microcrystalline silicates directly from extensive Dove Springs Formation geologic exposures begins around the Gypsum Period, reaches a greater degree in the Rose Spring Period, and continues in specific locations, such as CA-KER-1079, into Late Prehistoric times. Quarrying at CA-KER-376 may date as early as the Pinto Period. Typically, an encampment occurs in association with the latter chert and chalcedony quarries on flat, sandy terrain immediately downslope, or otherwise adjacent to the geologic source. At these locations, heat treatment and additional reduction of quarry specimens to bifacial blanks took place, with the majority of material evidence representing early stages of lithic reduction. Lithic raw material was being transported out to the larger region as indicated by the sizable volume of quarrying and near-exclusive evidence within these sites for early stages of lithic reduction into bifacial blanks. The movement of microcrystalline silicates to other areas can be potentially followed with trace element analyses.

The archaeological evidence from Red Rock Canyon SP fits well with a lithic use pattern identified as a "direct procurement strategy" (cf. Giambastiani 2008), where prehistoric people visited locations specifically to acquire toolstone. Families participated together in the pursuit of toolmaking materials, while also harvesting and processing the abundant food plants available in the stabilized dunes, as evidenced by the presence of groundstone implements. Plants commonly seen here, such as Joshua tree, chia, Indian rice grass, Mormon tea, creosote bush, species of cacti, and others, represented important potential sources of food. Rabbits and hares, staples in prehistoric diets of this region, are commonplace in the stabilized dunes of Red Rock Canyon SP. These dune locations represent habitat for desert tortoise, another potential prehistoric food.

The striking geologic features and colorful hillsides within Red Rock Canyon SP have been a source of human inspiration for many millennia and continue to be today. These thought-provoking landscapes hold an important position in Kawaiisu spiritual life, given its role in mythology, the presence of rock art at various locations, the testimony of local Native American elders (in 2003 and 2005) that reburials and ceremonies continue to be conducted in the park today, and the designation of the El Paso Mountains as a Sacred Site. The Kawaiisu called Red Rock Canyon "the canyon with rocks on fire," according to the late Kawaiisu Elder Andy Greene (Faull 2000:261). Maurice Zigmond (1986) provided a 20th-century account from Kawaiisu informants that a mythical creature is embodied in a landform within the park (see Figure 4). The thoughtful positioning for maximum "effect" and distinctive patterning of the rock art elements found in the park strongly reflect a significant purpose and importance to these sites. The continued use of lands within the park for traditional cultural practices by the local Native American community sustains and reinforces the age-old knowledge manifested in the rock art and other cultural landscapes here.

Archaeological investigations of the 1890s and 20th-century mines in Iron Canyon, Bonanza Gulch, Santa Monica Gulch, and Last Chance Canyon have recorded the physical evidence of dry placer mining, a mining technology not well documented in 19th-century technical literature or in previous research. The 1890s mining features in Iron Canyon, including adits (horizontally trending), shafts (vertical excavations), tunnels (adits connected together), and prospects, are located high on slopes in narrow, steep-sided side canyons. The contact zone between the overlying fanglomerates and the granophyre bedrock was sought out within these mines, as the placer gold apparently settled out there. The height and width of the 1890s mining features are relatively small, as if to excavate just enough to permit a

person room to manipulate hand tools inside. Such an excavation strategy would minimize the amount of excavation to reach the contact zone. The 1890s era mining in Iron Canyon and Last Chance Canyon is characterized as subsistence mining by miners working alone or in small groups. For example, the unsystematic nature of the lay-out of tent pads and artifact disposal patterns at sites like Bonanza Gulch Mining Camp, reflect short-term occupation by individuals.

The 20th-century gold mining in Iron Canyon differs by targeting alluvial terraces and by the evidence of heavy equipment use. Mechanical equipment was also employed in the 20th-century mines of Last Chance Canyon. Artifacts, where present, provide additional clues to the relative age of mines with the park. The gold mining in the 20th century found within the park was performed by individuals or families.

