00

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/gq/gq1610>

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**Document Location:** Contact USGS

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**Work initiated by:** USGS

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Catron County

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**Abstract or brief summary:**

Geologic map of the Alma quadrangle



**Topic category:** Geology

**Keywords:** Geology, mineral deposits, Lake Valley, Grant, Luna, Socorro

**County:** Grant and Luna Counties

**Title:** Geology and Mineral Deposits of Lake Valley Quadrangle, Grant, Luna, and Sierra Counties, New Mexico

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**Author:** Jicha, H.L.Jr.

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**Date:** 1954

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**Publication/journal/publisher:** New Mexico Bureau of Mines & Mineral Resources, Bulletin 37, 93 pages (reprinted 1980).

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**Type of document:** Printed report

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**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/bulletins/37/>>

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**Purchase Price:** \$9.50

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**Web site address:**

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**Document Location:** Contact NMBGMR

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**Work initiated by:**

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Lake Valley Quadrangle, Grant, Luna, and Sierra Counties

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**Abstract or brief summary:**

Lake Valley quadrangle is located about 15 mi north of Deming, in southwestern NM. One of the main structural features is the north-south trending Mimbres Range, a faulted anticlinal high which extends along the west side of the quadrangle as an extension from the Black Range anticline to the north. The Mimbres Mountains terminate at a regional fault which separates them from Cooks Range, a large faulted mass of Precambrian, Paleozoic, and Mesozoic rocks cut by intrusions, in the southwestern corner of the area. A third large structural feature is in Lake Valley fault block in the northeast, in which early and middle Paleozoic limestones and shales have been raised to the level of surrounding Tertiary volcanics. Lesser faults of general north-south and east-west trend are found in many areas, but are difficult to trace for any distance in the volcanic rocks.

**Topic category:** Geology

**Keywords:** Geology, stratigraphy, Baca Formation

**County:** Southwestern NM

**Title:** Genetic stratigraphy and provenance of the Baca Formation, New Mexico, and the Eagar Formation, Arizona

**Author:** Johnson, B.D.

**Date:** 1978

**Publication/journal/publisher:** Unpublished M.S. thesis, University of Texas, Austin, Texas. 150p

**Type of document:** Printed report

**Source of document / Search method (phone, internet, library, etc.):**

University of Texas at Austin, Walter Geology Library, Call Number: Thesis 1978 J630

**Purchase Price:**

**Web site address:** <http://www.lib.utexas.edu/geo/index.html>

**Document Location:** University of Texas, Austin

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Southwestern NM

**Abstract or brief summary:**

Determines source area and sediment dispersal patterns for the basin. Formation and Mogollon Rim gravels of Arizona comprise an Eocene-early Oligocene sequence of claystone, mudstone, sandstone, and conglomerate which crops out in discontinuous exposures along an east-west-trending belt from Socorro, New Mexico, to Show Low, Arizona. The outcrop belt transects the southern part of the east-west-trending Baca-Eagar basin. The basin is bounded on the north by the Defiance and Zuni uplifts, on the south by the Mogollon highland of Arizona and New Mexico, and on the east by the Sierra-Sandia uplift. These uplifts were the primary sources of sediments for the basin. A depositional model is presented which consists of a braided alluvial plain-meander-belt-lacustrine facies tract. The meander-belt facies includes both fine- and coarse-grained point-bar deposits. The lacustrine facies contains both the classical Gilbert-type delta and the fine-grained marine-type delta. High concentrations of calcium carbonate in the lacustrine sediments indicate a closed-lake system

**Topic category:** Geology

**Keywords:** Geology, mining, Silver City, Central Mining District, Grant County, map

**County:** Grant County

**Title:** The central mining district, Grant County, New Mexico

**Author:** Jones, W.R.

**Date:** 1956

**Publication/journal/publisher:** U.S. Geological Survey, Open-File Report 56-65, 1 v. :4 folded maps ;30 cm.

**Type of document:** Electronic file (DJVU)

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/ofr/ofr5665>>

**Purchase Price:** \$10.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/ofr/ofr5665>

**Document Location:** USGS online

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Central mining district, Grant County

**Abstract or brief summary:**

Geologic map of the central mining district with detailed descriptions of the units and formations and the intrusive igneous rocks.

**Topic category:** Geology  
**Keywords:** Geology, Santa Rita, Grant County  
**County:** Grant County

**Title:** General geology of Santa Rita quadrangle, Grant County, New Mexico

**Author:** Jones, W.R., R.M. Hernon, and S.L. Moore

**Date:** 1967

**Publication/journal/publisher:** U.S. Geological Survey, Professional Paper 555, 144 p.

**Type of document:** Electronic file (DJVU)

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/pp/pp555>>

**Purchase Price:** not in stock

**Web site address:**

**Document Location:** USGS online

**Work initiated by:** USGS

**Work funded by:**

**Type of review:** peer review

**Location of Work:** Grant County

**Abstract or brief summary:**

Geology of the Santa Rita Quadrangle in Grant County, New Mexico. Exposed rocks of the quadrangle range in age from Precambrian to Recent, and this report discusses where these strata are exposed, faulted, and folded are discussed in detail.

**Topic category:** Geology

**Keywords:** Geology, map, Fort Bayard, Grant

**County:** Grant County

**Title:** Geologic map of the Fort Bayard quadrangle, Grant County, New Mexico

**Author:** Jones, W.R., S.L. Moore, and W.P. Pratt

**Date:** 1970

**Publication/journal/publisher:** U.S. Geological Survey, Geologic Quadrangle 865, Scale 1:24,000, 1 map.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/gq/gq865>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/gq/gq865>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the Fort Bayard quadrangle

**Topic category:** Geology

**Keywords:** Geology, ore, mining, Royal John Area, Swartz, Grant

**County:** Grant County

**Title:** Geology and Ore Deposits of the Royal John Area: Swartz District, Grant County, New Mexico

**Author:** Kinney, D.M.

**Date:** 1944

**Publication/journal/publisher:** U.S. Geological Survey, Open-File Report 44-3, 18 p.

**Type of document:** Electronic file (DJVU)

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/ofr/ofr443>>

**Purchase Price:** \$10.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/ofr/ofr443>

**Document Location:** USGS online

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Grant

**Abstract or brief summary:**

Description and mapping of the sedimentary and igneous rocks, structural geology, and ore deposits of the Swartz District.

**Topic category:** Geology

**Keywords:** Geology, structure, basin and range, seismic, southwestern NM

**County:** Southwestern NM

**Title:** Structure of the basins and ranges, southwest New Mexico: an interpretation of seismic velocity sections

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**Author:** Klein, D.P., G.A. Abrams, and P.L. Hill

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**Date:** 1995

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**Publication/journal/publisher:** U.S. Geological Survey, Open-File Report 95-506, 53 p.

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**Type of document:** Printed Report

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**Source of document / Search method (phone, internet, library, etc.):**

Ordered through interlibrary loan, found through USGS publication search  
,<http://pubs.er.usgs.gov/usgspubs/ofr/ofr95506>

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**Purchase Price:**

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**Web site address:**

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**Document Location:** University of Alabama

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**Work initiated by:** USGS Mineral Surveys Program

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**Work funded by:** Bureau of Land Management

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**Type of review:**

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**Location of Work:** Southwest NM

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**Abstract or brief summary:**

This report presents a geologic appraisal of seismic velocity sections that profile a total of 790 km in southwest New Mexico west of Las Cruces and south of Lordsburg and Deming. The present work outlines the contribution of these velocity sections to estimating areas favorable for mineral resource occurrences.

**Topic category:** Geology

**Keywords:** Geology, Tyrone, Southwest

**County:** Southwestern NM

**Title:** The Tyrone District

**Author:** Kleinhampl, F.J.

**Date:** 1953

**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 4, Southwestern New Mexico, 131-133. Reprinted 1996.

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/4/>

**Purchase Price:** \$20.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/4/>

**Document Location:** Contact NMGS

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern NM

**Abstract or brief summary:**

This article discusses the history, dominant topographic features, geology, faulting, fracturing, intrusion, and ore deposits of the Tyrone district.



**Topic category:** Geology

**Keywords:** geology, copper deposits, Tyrone district

**County:** Grant County

**Title:** Geology and Copper Deposits of the Tyrone District

**Author:** Kolessar, J.

**Date:** 1970

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 21,  
Tyrone-Big Hatchet Mountain-Florida Mountains Region

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/21/>

**Purchase Price:** \$20.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/21/>

**Document Location:** Contact NMGS

**Work initiated by:** Phelps Dodge Corporation

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Big Burro Mountains, Grant county

**Abstract or brief summary:**

The Tyrone copper deposit is the main focus with additional information on rock type and mineralization.

**Topic category:** Geology

**Keywords:** Geology, Tertiary, Quaternary, Rio Grande, Southern

**County:** Southern NM

**Title:** Tertiary-Quaternary Sediments of the Rio Grande Valley in Southern New Mexico

**Author:** Kottlowski, F.E.

**Date:** 1953

**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 4, Southwestern New Mexico, 144-148. Reprinted 1996.

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/4/>

**Purchase Price:** \$20.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/4/>

**Document Location:** Contact NMGS

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern NM

**Abstract or brief summary:**

This article discusses Tertiary and Quaternary sediments of the Rio Grande Valley in Southern New Mexico. Areas discussed include El Paso, La Mesa, La Union, Fort Bliss, Cerro del Muleros, Mesilla Valley, Chamberino, Las Cruces, the Organ Mountains, Selden Canyon, Selden Hills, Tonuco Mountain, Caballo Mountains Hatch, and Truth or Consequences.

**Topic category:** Geology

**Keywords:** Pennsylvanian, Datil Plateau

**County:** West-central New Mexico

**Title:** Pennsylvanian rocks of the northeast edge of the Datil Plateau

**Author:** Kottowski, F.E.

**Date:** 1959

**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 10, West-Central New Mexico, 57-62. Reprinted 1996.

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/10/>

**Purchase Price:** \$20.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/10/>

**Document Location:** Contact NMGS

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** West-Central NM

**Abstract or brief summary:**

This article discusses the pre-Pennsylvanian and Pennsylvanian rocks of the Northern Datil Plateau, Zuni Mountains, Acoma Sag, and Rio Grande Graben.

**Topic category:** Geology

**Keywords:** Geology, Paleozoic, Stratigraphy,  
Southwest

**County:** Southwestern NM

**Title:** Facets of the Late Paleozoic Strata in Southwestern New Mexico

**Author:** Kottlowski, F.E.

**Date:** 1965

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 16  
Southwestern New Mexico II

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/16/>

**Purchase Price:** \$12.50 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/16/>

**Document Location:** Contact NMGS

**Work initiated by:** NM Bureau of Mines and Mineral Resources

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern NM

**Abstract or brief summary:**

A description of late Paleozoic stratigraphy.

**Topic category:** Geology  
**Keywords:** Geology, Gila, Grant  
**County:** Grant County

**Title:** Geology of the Southern Part of Gila Primitive Area, Grant County, NM

**Author:** Krier, D.J.

**Date:** 1980

**Publication/journal/publisher:** UNM

**Type of document:** Thesis

**Source of document / Search method (phone, internet, library, etc.):**

UNM 7047886

**Purchase Price:**

**Web site address:**

**Document Location:** UNM Library

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Grant County

**Abstract or brief summary:**

**Topic category:** Geology

**Keywords:** Geology, southwestern New Mexico, south-central New Mexico

**County:** Southwestern NM

**Title:** Early geological studies in southwestern and south-central New Mexico

**Author:** Kues, B.S.

**Date:** 2008

**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 59, Geology of the Gila Wilderness-Silver City area, 77-106.

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/59/>

**Purchase Price:** \$45.00 for entire book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/59/>

**Document Location:** Contact NMGS

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern NM

**Abstract or brief summary:**

Geologic studies in New Mexico commenced with the beginning of American administration of the territory in the late 1840s, and this paper discusses early geological studies in southwestern and south-central New Mexico beginning in 1846.

**Topic category:** Geology

**Keywords:** Geology, map, Fence Lake, Catron

**County:** Catron County

**Title:** Geologic map of the Fence Lake SW Quadrangle, Cibola and Catron counties, New Mexico

**Author:** Landis, E.R., M.W. McLellan, E.J. McKay, M.D. Carter, and A.L. Medlin

**Date:** 1985

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1750

1 map ;58 x 48 cm., on sheet 79 x 116 cm., folded in envelope 25 x 32 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1750>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1750>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Catron County

**Abstract or brief summary:**

Geologic map of the Fence Lake SW Quadrangle

**Topic category:** Geology

**Keywords:** Geology, ore deposits, Ground Hog Mine,  
Central Mine District, Grant

**County:** Grant County

**Title:** Geology and Ore Deposits of the Ground Hog Mine, Central District, Grant County, New Mexico

**Author:** Lasky, S.G.

**Date:** 1930

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources, Circular 2, 14  
pages.

**Type of document:** Electronic file (CD), out of print

**Source of document / Search method (phone, internet, library, etc.):**  
NMBGMR search

**Purchase Price:** \$10.00 for CD

**Web site address:**

**Document Location:** Contact NMBGMR

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Ground Hog Mine, Grant County

**Abstract or brief summary:**



**Topic category:** Geology

**Keywords:** Geology, Bayard, Central Mining District,  
Grant

**County:** Grant County

**Title:** Geology and ore deposits of the Bayard area, Central mining district, New Mexico

**Author:** Lasky, S.G.

**Date:** 1936

**Publication/journal/publisher:** U.S. Geological Survey, Bulletin 870, vi, 144 p. :incl. tables, diagrs. 17 pl.  
(part fold., part col. ; incl. maps.) ;28 cm.

