



**Stephen A. Hall, Ph.D.**  
Red Rock Geological Enterprises  
3 Cagua Road, Santa Fe, NM 87508-8116

<http://redrockgeological.com>

Tel. 505-466-7755, Cell 505-660-5521  
Email: [steve@redrockgeological.com](mailto:steve@redrockgeological.com)

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#### **LIST OF CONSULTING CLIENTS**

- Archaeological Research Inc., El Paso, TX
- Bureau of Economic Geology, University of Texas at Austin, Austin, TX
- Bureau of Land Management, Santa Fe, NM
- Criterion Environmental Consulting LLC, Albuquerque, NM
- Cultural Resources Management Consultants Inc., Farmington, NM
- Earth Analytic, Inc., Santa Fe, NM
- Ecological Communications Corporation, Austin, TX
- Ecosystem Management, Inc., Albuquerque, NM
- Four Corners Research, Inc., Tularosa, NM
- Geo-Marine, Inc., El Paso, TX, and Plano, TX
- Gnomon, Inc., Carson City, Nevada
- Historic Preservation Division, State of New Mexico, Santa Fe, NM
- Historical Research Associates, Missoula, Montana
- Institute of Applied Sciences, North Texas State University, Denton, TX
- Lone Mountain Archaeological Services, Inc., Albuquerque, NM
- Mesa Field Services, Carlsbad, NM
- Museum of Anthropology, University of Michigan, Ann Arbor, Mich.
- Museum of the Great Plains, Lawton, OK
- Navajo Nation Cultural Resource Management Program, AZ
- Office of Archaeological Studies, State of New Mexico, Santa Fe, NM
- Office of Contract Archeology, University of New Mexico, Albuquerque, NM
- Ohkay Owingeh (formerly San Juan Pueblo), NM
- Oklahoma Conservation Commission, Oklahoma City, OK
- Parametrix, Albuquerque, NM
- Parsons Brinckerhoff, Albuquerque, NM
- Paul Price Associates, Inc., Austin, TX
- Pueblo of Zuni, NM
- Research Institute, University of Oklahoma, Norman, OK
- Ron Winters, Archaeologist, Santa Fe, NM
- Southwest Archaeological Consultants, Inc., Santa Fe, NM

- SWCA Environmental Consultants, Inc., Albuquerque, NM
- Taschek Environmental Consultants, Albuquerque, NM
- Texas Archaeological Research Laboratory, University of Texas at Austin, Austin, TX
- TRC-Mariah, Austin, TX
- University of Alabama Museums, Office of Archaeological Services, Moundville, AL
- University of Texas at El Paso, TX
- University of Tulsa, Archaeological Research Laboratory, Tulsa, OK
- University of Wisconsin, Madison, Wisconsin
- USDA Forest Service, Rocky Mountain Research Station, Albuquerque, NM
- Western Cultural Resource Management Inc., Farmington, NM
- Zuni Archaeological Program, and Cultural Resource Enterprise, Pueblo of Zuni (NM)