Dry placer mining was a serviceable method for the mines of Red Rock Canyon SP in the 1890s and early decades of the 20th century. As Donald Hardesty (1991:3) points out "coping with aridity" is a "core feature" of historic cultures in the American West. In our project area, those who in historic times exploited the land for its mineral content found a practical means of coping in this dry and remote corner of Southern California, with the effective employment of dry placer mining. For some hopeful miners, it was a "last chance" to make a strike on the rapidly closing western frontier and for others presented an opportunity during hard economic times, as in the Great Depression of the 1930s. Red Rock Canyon SP is unique worldwide in preserving and interpreting dry placer mines. The cultural landscape of mines and residential sites in Iron Canyon and its tributaries and Last Chance Canyon represent an extraordinarily significant historical resource which should be protected and interpreted to the public. The unique mining landscapes in the park are certainly eligible for nomination to the National Register of Historic Places and the California Register.

The National Park Service provides standards for defining and managing cultural landscapes. A 1991 NPS report makes the following statement on appropriate modern-day uses of a cultural landscape:

> Contemporary use of a cultural landscape is allowable (1) if it does not adversely affect significant landscape features, and (2) if it either follows the historic use or does not impede public appreciation of it. [National Park Service 1991:94]

The many unique and culturally significant historical dry placer mining sites in Iron Canyon and its tributaries (Bonanza Gulch, Santa Monica Gulch, and others), recorded between 1989 and 1993, and Last Chance Canyon between 1994 and 2006, form unique cultural landscapes. Such cultural landscapes are being preserved in a park setting in few other locations worldwide. The vast geological resources of the park, including prehistoric stone tool quarries, mines of gold, pumice, and clay, manifest the scars and remnant debris from past human exploitation throughout many millennia. The quarries, lithic prospects, and mining locations form broad and regionally important landscapes in themselves within the park. California State Parks is managing the lands of Red Rock Canyon SP carefully and with sensitivity to its extraordinary resource and scenic values. Park policies must continue in the future to reflect the uniqueness and significance of the various cultural landscapes and archaeological sites. They represent pages in human history that have unfolded on the El Paso Mountains in general, and on the lands comprising Red Rock Canyon SP specifically.

By the middle of the 20th century, industrial scale mining occurred in Red Rock Canyon SP. This level of operation, with a conspicuous archaeological signature, was observed at Holly Ash mines (CA-KER-5954/H), the Old Dutch Cleanser Mine and its attendant support features such as Cudahy Camp (CA-KER-6235/H), and the many locations of bentonite clay mining. The pumice mining that took place in the park held broad significance as it served a national need for house cleaning products and other domestic uses. The industrial mining in the park is confined to pumice and Bentonite clays, while, gold and semi-precious rocks were exploited by individuals.

Besides the human exploitation of this land's mineral content through time, geological circumstances have made the present-day park the focus of human transportation, human inspiration, and a backdrop for re-creating the "wild west." The natural passage though the El Paso Mountains, with sources of water in the form of springs, located within the present-day park has served mankind throughout the area's human history. The presence of reliable water within the present-day park, such as at Sodium Spring in Red Rock Wash, in Last Chance Canyon, Scenic Canyon, and other locations, cannot be overstated as critical to human use of these arid lands. The evidence of trade in prehistoric sites, the historic stage and freighting stops, tourist destinations of the 20th and 21st centuries, and a short-lived railroad provides testimony to the importance of these lands for the movement of goods and people over time. The film industry has used the park as a backdrop since the 1920s, creating an iconic image of the "wild west" that we know as Red Rock Canyon SP today. The park remains a landscape that can inspire and rejuvenate humankind, and "…where aesthetic elements have currently prevailed over resource exploitation…" (Faull 2000:263).

The significance of Red Rock Canyon SP to the region and beyond is becoming evident. The California State Parks archaeological investigations of the past 20 years have revealed complex interactions effected by humans on the landscapes within Red Rock Canyon SP. The Park contains a variety of cultural remains that include prehistoric occupation areas, chert quarries, lithic prospects, and rock art, as well as historic mining locations—individualistic subsistence mining and industrial mining, historic work camps, failed oil prospects, historic cabin sites, movie production locations, sites associated with the construction of the Owens Valley to Los Angeles Aqueduct, transportation facilities, recreational locations, and other evidence of human endeavors. The archaeological discoveries of the park illuminate key elements of prehistory and history in the El Paso Mountains and to broader cultural events throughout the region.

REFERENCES

Allen, Mark W.