**Type of document:** Printed report

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/b/b870>>

**Purchase Price:** not in stock

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/b/b870>

**Document Location:** Contact USGS

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Grant County, Central Mining District

**Abstract or brief summary:**

Describes geology and ore deposits of the Bayard area of the Central Mining District

**Topic category:** Geology

**Keywords:** Geology, ore, mining, Lordsburg, Hidalgo

**County:** Hidalgo County

**Title:** Geology and ore deposits of the Lordsburg mining district, Hidalgo County, New Mexico

**Author:** Lasky, S.G.

**Date:** 1938

**Publication/journal/publisher:** U.S. Geological Survey, Bulletin 885, v, 62 p. :ill., 25 pl. part fold. (incl. maps, plans, diagrs.) ;29 cm.

**Type of document:** Printed report

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/b/b885>>

**Purchase Price:** not in stock

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/b/b885>

**Document Location:** Contact USGS

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Hidalgo County

**Abstract or brief summary:**

Describes the geology and ore deposits of the Lordsburg mining district

**Topic category:** Geology

**Keywords:** Geology, ore, mining, Little Hatchet Mountains, Hidalgo, Grant

**County:** Grant and Hidalgo Counties

**Title:** Geology and ore deposits of the Little Hatchet Mountains, Hidalgo and Grant Counties, New Mexico

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**Author:** Lasky, S.G.

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**Date:** 1947

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**Publication/journal/publisher:** U.S. Geological Survey, Professional Paper 208, 101 p.

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**Type of document:** Printed report

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/pp/pp208>>

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**Purchase Price:** not in stock

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/pp/pp208>

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**Document Location:** Contact USGS

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**Work initiated by:**

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Grant & Hidalgo Counties

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**Abstract or brief summary:**

Describes the geology and ore deposits of the Little Hatchet Mountains

**Topic category:** Geology  
**Keywords:** Upper Gila river, Hooker Damsite  
**County:** Arizona/New Mexico

**Title:** Upper Gila River Geologic Reconnaissance of Hooker Damsite

**Author:** Lasson, G.D

**Date:** 1947

**Publication/journal/publisher:** Bureau of Reclamation

**Type of document:** Report

**Source of document / Search method (phone, internet, library, etc.):**  
BOR Phoenix Area Office Library

**Purchase Price:**

**Web site address:**

**Document Location:**

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Arizona/New Mexico

**Abstract or brief summary:**

**Topic category:** Geology

**Keywords:** Geology, map, Indian Peaks, Catron

**County:** Catron County

**Title:** Geologic map of the Indian Peaks West Quadrangle, Catron County, New Mexico

**Author:** Lawrence, V.A. and D.H. Richter

**Date:** 1986

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map MF-1849, 1 map ;58 x 49 cm., on sheet 73 x 102 cm., folded in envelope 25 x 32 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1849>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1849>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Catron County

**Abstract or brief summary:**

Geologic map of the Indian Peaks West Quadrangle

**Topic category:** Geology

**Keywords:** geology, jurassic, cretaceous, strata

**County:** Southwestern, NM

**Title:** Upper Jurassic and Lower Cretaceous strata of southwestern New Mexico and northern Chihuahua, Mexico

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**Author:** Lawton, T.F.

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**Date:** 2004

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**Publication/journal/publisher:** New Mexico Geological Society Special Publication 11, The Geology of New Mexico: A Geologic History

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**Type of document:** Book

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**Source of document / Search method (phone, internet, library, etc.):**

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**Purchase Price:**

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**Web site address:**

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**Document Location:**

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**Work initiated by:**

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Southwestern, NM

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**Abstract or brief summary:**

The purpose of this chapter is the review current knowledge of Mesozoic strata of southwestern New Mexico and northernmost Chihuahua.

**Topic category:** Geology

**Keywords:** Geology, map, Datil, Catron

**County:** Catron County

**Title:** Geologic map of the Datil area, Catron County, New Mexico

**Author:** Lopez, D.A. and T.J. Bornhorst

**Date:** 1979

**Publication/journal/publisher:** U.S. Geological Survey, IMAP 1098, 1 map : col. ;56 x 59 cm.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/i/i1098>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/i/i1098>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Catron County

**Abstract or brief summary:**

Geologic map of the Datil area

**Topic category:** Geology

**Keywords:** Cretaceous, stratigraphy, biostratigraphy,  
Cooke's Range, Luna County

**County:** Luna County

**Title:** Cretaceous stratigraphy and biostratigraphy, Cooke's Range, Luna County, New Mexico

**Author:** Lucas, S.G, B.S. Kues, S.N. Hayden, B.D. Allen, K.K. Kietzke, T.E. Williamson, P. Sealey, and R. Pence

**Date:** 1988

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 39,  
Cretaceous and Laramide Tectonic Evolution of Southwestern New  
Mexico

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/39/>

**Purchase Price:** \$10.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/39/>

**Document Location:** Contact NMGS

**Work initiated by:** University of New Mexico

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Luna County

**Abstract or brief summary:**

Cretaceous strata in the Cooke's Range pertain to the Sarten and Mancos formations.



**Topic category:** Geology

**Keywords:** Geology, Stratigraphy, Little Hatchet Mountains, Hidalgo, Grant, Bisbee Group

**County:** Hidalgo and Grant

**Title:** Stratigraphy of the Bisbee Group (Jurassic-Cretaceous), Little Hatchet Mountains, New Mexico

**Author:** Lucas, S.G. and T.E. Lawton

**Date:** 2000

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 51, Southwest Passage-A trip through the Phanerozoic

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/51/>

**Purchase Price:** \$25.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/51/>

**Document Location:** Contact NMGS

**Work initiated by:** New Mexico Museum of Natural History and Science and New Mexico State University

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Little Hatchet Mountains, Hidalgo and Grant

**Abstract or brief summary:**

Upper Jurassic-Lower Cretaceous strata of the Bisbee Group exposed in the Little Hatchet Mountains of Grant and Hidalgo Counties, New Mexico, are assigned to four formations: Broken Jug, Hell-to-Finish, U-Bar, and Mojado.

**Topic category:** Geology

**Keywords:** crustal extension, cenozoic, sedimentation, volcanism, Rio Grande rift, Basin and Range, Transition Zone

**County:** Southwestern, NM

**Title:** Middle and late Cenozoic crustal extension, sedimentation, and volcanism in the southern Rio Grande rift, Basin and Range, and southern Transition Zone of southwestern New Mexico

**Author:** Mack, G.H.

**Date:** 2004

**Publication/journal/publisher:** New Mexico Geological Society Special Publication 11, The Geology of New Mexico: A Geologic History

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

**Purchase Price:**

**Web site address:**

**Document Location:**

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Southwestern, NM

**Abstract or brief summary:**

The main goals of this study are (1) to provide regional correlation of the basin-fill and volcanic strata of the three tectonic provinces, (2) to present a series of paleotectonic/paleogeographic maps of the region, which track the evolution of the major fault-block uplifts and their complementary basins, and (3) to compare the timing and style of deformation among the three provinces and their relation to tectonic models.

**Topic category:** Geology

**Keywords:** geology, El Paso formation, Bliss formation, southwestern New Mexico

**County:** Southwestern, NM

**Title:** The Cambro-Ordovician Bliss and Lower Ordovician El Paso Formations, southwestern New Mexico and west Texas.

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**Author:** Mack, G.H.

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**Date:** 2004

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**Publication/journal/publisher:** New Mexico Geological Society Special Publication 11, The Geology of New Mexico: A Geologic History

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**Type of document:** Paper in Book

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**Source of document / Search method (phone, internet, library, etc.):**

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**Purchase Price:**

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**Web site address:**

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**Document Location:**

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**Work initiated by:**

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Southwestern, NM

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**Abstract or brief summary:**

The basic stratigraphy of the Bliss and El Paso formations is summarized here, along with interpretation of the general depositional systems, paleogeography, and paleotectonics.

**Topic category:** Geology

**Keywords:** Stable oxygen and carbon isotopes, calcite, Gila Conglomerate, Mangas Basin

**County:** West-central New Mexico

**Title:** Paleoclimatic implications of stable oxygen and carbon isotopes of lacustrine and pedogenic calcite from the Gila Conglomerate, (Plio-Pleistocene), Mangas Basin, west-central New Mexico

**Author:** Mack, G.H. and N.J. Tabor

**Date:** 2008

**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 59, Geology of the Gila Wilderness-Silver City area, 159-166.

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/59/>

**Purchase Price:** \$45.00 for entire book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/59/>

**Document Location:** Contact NMGS

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** West-central New Mexico

**Abstract or brief summary:**

Stable carbon and oxygen isotopes of lacustrine and pedogenic calcite of the Gila Formation (Plio-Pleistocene) in the Mangas Basin, west-central New Mexico, provide information about paleoclimate when compared to similar data from coeval strata in the southern Rio Grande rift near Las Cruces and in the Basin and Range of southeastern Arizona, as well as to modern calcite predicted to precipitate at the sites of the ancient strata.

**Topic category:** Geology

**Keywords:** Structure, Stratigraphy, Laramide Burro uplift

**County:** Grant County

**Title:** Structural and stratigraphic evidence for the Laramide (early Tertiary) Burro uplift in southwestern New Mexico

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**Author:** Mack, G.H. and R.E. Clemons

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**Date:** 1988

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**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 39, Cretaceous and Laramide Tectonic Evolution of Southwestern New Mexico

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**Type of document:** Paper in Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/39/>

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**Purchase Price:** \$10.00 for Entire Book

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/39/>

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**Document Location:** Contact NMGS

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**Work initiated by:** New Mexico State University

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**Work funded by:**

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**Type of review:** Journal Peer Review

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**Location of Work:** Big Burro Mountains, Grant

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**Abstract or brief summary:**

The late Laramide Burro uplift in the vicinity of the Florida Mountains and southern Cooke's Range, southwestern New Mexico, was a west-northwest-trending, basement-cored uplift that consisted of at least three major segments.

**Topic category:** Geology

**Keywords:** Cretaceous, sedimentation, stratigraphy,  
cretaceous foreland basin

**County:** Southwestern, NM

**Title:** The Cretaceous foreland basin in southwestern New Mexico

**Author:** Mack, G.H., J.A. Galemore, and E.L. Kacimarek

**Date:** 1988

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 39,  
Cretaceous and Laramide Tectonic Evolution of Southwestern New  
Mexico

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/39/>

**Purchase Price:** \$10.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/39/>

**Document Location:** Contact NMGS

**Work initiated by:** New Mexico State University, Dept. of Earth Sciences

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern, NM

**Abstract or brief summary:**

Early Cretaceous sedimentation in southwestern New Mexico began in a west-northwest-trending rift basin that was bordered on the north by a basement-cored rift shoulder.

**Topic category:** Geology

**Keywords:** soil association, land classification, Luna

**County:** Luna County

**Title:** Soil association and land classification, Luna County

**Author:** Maker, H.J., O.F. Bailey, and J.U. Anderson

**Date:** 1970

**Publication/journal/publisher:** New Mexico State University, New Mexico Agriculture Experiment  
Station Research Report 176.

**Type of document:** Printed report

**Source of document / Search method (phone, internet, library, etc.):**

**Purchase Price:**

**Web site address:**

**Document Location:** Contact NMSU

**Work initiated by:** NMSU

**Work funded by:**

**Type of review:**

**Location of Work:** Luna County

**Abstract or brief summary:**

**Topic category:** Geology

**Keywords:** geochronology, Florida Mountains

**County:** Luna County

**Title:** Geochronologic studies of the Florida Mountains

**Author:** Matheney, R.K., M. Shed-Hall, D.G. Brookins, P.E. Damon, and E.T. Wallin

**Date:** 1988

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 39,  
Cretaceous and Laramide Tectonic Evolution of Southwestern New  
Mexico

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/39/>

**Purchase Price:** \$10.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/39/>

**Document Location:** Contact NMGS

**Work initiated by:** Arizona State University

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Florida Mountains, Luna County

**Abstract or brief summary:**

Numerous geochronological studies have been carried out on samples from the Florida Mountains, southern New Mexico.



**Topic category:** Geology

**Keywords:** Geology, map, stratigraphy, salt lake coal field, Catron

**County:** Catron County

**Title:** Stratigraphic framework, structure, and general geology of the Salt Lake Coal Field, Cibola and Catron Counties, New Mexico

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**Author:** McLellan, M.W., L.R. Biewick, and E.R. Landis

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**Date:** 1984

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**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map MF-1689, scale 1:100,000, 1 map ;28 x 23 cm., on sheet 93 x 101 cm., folded in envelope 25 x 32 cm.

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**Type of document:** Map Sheet - limited availability

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**Source of document / Search method (phone, internet, library, etc.):**  
USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1689>>

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**Purchase Price:** \$9.00

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1689>

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**Document Location:** Contact USGS

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**Work initiated by:** USGS

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Salt Lake Coal Field, Catron County

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**Abstract or brief summary:**

Stratigraphic framework, structure, and geology of the Salt Lake Coal Field.