#### **UNPUBLISHED CONSULTING REPORTS**

- 2009 "Geology and optical dating of sediments associated with archaeological sites near Custer Mountain, southeastern New Mexico." SWCA Environmental Consultants, Albuquerque, NM, 29 p.
- 2009 "Late Quaternary geology and associated archeological sites, western Mescalero Plain, Eddy County, New Mexico." Office of Archaeological Studies, Department of Cultural Affairs, State of New Mexico, Santa Fe, NM, 82 p.
- 2009 "Geomorphology of LA 51225, White Sands Missile Range, Doña Ana County, New Mexico." Revised final report, Ecological Communications Corporation, Austin, Texas, 13 p.
- 2008 "Geology of the Bishop's garden ditch, East Palace Avenue, Santa Fe, New Mexico." Ron Winters, Archaeologist, Santa Fe, NM, 16 p.
- 2008 "Geomorphologic notes on the Old Coe Lake-Madera Quemada Pueblo area, Fort Bliss, New Mexico." Geo-Marine, Inc., El Paso, Texas, 6 p.
- 2008 "Geomorphology of Three Sites along US Highway 64, Rio Arriba Co., New Mexico." Four Corners Research, Inc., Tularosa, NM, 14 p.
- 2008 "Geomorphic context of archaeological sites along US Highway 62/180 corridor, Carlsbad, New Mexico, to Texas." Final report, Parametrix, Albuquerque, NM, 26 p.
- 2008 "Archaeological geology along Unser Boulevard, Rio Rancho, Sandoval Co., NM." Revised report, Criterion Environmental Consulting, Albuquerque, NM, 9 p.
- 2007 "Sedimentation history of the Rio de Truchas and its implications to late prehistoric archaeology and land use." Ohkay Owingeh, NM, 24 p.
- 2007 "Geochronology of Quaternary stratigraphy and geomorphic features, Fort Bliss, Texas-New Mexico," & "Paleoenvironments: Methods and results in arid southern New Mexico." contribution to Fort Bliss Significant Standards, Geo-Marine, Inc., El Paso, TX, 44 p.
- 2007 "Eolian cover sand and geoarchaeology of the Pierce Canyon area, Eddy Co., New Mexico." Revised final report, Ecosystem Management, Inc., Albuquerque, NM, 41 p.
- 2006 "Geo-archaeology of the Rio Grande floodplain, Los Ranchos de Albuquerque, Bernalillo Co., NM." Taschek Environmental Consulting, Albuquerque, NM, 16 p.
- 2006 "Geomorphology and archaeological geology of Abo Canyon, central New Mexico; draft report." Taschek Environmental Consultants, Inc., Albuquerque, NM, 16 p.
- 2006 "Letter report on the archaeological geology of Abo Canyon, NM," Taschek Environmental Consultants, Inc., Albuquerque, NM, 2 p.

- 2006 "Geoarchaeology of the National Enrichment Facility, Lea Co., New Mexico; preliminary report." Western Cultural Resource Management, Inc., Farmington, NM, 19 p.
- 2006 "Geomorphic context of archaeological sites along US Highway 62/180 corridor, Carlsbad, NM to Texas; preliminary report." Taschek Environmental Consultants, Inc., Albuquerque, NM, 13 p.
- 2006 "Stratigraphy and geochronology of El Arenal Site: Implications to regional archaeological geology and geomorphic history." Geo-Marine, Inc., El Paso, Texas, 17 p.
- 2006 "Geomorphology and archaeological geology along Paseo del Volcan corridor, Rio Rancho, Sandoval Co., NM." Parsons Brinckerhoff, Albuquerque, NM, 47 p.
- 2006 "Geomorphic note on Caballero North." Taschek Environmental Consultants, Inc., Albuquerque, NM, 2 p.
- 2005 "Geoarchaeologic map of southeastern New Mexico." Office of Contract Archaeology, UNM, Albuquerque, NM, 19 p., 1pl.
- 2005 "Geomorphology and geoarchaeology of 41TR170, Clear Fork Trinity River, Tarrant Co., Texas." Geo-Marine Inc., Plano, Texas, 24 p.
- 2005 "Geomorphology and geoarchaeology of the Vermejo River area, Colfax Co., New Mexico." Southwest Archaeological Consultants, Santa Fe, NM, 17 p.
- 2004 "Fluvial and riparian environments of the Middle Rio Puerco, New Mexico: A review of Holocene sedimentation history." USDA Forest Service, Rocky Mountains Research Station, Albuquerque, NM, 10 p.
- 2004 "Geomorphology and geoarchaeology of the Mariposa Ranch area, Sandoval Co., New Mexico." SWCA Environmental Consultants, Inc., Albuquerque, NM, 26 p.
- 2004 "Geoarchaeology at the Cedar Breaks, southeast of Loco Hills, Eddy Co., New Mexico." SWCA Environmental Consultants, Inc., Albuquerque, NM, 6 p.
- 2004 "Geomorphology of Site LA 138517 and adjacent area, near Loco Hills, NM." Mesa Field Services, 5 p.
- 2003 "Geomorphological analysis of archaeological sites along Highway N-4, Navajo Indian Reservation [Arizona]." Zuni Cultural Resource Enterprise, Zuni Pueblo, New Mexico, 11 p.
- 2002 "Geomorphology of archaeological sites at East Lake, El Paso Co., Texas: Phase I." Univ. of Texas at El Paso & JAPA, El Paso, 7 p.
- 2000 "Geoarchaeology of Wild Horse Draw, Culberson Co., Texas." Archaeological Research, Inc., El Paso, Texas, 8 p.
- 2000 "Geomorphology of irrigation ditches in Unit Y Draw valley, Zuni Indian Reservation." Cultural Resource Enterprise, Pueblo of Zuni, 4 p.
- 2000 "Geomorphology of prehistoric irrigation ditches on the Zuni River floodplain." Cultural Resource Enterprise, Pueblo of Zuni, 3 p.
- 1999 "A unique archaeological and geomorphic record from north-central New Mexico: Implications to cultural resource management." USDA, Forest Service, Rocky Mountain Research Station, 21 p. (with Richard Periman)
- 1998 "Critique of 'Geomorphology of Red Zones' by LMAS geomorphologist." Lone Mountain Archaeological Services, Inc., Albuquerque, 2 p.

