

SEAN DAVID CONNELL

EDUCATION

University of New Mexico: Ph.D. candidate in Geology, ABD. Dissertation topic: *Hangingwall ramp sedimentation in continental half grabens*. Advisor: Dr. Gary A. Smith. Current GPA=4.1.

University of California, Riverside: M.S., Geology, 1995. Thesis topic: *Quaternary geology and geomorphology of the Sandia Mountains piedmont*. Concentration in Quaternary geology and tectonic geomorphology. Advisor: Dr. Stephen G. Wells. GPA=3.9.

California State University, Northridge: B.S., Geology, 1988.

PROFESSIONAL EXPERIENCE

New Mexico Bureau of Geology and Mineral Resources, Albuquerque Office: 2808 Central Ave., SE, Albuquerque, New Mexico 87106, (505) 366-2534, email: connell@gis.nmt.edu

Web page: <http://geoinfo.nmt.edu/staff/connell.htm>

- Albuquerque Office Manager: August 2000 to present. Supplemental to Field Geologist position. Duties include supervising operations and support staff at the Albuquerque field office of the New Mexico Bureau of Geology and Mineral Resources.
- Field geologist: January 1996 to present. Tenure granted in February 2001. Selected projects and duties include:
 - ◆ January 2003 to February 2005: Assisted Albuquerque Metropolitan Crime Lab in a forensic investigation of sediment for a homicide case. Testified as expert witness at trial in February 2005.
 - ◆ Winter 1998 to 2004: Co-compilation of the Cenozoic geology for a 1:50,000 USGS geologic map of the Isleta Reservation and vicinity, Albuquerque Basin, New Mexico.
 - ◆ August 1998 to present: Stratigraphic studies of the Santa Fe Group in the Albuquerque Basin. Collaboration with researchers at the New Mexico Bureau of Mines and Mineral Resources, New Mexico Museum of Natural History and Science, American Museum of Natural History, and U.S. Geological Survey.
 - ◆ July 1998 to 2006: Compilation of digital (GIS-based) 1:50,000 geologic map of the Albuquerque-Rio Rancho metropolitan area and vicinity, Sandoval and Bernalillo Counties, New Mexico.
 - ◆ September 1997 to February 1999: Assisted in liquefaction susceptibility study of the inner valley of the Rio Grande, near Albuquerque.
 - ◆ January 1996 to present: Ongoing geologic mapping of quadrangles in of the Albuquerque Basin through the New Mexico Statemap Program of the National Cooperative Geologic Mapping Act of 1992.

- ◆ January 1996 to present: Lithologic logging of cuttings, borehole geophysical analysis of monitoring wells, and sub-surface studies of the Albuquerque Basin.
- ◆ January 1996 to present: Assist Pueblo, Federal, State, and local agencies in geologic concerns, including the siting of water-supply and groundwater-monitoring wells, and opinions on geologic problems in the state.

New Mexico Institute of Mining and Technology, 801 Leroy Place, Socorro, New Mexico 87801

- Faculty Adjunct, Department of Earth and Environmental Sciences: Fall 1999 to present
 - ◆ Served on three M.S student thesis committees.

University of California, Riverside, California

- Graduate Research Assistant, Department of Earth Sciences and Department of Environmental Sciences: July 1992 to March 1995 (part-time, intermittent). Duties included:
 - ◆ Aerial photographic analysis, geologic mapping, geomorphic data collection, and soil-profile descriptions for various research and contract projects in southern California and New Mexico. Final project involved photogeologic mapping of nearly 20 quadrangles and limited field study for a cultural resources sensitivity study in eastern California. This project also involved acquisition of hollow-stem auger cores from playa lakes near the terminus of the Mojave River in southeastern California.

William Lettis and Associates, Inc., Oakland, California

- Temporary Staff Geologist: September 1993 to May 1994 (part-time). Duties included:
 - ◆ Aerial photographic analysis, geologic mapping, and geomorphic analyses for comprehensive geologic mapping program on lands administered by the Sandia National Laboratories and Kirtland Airforce Base, Albuquerque, New Mexico.

Allan E. Seward Engineering Geology, Inc., Newhall, California

- Geologist: June 1987 to April 1992 (full-time after June 1988). Duties included:
 - ◆ Engineering geologic evaluation and grading inspection of numerous properties for residential, commercial, and light industrial tract development in northern Los Angeles County, California, including paleoseismic investigations of Quaternary active fault zones and establishing building setbacks.