**Topic category:** Geology

**Keywords:** Geology, map, Moreno Hill, Catron

**County:** Catron County

**Title:** Geologic map of the Moreno Hill Quadrangle, Cibola and Catron counties, New Mexico

**Author:** McLellan, M.W., L.R. Haschke, L.N., Robinson, and E.R. Landis

**Date:** 1983

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map MF-1509, 1 map ;58 x 48 cm. folded in envelope 25 x 32 cm.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1509>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1509>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Catron County

**Abstract or brief summary:**

Geologic map Moreno Hill quadrangle

**Topic category:** Geology

**Keywords:** geology, mineral deposits, Wild Horse Mesa, Burro Mountains, Grant,

**County:** Grant County

**Title:** Geology and mineral resources of the Wild Horse Mesa area, Burro Mountains, Grant County, New Mexico

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**Author:** McLemore, V.T.

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**Date:** 2000

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**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 51, Southwest Passage-A trip through the Phanerozoic

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**Type of document:** Paper in Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/51/>

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**Purchase Price:** \$25.00 for Entire Book

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/51/>

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**Document Location:** Contact NMGS

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**Work initiated by:** New Mexico Bureau of Mines and Mineral Resources

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**Work funded by:**

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**Type of review:** Journal Peer Review

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**Location of Work:** Burro Mountains, Wild Horse Mesa, Grant County

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**Abstract or brief summary:**

The alteration, vein textures, metal association, and proximity to the ring-fracture zone of the Schoolhouse Mountain caldera indicate that the mineral deposits at Wild Horse Mesa in the eastern Telegraph district of the northern Burro Mountains are volcanic-epithermal veins.

**Topic category:** Geology

**Keywords:** geology, mineral, mining, Burro Mountains, Grant

**County:** Grant County

**Title:** Mineral Resources of the Wild Horse Mesa Area, Northeastern Burro Mountains, Grant County, New Mexico

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**Author:** McLemore, V.T.

---

**Date:** 2005

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**Publication/journal/publisher:** New Mexico Bureau of Geology and Mineral Resources, Open File Report 486

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**Type of document:** Electronic file (PDF)

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**Source of document / Search method (phone, internet, library, etc.):**

[http://geoinfo.nmt.edu/publications/openfile/downloads/OFR400-499/476-499/486/486\\_CDROM/wildhorse.pdf](http://geoinfo.nmt.edu/publications/openfile/downloads/OFR400-499/476-499/486/486_CDROM/wildhorse.pdf)

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**Purchase Price:** online

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**Web site address:** [http://geoinfo.nmt.edu/publications/openfile/downloads/OFR400-499/476-499/486/486\\_CDROM/wildhorse.pdf](http://geoinfo.nmt.edu/publications/openfile/downloads/OFR400-499/476-499/486/486_CDROM/wildhorse.pdf)

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**Document Location:** online

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**Work initiated by:** NMBGMR

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**Work funded by:** NMGBMR

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**Type of review:** peer review

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**Location of Work:** Grant County, Burro Mountains

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**Abstract or brief summary:**

The alteration, vein textures, metal association, and proximity to the ring-fracture zone of the Schoolhouse Mountain caldera indicate that the mineral deposits at Wild Horse Mesa in the eastern Telegraph district of the northern Burro Mountains are volcanic-epithermal veins, including 1) epithermal fluorite veins, 2) uranium vein and minor stratabound, sandstone uranium, 3) base-metal veins, and 4) barite veins. The presence of gold concentrations in surface samples and the interpretation of the deposits being at the top of a volcanic-epithermal system suggest that additional deposits are most likely to be deep. However, due to the remoteness of the area and low grades, it is unlikely that these deposits will be mined in the near future.

**Topic category:** Geology

**Keywords:** geology, mineral deposits, mining history, Hidalgo

**County:** Hidalgo County

**Title:** Geology and mineral occurrences of the mineral districts of Hidalgo County, southern New Mexico

---

**Author:** McLemore, V.T. and W.E. Elston

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**Date:** 2000

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**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 51, Southwest Passage-A trip through the Phanerozoic

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**Type of document:** Paper in Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/51/>

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**Purchase Price:** \$25.00 for Entire Book

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/51/>

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**Document Location:** Contact NMGS

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**Work initiated by:** New Mexico Bureau of Mines and Mineral Resources

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**Work funded by:**

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**Type of review:** Journal Peer Review

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**Location of Work:** Hidalgo County

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**Abstract or brief summary:**

Value of metallic mineral production from 15 districts in Hidalgo County is estimated as \$65 million during 1875-1994 (not including the Hidalgo smelter output or aggregate production). The majority of past metal production came from the Lordsburg district, which is the 5th largest gold-producing district and 3rd largest silver-producing district in New Mexico.

**Topic category:** Geology

**Keywords:** geology, mineral deposits, mining history,  
Luna county

**County:** Luna County

**Title:** Geology and mineral deposits of the Victorio mining district, Luna County, New Mexico--  
preliminary observations

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**Author:** McLemore, V.T., N. Dunbar, M.T. Heizler, and K. Donahue

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**Date:** 2000

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**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 51,  
Southwest Passage-A trip through the Phanerozoic

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**Type of document:** Paper in Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/51/>

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**Purchase Price:** \$25.00 for Entire Book

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/51/>

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**Document Location:** Contact NMGS

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**Work initiated by:** New Mexico Bureau of Mines and Mineral Resources

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**Work funded by:**

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**Type of review:** Journal Peer Review

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**Location of Work:** Victorio mining district, Luna County

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**Abstract or brief summary:**

Three types of mineral deposits (carbonate-hosted Pb-Zn replacement, W-Be-Mo skarn/vein, and porphyry Mo deposits) occur in the Victorio mining district.

**Topic category:** Geology

**Keywords:** Geology, map, Allie Canyon, Grant

**County:** Grant County

**Title:** Geologic map of the Allie Canyon quadrangle, Grant County, New Mexico

**Author:** Moore, S.L.

**Date:** 1987

**Publication/journal/publisher:** U.S. Geological Survey, Geologic Quadrangle 1606, 1 map :col. ;58 x 49 cm., on sheet 86 x 97 cm., folded in envelope 25 x 32 cm.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/gq/gq1606>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/gq/gq1606>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant County

**Abstract or brief summary:**

Geologic map of the Allie Canyon quadrangle

**Topic category:** Geology

**Keywords:** Geology, mines, New Mexico

**County:** New Mexico

**Title:** Mines, mills, and quarries in New Mexico

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**Author:** New Mexico Energy, Minerals, and Natural Resources Department; New Mexico Bureau of Geology and Mineral Resources; New Mexico Bureau of Mine Inspection

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**Date:** 2001

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**Publication/journal/publisher:** New Mexico Energy, Minerals, and Natural Resources Department; New Mexico Bureau of Geology and Mineral Resources; New Mexico Bureau of Mine Inspection

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**Type of document:** Electronic file (PDF)

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**Source of document / Search method (phone, internet, library, etc.):**

[http://geoinfo.nmt.edu/publications/mines\\_minerals/nm\\_mmq/home.html](http://geoinfo.nmt.edu/publications/mines_minerals/nm_mmq/home.html)

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**Purchase Price:** online

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**Web site address:**

[http://geoinfo.nmt.edu/publications/mines\\_minerals/nm\\_mmq/NM\\_mines\\_mills\\_quarries.pdf](http://geoinfo.nmt.edu/publications/mines_minerals/nm_mmq/NM_mines_mills_quarries.pdf)

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**Document Location:** online

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**Work initiated by:**

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**Work funded by:**

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**Type of review:**

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**Location of Work:** New Mexico

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**Abstract or brief summary:**

Mines, Mills, and Quarries in New Mexico is a cooperative publication. Data on active mining operations are collected and are now organized in the text by the type of commodity based on the reporting form.



**Topic category:** Geology

**Keywords:** Mineralization, Calcareous, Santa Rita Stock

**County:** Grant County

**Title:** Mineralization and Alteration in Calcareous Rocks near the Santa Rita Stock, New Mexico

**Author:** Nielsen, R.L.

**Date:** 1970

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 21, Tyrone-Big Hatchet Mountain-Florida Mountains Region

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/21/>

**Purchase Price:** \$20.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/21/>

**Document Location:** Contact NMGS

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Santa Rita, Grant County

**Abstract or brief summary:**

The paper describes mineralization and alteration in some sedimentary host rocks surrounding the Chino porphyry copper deposit at Santa Rita.

**Topic category:** Geology

**Keywords:** Geology, mining, Fence Lake,  
Environmental Impact Statement

**County:** Catron County

**Title:** Proposed Mining Plan and Permit Application, Fence Lake Mine, Catron and Cibola Counties, New Mexico, and Apache County, Arizona.

**Author:** Office of Surface Mining, Reclamation, and Enforcement

**Date:** 1995

**Publication/journal/publisher:** Draft Supplemental Environmental Impact Statement OSM-EIS-31, Volumes I and II.

**Type of document:** Printed report

**Source of document / Search method (phone, internet, library, etc.):**  
U.S. Department of the Interior, Office of Surface Mining

**Purchase Price:** none

**Web site address:** Unknown

**Document Location:** DBS&A project file

**Work initiated by:** DOI Office of Surface Mining Reclamation and Enforcement

**Work funded by:** DOI Office of Surface Mining Reclamation and Enforcement?

**Type of review:** Agency Review

**Location of Work:** Catron and Cibola Counties, NM and Apache County, AZ

**Abstract or brief summary:**

The Salt River Project Agricultural Improvement and Power District's proposed Fence Lake project has two basic elements. The first of these is the proposed Fence Lake surface coal mine, consisting of Federal, State, and private coal leaseholds situated in northwest Quemado, NM. The proposed surface coal mine would cover about 16,813 acres total, of which 7,885 acres would eventually be disturbed. Mining at Fence lake would remove approximately 81.3 million tons of coal over the 50-year life of mine utilizing surface mining methods. Specifically, it would remove about 1.8 million tons of coal per year from year 3 through year 28 and about 3 million tons of coal per year from year 29 through year 40. The second element of the Fence Lake project would be a proposed 44-mile railroad corridor that would be associated with the proposed mine. The railroad corridor would be constructed west from the mine to supply coal to the existing Coronado Generating Station, located approximately 6 miles from St. Johns, AZ. It would include approximately 1,306 acres, of which 547 acres would be disturbed. The fence lake project would include about 18,119 total acres in both of its elements, of which 8,432 acres would be disturbed.

**Topic category:** Geology

**Keywords:** Geology, mining, Fence Lake, Environmental Impact Statement

**County:** Catron County

**Title:** Proposed Mining Plan and Permit Application, Fence Lake Mine, Catron and Cibola Counties, New Mexico, and Apache County, Arizona.

**Author:** Office of Surface Mining, Reclamation, and Enforcement

**Date:** 1996

**Publication/journal/publisher:** Final Supplemental Environmental Impact Statement OSM-EIS-31

**Type of document:** Printed report

**Source of document / Search method (phone, internet, library, etc.):**

U.S. Department of the Interior, Office of Surface Mining

**Purchase Price:** none

**Web site address:** Unknown

**Document Location:** DBS&A project file

**Work initiated by:** DOI Office of Surface Mining Reclamation and Enforcement

**Work funded by:** DOI Office of Surface Mining Reclamation and Enforcement?

**Type of review:** Agency Review

**Location of Work:** Catron and Cibola Counties, NM and Apache County, AZ

**Abstract or brief summary:**

The Salt River Project Agricultural Improvement and Power District's proposed Fence Lake project has two basic elements. The first of these is the proposed Fence Lake surface coal mine, consisting of Federal, State, and private coal leaseholds situated in northwest Quemado, NM. The proposed surface coal mine would cover about 16,813 acres total, of which 7,885 acres would eventually be disturbed. Mining at Fence lake would remove approximately 81.3 million tons of coal over the 50-year life of mine utilizing surface mining methods. Specifically, it would remove about 1.8 million tons of coal per year from year 3 through year 28 and about 3 million tons of coal per year from year 29 through year 40. The second element of the Fence Lake project would be a proposed 44-mile railroad corridor that would be associated with the proposed mine. The railroad corridor would be constructed west from the mine to supply coal to the existing Coronado Generating Station, located approximately 6 miles from St. Johns, AZ. It would include approximately 1,306 acres, of which 547 acres would be disturbed. The fence lake project would include about 18,119 total acres in both of its elements, of which 8,432 acres would be disturbed.

**Topic category:** Geology

**Keywords:** Geology, Catron, Pasture Canyon, Coal resources

**County:** Catron County

**Title:** Geology and coal resources of Pasture Canyon quadrangle, Catron County, New Mexico

**Author:** Osburn J.C.

**Date:** 1983

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources, Open File Report 182, 1983, 28 p., revised 10/86.

**Type of document:** Electronic file (PDF)

**Source of document / Search method (phone, internet, library, etc.):**  
NMBGMR search

**Purchase Price:** \$10.00 for CD

**Web site address:** [http://geoinfo.nmt.edu/publications/openfile/downloads/OFR100-199/176-199/182/ofr\\_182.pdf](http://geoinfo.nmt.edu/publications/openfile/downloads/OFR100-199/176-199/182/ofr_182.pdf)

**Document Location:** NMBGMR online

**Work initiated by:** NMBGMR

**Work funded by:** NMBGMR

**Type of review:** Unknown

**Location of Work:** Pasture Canyon quadrangle, Catron County

**Abstract or brief summary:**

The purpose of this work has been to provide basic geologic data for those interested in further coal resource evaluation of the Datil Mountains area. Pasture Canyon quadrangle is located in the northeastern corner of Catron County, about 25 mi due north of Datil, New Mexico. The study area is located in the south-central part of the Datil Mountains coal field. The coals of Pasture Canyon represent a modest resource at best. Coal outcrops are continuous over distances up to three miles along strike but are normally less than 3 ft (1 m) thick.