- 1997 "Paleoecology of Otero Mesa, New Mexico: Assessment and potential," Anthropology Research Center, University of Texas at El Paso, 10 p.
- 1997 "Mission Trail: Geomorphic history of the Rio Grande floodplain at Ysleta, Texas," Anthropology Research Center, University of Texas at El Paso, 8 p.
- 1996 "Geomorphology of the Saige-McFarland Site, southwestern New Mexico," Archaeological Research, Inc., El Paso, Texas, 6 p.
- 1996 "Paleontological assessment of S.H. 550/S.H. 160 corridor, southwestern Colorado," Farmington, NM, Cultural Resources Management Consultants, 15 p.
- 1995 "Paleohydrology of the Hueco Bolson: A Model for Predicting Late Prehistoric Human Population," Archaeological Research, Inc., El Paso, Texas, 18 p.
- 1994 "Stratigraphic and geomorphic development of the Rio Grande floodplain, Lower El Paso Valley," Archaeological Research, Inc., El Paso, Texas, 26 p.
- 1993 "Geomorphic notes on the Spring River, northeastern Oklahoma," Laboratory of Archaeology, Univ. of Tulsa, Tulsa, Okla., 4 p.
- 1992 "Pollen analysis of reconnaissance core samples from Carson County, Texas," Bureau of Economic Geology, Austin, Texas, 5 p.
- 1992 "Geomorphology of Campbell Creek, Oklahoma County, Oklahoma," Laboratory of Archaeology, Univ. of Tulsa, Tulsa, Okla., 5 p.
- 1991 "Geoarchaeology and geomorphology of the lower Rio Grande valley of El Paso County, Texas; Prospectus," Archaeological Research, Inc., and Hicks & Company, Austin, Texas, 5 p.
- 1990 "Prehistoric landscape evaluation at Palo Duro Creek; A prospectus," Archaeological Research, Inc., Austin, 6 p.
- 1990 "Palynology of the Aubrey Clovis site, Denton County, Texas; An interim report," Institute of Applied Sciences, Univ. of North Texas, 4 p.
- 1989 "Palynology of late Holocene sediments in the Hueco Bolson, Texas," Dept. of Anthropology, Univ. of Tulsa, 8 p.
- 1984 "Pollen analysis of the Rocky Arroyo site," Museum of New Mexico, Santa Fe, 5 p.
- 1983 "Palynology of the Middle Pleistocene Alamosa local fauna, southern Colorado," Adams State College, Alamosa, Colo., 14 p.
- 1980 "Pollen content of Canyon Lakes 6 core," The Museum, Texas Tech Univ., Lubbock, 6 p.
- 1980 "Snail studies in southeastern Oklahoma," Archaeological Research and Management Center, Univ. of Oklahoma, Norman, 5 p.
- 1978 "Geology of archeologic sites near Athens, Texas," North Texas Archaeology Laboratory, Denton, 14 p.
- 1977 "Geology of archeological sites at Placitas Arroyo, Dona Ana County, New Mexico," Institute of Applied Sci., North Texas State Univ., Denton, 15 p.
- 1975 "Processing arid land sediments for pollen analysis," Institute of Archaeology, Hebrew University, Jerusalem, 4 p.