PROFESSIONAL LICENSES

Registered Geologist, State of California (License No. 6126), 1995 to present.

Certified Engineering Geologist, State of California (License No. 1910), 1995 to present.

PROFESSIONAL AFFILIATIONS

Geological Society of America

Association of Engineering Geologists

American Geophysical Union

New Mexico Geological Society:

Spring Meeting 2003, registration chair

Spring Meeting 2004, general chair

Albuquerque Geological Society

Society for Sedimentary Geology (SEPM)

LONG-TERM RESEARCH INTERESTS

- ◆ Stratigraphy, soils and tectonic geomorphology of continental extensional basins.
- ◆ Structure, stratigraphy, and geomorphic history of basins of the Rio Grande rift.
- ◆ Hydrogeology of alluvial aquifers and continental extensional basins.

SUPPLEMENTARY EDUCATION

- Completed National Ground Water Association 2½ day short-course on *Borehole Geophysics for the Ground Water and Environmental Professional*, May 1998.
- Completed 2-day short course on *Introduction to ArcView GIS*, held at the New Mexico Engineering Research Institute, June 1998.
- Attended 2-day short course on *Sequence Stratigraphy for Graduate Students*, hosted by Exxon-Mobil Corporation, Fall 2003.
- Completed course in *Beginning Java Programming* through the University of New Mexico, Continuing Education Program, Fall 2004.
- Attended two-day short-course on *Documenting GIS Data Using ArcCatalog*, Earth Data Analysis Center, University of New Mexico, March 2005.

REFERENCES

Available upon request

POST-BACCALAUREATE COURSES IN GEOLOGY AND RELATED FIELDS

University of New Mexico (2001-present)

- EPS505: *Stable Isotope Geochemistry.*
- EPS508: *Paleomagnetism and Applications to Geological Problems.*
- EPS511: *Sedimentary Geochemistry.*
- EPS522: *Geodynamics Seminar.*
- EPS523: *Tectonics of North America Seminar.*
- EPS527: *Geophysics.*
- EPS547: *Quaternary Paleoclimate Seminar.*
- EPS555: *Computational and GIS Applications in Geomorphology.*
- EPS557: *Mathematical Modeling in the Geosciences.*

University of California, Riverside (1992-1994)

- ENSC163: *Hydrology.*
- Geo132: *Groundwater Geology.*
- Geo162A & B: *Geomorphology A and B.*
- Geo205: *Geohydrology.*
- Geo248: *Quaternary Geologic Systems.*
- Geo250: *Advanced Topics in Geomorphology Seminar.*
- Geo250: *Quantitative Geomorphology Seminar.*
- Geo259: *Tectonics of California.*
- SSC118: *Soil Morphology and Classification.*

California State University, San Bernardino (1994)

- Geo540: *Neotectonics and Seismic Hazards.*

California State University, Los Angeles (1990 & 1992)

- Geo481: *Engineering Geology.*
- Geo533: *Seminar in Quaternary Geology.*

LIST OF PUBLICATIONS AND GEOLOGIC MAPS

In Preparation/Press

Connell, S.D., *in preparation*, Geology of the Albuquerque-Rio Rancho metropolitan area and vicinity, Bernalillo and Sandoval Counties, New Mexico: New Mexico Bureau of Geology and Mineral Resources, Bulletin.

Connell, S., and McCraw, D.J., *in preparation*, Preliminary geologic map of the La Joya NW 7.5-minute quadrangle, Socorro County, New Mexico: New Mexico Bureau of Geology and Mineral Resources, Open-file Geologic Map OF-GM, scale 1:24,000. *Expected release May 2007.*

Connell, S.D., *in press*, Geologic map of the Albuquerque-Rio Rancho metropolitan area, New Mexico: Regional comparisons [abstract]: U.S. Geological Survey, Open-file report.

Cather, S.M., **Connell, S.D.**, Chamberlin, R.M., McIntosh, W.C., Jones, G.E., Potochnik, A.R., Lucas, S.G., and Johnson, P.S., *in preparation*, The Chuska Erg: Paleogeomorphic and paleoclimatic implications of an Oligocene sand sea on the Colorado Plateau.