**Topic category:** Geology

**Keywords:** Geology, coal, Wild Horse Canyon, Catron, Grant

**County:** Catron County

**Title:** Geology and coal resources of Wild Horse Canyon quadrangle, Catron and Cibola Counties, New Mexico

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**Author:** Osburn J.C.

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**Date:** 1985

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**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources, Open File Report 227, 29 pages.

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**Type of document:** Electronic file (PDF)

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**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/openfile/details.cfm?Volume=227>>

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**Purchase Price:** \$10.00 for CD

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**Web site address:** [http://geoinfo.nmt.edu/publications/openfile/downloads/OFR200-299/226-250/227/ofr\\_227.pdf](http://geoinfo.nmt.edu/publications/openfile/downloads/OFR200-299/226-250/227/ofr_227.pdf)

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**Document Location:** NMBGMR online

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**Work initiated by:** NMBGMR

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**Work funded by:** NMBGMR

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**Type of review:** peer review

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**Location of Work:** Wild Horse Canyon quadrangle, Catron and Cibola Counties

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**Abstract or brief summary:**

Wild Horse Canyon quadrangle straddles the Catron-Cibola County boundary 1.5 mi west of the northwestern corner of Socorro County in the central part of the Datil Mountains coal field. The purpose of this work is to provide basic geologic information for those interested in expanding coal and petroleum exploration in the Datil Mountains coal field.

**Topic category:** Geology

**Keywords:** Geology, Mogollon, Datil, volcanic

**County:** Grant & Catron Counties

**Title:** Nomenclature for Cenozoic rocks of northeast Mogollon-Datil volcanic field, New Mexico

**Author:** Osburn, G.R. and C.E. Chapin

**Date:** 1983

**Publication/journal/publisher:** New Mexico Bureau of Mine and Mineral Resources, Socorro, New Mexico. Stratigraphic Chart 1, 7p, 1 sheet

**Type of document:** Map Sheet and attached text

**Source of document / Search method (phone, internet, library, etc.):**

<http://geoinfo.nmt.edu/publications/charts/stratigraphic/1/>

**Purchase Price:** \$8.50

**Web site address:** <http://geoinfo.nmt.edu/publications/charts/stratigraphic/1/>

**Document Location:** NMBGMR

**Work initiated by:** Various

**Work funded by:** NMBGMR

**Type of review:** peer review

**Location of Work:** Grant & Catron Counties

**Abstract or brief summary:**

A sequence of lithologically distinct, rock-stratigraphic units has been delineated in the Socorro-Magdalena-Datil area of the Mogollon-Datil volcanic field

**Topic category:** Geology

**Keywords:** soil, forests

**County:** New Mexico

**Title:** Soil Quality is Fundamental to Ensuring Healthy Forests

**Author:** Page-Dumroese, D., M. Jurgensen, D. Neary, M. Curran, and C. Trettin

**Date:** 2008

**Publication/journal/publisher:** Forest Environmental Threats. Forest Encyclopedia Network (last modified: 2008-11-14).

**Type of document:** Electronic file

**Source of document / Search method (phone, internet, library, etc.):**  
internet, forest service, tree search

**Purchase Price:**

**Web site address:** <http://treesearch.fs.fed.us/pubs/>

**Document Location:** <http://www.threats.forestencyclopedia.net/p/p3011>

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** NM

**Abstract or brief summary:**

Soil disturbance resulting from timber harvesting, prescribed fire, or site preparation activities can cause declines, improvements, or have no effect on site productivity and hydrologic function

**Topic category:** Geology

**Keywords:** Geology, map, Silver City

**County:** Grant County

**Title:** Silver City folio, New Mexico

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**Author:** Paige, S.

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**Date:** 1916

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**Publication/journal/publisher:** U.S. Geological Survey, Folios of the Geologic Atlas 199, 1 atlas (19 p., [4] leaves of plates) : ill., 3 col. maps ; 55 x 47 cm.

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**Type of document:** Map Sheet

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/gf/gf199>>

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**Purchase Price:** copy of original may be available

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/gf/gf199>

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**Document Location:** Contact USGS

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**Work initiated by:**

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Silver City area, Grant County

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**Abstract or brief summary:**

Silver City folio



**Topic category:** Geology

**Keywords:** Geology, Red Rock, Hidalgo, Grant

**County:** Grant and Hidalgo Counties

**Title:** Geology of the Area Between Virden and Red Rock, Hidalgo and Grant Counties, NM

**Author:** Pradhan, B.M. and Y.L. Singh

**Date:** 1960

**Publication/journal/publisher:** UNM

**Type of document:** Thesis

**Source of document / Search method (phone, internet, library, etc.):**

UNM 3532270

**Purchase Price:**

**Web site address:**

**Document Location:** UNM Library

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Grant & Hidalgo Counties

**Abstract or brief summary:**

This report deals with the stratigraphy of sedimentary and igneous rocks of the area, with particular attention to the faunal and floral assemblages of Cretaceous sediments and the consequent determination of age of interbedded volcanic rocks.

**Topic category:** Geology

**Keywords:** Geology, structure, Hurley, Grant

**County:** Grant County

**Title:** Geology of the Hurley West quadrangle, Grant County, New Mexico

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**Author:** Pratt, W.P.

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**Date:** 1967

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**Publication/journal/publisher:** U.S. Geological Survey, Bulletin 1241-E, p. E1-E91; Scale 1:24000

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**Type of document:** Electronic file (DJVU)

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/b/b1241e>>

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**Purchase Price:** not in stock

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/b/b1241E>

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**Document Location:** USGS online

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**Work initiated by:** USGS

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Grant County

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**Abstract or brief summary:**

A study of the Silver City mining area, with an emphasis on Paleozoic stratigraphy and early Tertiary intrusion and faulting.

**Topic category:** Geology

**Keywords:** Geology, Silver City, Cameron Creek, Intrusion

**County:** Grant County

**Title:** The Cameron Creek Laccolith: A Trap-Door Intrusion Near Silver City, New Mexico

**Author:** Pratt, W.P. and W.R. Jones

**Date:** 1965

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 16  
Southwestern New Mexico II

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/16/>

**Purchase Price:** \$12.50 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/16/>

**Document Location:** Contact NMGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Siler City

**Abstract or brief summary:**

Structural interpretation and mapping of the Cameron Creek Laccolith.

**Topic category:** Geology

**Keywords:** Geology, map, Holt Mountain, Catron

**County:** Catron County

**Title:** Preliminary Geologic Map of the Holt Mountain Quadrangle, Catron County, New Mexico

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**Author:** Ratte J., S. Lynch, and B. McIntosh

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**Date:** 2006

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**Publication/journal/publisher:** New Mexico Bureau of Geology and Mineral Resources, Open-file Digital Geologic Map OF-GM 120, Scale 1:24,000, April 2006, DRAFT

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**Type of document:** Electronic file (PDF)

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**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search

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**Purchase Price:** \$10.00 for CD

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**Web site address:**

[http://geoinfo.nmt.edu/publications/maps/geologic/ofgm/downloads/120/Holt\\_Mountain\\_v2p-00.pdf](http://geoinfo.nmt.edu/publications/maps/geologic/ofgm/downloads/120/Holt_Mountain_v2p-00.pdf)

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**Document Location:** NMBGMR online

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**Work initiated by:** NMBGMR

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**Work funded by:** NMBGMR, USGS, STATEMAP

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**Type of review:**

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**Location of Work:** Holt Mountain quadrangle, Catron County

**Abstract or brief summary:**

The Holt Mountain quadrangle is critical to the interpretation of the volcanic history of the Mogollon Mountains caldera complex. It contains the most complete exposures of the Cooney Tuff, the oldest of the major caldera-forming ignimbrite sequences in the Mogollon Range at ~34 Ma. The caldera source for the Cooney Tuff, the proposed Mogollon caldera, is believed to have been centered beneath the Mogollon Range where its presence has been largely obscured by continued volcanism and the formation of the younger Gila Cliff Dwellings and Bursum calderas, 28 Ma. Mineralized rocks are present along the Mogollon Range front from the Mogollon mining district in the Mogollon quadrangle, north of the Holt Mountain quadrangle, to the Gila fluorspar district at the mouth of the Gila River canyon above Cliff (Ratté and others, 1979).

**Topic category:** Geology

**Keywords:** Geology, map, Saliz Pass, Catron

**County:** Catron County

**Title:** Geologic map of the Saliz Pass Quadrangle, Catron County, New Mexico

**Author:** Ratte, J.C.

**Date:** 1980

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1203, 1 map  
;58 x 49 cm. on sheet 74 x 114 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1203>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1203>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Catron County

**Abstract or brief summary:**

Geologic map of the Saliz Pass quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Mogollon, Catron

**County:** Catron County

**Title:** Geologic map of the Mogollon quadrangle, Catron County, New Mexico

**Author:** Ratte, J.C.

**Date:** 1981

**Publication/journal/publisher:** U.S. Geological Survey, Geologic Quadrangle 1557, 1 map :col. ;58 x 49 cm.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/gq/gq1557>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/gq/gq1557>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Catron County

**Abstract or brief summary:**

Geologic map of the Mogollon quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, San Francisco Wilderness, Catron, Grant

**County:** Grant and Catron Counties

**Title:** Geologic map of the lower San Francisco Wilderness study area and contiguous roadless area, Greenlee County, Arizona and Catron and Grant counties, New Mexico

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**Author:** Ratte, J.C.

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**Date:** 1982

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**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1463-B, 1 map ;21 x 49 cm. on sheet 67 x 95 cm. folded in envelope 25 x 32 cm.

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**Type of document:** Map Sheet - limited availability

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1463b>>

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**Purchase Price:** \$9.00

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1463b>

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**Document Location:** Contact USGS

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**Work initiated by:** USGS

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Grant & Catron Counties

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**Abstract or brief summary:**

Geologic map of the lower San Francisco Wilderness study area

**Topic category:** Geology

**Keywords:** Geology, map, Bull Basin, Catron

**County:** Catron County

**Title:** Geologic map of the Bull Basin quadrangle, Catron County, New Mexico

**Author:** Ratte, J.C.

**Date:** 1989

**Publication/journal/publisher:** U.S. Geological Survey, Geologic Quadrangle 1651, 1 map :col. ;58 x 48 cm. on sheet 81 x 109 cm. folded in envelope 30 x 24 cm.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/gq/gq1651>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/gq/gq1651>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Catron County

**Abstract or brief summary:**

Geologic map of the Bull Basin quadrangle



**Topic category:** Geology

**Keywords:** Geology, map, Tularosa Canyon, Catron

**County:** Catron County

**Title:** Preliminary geologic map of the Tularosa Canyon Quadrangle, Catron County, New Mexico

**Author:** Ratte, J.C.

**Date:** 1992

**Publication/journal/publisher:** U.S. Geological Survey, Open File Report 92-187, 1 map :photocopy ;58 x 48 cm., on sheet 74 x 93 cm.

**Type of document:** Electronic file (DJVU)

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/ofr/ofr92187>>

**Purchase Price:** \$10.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/ofr/ofr92187>

**Document Location:** USGS online

**Work initiated by:** USGS

**Work funded by:**

**Type of review:** None

**Location of Work:** Catron County

**Abstract or brief summary:**

Preliminary geologic map and unit descriptions of the Tularosa Canyon quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Tularosa Mountains, Catron

**County:** Catron County

**Title:** Geologic map of the Tularosa Mountains 30' x 60' quadrangle, Catron County, New Mexico

**Author:** Ratte, J.C.

**Date:** 2001

**Publication/journal/publisher:** U.S. Geological Survey, IMAP 2619, 1 map : col. ; 56 x 93 cm., on sheet 89 x 127 cm., folded in envelope 30 x 24 cm. + 1 pamphlet (13 p. ; 28 cm.)

**Type of document:** Electronic file (PDF)

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/i/i2619>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/i/i2619>

**Document Location:** USGS online

**Work initiated by:** USGS

**Work funded by:** USGS, NMBGMR, NMIMT

**Type of review:** Agency Review

**Location of Work:** Tularosa Mountains, Catron County

**Abstract or brief summary:**

The "Geologic Map of the Tularosa Mountains 30-minute by 60-minute Quadrangle, Catron County, New Mexico" is intended to provide (1) regional geologic information at a scale intermediate between that of the latest New Mexico State Geologic Map and individual 7½-minute and 15-minute geologic quadrangles that cover part of the western part of the Mogollon-Datil volcanic field; and (2) updated, detailed information on the ages, sources, distribution, and correlation of caldera-related ignimbrites (ash-flow tuffs), and associated extrusive and intrusive volcanic rocks in the northwestern part of the Mogollon-Datil volcanic field. This publication consists of a map sheet and a pamphlet. The map sheet includes the principal map, a diagram showing stratigraphic correlation of map units, a list of map units, and four figures.

**Topic category:** Geology

**Keywords:** Geology, map, Reserve, Catron

**County:** Catron County

**Title:** Preliminary Geologic Map of the Reserve Quadrangle, Catron County, New Mexico

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**Author:** Ratte, J.C.