- 1975 "Pollen analysis of archeologic sites at Los Esteros Reservoir, New Mexico," Archaeological Research Program, Southern Methodist Univ., Dallas, 4 p.
- 1974 "Pollen assemblage from southeastern Michigan," Dept. of Geology and Mineralogy, Univ. of Michigan, Ann Arbor, 2 p.
- 1974 "Collecting and storing sediment samples from archeologic sites for pollen analysis," Chaco Center, Natl. Park Service, Albuquerque, 5 p.
- 1974 "Pollen inventory of organic zone at 160-foot depth, northern Michigan," Dept. of Geology and Mineralogy, Univ. of Michigan, Ann Arbor, 3 p.
- 1974 "Exploratory pollen analysis of archeologic sites from Oklahoma," Oklahoma Archeological Survey, Norman, 5 p.
- 1973 "Plant and invertebrate fossils from the late Wisconsinan Professional Club deposit in northwestern Michigan," Michigan Geological Survey, East Lansing, 4 p.
- 1973 "Pollen inventory of two horizons at the Ruby-I site near Sapello, New Mexico," Dept. of Anthropology, Smithsonian Institution, Washington, D.C., 3 p.

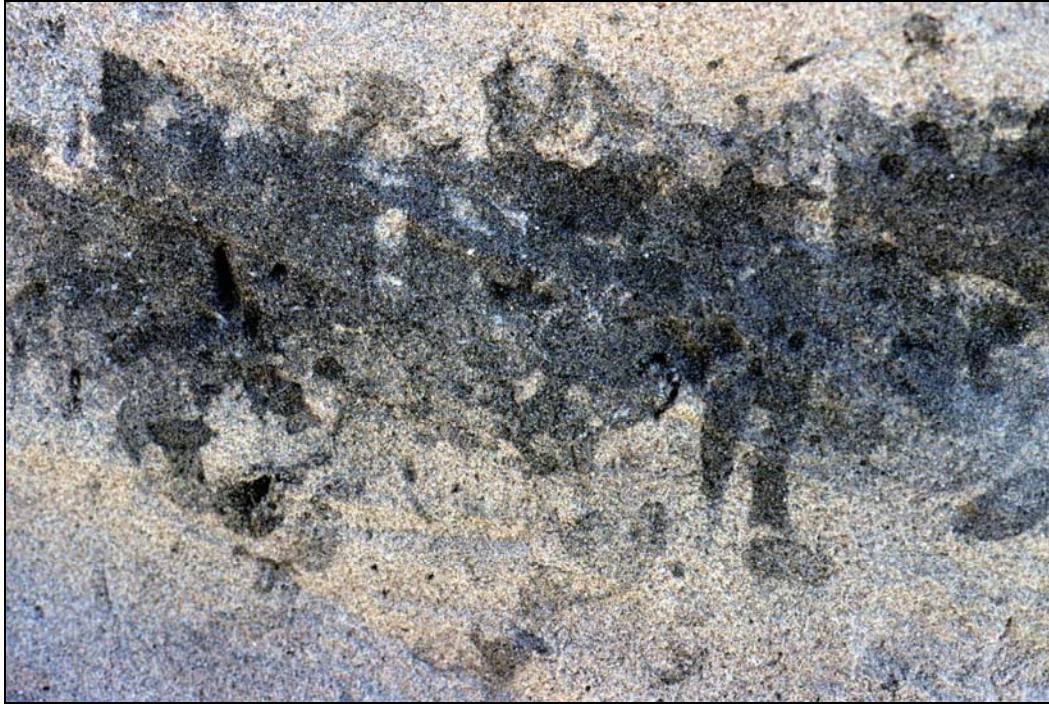
#### **PUBLISHED CONSULTING REPORTS**

- 2009 Archaeological geology, in Murrell, J. B., *Archaeological Investigations at Nine Mile Hill Site, City of Albuquerque, New Mexico*: Parametrix, Albuquerque, NM, p. 133-143.
- 2009 Archaeological geology, in Murrell, J. B., *Archaeological investigations at the Cerro de Los Lunas Site, Valencia County, New Mexico*: Parametric, Albuquerque, NM, p. 203-209.
- 2008 Archaeological Testing at 41TR170, Along the Clear Fork of the Trinity River, Tarrant County, Texas. Miscellaneous Reports of Investigations no 348, Geo-Marine, Inc., Plano. 155 pp + 93 pp appendices (248 pp. total). (Lintz, Christopher, Stephen A. Hall, Timothy G. Baugh and Tiffany Osburn)
- 2007 Notes on geomorphology and geoarchaeology on El Segundo Mine, in Scheick C. L., and Deyloff, G., eds., *Archaeological and ethnohistorical landscapes of El Segundo Mine: Continued investigations into land patterning, McKinley County, New Mexico*; Vol. 1, *Archaeology*: Southwest Archaeological Consultants, Santa Fe, NM, p. 857-858.
- 2007 Stratigraphy and geochronology of the El Arenal Site: Implications to regional archaeological geology and geomorphic history, in Miller, M. R., *Excavations at El Arenal and other Late Archaic and Early Formative period sites in the Hueco Mountain Project area of Fort Bliss, Texas*: Directorate of Environment, Fort Bliss Garrison Command, Historic and Natural Resources Report No. 02-12, p. 9-1 to 9-14
- 2006 Geoarchaeologic map of southeastern New Mexico, in Hogan, P., *Southeastern New Mexico Regional Research Design and Cultural Resource Management Strategy*: Office of Contract Archeology, University of New Mexico, Albuquerque, p. 2-4 to 2-21.  
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- 2005 *Adaptive Management and Planning Models for Cultural Resources in Oil and Gas Fields in New Mexico and Wyoming*: Ingbar, E., and others, Dept. of Energy Award Number DE-FC26-02NT15445, Final Technical Report, 538 p. [PUMP III project, Loco Hills, Azotea Mesa, and Otero Mesa areas, southeastern NM] (E. Ingbar, L. Sebastian, J. Altschul, M. Hopkins, W. Eckerle, P. Robinson, J. Finley, S. A. Hall, W. E. Hayden, C. M. Rohe, T. Seaman, S. Taddie, S. Thompson)  
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- 2002 *Field Guide to the Geoarchaeology of the Mescalero Sands, southeastern New Mexico*: Bureau of Land Management, Santa Fe, and Historic Preservation Division, Santa Fe, 55 p., 6 pl.  