Maldonado, F., Love, D.W., **Connell, S.D.**, Karlstrom, K.E., and Slate, J.L., *in press*, Geologic map of Isleta Reservation and contiguous areas, Bernalillo, Torrance, and Valencia Counties, central New Mexico: U.S. Geological Survey, Miscellaneous Investigations Series Map, report and map, scale 1:50,000.

Published Papers and Guidebook Articles

2005

Connell, S.D., Hawley, J.W., and Love D.W., 2005, Late Cenozoic drainage development in the southeastern Basin and Range of New Mexico, southeasternmost Arizona, and western Texas, *in* Lucas, S.G., Morgan, G.S., and Ziegler, K.E., eds., *New Mexico's Ice Ages: New Mexico Museum of Natural History and Science Bulletin 28*, p. 125-150.

Koning, D.J. **Connell, S.D.**, Morgan, G.S., Peters, L., and McIntosh, W.C., 2005, Stratigraphy and depositional trends in the Santa Fe Group near Española, north-central New Mexico: Tectonic and climatic implications, *in* Lucas, S.G., Ziegler, K.E., Lueth, V.W., Owen, D.E., eds., *Geology of the Chama Basin*, New Mexico Geological Society, Guidebook 56, p. 237-257.

Love D.W., and **Connell, S.D.**, 2005, Late Neogene drainage developments on the southeastern Colorado Plateau, New Mexico, *in* Lucas, S.G., Morgan, G.S., and Ziegler, K.E., eds., *New Mexico's Ice Ages: New Mexico Museum of Natural History and Science Bulletin 28*, p. 151-169.

2004

Connell, S.D., 2004, Geology of the Albuquerque Basin and tectonic development of the Rio Grande rift, north-central New Mexico, *in* Mack, G.H., and Giles, K.J., eds., *The Geology of New Mexico, A geologic history: New Mexico: New Mexico Geological Society, Special Publication 11*, p. 359-388.

Kelson, K.I., Bauer, P.W., **Connell, S.D.**, Love, D.W., Rawling, G.C., and Mansell, M., 2004, Initial paleoseismic and hydrogeologic assessment of the southern Sangre de Cristo fault at the Taos Pueblo: New Mexico Geological Society, Guidebook 55, p. 289-299.

2002

Connell, S.D., Cather, S.M., McIntosh, W.C., Dunbar, N., 2002, Stratigraphy of the Tanos and Blackshare Formations (lower Santa Fe Group), Hagan embayment, Rio Grande rift, New Mexico: *New Mexico Geology*, v. 24, n. 4, p. 107-120.

Koning, D.J., **Connell, S.D.**, Pazzaglia, F.J., McIntosh, W.C., 2002, Redefinition of the Ancha Formation and Pliocene-Pleistocene deposition in the Santa Fe embayment, north-central New Mexico: *New Mexico Geology*, v. 24, n. 3, p. 75-87.