2010 *Three Archaeological Landscapes of the Mojave B Range, Naval Air Weapons Station, China Lake: Pilot Knob, Indian Spring, and North Eagle Crags*. Pacific Coast Archaeological Society Quarterly 43(1&2):26-41.

Altschul, Jeffrey H., Carla R. Van West, and Patrice A. Teltser

1998 A Paleoclimatic-Archaeological Model of Prehistoric Settlement in the Mojave Desert. In *Springs and Lakes in a Desert Landscape: Archaeological and Paleoenvironmental Investigations in the Silurian Valley and Adjacent Areas of Southeastern California*, edited by Brian F. Byrd, pp. 79-136. Report on file, US Army Corps of Engineers, Los Angeles.

Archer, Fred

1925 Southern California's Petrified Forest. *Touring Topics*, January.

Basgall, Mark E. and M. C. Hall

1994 Perspectives on the Early Holocene Archaeological Record of the Mojave Desert. In *Kelso Conference Papers, 1987-1992*, edited by G. Dicken Everson and Joan Schneider, pp. 63-81. Occasional Papers in Anthropology No. 4, Museum of Anthropology, California State University, Bakersfield.

Bettinger, R. L. and M. A. Baumhoff

1982 Numic Spread: Great Basin Cultures in Competition. *American Antiquity* 47:485-503.

Bettinger, Robert L., and Robert E. Taylor

1974 *Suggested Revisions in Archaeological Sequences of the Great Basin and Interior Southern California*. Nevada Archaeological Survey Research Paper 5:1-26.

Boxt, Matthew A., L. Mark Raab, Owen K. Davis, and Kevin O. Pope

1999 *Extreme Late Holocene Climate Change in Coastal Southern California*. Pacific Coast Archaeological Society Quarterly 35(2&3):25-37.

Byrd, Brian F., D. Craig Young, and Kelly R. McGuire

2009 Pavement Quarries, Gypsum Period Residential Stability, and Trans-Holocene Settlement Systems of the Mojave Desert: A Case Study at Fort Irwin. *Journal of California and Great Basin Anthropology* 29:121-143.

Crespin, Bruce M.

1999 Sacred Rocks: Not for Public Consumption. *Proceedings of the Society for California Archaeology* 12:199-211.

D'Azevedo, Warren L.

1986 Introduction. In *Great Basin,* Handbook of North American Indians, Volume 11, edited by Warren L. D'Azevedo, pp. 1-14. Smithsonian Institution Press, Washington, D.C.

Delacorte, Michael G.

2008 Desert Side-Notched Points as a Numic Population Marker in the Great Basin. In *Avocados to Millingstones: Papers in Honor of D. L. True*, edited by Georgie Waugh and Mark E. Basgall, pp. 111-136. Monographs in California and Great Basin Anthropology, Number 5.

Dibblee, T. W. and T.E. Gay, Jr.

1952 Mineral Deposits of the Saltdale Quadrangle, California. California Division of Mines, Bulletin No. 160. San Francisco.

Faull, Mark R.

1990 Cultural Resource Management at a Natural History Park: Red Rock Canyon State Park, Kern County, California. In *Death Valley to Deadwood; Kennecott to Cripple Creek, Proceedings of the 1989 Historic Mining Conference, Death Valley National Monument*, edited by Leo R. Barker and Ann E. Huston, pp. 129-136.

1991 The Red Rock Railroad: The History and Remnants of a Short-Lived Early Twentieth Century Supply Spur. Paper presented at the Annual Meeting of the Society for California Archaeology, Sacramento.

2000 Recognition of Cultural Significance at Red Rock Canyon, Kern County, California. *Proceedings of the Society for California Archaeology* 13:259-265.

2003 *A Historical Overview of Red Rock Canyon State Park: with Special Emphasis on the 1994 Last Chance Canyon Addition*. Report on file, California State Parks, San Diego.

2004 Cinema Red Rock: Contributions to the Myth of the American West by the Iconic Imagery of Red Rock Canyon State Park. In *The Human Journey and Ancient Life in California's Deserts, Proceedings from the 2001 Millennium Conference,* edited by Mark W. Allen and Judyth Reed, pp. 299-306. Maturango Museum Publication, Number 15.

Faull, Mark R. *continued*

2008 Black Mountain: Eastern Kern County's Forgotten Archaeological Paradigm. Paper presented at the Annual Meeting of the Society for California Archaeology, Burbank.