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**Date:** 2006

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**Publication/journal/publisher:** New Mexico Bureau of Geology and Mineral Resources, Open-file Digital Geologic Map OF-GM 131, Scale 1:24,000, May 2006, DRAFT

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**Type of document:** Electronic file (PDF)

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**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search

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**Purchase Price:** \$10.00 for CD

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**Web site address:**

[http://geoinfo.nmt.edu/publications/maps/geologic/ofgm/downloads/131/Reserve\\_v1p-00.pdf](http://geoinfo.nmt.edu/publications/maps/geologic/ofgm/downloads/131/Reserve_v1p-00.pdf)

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**Document Location:** NMBGMR online

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**Work initiated by:** NMBGMR

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**Work funded by:** NMBGMR, USGS, STATEMAP

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**Type of review:**

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**Location of Work:** Reserve quadrangle, Catron County

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**Abstract or brief summary:**

The geology of the Reserve 7 ½ minute quadrangle is dominated by the northeast trending structural grain of the Reserve compound graben, which is part of the Morenci lineament, a major crustal flaw that has been long recognized, and described in various contexts by a number of authors.

**Topic category:** Geology

**Keywords:** Oligocene, volcano, geology, Copperas Creek, Grant and Catron Counties

**County:** Grant and Catron Counties

**Title:** The Early Oligocene Copperas Creek volcano and geology along New Mexico Highway 15 between Sapillo Creek and the Gila Cliff Dwellings National Monument, Grant and Catron Counties, New Mexico

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**Author:** Ratte, J.C.

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**Date:** 2008

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**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 59, Geology of the Gila Wilderness-Silver City area, 129-140.

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**Type of document:** Paper in Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/59/>

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**Purchase Price:** \$45.00 for entire book

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/59/>

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**Document Location:** Contact NMGS

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**Work initiated by:**

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**Work funded by:**

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**Type of review:** Journal Peer Review

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**Location of Work:** Grant and Catron Counties

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**Abstract or brief summary:**

New Mexico Highway 15 between Sapillo Creek and the Gila Cliff Dwellings National Monument provides a tour through the eroded remains of the ~30 million year old Copperas Creek volcano, as preserved between the west-northwest-trending Sapillo Creek and Gila Hot Springs grabens of Basin and Range age. Colorful exposures of altered volcanic rocks in road cuts and a scenic overlook of the Alum Mountain eruptive center are witness to the hydrothermal alteration and mineralization in a Yellowstone-type hot spring environment here in Oligocene time.

**Topic category:** Geology

**Keywords:** Geology, map, Mule Creek, Grant

**County:** Grant County

**Title:** Geologic map of the Mule Creek Quadrangle, Grant County, New Mexico

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**Author:** Ratte, J.C. and W.E. Brooks

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**Date:** 1983

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**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1666, 1 map  
;58 x 49 cm., on sheet 75 x 98 cm., folded in envelope 25 x 32 cm.

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**Type of document:** Map Sheet

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1666>>

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**Purchase Price:** \$9.00

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1666>

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**Document Location:** Contact USGS

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**Work initiated by:** USGS

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Grant County

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**Abstract or brief summary:**

Geologic map of the Mule Creek quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Wilson Mountain, Catron, Grant

**County:** Grant and Catron Counties

**Title:** Geologic map of the Wilson Mountain quadrangle, Catron and Grant Counties, New Mexico

**Author:** Ratte, J.C. and W.E. Brooks

**Date:** 1989

**Publication/journal/publisher:** U.S. Geological Survey, Geologic Quadrangle 1611, 1 map :col. ;58 x 49 cm. on sheet 86 x 127 cm. folded in envelope 30 x 24 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/gq/gq1611>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/gq/gq1611>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant & Catron Counties

**Abstract or brief summary:**

Geologic map of the Wilson Mountain quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Big Lue Mountains, Catron, Grant

**County:** Grant and Catron Counties

**Title:** Preliminary geologic map of the Big Lue Mountains 15-minute Quadrangle, Greenlee County, Arizona, and Catron and Grant counties, New Mexico

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**Author:** Ratte, J.C. and W.E. Brooks

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**Date:** 1995

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**Publication/journal/publisher:** U.S. Geological Survey, Open-File Report 95-263, 1 over-size sheet, scale 1:48,000 (1 inch = 4,000 feet)

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**Type of document:** Map Sheet

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/ofr/ofr95263>>

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**Purchase Price:** \$10.00

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/ofr/ofr95263>

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**Document Location:** Contact USGS

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**Work initiated by:** USGS

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**Work funded by:**

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**Type of review:** None

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**Location of Work:** Grant & Hidalgo Counties

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**Abstract or brief summary:**

Preliminary geologic map and unit descriptions of the Big Lue Mountains Quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Horse Mountain, Catron

**County:** Catron County

**Title:** Geologic map of the Horse Mountain West quadrangle, Catron County, New Mexico

**Author:** Ratte, J.C., W.C. McIntosh, and B.B. Houser

**Date:** 1991

**Publication/journal/publisher:** U.S. Geological Survey, Geologic Quadrangle 1685, 1 map :col. ;58 x 48 cm., on sheet 86 x 112 cm., folded in envelope 30 x 24 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/gq/gq1685>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/gq/gq1685>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Catron County

**Abstract or brief summary:**

Geologic map of the Horse Mountain West quadrangle



**Topic category:** Geology

**Keywords:** Geology, map, Milligan Mountain, Catron

**County:** Catron County

**Title:** Geologic map of the Milligan Mountain quadrangle, Catron County, New Mexico

**Author:** Ratte, J.C., W.C. McIntosh, and D. Bove

**Date:** 1994

**Publication/journal/publisher:** U.S. Geological Survey, Geologic Quadrangle 1736, 1 map :col. ;58 x 49 cm., on sheet 105 x 143 cm., folded in envelope 30 x 24 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/gq/gq1736>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/gq/gq1736>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Catron County

**Abstract or brief summary:**

Geologic map of the Milligan Mountain quadrangle

**Topic category:** Geology

**Keywords:** Pleistocene geology, south-central New Mexico, Pluvial Lake

**County:** South Central NM

**Title:** Pluvial Lake Palomas, North western Chihuahua, Mexico and Pleistocene Geologic History of the South-Central New Mexico

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**Author:** Reeves, C.C.Jr.

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**Date:** 1965

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**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 16 Southwestern New Mexico II

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**Type of document:** Paper in Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/16/>

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**Purchase Price:** \$12.50 for Entire Book

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/16/>

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**Document Location:** Contact NMGS

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**Work initiated by:** Texas Technological College, Dept. of Geology

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**Work funded by:**

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**Type of review:** Journal Peer Review

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**Location of Work:** South Central NM

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**Abstract or brief summary:**

Geologic study of the Lake Palomas basin is in its infancy. Emphasis has been on general reconnaissance, mapping of abandoned shorelines, and geomorphological studies. This report speculates on geomorphic evidence which affects the Pleistocene geologic history of south-central New Mexico

**Topic category:** Geology

**Keywords:** Geology, map, Spring Canyon, Catron

**County:** Catron County

**Title:** Geologic map of the Spring Canyon Quadrangle, Catron County, New Mexico

**Author:** Richter, D.H.

**Date:** 1978

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map MF-966, 1 map ;58 x 49 cm. on sheet 74 x 111 cm. fold. in envelope 25 x 31 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf966>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf966>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Catron County

**Abstract or brief summary:**

Geologic map of the Spring Canyon quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, O Bar, O Canyon, Catron

**County:** Catron County

**Title:** Geologic map of the O Bar O Canyon East Quadrangle, Catron County, New Mexico

**Author:** Richter, D.H.

**Date:** 1987

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map MF-1976, 1 map ;58 x 48 cm., on sheet 66 x 96 cm., folded in envelope 30 x 24 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1976>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1976>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Catron County

**Abstract or brief summary:**

Geologic map of the O Bar O Canyon East quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, O Bar, O Canyon, Catron

**County:** Catron County

**Title:** Geologic map of the O Bar O Canyon West Quadrangle, Catron County, New Mexico

**Author:** Richter, D.H. and V.A. Lawrence

**Date:** 1987

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map MF-2075, 1 map ;58 x 49 cm., on sheet 76 x 117 cm., folded in envelope 30 x 24 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf2075>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf2075>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Catron County

**Abstract or brief summary:**

Geologic map of the O Bar O Canyon West quadrangle

**Topic category:** Geology

**Keywords:** Geologic map, mineral resource map, silver city

**County:** Grant County

**Title:** The Conterminous United State Mineral Assessment Program; background information to accompany folio of geologic and mineral resource maps of the Silver City 1 degree x 2 degrees Quadrangle, New Mexico and Arizona

**Author:** Richter, D.H., B.B. Houser, K.C. Watts, D.P. Klein, W.N. Sharp, H. Drewes, D.C. Hedlund, G.L. Raines, and J.R. Hassemer

**Date:**

**Publication/journal/publisher:** U.S. Geological Survey, Circular, report number 975

**Type of document:** Electronic file (DJVU)

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <http://pubs.er.usgs.gov/usgspubs/cir/cir975>

**Purchase Price:**

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/cir/cir975>

**Document Location:** USGS Online

**Work initiated by:** USGS

**Work funded by:** USGS

**Type of review:**

**Location of Work:** Silver City

**Abstract or brief summary:**

The Silver City 1 degree x 2 degree quadrangle, consisting of about 20,650 km<sup>2</sup> in southwestern New Mexico and southeastern Arizona, has been investigated by a multidisciplinary research team for the purpose of assessing its mineral resource potential. The results of this investigation are in a folio of 21 maps that contain detailed information on the geology, geochemistry, geophysics, mineral deposits, and potential mineral resources of the quadrangle.

**Topic category:** Geology

**Keywords:** Geology, map, Wall Lake, Catron

**County:** Catron County

**Title:** Geologic map of the Wall Lake Quadrangle, Catron County, New Mexico

**Author:** Richter, D.H., T.L. Eggleston, and W.A. Duffield

**Date:** 1986

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map MF-1909, 1 map ;58 x 48 cm., on sheet 81 x 107 cm., folded in envelope 25 x 32 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1909>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1909>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Catron County

**Abstract or brief summary:**

Geologic map of the Wall Lake quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, San Simon, Summit Hills, Mondel, Hidalgo

**County:** Hidalgo County

**Title:** Geologic map of the San Simon Quadrangle and parts of the Summit Hills and Mondel quadrangles, Cochise, Graham, and Greenlee counties, Arizona, and Hidalgo County, NM

**Author:** Richter, D.H., V.A Lawrence, H. Drewes, T.H. Young, M.S. Enders, P.E. Damon, and C.H. Thorman

**Date:** 1990

**Publication/journal/publisher:** U.S Geological Survey, IMAP 1951, 1 map :col. ;58 x 60 cm., on sheet 76 x 137 cm., folded in envelope 30 x 24 cm.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/i/i1951>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/i/i1951>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Hidalgo County

**Abstract or brief summary:**

Geologic map of the San Simon quadrangle and parts of the Summit Hills and Mondel quadrangles



**Topic category:** Geology

**Keywords:** Geology, map, Indian Peaks, Catron

**County:** Catron County

**Title:** Geologic map of the Indian Peaks East Quadrangle, Catron County, New Mexico

**Author:** Richter, D.H., V.A. Lawrence, and W.A. Duffield

**Date:** 1986

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map MF-1850, 1 map ;58 x 49 cm., on sheet 72 x 105 cm., folded in envelope 25 x 32 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1850>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1850>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Catron County

**Abstract or brief summary:**

Geologic map of the Indian Peaks East Quadrangle

**Topic category:** Geology

**Keywords:** Geology, D Cross Mountain, Socorro,  
Catron

**County:** Catron County

**Title:** Geology of the D Cross Mountain quadrangle, Socorro and Catron Counties, New Mexico

**Author:** Robinson, B.R.

**Date:** 1981

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources, Open-File Report 147, 225 pages. Dissertation, University of Texas, El Paso, Texas, May, 1981.

**Type of document:** Electronic file (PDF)

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/openfile/details.cfm?Volume=147>>

**Purchase Price:** \$10.00 for CD

**Web site address:** [http://geoinfo.nmt.edu/publications/openfile/downloads/OFR100-199/126-150/147/ofr\\_147.pdf](http://geoinfo.nmt.edu/publications/openfile/downloads/OFR100-199/126-150/147/ofr_147.pdf)

**Document Location:** NMBGMR online

**Work initiated by:** University of Texas at El Paso

**Work funded by:** NMBGMR

**Type of review:** peer review

**Location of Work:** D Cross Mountain quadrangle, Socorro and Catron Counties

**Abstract or brief summary:**

The study area is located approximately 40 mi (64 km) northwest of Magdalena, New Mexico, in the northeastern part of Catron County and the northwestern part of Socorro County. The purpose of this study was to map and describe the geology of the D Cross Mountain quadrangle.

**Topic category:** Geology

**Keywords:** Geology, Catron, Tejana Mesa, Coal resources

**County:** Catron County

**Title:** Geology and coal resources of the Tejana Mesa quadrangle, Catron County, New Mexico

**Author:** Roybal, G.H.

**Date:** 1982

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources, Open File Report 178, November 1982, 39 p.