2001

- Connell, S.D.**, Lucas, S.G., Koning, D.J., Maynard, S.R., and Derrick, N.N., 2001, First-day, Santo Domingo sub-basin: Hagan Embayment and northern flank of the Sandia Mountains, *in* Connell, S.D., Love, D.W., Lucas, S.G., Koning, D.J., Derrick, N.N., Maynard, S.R., Morgan, G.S., Jackson-Paul, P.B., and Chamberlin, R., trip leaders., Stratigraphy and tectonic development of the Albuquerque Basin, central Rio Grande rift, field trip guidebook: Albuquerque, New Mexico, Geological Society of America, Rocky Mountain-South Central Section Meeting: New Mexico Bureau of Geology and Mineral Resources, Open-file report 454A, p. 1-15.
- Connell, S.D.**, Koning, D.J., Derrick, N.N., Love, D.W., Lucas, S.G., Morgan, G.S., Jackson-Paul, P.B., 2001, Second-day, Calabacillas sub-basin: Zia Pueblo, Rio Rancho, and Tijeras Arroyo, *in* Connell, S.D., Love, D.W., Lucas, S.G., Koning, D.J., Derrick, N.N., Maynard, S.R., Morgan, G.S., Jackson-Paul, P.B., and Chamberlin, R., trip leaders., Stratigraphy and tectonic development of the Albuquerque Basin, central Rio Grande rift, field trip guidebook: Albuquerque, New Mexico, Geological Society of America, Rocky Mountain-South Central Section Meeting: New Mexico Bureau of Geology and Mineral Resources, Open-file report 454A, p. 17-26.
- Love, D.W., **Connell, S.D.**, Lucas, S.G., Morgan, G.S., Derrick, N.N., Jackson-Paul, P.B., and Chamberlin, R., 2001, Third-day, Belen sub-basin: Belen, Sevilleta National Wildlife Refuge, and northern Socorro Basin, *in* Connell, S.D., Love, D.W., Lucas, S.G., Koning, D.J., Derrick, N.N., Maynard, S.R., Morgan, G.S., Jackson-Paul, P.B., and Chamberlin, R., trip leaders., Stratigraphy and tectonic development of the Albuquerque Basin, central Rio Grande rift, field trip guidebook: Albuquerque, New Mexico, Geological Society of America, Rocky Mountain-South Central Section Meeting: New Mexico Bureau of Geology and Mineral Resources, Open-file report 454A, p. 27-53.
- Connell, S.D.**, 2001, Stratigraphy of the Albuquerque Basin, New Mexico: A progress report, *in* Connell, S.D., Lucas, S.G., and Love, D.W., eds., Stratigraphy and tectonic development of the Albuquerque Basin, central Rio Grande rift, mini-papers for field trip guidebook: Albuquerque, New Mexico: Geological Society of America, Rocky Mountain-South Central Section Meeting: New Mexico Bureau of Geology and Mineral Resources, Open-file report 454B, p. A1-A27.
- Connell, S.D.**, Cather, S.M., 2001, Stratigraphy of the lower Santa Fe Group, Hagan embayment, north-central New Mexico: Preliminary results, *in* Connell, S.D., Lucas, S.G., and Love, D.W., eds., Stratigraphy and tectonic development of the Albuquerque Basin, central Rio Grande rift, mini-papers for field trip guidebook: Albuquerque, New Mexico: Geological Society of America, Rocky Mountain-South Central Section Meeting: New Mexico Bureau of Geology and Mineral Resources, Open-file report 454B, p. H49-H56.
- Koning, D.J., **Connell, S.D.**, Pazzaglia, F.J., and McIntosh, W.C., 2001, Stratigraphy of the Tuerto and Ancha formations (upper Santa Fe Group), Hagan and Santa Fe embayments, north-central New Mexico, *in* Connell, S.D., Lucas, S.G., and Love, D.W., eds., Stratigraphy and tectonic development of the Albuquerque Basin, central Rio Grande rift, mini-papers for field trip guidebook: Albuquerque, New Mexico: Geological Society of America, Rocky Mountain-South Central Section Meeting: New Mexico Bureau of Geology and Mineral Resources, Open-file report 454B, p. I57-I66.
- Connell, S.D.**, Love, D.W., 2001, Stratigraphy of middle and upper Pleistocene fluvial deposits of the Rio Grande (post Santa Fe Group) and the geomorphic development of the Rio Grande Valley, northern Albuquerque Basin, central New Mexico, *in* Connell, S.D., Lucas, S.G., and Love, D.W., eds., Stratigraphy and tectonic development of the Albuquerque Basin, central Rio Grande rift, mini-papers for field trip guidebook: Albuquerque, New Mexico: Geological Society of America, Rocky Mountain-South Central Section Meeting: New Mexico Bureau of Geology and Mineral Resources, Open-file report 454B, p. J67-J78.
- Connell, S.D.**, Koning, D.J., and Derrick, N.N., 2001, Preliminary interpretation of Cenozoic strata in the Tamara No. 1-Y well, Sandoval County, north-central New Mexico, *in* Connell, S.D., Lucas, S.G.,

and Love, D.W., eds., Stratigraphy and tectonic development of the Albuquerque Basin, central Rio Grande rift, mini-papers for field trip guidebook: Albuquerque, New Mexico: Geological Society of America, Rocky Mountain-South Central Section Meeting: New Mexico Bureau of Geology and Mineral Resources, Open-file report 454B, p. K79-K88.