Fairbanks, Harold W.

1894 Red Rock, Goler, and Summit Mining Districts, in Kern County. *Twelfth Report of the State Mineralogist*, California State Mining Bureau, Sacramento.

Flenniken, J. Jeffrey

2000 Infield, Onsite, Technological Analyses of Flaked Stone Artifacts on the Surface of Seven Sites, Red Rock Canyon State Park, Kern County, California. *Lithic Analysts Research Report* 71. Report on file, California Department of Parks and Recreation, San Diego.

Fowler, Catherine S.

1986 Subsistence. In *Great Basin,* Handbook of North American Indians, Volume 11, edited by Warren L. D'Azevedo, pp. 64-97. Smithsonian Institution Press, Washington, D.C.

Gardner, Jill K.

1998 *Testing a Regional Model of Changing Settlement and Subsistence Patterns in the Western Mojave Desert: Results From the Coffee Break Site*. M.A. Thesis, Department of Anthropology/Sociology, California State University, Bakersfield.

Garfinkel, Alan P

2006 *Obsidian Studies in Sand Canyon and the Tehachapi Mountains of Eastern California: Implications for the Timing of Numic Population Movements*. IAOS Bulletin Number 34:3-10. International Association of Obsidian Studies.

Giambastiani, Mark A.

2008 Understanding Pavement Quarries in the Mojave Desert. In *Avocados to Millingstones: Papers in Honor of D. L. True*, edited by Georgie Waugh and Mark E. Basgall, pp. 67-90. Monographs in California and Great Basin Anthropology, Number 5.

Graham, Nicholas E., Malcolm K. Hughes, Caspar M. Ammann, Kim M. Cobb, Martin P. Hoerling, Douglas J. Kennett, James P. Kennett, Bert Rein, Lowell Stott, Peter E. Wigand, and Taiya Xu

2007 Tropical Pacific—Mid-Latitude Teleconnections in Medieval Times. *Climatic Change* 83:241-285.

Grant, Campbell

1971 Rock Art in California. In *The California Indians*, edited by R. F. Heizer and M. A. Whipple, pp. 231-243. University of California Press, Berkeley.

Grant, Campbell *continued*

1987 Rock Drawings of the Coso Range, Inyo County, California. Publication 4, Maturango Museum, Ridgecrest, California.

Grayson, Donald K.

1993 *The Desert's Past: A Natural Prehistory of the Great Basin*. Smithsonian Institution Press, Washington, D.C.

Hardesty, Donald L.

1991 Toward an Historical Archaeology of the Intermountain West. *Historical Archaeology* 25:29-35.

Harvey, Victoria and Jill K. Gardner

2003 *Archaeological Investigations at CA-KER-246, Red Rock Canyon State Park, Kern County, California*. Report on file, California Department of Parks and Recreation, San Diego and California State University, Bakersfield.

Haynes, Gregory M.

2004 An Evaluation of the Chronological Relationships between Great Basin Stemmed and Pinto Series Projectile Points in the Mojave Desert. In *The Human Journey and Ancient Life in California's Deserts, Proceedings from the 2001 Millennium Conference,* edited by Mark W. Allen and Judyth Reed, pp. 117-128. Maturango Museum Publication, Number 15.

Hedges, Ken and Diane Hamann

1995 *Three Rock Art Sites in Anza-Borrego Desert State Park: Smuggler Canyon, Piedras Grandes, and Indian Hill*. Report on file, California Department of Parks and Recreation, San Diego.

King, Chester

1987 *Beads from a Rockshelter Site in Red Rock Canyon (CA-KER-147).* Report on file, California State Parks, San Diego.

Kroeber, A. L.

1925 *Handbook of the Indians of California*. Bureau of American Ethnology Bulletin 78, Washington, D.C. (Reprinted 1970 by California Book Company, Berkeley.)

Lambert, David

1989 *Conserving Australian Rock Art.* Edited by Graeme K. Ward. Aboriginal Studies Press, Canberra.

Manly, William Lewis.

1949 *Death Valley in '49*. Borden Publishing Company, Los Angeles.