**Type of document:** Electronic file (PDF)

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/openfile/details.cfm?Volume=178>>

**Purchase Price:** \$10.00 for CD

**Web site address:** [http://geoinfo.nmt.edu/publications/openfile/downloads/OFR100-199/176-199/178/ofr\\_178.pdf](http://geoinfo.nmt.edu/publications/openfile/downloads/OFR100-199/176-199/178/ofr_178.pdf)

**Document Location:** NMBGMR online

**Work initiated by:** NMBGMR

**Work funded by:** NMBGMR

**Type of review:** Unknown

**Location of Work:** Tejana Mesa quadrangle, Catron County

**Abstract or brief summary:**

The Tejana Mesa 7.5 min quadrangle is northwest of Quemado on the southeastern edge of the Salt Lake coal field. This quadrangle contains the southeastern most exposures of the Cretaceous coal-bearing rocks in the Salt Lake field. Tejana Mesa quadrangle has a large amount of exposed Moreno Hill Formation Cretaceous overlain by Tertiary sediments and volcanic sediments that are capped by volcanics of Quaternary/Tertiary age. Most of the exposed Cretaceous rocks are part of the upper member of the Moreno Hill Formation, a sequence of siltstones, silty sandstones, and a few thin (1.5 ft) coals. The presence of several volcanic necks apparently of different ages and faulting in this quadrangle may complicate the structure more than what is seen in outcrop. More drilling on both sides of the fault area would indicate the extent of the faulting and its effect on the coal-bearing Moreno Hill Formation.

**Topic category:** Geology

**Keywords:** Geology, Hermanas, Luna, Cedar Mountains, Carrizalillo Hills

**County:** Luna County

**Title:** Geology of Hermanas Quadrangle, Luna County, New Mexico

**Author:** Seager W.R. and R.E. Clemons

**Date:** 1988

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources Geological Map 63. Scale 1:24,000.

**Type of document:** Map sheet

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/maps/geologic/gm/63/>>

**Purchase Price:** \$6.25

**Web site address:** <http://geoinfo.nmt.edu/publications/maps/geologic/gm/63/>

**Document Location:** NMBGMR GIC

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Hermanas quadrangle, Luna County

**Abstract or brief summary:**

Hermanas quadrangle in southern Luna County adjoins the state of Chihuahua, Mexico, approximately 30 mi south-southwest of Deming. The quadrangle is bisected diagonally northwest-southeast by the Cedar Mountains and Carrizalillo Hills. Hermanas quadrangle was mapped in detail when mapping of the Las Cruces and El Paso 1° x 2° sheets-Geologic Maps 53 (1982), 57 (1987), and 60 (1995) revealed complexly faulted and altered volcanic rocks. The Triassic alteration, swarms of quartz and carbonate veins, and indications of precious metals have attracted the interest of several mining companies. GM-63 includes two cross sections, a stratigraphic column, and chemical and petrographic analyses of the volcanic units. Bulletin 113 also gives a detailed account of this area.

**Topic category:** Geology

**Keywords:** Geology, Laramide, tectonics, southwest  
NM

**County:** Southwestern, NM

**Title:** Laramide (Late Cretaceous-Eocene) tectonics of southwestern New Mexico

**Author:** Seager, W.

**Date:** 2004

**Publication/journal/publisher:** New Mexico Geological Society Special Publication 11, The Geology of  
New Mexico: A Geologic History

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

**Purchase Price:**

**Web site address:**

**Document Location:**

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Southwestern, NM

**Abstract or brief summary:**

About the only aspect of Laramide tectonics in southern New Mexico in which there is general agreement that it involved northeast-directed crustal shortening and began in the Late Cretaceous, extending into the early Tertiary.

**Topic category:** Geology

**Keywords:** Geology map, Hillsboro, San Lorenzo, Grant, Sierra

**County:** Grant County

**Title:** Reconnaissance geologic map and sections of Hillsboro and San Lorenzo 15-min. quadrangles, Grant and Sierra Counties, New Mexico

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**Author:** Seager, W.R.

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**Date:** 1994

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**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources, Open-file Report 400, 6 pages.

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**Type of document:** Electronic file (PDF)

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**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/openfile/details.cfm?Volume=400>>

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**Purchase Price:** \$10.00 for CD

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**Web site address:** [http://geoinfo.nmt.edu/publications/openfile/downloads/OFR400-499/400-425/400/ofr\\_400.pdf](http://geoinfo.nmt.edu/publications/openfile/downloads/OFR400-499/400-425/400/ofr_400.pdf)

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**Document Location:** NMBGMR online

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**Work initiated by:** NMBGMR

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**Work funded by:** NMBGMR

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**Type of review:** Unknown

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**Location of Work:** Hillsboro and San Lorenzo 15-min. quadrangles, Grant and Sierra Counties

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**Abstract or brief summary:**

Reconnaissance geologic map and sections of Hillsboro and San Lorenzo 15-min. quadrangles, Grant and Sierra Counties, New Mexico

**Topic category:** Geology

**Keywords:** Geology, map Fort Bayard, Grant

**County:** Grant County

**Title:** Preliminary geologic map of the Fort Bayard quadrangle, Grant County, New Mexico

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**Author:** Skotnicki, S.J. and C.A. Ferguson

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**Date:** 2007

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**Publication/journal/publisher:** New Mexico Bureau of Geology and Mineral Resources, Open-file Digital Geologic Map OF-GM 152, Scale 1:24,000, May 2007.

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**Type of document:** Electronic file (PDF)

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**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search

<<http://geoinfo.nmt.edu/publications/maps/geologic/ofgm/details.cfm?Volume=152>>

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**Purchase Price:** \$10.00

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**Web site address:**

[http://geoinfo.nmt.edu/publications/maps/geologic/ofgm/downloads/152/Fort\\_Bayard\\_map\\_v3-00.pdf](http://geoinfo.nmt.edu/publications/maps/geologic/ofgm/downloads/152/Fort_Bayard_map_v3-00.pdf)

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**Document Location:** NMBGMR online

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**Work initiated by:** NMBGMR

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**Work funded by:** NMBGMR, USGS, STATEMAP

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**Type of review:** Agency Review

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**Location of Work:** Fort Bayard quadrangle, Grant County

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**Abstract or brief summary:**

The Fort Bayard 7.5' quadrangle sits in an historic mining region between the Santa Rita porphyry copper deposit a few miles to the east, and the Town of Silver City immediately to the west. The oldest rocks in the area are fossiliferous Pennsylvanian carbonates, overlain by red shales and sandstones of the Permian Abo Formation.

**Topic category:** Geology  
**Keywords:** Jurassic, Zuni Mountains  
**County:** West-central New Mexico

**Title:** Jurassic rocks of the Zuni Mountains

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**Author:** Smith, C.T.

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**Date:** 1959

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**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 10, West-Central New Mexico, 74-80. Reprinted 1996.

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**Type of document:** Paper in Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/10/>

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**Purchase Price:** \$20.00 for Entire Book

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/10/>

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**Document Location:** Contact NMGS

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**Work initiated by:**

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**Work funded by:**

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**Type of review:** Journal Peer Review

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**Location of Work:** West-Central NM

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**Abstract or brief summary:**

This article discusses the stratigraphy, structure, and sedimentational history of the Jurassic rocks of the Zuni Mountains.



**Topic category:** Geology

**Keywords:** Soil survey, Hidalgo

**County:** Hidalgo County

**Title:** Soil Survey of Hidalgo County, New Mexico

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**Author:** Soil Conservation Service

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**Date:** 1973

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**Publication/journal/publisher:** U.S. Department of Agriculture Soil Conservation Service, in cooperation with U.S. Department of Interior, Bureau of Land Management, and the New Mexico Agricultural Experiment Station

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**Type of document:** Book

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**Source of document / Search method (phone, internet, library, etc.):**

UNM Library,

<http://libros.unm.edu/search~S7?/Xsoil+survey+of+hidalgo+county&searchscope=7&SORT=/Xsoil+survey+of+hidalgo+county&searchscope=7&SORT=&SORT=+&extended=0&SUBKEY=soil%20survey%20of%20hidalgo%20county/1%2C2%2C2%2CB/frameset&FF=Xsoil+survey+of+hidalgo+county&SORT=+&2%2C2%2C>

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**Purchase Price:** Unknown

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**Web site address:**

[http://www.soils.usda.gov/survey/printed\\_surveys/state.asp?state=New%20Mexico&abbr=NM](http://www.soils.usda.gov/survey/printed_surveys/state.asp?state=New%20Mexico&abbr=NM)

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**Document Location:** UNM Library

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**Work initiated by:** US Dept of Agriculture

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**Work funded by:** US Dept of Agriculture

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**Type of review:**

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**Location of Work:** Hidalgo County

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**Abstract or brief summary:**

The soil survey contains information that can be used in land-planning programs in Hidalgo County, NM. It contains predictions of soil behavior for selected land uses. The survey also highlights limitations and hazards inherent in the soil, improvements needed to overcome the limitations, and the impact of selected land uses on the environment.

This soil survey is designed for many different users. Great differences in soil properties can occur within short distances. These soil properties that affect land use are described in this soil survey. Broad areas of soils are shown on the general soil map. The location of each soil is shown on the detailed soil maps. Each soil in the survey area is described. Information on the specific uses is given for each soil.

**Topic category:** Geology  
**Keywords:** Soil survey, Luna  
**County:** Luna County

**Title:** Soil Survey of Luna County, New Mexico

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**Author:** Soil Conservation Service

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**Date:** 1980

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**Publication/journal/publisher:** U.S. Department of Agriculture Soil Conservation Service, in cooperation with U.S. Department of Interior, Bureau of Land Management, and the New Mexico Agricultural Experiment Station

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**Type of document:** Book

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**Source of document / Search method (phone, internet, library, etc.):**

UNM Library,  
<http://libros.unm.edu/search/a?searchtype=X&searcharg=soil+survey+of+luna+county&searchscope=7&SORT=+&extended=0>

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**Purchase Price:** Unknown

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**Web site address:**

[http://www.soils.usda.gov/survey/printed\\_surveys/state.asp?state=New%20Mexico&abbr=NM](http://www.soils.usda.gov/survey/printed_surveys/state.asp?state=New%20Mexico&abbr=NM)

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**Document Location:** UNM Library

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**Work initiated by:** US Dept of Agriculture

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**Work funded by:** US Dept of Agriculture

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**Type of review:**

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**Location of Work:** Luna County

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**Abstract or brief summary:**

The soil survey contains information that can be used in land-planning programs in Luna County, NM. It contains predictions of soil behavior for selected land uses. The survey also highlights limitations and hazards inherent in the soil, improvements needed to overcome the limitations, and the impact of selected land uses on the environment. This soil survey is designed for many different users. Great differences in soil properties can occur within short distances. These soil properties that affect land use are described in this soil survey. Broad areas of soils are shown on the general soil map. The location of each soil is shown on the detailed soil maps. Each soil in the survey area is described. Information on the specific uses is given for each soil.

**Topic category:** Geology

**Keywords:** Soil survey, Grant

**County:** Grant County

**Title:** Soil Survey of Grant County, New Mexico Central and Southern Parts

**Author:** Soil Conservation Service

**Date:** 1983

**Publication/journal/publisher:** U.S. Department of Agriculture Soil Conservation Service, in cooperation with U.S. Department of Interior, Bureau of Land Management, and the New Mexico Agricultural Experiment Station

**Type of document:** Electronic (PDF)

**Source of document / Search method (phone, internet, library, etc.):**

Internet <<http://soildatamart.nrcs.usda.gov/Manuscripts/NM662/0/grant.pdf>>

**Purchase Price:** NA

**Web site address:**

**Document Location:** online

**Work initiated by:** US Dept of Agriculture

**Work funded by:** US Dept of Agriculture

**Type of review:**

**Location of Work:** Grant County

**Abstract or brief summary:**

The soil survey contains information that can be used in land-planning programs in Grant County, NM, Central and Southern Parts. It contains predictions of soil behavior for selected land uses. The survey also highlights limitations and hazards inherent in the soil, improvements needed to overcome the limitations, and the impact of selected land uses on the environment. This soil survey is designed for many different users. Great differences in soil properties can occur within short distances. These soil properties that affect land use are described in this soil survey. Broad areas of soils are shown on the general soil map. The location of each soil is shown on the detailed soil maps. Each soil in the survey area is described. Information on the specific uses is given for each soil.

**Topic category:** Geology  
**Keywords:** Soil survey, Catron  
**County:** Catron County

**Title:** Soil Survey of Catron County, New Mexico Northern Part

**Author:** Soil Conservation Service

**Date:** 1985

**Publication/journal/publisher:** U.S. Department of Agriculture Soil Conservation Service, in cooperation with U.S. Department of Interior, Bureau of Land Management, and the New Mexico Agricultural Experiment Station

**Type of document:** Electronic (PDF)

**Source of document / Search method (phone, internet, library, etc.):**

Internet <<http://soildatamart.nrcs.usda.gov/manuscripts/NM648/0/catron.pdf>>

**Purchase Price:** NA

**Web site address:**

**Document Location:** online

**Work initiated by:** US Dept of Agriculture

**Work funded by:** US Dept of Agriculture

**Type of review:**

**Location of Work:** Catron County

**Abstract or brief summary:**

The soil survey contains information that can be used in land-planning programs in Catron County, NM, the Northern Part. It contains predictions of soil behavior for selected land uses. The survey also highlights limitations and hazards inherent in the soil, improvements needed to overcome the limitations, and the impact of selected land uses on the environment. This soil survey is designed for many different users. Great differences in soil properties can occur within short distances. These soil properties that affect land use are described in this soil survey. Broad areas of soils are shown on the general soil map. The location of each soil is shown on the detailed soil maps. Each soil in the survey area is described. Information on the specific uses is given for each soil.