[http://www.blm.gov/pgdata/etc/medialib/blm/nm/programs/more/cultural\\_resources/cultural\\_docs.Par.31735.File.dat/FieldGuide.pdf](http://www.blm.gov/pgdata/etc/medialib/blm/nm/programs/more/cultural_resources/cultural_docs.Par.31735.File.dat/FieldGuide.pdf)
- 2002 *Guidebook, First Geoarchaeology Field Course, Southeastern New Mexico*: Bureau of Land Management, Santa Fe, and Historic Preservation Division, Santa Fe, 23 p.  
[http://www.blm.gov/pgdata/etc/medialib/blm/nm/programs/more/cultural\\_resources/cultural\\_docs.Par.74070.File.dat/Guidebook.pdf](http://www.blm.gov/pgdata/etc/medialib/blm/nm/programs/more/cultural_resources/cultural_docs.Par.74070.File.dat/Guidebook.pdf)
- 2001 Pollen analysis of late-glacial pond and spring deposits, Aubrey Clovis Site, Denton Co., Texas, in C. R. Ferring, ed., *The Archaeology and Paleoecology of the Aubrey Clovis Site (41DN479), Denton County, Texas*: U.S. Army Corps of Engineers, Fort Worth District, and Univ. of North Texas, Denton, p. 79-88
- 2001 Archaeological investigations at Site LA 48695, in *Households and Farms in Early Zuni Prehistory: Settlement, Subsistence, and the Archaeology of Y Unit Draw, Archaeological Investigations at Eighteen Sites Along New Mexico State Highway 602*. Part 1: Zuni Cultural Resource Enterprise Report No. 593, Research Series No. 11, Zuni Pueblo, p. 325-375. (J. Damp, S. Hall, J. Waseta, J. Zunie)
- 1999 Late Quaternary paleoenvironments at Fort Bliss, in Schroeder, E. A., Seymour, D. J., and Teigrob, R., eds., National Register Evaluations of 78 Prehistoric Archaeological Sites in Maneuver Area 2B, Fort Bliss, Texas. *Historic and Natural Resources Report No. 97-14*, Directorate of Environment, U.S. Army Air Defense Artillery Center, Fort Bliss, Texas, p. 19-26.
- 1999 Geomorphology and geoarchaeology of Maneuver Area 2B, Fort Bliss, Texas, in Schroeder, E. A., Seymour, D. J., and Teigrob, R., eds., National Register Evaluations of 78 Prehistoric Archaeological Sites in Maneuver Area 2B, Fort Bliss, Texas. *Historic and Natural Resources Report No. 97-14*, Directorate of Environment, U.S. Army Air Defense Artillery Center, Fort Bliss, Texas, p. 43-51.
- 1994 Report of the Excavations of the Sites of Tor Faraj and Wadi Aghar: University of Tulsa South Jordan Project, 1993 Season: *Annual, Department of Antiquities of Jordan, 1994*, 16 p. (D. O. Henry, Yuri Demidenko, Vitaly Usik, H. Hietala, S. A. Hall, G. Walwer)
- 1993 Geomorphology of the Pajarito Plateau, related to the archaeology of the Bason Land Exchange area, Los Alamos County, New Mexico, in Peterson, J. A., and Nightengale, C. B., eds., *La Cuchilla de Piedra: The Cultural Resources of the Bason Land Exchange*: Archaeological Research Inc., Austin, Texas, p.18-23.
- 1992 Surficial geology of the Lower Valley, in Peterson, J. A., and Brown, D. O., eds., *El Valle Bajo: The Culture History of the Lower Rio Grande Valley of El Paso*, Vol. 1, The Prehistory of the Lower Valley of El Paso: Archaeological Research Inc., El Paso, and Hicks & Co., Austin, p. 10-32.
- 1992 Late Quaternary paleoenvironments of the northern Chihuahuan Desert: A critique, in Peterson, J. A., and Brown, D. O., eds., *El Valle Bajo: The Culture History of the Lower Rio Grande Valley of El Paso*, Vol. 1, The Prehistory of the Lower Valley of El Paso: Archaeological Research Inc., El Paso, and Hicks & Co., Austin, p. 33-41.
- 1989 *Excavations at 41BP19; The Kennedy Bluffs site, Bastrop County, Texas*: Texas State Department of Highways and Public Transportation, Contract Reports in Archaeology, Report No. 5, 180 p. (L. C. Bement, W. Bartholomew, G. T. Goode, S. A. Hall, and D. G. Robinson)