Love, D.W., **Connell, S.D.**, Dunbar, N., McIntosh, W.C., McKee, W.C., Mathis, A.G., Jackson-Paul, P.B., Sorrell, J.D., and Abeita, N., 2001, Guide to the geology of the eastern side of the Rio Grande Valley along southbound I-25 from Rio Bravo Boulevard to Bosque Farms, Bernalillo and Valencia Counties, New Mexico, *in* Connell, S.D., Lucas, S.G., and Love, D.W., eds., Stratigraphy and tectonic development of the Albuquerque Basin, central Rio Grande rift, mini-papers for field trip guidebook: Albuquerque, New Mexico: Geological Society of America, Rocky Mountain-South Central Section Meeting: New Mexico Bureau of Geology and Mineral Resources, Open-file report 454B, p. L89-L93.

Connell, S.D., Love, D.W., and Sorrell, J.D., 2001, Geology of the Isleta Reservation, First-day road log, October 12, 2001, *in* Connell, S.D., Love, D.W., Sorrell, J.D., and Harrison, J.B.J., trip leaders., Plio-Pleistocene stratigraphy and geomorphology of the central part of the Albuquerque Basin: Friends of the Pleistocene, Rocky Mountain Cell, Field-trip guidebook: New Mexico Bureau of Geology and Mineral Resources, Open-file report 454C, p. 1-1 to 1-28.

Connell, S.D., Love, D.W., and Sorrell, J.D., 2001, Geology of southern Albuquerque and Tijeras Arroyo, Second-day road log, October 13, 2001, *in* Connell, S.D., Love, D.W., Sorrell, J.D., and Harrison, J.B.J., trip leaders., Plio-Pleistocene stratigraphy and geomorphology of the central part of the Albuquerque Basin: Friends of the Pleistocene, Rocky Mountain Cell, Field-trip guidebook: New Mexico Bureau of Geology and Mineral Resources, Open-file report 454C, p. 2-1 to 2-23.

Love, D.W., and **Connell, S.D.**, 2001, Geology of Los Lunas volcano, Third-day road log, October 14, 2001, *in* Connell, S.D., Love, D.W., Sorrell, J.D., and Harrison, J.B.J., trip leaders., Plio-Pleistocene stratigraphy and geomorphology of the central part of the Albuquerque Basin: Friends of the Pleistocene, Rocky Mountain Cell, Field-trip guidebook: New Mexico Bureau of Geology and Mineral Resources, Open-file report 454C, p. 3-1 to 3-13.

1999

Connell, S.D., and Wells, S.G., 1999, Pliocene and Quaternary stratigraphy, soils, and geomorphology of the northern flank of the Sandia Mountains, Albuquerque Basin, Rio Grande rift, New Mexico: New Mexico Geological Society, Guidebook 50, p. 379-391.

Connell, S.D., Koning, D.J., and Cather, S.M., 1999, Revisions to the stratigraphic nomenclature of the Santa Fe Group, northwestern Albuquerque Basin, New Mexico: New Mexico Geological Society, Guidebook 50, p. 337-353.

Maldonado, F., **Connell, S.D.**, Love, D.W., Grauch, V.J.S., Slate, J.L., McIntosh, W.C., Jackson, P.B., and Byers, F.M., Jr., 1999, Neogene geology of the Isleta Reservation and vicinity, Albuquerque Basin, New Mexico: New Mexico Geological Society Guidebook 50, p. 175-188.

Pazzaglia, F.J., **Connell, S.D.**, Tedford, R.H., Hawley, J.W., Personius, S., Smith, G.A., Cather, S.M., Lucas, S.G., Hester, P., Gilmore, J., and Woodward, L.A., 1999, Second-day trip 2 road log, Albuquerque to San Ysidro, Loma Creston, La Ceja, and Sand Hill fault: New Mexico Geological Society, Guidebook 50, p. 47-66.

Pazzaglia, F.J., Lucas, S.G., Estep, J., **Connell, S.D.**, Karlstrom, K.E., Black, B., Smith, G.A., Hawley, J.W., Johnson, P., Cather, S.M., and Stearns, C.E., 1999, First day road log, Albuquerque to Placitas, Hagan basin, and Espinaso Ridge: New Mexico Geological Society, Guidebook 50, p. 1-26.

1998

Allen, B.D., **Connell, S.D.**, Hawley, J.W., and Stone, B.D., 1998, Core drilling provides information about Santa Fe Group aquifer system beneath Albuquerque's west side: *New Mexico Geology*, v. 20, n. 1, p. 9-13.