**Topic category:** Geology

**Keywords:** Structural geology, Animas Mountains, Hidalgo

**County:** Hidalgo County

**Title:** Structural geology of northern part of Animas Mountains, Hidalgo County, New Mexico

**Author:** Soule, J.M.

**Date:** 1972

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources, Circular 125, 15 pages.

**Type of document:** Printed report

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/circulars/125/>>

**Purchase Price:** \$4.75

**Web site address:**

**Document Location:** Contact NMBGMR

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Animas Mountains, Hidalgo County

**Abstract or brief summary:**

The area covered by this report consists of the northernmost part of the linear north-south-trending Animas Mountains in south-central Hidalgo County, New Mexico. The objective of this work was to produce an accurate bedrock geologic map of the northern Animas Mountains, and interpret the structure of the area. Field data were collected and plotted directly on 1:20,000 U.S. Soil Conservation Service aerial photographs. In addition to field work in the northern Animas Mountains, several days were spent reviewing the work of Zeller and Gillerman in the Big Hatchet, Animas, and Peloncillo Mountains, respectively.

**Topic category:** Geology

**Keywords:** Geology, Santa Rita, mining, Grant

**County:** Grant County

**Title:** Geology of the Santa Rita mining area, New Mexico

**Author:** Spencer, A.C. and S. Paige

**Date:** 1935

**Publication/journal/publisher:** U.S. Geological Survey, Bulletin 859, 78 p. illus., 6 pl. (incl. fold. col. map, fold. diagr., fold. profile) ;23 cm.

**Type of document:** Printed report

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/b/b859>>

**Purchase Price:** not in stock

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/b/b859>

**Document Location:** Contact USGS

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Grant County

**Abstract or brief summary:**

Geology of the Santa Rita mining area

**Topic category:** Geology  
**Keywords:** Geology, Snow Creek Reservoir, Catron  
**County:** Catron County

**Title:** Geology of Snow Creek Damsite and Vicinity, Catron County

**Author:** Spiegel, Z. and R.L. Borton

**Date:** 1966

**Publication/journal/publisher:** New Mexico Office of the State Engineer Hydrology Report

**Type of document:** Printed report

**Source of document / Search method (phone, internet, library, etc.):**

[http://www.ose.state.nm.us/publications\\_library\\_hydrologyrpts.html](http://www.ose.state.nm.us/publications_library_hydrologyrpts.html)

**Purchase Price:** Contact OSE

**Web site address:**

**Document Location:** OSE Library

**Work initiated by:** OSE

**Work funded by:** OSE

**Type of review:** Unknown

**Location of Work:** upper Gila and San Francisco River basins

**Abstract or brief summary:**

This document provides a summary of reconnaissance mapping in the Alum Mountain, Mogollon, Reserve, and Pelona 30-minute USGS quadrangles. The document details the geology of the drainage basin above Snow Creek Damsite, as well as the damsite and reservoir area. Rocks exposed at the Snow Creek damsite and reservoir area consist of sediments and volcanic flows of Tertiary-Quaternary and Quaternary age. Terraced Quaternary alluvial deposits of unconsolidated silt, sand, and gravel cover the reservoir floor, and reach a thickness of approximately 20 feet. These deposits are underlain by rocks of the Gila Formation.

**Topic category:** Geology  
**Keywords:** Catron, geology, Pelona quadrangle  
**County:** Catron County

**Title:** Geology of the North Half of the Pelona Quadrangle, Catron County, New Mexico

**Author:** Stearns, C.E.

**Date:** 1962

**Publication/journal/publisher:** New Mexico Bureau of Geology and Mineral Resources, Bulletin 78, 46 p. 1 plate, 1 appendix, 1 index.

**Type of document:** Printed report

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/bulletins/78/>>

**Purchase Price:** \$4.75

**Web site address:**

**Document Location:** Contact NMBGMR

**Work initiated by:** NMBGMR

**Work funded by:** NMBGMR

**Type of review:** Unknown

**Location of Work:** Pelona quadrangle, Catron County

**Abstract or brief summary:**

The north half of the Pelona quadrangle lies in the Datil–Mogollon volcanic plateau of west-central NM. The area includes the western third of the San Augustin Plains, a broad intermountain basin of the continental divide. Pre-tertiary rocks, including Yeso, Glorieta, and San Andres Formations, and Triassic Sandstone crop out in one small area. They are overlain unconformably by about 3,000 ft of volcanic and associated sedimentary rocks, assigned to the mid-Tertiary Datil Formation. In the mapped area, the lower third of the formation is volcanic conglomerate, sandstone, and siltstone. Rhyolite, latite, and andesite flows, breccias, and tuffs, together with sedimentary beds, comprise the upper two-thirds of the formation.



**Topic category:** Geology

**Keywords:** Geology, Apache Hills, Sierra Rica, Hidalgo, Luna

**County:** Hidalgo and Luna Counties

**Title:** Geology and ore deposits of Apache Hills and northern Sierra Rica, Hidalgo and Luna Counties, New Mexico

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**Author:** Strongin, O.

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**Date:** 1957

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**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources, Open-File Report 18, 237 pages. Dissertation for Columbia University, December 1957.

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**Type of document:** Electronic file (CD), out of print

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**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/openfile/details.cfm?Volume=18>>

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**Purchase Price:** \$10.00 for CD

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**Web site address:** [http://geoinfo.nmt.edu/publications/openfile/downloads/OFR014-99/14-25/18/ofr\\_18.pdf](http://geoinfo.nmt.edu/publications/openfile/downloads/OFR014-99/14-25/18/ofr_18.pdf)

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**Document Location:** NMBGMR online

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**Work initiated by:** Columbia University

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**Work funded by:** Columbia University, NMBGMR

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**Type of review:** peer review

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**Location of Work:** Apache Hills and northern Sierra Rica, Hidalgo and Luna Counties

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**Abstract or brief summary:**

The Apache Hills and Sierra Rica are a low group of mountains in the southwest part of New Mexico, just northwest of the notch in the United States-Mexican boundary. Includes discussion on previous work, geography, physiography, water supply, lithic units, local and region comparison of igneous rocks and associated mineralization, geologic structure, geologic history, contact metamorphism, and ore deposits. Includes geologic map and cross sections.

**Topic category:** Geology

**Keywords:** Geology, map Coyote Peak, Brockman, Hidalgo, Grant

**County:** Grant and Hidalgo Counties

**Title:** Geologic map of the Coyote Peak and Brockman quadrangles, Hidalgo and Grant counties, New Mexico

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**Author:** Thorman, C.H.

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**Date:** 1977

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**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map MF-924, 1 map; 58 x 98 cm., on sheet 90 x 147 cm., folded in envelope 24 x 30 cm.

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**Type of document:** Map Sheet - limited availability

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf924>>

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**Purchase Price:** \$9.00

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**Web site address:**

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**Document Location:** Contact USGS

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**Work initiated by:** USGS

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Coyote Peak and Brockman quadrangles, Hidalgo and Grant counties

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**Abstract or brief summary:**

Geologic map of the Coyote Peak and Brockman quadrangles, Hidalgo and Grant counties, New Mexico

**Topic category:** Geology

**Keywords:** Geology, map, Gary, Lordsburg, Hidalgo

**County:** Hidalgo County

**Title:** Geologic map of the Gary and Lordsburg quadrangles, Hidalgo County, New Mexico

**Author:** Thorman, C.H. and H. Drewes

**Date:** 1978

**Publication/journal/publisher:** U.S. Geological Survey, IMAP 1151, 1 map ;58 x 98 cm. on sheet 100 x 107 cm. fold. to 26 x 22 cm. in envelope 30 x 24 cm.

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/i/i1151>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/i/i1151>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Hidalgo County

**Abstract or brief summary:**

Geologic map of the Gary and Lordsburg quadrangles

**Topic category:** Geology

**Keywords:** Geology, map, Grandmother Mountain, Luna

**County:** Luna County

**Title:** Geologic map of parts of the Grandmother Mountain East and Grandmother Mountain West quadrangles, Luna County, New Mexico

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**Author:** Thorman, C.H. and H. Drewes

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**Date:** 1979

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**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1088, 1 map ;39 x 72 cm. on sheet 74 x 96 cm.

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**Type of document:** Map Sheet - limited availability

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1088>>

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**Purchase Price:** \$9.00

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1088>

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**Document Location:** Contact USGS

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**Work initiated by:** USGS

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Luna County

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**Abstract or brief summary:**

Geology map of the Grandmother Mountain Quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Saltys, Grant

**County:** Grant County

**Title:** Geologic map of the Saltys Quadrangle, Grant County, New Mexico

---

**Author:** Thorman, C.H. and H. Drewes

---

**Date:** 1979

---

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1137, 1 map  
;58 x 49 cm.

---

**Type of document:** Map Sheet - limited availability

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1137>>

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**Purchase Price:** \$9.00

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1137>

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**Document Location:** Contact USGS

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**Work initiated by:** USGS

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Grant County

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**Abstract or brief summary:**

Geologic map of the Saltys quadrangle

**Topic category:** Geology

**Keywords:** Geology, map, Victorio Mountains, Luna

**County:** Luna County

**Title:** Geologic map of the Victorio Mountains, Luna County, southwestern New Mexico

**Author:** Thorman, C.H. and H. Drewes

**Date:** 1980

**Publication/journal/publisher:** U.S. Geological Survey, Miscellaneous Field Studies Map 1175, 1 map

**Type of document:** Map Sheet - limited availability

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf1175>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf1175>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Luna County

**Abstract or brief summary:**

Geologic map of the Victorio Mountains

**Topic category:** Geology

**Keywords:** Geology, map, Gage, Grant, Luna

**County:** Grant and Luna Counties

**Title:** Geologic map of the Gage SW quadrangle, Grant and Luna counties, New Mexico

**Author:** Thorman, C.H. and H. Drewes

**Date:** 1981

**Publication/journal/publisher:** U.S. Geological Survey, IMAP 1231, 1 map :col. ;57 x 49 cm.

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/i/i1231>>

**Purchase Price:** \$9.00

**Web site address:** <http://pubs.er.usgs.gov/usgspubs/i/i1231>

**Document Location:** Contact USGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:**

**Location of Work:** Grant & Luna Counties

**Abstract or brief summary:**

Geologic map of the Gage SE quadrangle

**Topic category:** Geology

**Keywords:** Geologic structures, Grant

**County:** Grant County

**Title:** Geologic Structure Pattern of Grant County, New Mexico

**Author:** Trauger, F.D.

**Date:** 1965

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 16  
Southwestern New Mexico II

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/16/>

**Purchase Price:** \$12.50 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/16/>

**Document Location:** Contact NMGS

**Work initiated by:** USGS

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Grant

**Abstract or brief summary:**

This paper delineates and names for reference and discussion, the major geologic structures in Grant County, New Mexico.



**Topic category:** Geology  
**Keywords:** Geology, Mimbres Resource Area, Energy, Mineral  
**County:** Luna County

**Title:** Geology, mineral and energy resources, Mimbres Resource Area, New Mexico

**Author:** USGS

**Date:** 1997

**Publication/journal/publisher:** U.S. Geological Survey, Open-File Report 97-521. CD-ROM

**Type of document:** CD-ROM

**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <http://pubs.er.usgs.gov/usgspubs/ofr/ofr97521>>

**Purchase Price:** Contact USGS

**Web site address:**

**Document Location:** Contact USGS

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Luna County

**Abstract or brief summary:**

**Topic category:** Geology  
**Keywords:** Geology, southwestern New Mexico  
**County:** Southwestern NM

**Title:** New Mexico Geological Society Fall Field Conference Guidebook - 4, Southwestern New Mexico

**Author:** Various

**Date:** 1953

**Publication/journal/publisher:** New Mexico Geological Society Reprinted 1996.

**Type of document:** Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/4/>

**Purchase Price:** \$20.00

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/4/>

**Document Location:** Contact NMGS

**Work initiated by:** Various

**Work funded by:** Various

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern NM

**Abstract or brief summary:**

Includes papers for geology, tectonics, structure, geophysics, stratigraphy, sedimentology, sedimentary petrology, geomorphology, economic geology, and environmental geology

**Topic category:** Geology  
**Keywords:** Geology, west central New Mexico  
**County:** Catron County

**Title:** New Mexico Geological Society Fall Field Conference Guidebook - 10, West-Central New Mexico

**Author:** Various

**Date:** 1959

**Publication/journal/publisher:** New Mexico Geological Society Reprinted 1996.

**Type of document:** Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/10/>

**Purchase Price:** \$20.00

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/10/>

**Document Location:** Contact NMGS

**Work initiated by:** Various

**Work funded by:** Various

**Type of review:** Journal Peer Review

**Location of Work:** West-Central NM

**Abstract or brief summary:**

Includes papers for geology, tectonics, structure, geophysics, stratigraphy, sedimentology, sedimentary petrology, geomorphology, economic geology, and environmental geology

**Topic category:** Geology

**Keywords:** Geology, southwestern New Mexico

**County:** Southwestern NM

**Title:** New Mexico Geological Society Fall Field Conference Guidebook - 16, Southwestern New Mexico II

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**Author:** Various

---

**Date:** 1965

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**Publication/journal/publisher:** New Mexico Geological Society

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**Type of document:** Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/16/>

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**Purchase Price:** \$12.50

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/16/>

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**Document Location:** Contact NMGS

---

**Work initiated by:** Various

---

**Work funded by:** Various

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**Type of review:** Journal Peer Review