- 1988 "Rebuttal Report: Erosion of Zuni Indian Reservation Lands," expert testimony submitted to the United States Claims Court in the case Zuni Indian Tribe v. United States; 47 p.
- 1985 "Erosion of Zuni Indian Reservation Lands," expert testimony submitted to the United States Claims Court as evidence in the case Zuni Indian Tribe v. United States; 54 p.
- 1984 Pollen analysis of the Garnsey Bison Kill Site, southeastern New Mexico, in Parry, W. J., and Speth, J. D., *The Garnsey Spring Campsite: Late Prehistoric Occupation in Southeastern New Mexico*: Univ. Michigan Museum of Anthropology Technical Reports 15, p. 85-108.
- 1983 Geology of archaeological sites and associated sand dunes on Block III of the NIIP, in Vogler, L. E. (ed.), *Human Adaptation and Cultural Change: The Archaeology of Block III, N.I.I.P.*: Navajo Nation Cultural Resource Management Program, Navajo Nation Papers in Anthropology, no. 15, p. 1591-1614; Appendix II, Sediment Sample Descriptions, p. 1927-1932.
- 1983 Geology of Holocene sediments and buried trees of Carnegie Canyon, p. 15-46, in Lintz, C., and Hall, S. A., *The Geomorphology and Archaeology of Carnegie Canyon, Fort Cobb Laterals Watershed, Caddo County, Oklahoma*: Oklahoma Conservation Commission, Oklahoma City, Archaeological Research Report, No. 10, 221 p.
- 1983 *The Geomorphology and Archaeology of Carnegie Canyon, Fort Cobb Laterals Watershed, Caddo County, Oklahoma*: Oklahoma Conservation Commission, Oklahoma City, Archaeological Research Report, No. 10, 221 p. (C. Lintz and S. A. Hall)
- 1982 Geology of Delaware Canyon, in Ferring, C. R., (ed.), *The Late Holocene Prehistory of Delaware Canyon, Oklahoma*: Contributions in Archaeology No. 1, Institute of Applied Sciences, North Texas State University, Denton, p. 47-63
- 1982 Additional pollen studies from Hominy Creek, Osage County, Oklahoma, in Henry, D. O. (ed.), *The Prehistory and Paleoenvironment of Hominy Creek Valley, 1979 Field Season*: Contrib. in Archaeology, Lab. of Archaeology, Univ. of Tulsa, p. 107-113.
- 1982 Pollen studies at Granger Reservoir, p. 5-18, in: Hays, T. R. (ed.), *Archaeological Investigations at the San Gabriel Reservoir District, Central Texas*: Institute of Applied Sciences, North Texas State University, Denton, 3 Volumes.
- 1980 Paleoenvironmental synthesis of Hominy Creek Valley: Pollen and land snail evidence, p. 44-55, in Henry, D. O., *The Prehistory and Paleoenvironment of Hominy Creek Valley, 1978 Field Season*: Contributions in Archaeology No. 6, Laboratory of Archaeology, University of Tulsa, 69 p.; Appendix I, Sediment descriptions from Site 34OS160, p. 65.
- 1980 Pollen studies of the archaeological sites, p. 126-130, in Henry, D., F. Kirby, A. Justen, and T. Hays (eds.), *The Prehistory of Hog Creek: An Archaeological Investigation of Bosque and Coryell Counties, Texas*: Lab. of Archaeology, Univ. of Tulsa, 544 p.
- 1978 Geology of archaeological sites at Fort Sill, Oklahoma, p. 57-70, in Ferring, C. R., *An Archaeological Reconnaissance of Fort Sill, Oklahoma*: Lawton, Oklahoma, Contributions of the Museum of the Great Plains, no. 6, 417 p.
- 1978 Snails from archaeological sites in Hominy Creek Valley, p. 79-85, in Henry, D. O., *The Prehistory and Paleoenvironment of Hominy Creek Valley: 1977 Field Season*: Contributions in Archaeology No. 4, Laboratory of Archaeology, Univ. of Tulsa, 102 p.
- 1977 Geology and palynology of archaeological sites and associated sediments, p. 13-41, in Henry, D. O., *The Prehistory of the Little Caney River, 1976 Field Season*: Contributions in Archaeology No. 1, Laboratory of Archaeology, University of Tulsa, 141 p.