McGuire, Kelly R., Alan P. Garfinkel, and Mark E. Basgall

1982 *Archaeological Investigations in the El Paso Mountains of the Western Mojave Desert: The Bickel and Last Chance Sites (CA-KER-250 and –261).* Report on file, Bureau of Land Management, Ridgecrest and California Department of Parks and Recreation, San Diego.

Mehringer, Peter J.

1986 Prehistoric Environments. In *Great Basin,* Handbook of North American Indians, Volume 11, edited by Warren L. D'Azevedo, pp. 31-50. Smithsonian Institution Press, Washington, D.C.

Merriam, C. Hart

1967 *Ethnographic Notes on California Indian Tribes: Part III Central California Indian Tribes*. Edited by Robert F. Heizer. Reports of the University of California Archaeological Survey 68(3). University of California Archaeological Research Facility, Berkeley.

Miller, Wick R.

1986 Numic Languages. In *Great Basin,* Handbook of North American Indians, Volume 11, edited by Warren L. D'Azevedo, pp. 98-106. Smithsonian Institution Press, Washington, D.C.

National Park Service

1991 *Management of Cultural Landscapes*. Cultural Resource Management NPS-28 (Cultural Landscapes). Manuscript on file, National Park Service, San Francisco.

Olmstead, Jr., Fredrick Law

1929 *Report of State Park Survey of California*. California State Park Commission, Sacramento.

Robinson, R. W.

1979 *Cultural Resources Survey Report*. On file, Bureau of Land Management, Ridgecrest, California.

Sampson, Michael P.

1990 Studies of Rock Art and Earthen Art in Red Rock Canyon State Park, Kern County, California. *Proceedings of the Society for California Archaeology* 3:207-216.

1987 *Statewide Resource Management Program, Project Status Report: Archaeological Report Preparation, Site CA-KER-147.* On file, California State Parks, San Diego, California.

1988 *Statewide Resource Management Program, Project Status Report: Rock Art Evaluation and Preservation.* On file, California State Parks, San Diego, California.

Sampson, Michael P. *continued*

1991 *Statewide n, Project Status Report: Cultural Resource Identification and Management.* On file, California State Parks, San Diego, California.

2003 *An Archaeological Survey of the Proposed Riparian Bypass in Last Chance Canyon, Red Rock Canyon State Park, Kern County, California.* On file, California State Parks, San Diego, California.

2006 *The Effects of Off-Highway Vehicles on the Cultural Resources of Red Rock Canyon State Park, California.* On file, California State Parks, San Diego, California.

Sampson, Michael P. and Mark Faull

1990 *Statewide Resource Management Program, Project Status Report: Cultural Resource Identification and Management.* On file, California State Parks, San Diego, California.

1994 Dry Placer Mining within Red Rock Canyon State Park in the Western Mojave Desert, California. Paper presented at the Third International Mining History Conference, Golden, Colorado.

Schmidt, Richard J.

2000 *A Field Guide to Motion Picture Locations at Red Rock Canyon, Mojave Desert, California*. Canyon Two Publications, Montrose, California.

Stine, Scott

1994 *Late Holocene Fluctuations of Owens Lake, Inyo County, California*. Report on file, Far Western Anthropological Research Group, Davis.

Sutton, Mark Q.

1988 *Environmental Impact Evaluation: An Archaeological Assessment of the Dutch Cleanser Mine Property, Kern County, California*. On file, Southern San Joaquin Valley Archaeological Information Center, California State University, Bakersfield.

1991 Archaeological Investigations at Cantil, Fremont Valley, Western Mojave Desert, California. *Occasional Papers in Anthropology* 1. Museum of Anthropology, California State University, Bakersfield.

1996 The Current Status of Archaeological Research in the Mojave Desert. *Journal of California and Great Basin Anthropology* 18:221-257.

Sutton, Mark Q., Mark E. Basgall, Jill K. Gardner, and Mark W. Allen

2007 Advances in Understanding Mojave Desert Prehistory. In *California Prehistory: Colonization, Culture, and Complexity*, edited by Terry L. Jones and Kathryn A. Klar, pp. 229-246. Altamira Press, Walnut Creek, California.

Sutton, Mark Q., Roger W. Robinson, and Jill K. Gardner

2009 *Excavations at the Red Rock Canyon Rockshelter (CA-KER-147), Western Mojave Desert, California.* Pacific Coast Archaeological Society Quarterly 42(2&3):91-116.