Connell, S.D., Allen, B.D., and Hawley, J.W., 1998, Subsurface stratigraphy of the Santa Fe Group using borehole geophysical logs, Albuquerque area, central New Mexico: *New Mexico Geology*, v. 20, n. 1, p. 2-7.

1994

Connell, S.D., and Wells, S.G., and Williamson, T.N., 1994, Determination of the Holocene-Pleistocene boundary along the Mojave River, Summit Valley to Victorville, California, *in* Everson, G.D., and Schneider, J.S., eds., *Kelso Conference Papers, 1987-1992: Occasional Papers in Anthropology Number 4*, California State University, Bakersfield, Museum of Anthropology, p. 95-105.

Sena, G., **Connell, S.**, Wells, S., and Anderson, K., 1994, Investigation of surficial processes active on fan pavement surfaces using tilted carbonate collars, Providence Mountains, California, *in* McGill, S.F., and Ross, T.M., eds., *Geological investigations of an active margin: Geological Society of America 27th Annual Cordilleran Section Meeting Guidebook*, p. 210-213.

Wells, S.G., **Connell, S.D.**, and Williamson, T.N., 1994, Soil development in valley floor deposits along the southern margin of the San Timoteo Badlands, Riverside County, California, *in* McGill, S.F., and Ross, T.M., eds., *Geological investigations of an active margin, Geological Society of America 27th Annual Cordilleran Section Meeting Guidebook*, p. 140-146.

1990-1993

Connell, S. D., and Seward, A.E., 1990, Evidence of Holocene fault activity on the Elkhorn fault, *in* Larson, R. A., and Buckley, C. I., eds., *Geology and engineering geology of the western Soledad basin, Los Angeles County, California: Southern California Section of the Association of Engineering Geologists, 1990 Annual Field Trip Guidebook*, p. 132-144.

Wells, S.G., **Connell, S.D.**, and Martin, J.J., 1993, Geomorphic and soil stratigraphic evaluation of a faulted alluvial sequence, eastern Coachella Valley, California, *in* Reynolds, R., and Reynolds, J., eds., *Ashes, basins and faults: Mojave Desert Quaternary Research Center Symposium Guidebook, San Bernardino County Museum Association*, p. 39-49.

Geologic Maps

2006

Connell, S.D., 2006, Preliminary geologic map of the Albuquerque-Rio Rancho metropolitan area and vicinity, Bernalillo and Sandoval Counties, New Mexico: New Mexico Bureau of Geology and Mineral Resources, Open-file report 496, scale 1:24,000. maps available online at URL: <http://geoinfo.nmt.edu/publications/openfile/496>

2005-2000

de Moor, M., Zinsser, A., Karlstrom, K., Chamberlin, R., **Connell, S.**, Read, A., 2005, *Geology of the La Joya 7.5-minute quadrangle, Socorro County, New Mexico: New Mexico Bureau of Geology and Mineral Resources, Open-file Geologic Map OF-GM 102, scale 1:24,000.*

Luther, A.L., Karlstrom, K.E., Scott, L.A., Elrick, M., and **Connell, S.D.**, 2005, *Geology of the Becker 7.5-minute quadrangle, Valencia and Socorro Counties, New Mexico, New Mexico Bureau of Mines and Mineral Resources, Open-file Geologic Map OF-GM 100, scale 1:24,000.*

Scott, L.A., Elrick, M., **Connell, S.**, and Karlstrom, K., 2005, *Preliminary Geologic Map of the Scholle 7.5-minute Quadrangle, Valencia, Torrance, and Socorro Counties, New Mexico, New Mexico Bureau of Geology and Mineral Resources, Open-file Geologic Map OF-GM 99, scale 1:24,000.*

Baer, S., Karlstrom, K.E., Bauer, P.W., and **Connell, S.D.**, 2004, *Geology the Manzano Peak 7.5-minute quadrangle, Valencia and Torrance Counties, New Mexico, New Mexico Bureau of Geology and Mineral Resources, Open-file Geologic Map 61, scale 1:12,000.*

Cather, S.M. and **Connell, S.D.**, Lucas, S., Picha, M.G., and Black, B.A., 2002, Geology of the Hagan 7.5-min. quadrangle, Sandoval County, New Mexico, New Mexico Bureau of Geology and Mineral Resources, Open-file Geologic Map OF-GM 50, scale 1:24,000.