- 1977 Holocene geology and paleoenvironmental history of the Hominy Creek Valley, p. 12-42, in Henry, D. O., *The Prehistory and Paleoenvironment of Hominy Creek Valley*: Contributions in Archaeology No. 2, Laboratory of Archaeology, University of Tulsa, 206 p.
- 1977 Geological and paleoenvironmental studies, p. 11-31, in Henry, D. O., *The Prehistory of Birch Creek Valley*: Contributions in Archaeology No. 3, Laboratory of Archaeology, University of Tulsa, 134 p.
- 1977 Geomorphology of archaeological sites in the Waurika Reservoir, Oklahoma, p. 325-341, in Stevens, D. E., and Hays, T. R., *Archaeological Mitigation at the Waurika Lake Reservoir, Southwestern Oklahoma*: Archaeology Program, Institute of Applied Sciences, North Texas State University, Denton, 388 p.



Cicada insect burrow fills, thin charcoal zone associated with a hearth, Rio del Oso alluvium, radiocarbon dated  $3110 \pm 60$   $^{14}\text{C}$  years BP (S. A. Hall and R. D. Periman, 2007, Unusual Holocene alluvial record from Rio del Oso, Jemez Mountains, New Mexico: Paleoclimatic and archaeological significance: *New Mexico Geological Society Guidebook, 58<sup>th</sup> Field Conference, Geology of the Jemez Mountains Region II*, p. 459-468).

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