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**Location of Work:** Southwestern NM

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**Abstract or brief summary:**

Includes papers for geology, tectonics, structure, geophysics, stratigraphy, sedimentology, sedimentary petrology, geomorphology, economic geology, and environmental geology

**Topic category:** Geology

**Keywords:** Geology, Tyrone, Big Hatchet Mountain,  
Florida Mountains

**County:** Southwestern NM

**Title:** New Mexico Geological Society Fall Field Conference Guidebook - 21, Tyrone-Big Hatchet Mountain-Florida Mountains Region

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**Author:** Various

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**Date:** 1970

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**Publication/journal/publisher:** New Mexico Geological Society

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**Type of document:** Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/21/>

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**Purchase Price:** \$20.00

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/21/>

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**Document Location:** Contact NMGS

---

**Work initiated by:** Various

---

**Work funded by:** Various

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**Type of review:** Journal Peer Review

---

**Location of Work:** Southwestern NM

---

**Abstract or brief summary:**

Includes papers for geology, tectonics, structure, geophysics, stratigraphy, sedimentology, sedimentary petrology, geomorphology, economic geology, and environmental geology

**Topic category:** Geology

**Keywords:** Geology, southwestern New Mexico

**County:** Southwestern NM

**Title:** New Mexico Geological Society Fall Field Conference Guidebook - 39, Cretaceous and Laramide Tectonic Evolution of Southwestern New Mexico

---

**Author:** Various

---

**Date:** 1988

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**Publication/journal/publisher:** New Mexico Geological Society

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**Type of document:** Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/39/>

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**Purchase Price:** \$10.00

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/39/>

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**Document Location:** Contact NMGS

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**Work initiated by:** Various

---

**Work funded by:** Various

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**Type of review:** Journal Peer Review

---

**Location of Work:** Southwestern NM

---

**Abstract or brief summary:**

Includes papers for geology, tectonics, structure, geophysics, stratigraphy, sedimentology, sedimentary petrology, geomorphology, economic geology, and environmental geology

**Topic category:** Geology

**Keywords:** Geology, southwestern New Mexico

**County:** Southwestern NM

**Title:** New Mexico Geological Society Fall Field Conference Guidebook - 51, Southwest Passage-A trip through the Phanerozoic

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**Author:** Various

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**Date:** 2000

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**Publication/journal/publisher:** New Mexico Geological Society

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**Type of document:** Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/51/>

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**Purchase Price:** \$25.00

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/51/>

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**Document Location:** Contact NMGS

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**Work initiated by:** Various

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**Work funded by:** Various

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**Type of review:** Journal Peer Review

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**Location of Work:** Southwestern NM

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**Abstract or brief summary:**

Includes papers for geology, tectonics, structure, geophysics, stratigraphy, sedimentology, sedimentary petrology, geomorphology, economic geology, and environmental geology

**Topic category:** Geology

**Keywords:** Geology, Gila, Silver City

**County:** Grant County

**Title:** New Mexico Geological Society Fall Field Conference Guidebook - 59, Geology of the Gila Wilderness-Silver City area

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**Author:** Various

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**Date:** 2008

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**Publication/journal/publisher:** New Mexico Geological Society

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**Type of document:** Book

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**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/59/>

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**Purchase Price:** \$45.00

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**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/59/>

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**Document Location:** Contact NMGS

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**Work initiated by:** Various

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**Work funded by:** Various

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**Type of review:** Journal Peer Review

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**Location of Work:** Southwestern NM

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**Abstract or brief summary:**

Includes papers for geology, tectonics, structure, geophysics, stratigraphy, sedimentology, sedimentary petrology, geomorphology, economic geology, and environmental geology



**Topic category:** Geology

**Keywords:** Geology, New Mexico

**County:** Western New Mexico

**Title:** K-Ar ages of Tertiary igneous rocks in central and western New Mexico

**Author:** Weber, R.H.

**Date:** 1971

**Publication/journal/publisher:** Isochron/West, No. 1, 33-45

**Type of document:**

**Source of document / Search method (phone, internet, library, etc.):**

**Purchase Price:**

**Web site address:**

**Document Location:**

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Western New Mexico

**Abstract or brief summary:**

**Topic category:** Geology

**Keywords:** Tertiary, stratigraphy, Catron County

**County:** Catron County

**Title:** Tertiary stratigraphy of northern Catron County, New Mexico

**Author:** Willard, M.E.

**Date:** 1959

**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 10, West-Central New Mexico, 92-99. Reprinted 1996.

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/10/>

**Purchase Price:** \$20.00

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/10/>

**Document Location:** Contact NMGS

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** West-Central NM

**Abstract or brief summary:**

This article provides a detailed discussion of the stratigraphic relationships and descriptions of the stratigraphic units for Tertiary sediments in northern Catron County.

**Topic category:** Geology

**Keywords:** Geology, map, Canon Largo

**County:** Catron County

**Title:** Reconnaissance geologic map of Cañon Largo 30-minute quadrangle

**Author:** Willard, M.E. and R.H. Weber

**Date:** 1958

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources Geological Map 6.  
Scale 1:26,720

**Type of document:** Map Sheet

**Source of document / Search method (phone, internet, library, etc.):**

<http://geoinfo.nmt.edu/publications/cart/home.cfm?Code=GM00006>

**Purchase Price:** \$3.25

**Web site address:** <http://geoinfo.nmt.edu/publications/cart/home.cfm?Code=GM00006>

**Document Location:** NMBGMR

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Canon Largo

**Abstract or brief summary:**

Reconnaissance geologic map of Canon Largo

**Topic category:** Geology  
**Keywords:** Geothermal Resources,  
**County:** Southwestern, NM

**Title:** Geothermal resources of southwestern New Mexico and southeastern Arizona

**Author:** Witcher, J.C.

**Date:** 1988

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 39,  
Cretaceous and Laramide Tectonic Evolution of Southwestern New  
Mexico

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/39/>

**Purchase Price:** \$10.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/39/>

**Document Location:** Contact NMGS

**Work initiated by:** New Mexico State University

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern, NM

**Abstract or brief summary:**

A geologic inventory of the discharge sites of convective geothermal systems points to a common geohydrologic setting.

**Topic category:** Geology

**Keywords:** Precambrian, geology, Southwestern, New Mexico

**County:** Southwestern, NM

**Title:** Precambrian Rocks of Southwestern New Mexico

**Author:** Woodward, L.A.

**Date:** 1970

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 21, Tyrone-Big Hatchet Mountain-Florida Mountains Region

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/21/>

**Purchase Price:** \$20.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/21/>

**Document Location:** Contact NMGS

**Work initiated by:** University of New Mexico

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern, NM

**Abstract or brief summary:**

Discussion of Precambrian geology in southwestern New Mexico.

**Topic category:** Geology

**Keywords:** Geology, map, Peloncillo Mountains

**County:** Hidalgo County

**Title:** Reconnaissance geologic map of part of the southern Peloncillo Mountains, Hidalgo County, New Mexico

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**Author:** Wrucke, C.T. and C.S. Bromfield

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**Date:** 1961

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**Publication/journal/publisher:** U.S Geological Survey, Miscellaneous Field Studies Map 160, 1 map.

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**Type of document:** Map Sheet

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**Source of document / Search method (phone, internet, library, etc.):**

USGS publication search <<http://pubs.er.usgs.gov/usgspubs/mf/mf160>>

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**Purchase Price:** copy of original may be available

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**Web site address:** <http://pubs.er.usgs.gov/usgspubs/mf/mf160>

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**Document Location:** Contact USGS

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**Work initiated by:** USGS

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**Work funded by:**

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**Type of review:**

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**Location of Work:** Peloncillo Mountains, Hidalgo County

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**Abstract or brief summary:**

Reconnaissance geologic map of the southern Peloncillo Mountains

**Topic category:** Geology

**Keywords:** Geology, Lower Cretaceous, Stratigraphy, Southwest

**County:** Southwestern NM

**Title:** Lower Cretaceous Stratigraphy of Southwestern New Mexico

**Author:** Zeller, R.A.Jr.

**Date:** 1953

**Publication/journal/publisher:** In New Mexico Geological Society Fall Field Conference Guidebook - 4, Southwestern New Mexico, 142-143. Reprinted 1996.

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/4/>

**Purchase Price:** \$20.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/4/>

**Document Location:** Contact NMGS

**Work initiated by:**

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Southwestern NM

**Abstract or brief summary:**

This article discusses the general character and preliminary ideas on correlation for the Lower Cretaceous stratigraphy of Southwestern New Mexico.

**Topic category:** Geology

**Keywords:** Geology, Little Hatchet Mountains, Hidalgo, Grant

**County:** Grant and Hidalgo Counties

**Title:** Geology of the Little Hatchet Mountains, Hidalgo and Grant Counties, New Mexico

**Author:** Zeller, R.A.Jr.

**Date:** 1970

**Publication/journal/publisher:** New Mexico Bureau of Geology and Mineral Resources, Bulletin 96, 23 pages (reprinted 1979).

**Type of document:** Printed report

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/bulletins/96/>>

**Purchase Price:** \$6.50

**Web site address:**

**Document Location:** Contact NMBGMR

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Little Hatchet Mountain, Hidalgo and Grant Counties

**Abstract or brief summary:**

The chief purpose of this project was the detailed geologic mapping of the Little Hatchet Mountains on a scale of 1:31,680. Thick Early Cretaceous sequence, modified from the S. G. Lasky, is a key to Mesozoic stratigraphy in the Southwest. It consists, in ascending order, of unnamed beds, Hell-to-Finish, U-Bar, Mojado, and Ringbone Formations, overlain by the early Tertiary Hidalgo volcanics, and by younger volcanic rocks. Intrusive rocks are of Precambrian, Laramide, and Tertiary age; Laramide thrust faults and Tertiary normal faults characterize the structure. Copper, lead, silver, zinc, molybdenite, tungsten, and gold ores are favorable for exploration.



**Topic category:** Geology

**Keywords:** Big Hatchet, Stratigraphy,

**County:**

**Title:** Stratigraphy of the Big Hatchet Mountains Area, New Mexico

**Author:** Zeller, R.A.Jr.

**Date:** 1970

**Publication/journal/publisher:** New Mexico Geological Society Fall Field Conference Guidebook - 21,  
Tyrone-Big Hatchet Mountain-Florida Mountains Region

**Type of document:** Paper in Book

**Source of document / Search method (phone, internet, library, etc.):**

<http://nmgs.nmt.edu/publications/guidebooks/21/>

**Purchase Price:** \$20.00 for Entire Book

**Web site address:** <http://nmgs.nmt.edu/publications/guidebooks/21/>

**Document Location:** Contact NMGS

**Work initiated by:** NM Bureau of Mines and Mineral Resources

**Work funded by:**

**Type of review:** Journal Peer Review

**Location of Work:** Big Hatchet Mountains, Hidalgo County

**Abstract or brief summary:**

Discussion of Big Hatchet Stratigraphy from Precambrian to the cretaceous system.

**Topic category:** Geology

**Keywords:** Structural geology, Big Hatchet Peak,  
Hidalgo

**County:** Hidalgo County

**Title:** Structural Geology of Big Hatchet Peak Quadrangle, Hidalgo County, New Mexico,

**Author:** Zeller, R.A.Jr.

**Date:** 1975

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources, Circular 146, 23  
pages (with commentary by S. Thompson III).

**Type of document:** Printed report

**Source of document / Search method (phone, internet, library, etc.):**  
NMBGMR search <<http://geoinfo.nmt.edu/publications/circulars/125/>>

**Purchase Price:** \$6.25

**Web site address:**

**Document Location:** Contact NMBGMR

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Big Hatchet Peak Quadrangle, Hidalgo County

**Abstract or brief summary:**

This report on the structural geology on the Big Hatchet Peak quadrangle is a supplement to the memoir on the stratigraphic geology. An index map shows the location of the Big Hatchet Peak quadrangle in Hidalgo County, New Mexico, and the chief geographic features of the region. The most prominent ridges and valleys in the ranges trend northwest and reflect structural control, but faults show little topographic expression.

**Topic category:** Geology

**Keywords:** Geology, Walnut Wells, Hidalgo

**County:** Hidalgo County

**Title:** Geology of the Walnut Wells Quadrangle, Hidalgo County, New Mexico

**Author:** Zeller, R.A.Jr., and A.M. Alper

**Date:** 1965

**Publication/journal/publisher:** New Mexico Bureau of Mines and Mineral Resources Bulletin 84, 105 pages plus 2 plates

**Type of document:** Printed report

**Source of document / Search method (phone, internet, library, etc.):**

NMBGMR search <<http://geoinfo.nmt.edu/publications/bulletins/84/>>

**Purchase Price:** \$7.00

**Web site address:**

**Document Location:** Contact NMBGMR

**Work initiated by:**

**Work funded by:**

**Type of review:**

**Location of Work:** Walnut Wells Quadrangle, Hidalgo County

**Abstract or brief summary:**

The Walnut Wells 15-min quadrangle in southern Hidalgo County, NM, lies in the Basin and Range physiographic province and includes a part of the Animas Mountains. Strongly deformed Paleozoic and Cretaceous sedimentary rocks are overlain unconformably by a less deformed thick series of Tertiary rocks. Late elevation of the Animas range was relatively small so that erosion has not proceeded deep enough to expose pre-Tertiary rocks and structures except in one area. Tertiary arching in the east-central part of the quadrangle resulted in exposure of older rocks and structures.