Karlstrom, K.E., **Connell, S.D.**, Rogers, S.A., and Crawford, E.B., 2001, Geology of the Capilla Peak 7.5-minute quadrangle, Tarrant and Valencia Counties, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Open-file Geologic Map 27, scale 1:12,000.

Cather, S.M., **Connell, S.D.**, and Black, B.A., 2000, Preliminary geologic map of the San Felipe Pueblo NE 7.5-Minute quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Open-File Geologic Map OF-GM 37, scale 1:24,000.

1999-1995

Karlstrom, K.E., **Connell, S.D.**, Edwards, D.L., Armour, J., Lewis, J., and Jackson, P.B., 1999, Geology of the Bosque Peak 7.5-minute quadrangle, Tarrant, Bernalillo, and Valencia Counties, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Open-File Geologic Map OF-GM 24, scale 1:12,000.

Cather, S.M., and **Connell, S.D.**, 1998, Geology of the San Felipe Pueblo 7.5-minute quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Open-File Geologic Map OF-GM 19, scale 1:24,000.

Connell, S.D., 1998, Geology of the Bernalillo 7.5-minute quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Open-File Geologic Map OF-GM 16, scale 1:24,000, *revised February 17, 2000.*

Connell, S.D., Allen, B.D., Hawley, J.W., and Shroba, R., 1998, Geology of the Albuquerque West 7.5-minute quadrangle, Bernalillo County, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Open-File Geologic Map OF-GM 17, scale 1:24,000.

Cather, S.M., **Connell, S.D.**, Heynekamp, M.R. and Goodwin, L.B., 1997, Geology of the Sky Village SE (Arroyo de Las Calabacillas) 7.5-minute quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Open-File Digital Geologic Map OF-DM 9, scale 1:24,000.

Connell, S.D., 1997, Geology of the Alameda 7.5-minute quadrangle, Bernalillo County, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Open-File Geologic Map OF-GM 10, scale 1:24,000.

Karlstrom, K.E., Chamberlin, R.C., **Connell, S.D.**, Brown, C., Nyman, M., Cavin, W., Parchman, M., Cook, C., Sterling, J., 1997, Geology of the Mt. Washington 7.5-minute quadrangle, Bernalillo and Valencia Counties, New Mexico, New Mexico Bureau of Mines and Mineral Resources, Open-File Geologic Map OF-GM 8, scale 1:12,000 and 1:24,000.

Connell, S., Cather, S., Karlstrom, K., Menne, B., Picha, M., Andronicus, C., Read, A., Ilg, B., Bauer, P., and Johnson, P.S., 1995, Geology of the Placitas 7.5-min quadrangle, Sandoval County, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Open-File Geologic Map OF-GM 2, scale 1:12,000, *revised February 17, 2000.*

Read, A.S., Karlstrom, K.E., **Connell, S.D.**, Kirby, E., Ferguson, C.A., Ilg, B., Osburn, G.R., Van Hart, D., Pazzaglia, F.J., 1995, Geology of the Sandia Crest 7.5-minute quadrangle, Bernalillo and Sandoval Counties, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Open-File Geologic Map OF-GM 6, scale 1:12,000, *revised February 22, 2000.*

Karlstrom, K., Kirby, E., **Connell, S.**, Read, A., Ferguson, C., Osburn, G., Abbott, J., Hitchcock, C., Kelson, K., Noller, J., Sawyer, T., Bauer, P., Ralser, S., Love, D., and Nyman, M., 1994, Geology of the Tijeras 7.5-minute quadrangle, Bernalillo County, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Open-File Geologic Map OF-GM 4, scale 1:12,000.

Abstracts

2006

Cather, S.M., Chamberlin, R.M., **Connell, S.D.**, McIntosh, W.C., and Jones, G.E., 2006, The Chuska Erg: Paleogeomorphic and paleoclimatic implications of an Oligocene sand sea on the Colorado Plateau [abstract]: *New Mexico Geology*, *in press*.

2005

Connell, S.D., and Smith, G.A., 2005, Post-Miocene stratigraphy of the Albuquerque basin, Rio Grande rift, New Mexico: Implications for geomorphic and hydrogeologic development of extensional basins: *Geological Society of America, Abstracts with programs*, v. 37, n. 7, p. 496.

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