Tausch, R.J., P.E. Wigand, and J.W. Burkhart

1993 Viewpoint: Plant Community Thresholds, Multiple Steady States, and Multiple Successional Pathways: Legacy of the Quaternary? *Journal of Range Management* 46:439-447.

Taylor, Raymond G.

1982 *Men, Medicine, and Water, A Physician's Recollections.* Friends of the Los Angeles County Medical Association Library. Printed by Castle Press, Pasadena, California.

Troxel, Bennie W. and Paul K. Morton

1962 Mines and Mineral Resources of Kern County, California. *California Division of Mines and Geology, County Report* 1. San Francisco.

Underwood, Jackson

2006 *Discovering the Desert Kawaiisu. A Festschrift Honoring the Contributions of California Archaeologist Jay Von Werlhof*, edited by Russell L. Kaldenberg, pp. 179-192. Maturango Museum Publication, Number 20.

Warren, Claude N.

1984 The Desert Region. In *California Archaeology*, edited by Michael Moratto, pp. 339- 430. Academic Press, Inc., Orlando.

Warren, Claude N. and Robert H. Crabtree

1986 Prehistory of the Southwestern Area. In *Great Basin,* Handbook of North American Indians, Volume 11, edited by Warren L. D'Azevedo, pp. 183-193. Smithsonian Institution Press, Washington, D.C.

Warren, Claude N. and Carl Phagan

1988 Fluted Points in the Mojave Desert: Their Technology and Cultural Context. In *Early Human Occupation in Far Western North America: The Clovis-Archaic Interface*, edited by Judith A. Willig, C. Melvin Aikens, and John L. Fagan, pp. 121-130. Nevada State Museum, Anthropological Papers Number 21.

Weaver, Richard A.

1992 *Archaeological Survey Report of a Portion of State Route 14, North of Mojave, Kern County, California,* 09-KER-14, P.M. 42.1/46.35, 09-214700. Report on file, California Department of Transportation, Bishop.

Weeks, George F.

1893 Mines of the Desert. *San Francisco Chronicle* December 25.

Whitley, David S.

2000 *The Art of the Shaman: Rock Art of California*. The University of Utah Press, Salt Lake City.

Whitley, David S., George Gumerman IV, Joseph M. Simon, and Edward H. Rose

1988 The Late Prehistoric Period in the Coso Range and Environs. *Pacific Coast Archaeological Society Quarterly* 24:2-10.

Wigand, Peter E. and David Rhode

2002 Great Basin Vegetation History and Aquatic Systems: The Last 150,000 Years. In Great Basin Aquatic Systems History, edited by R. Hershler, D. B. Madsen, and D. R. Currey, pp. 309-367. *Smithsonian Contributions to Earth Sciences* 33. Smithsonian Institution Press, Washington, D.C.

Willig, Judith A. and C. Melvin Aikens

1988 The Clovis-Archaic Interface in Far Western North America. In *Early Human Occupation in Far Western North America: The Clovis-Archaic Interface*, edited by Judith A. Willig, C. Melvin Aikens, and John L. Fagan, pp. 1-40. Nevada State Museum, Anthropological Papers Number 21.

Yohe, Robert M.

1998 The Introduction of the Bow and Arrow and Lithic Resource Use at Rose Spring (CA-INY-372). *Journal of California and Great Basin Anthropology* 20(1):26-52.

Young, David A., and Robert L. Bettinger

1992 The Numic Spread: A Computer Simulation. *American Antiquity* 57:85-98.

Zigmond, Maurice

1986 Kawaiisu. In *Handbook of North American Indians, Volume 11, Great Basin*, edited by Warren L. D'Azevedo, pp. 398-411. Smithsonian Institution Press, Washington, D.C.

OTHER WORKS CONSULTED

Boarman, William I.

N.D. Desert Tortoise *Gopherus agassizii.* http://www.blm.gov/ca/pdfs/cdd_pdfs/dta.pdf.

Boarman, William I., Marc Sazaki and W. Bryan Jennings

1997 The Effect of Roads, Barrier Fences, and Culverts on Desert Tortoise Populations in California, USA. In *Proceedings: Conservation, Restoration, and Management of Tortoises and Turtles-An International Conference,* pp 54-58. New York Turtle and Tortoise Society.

California State Parks

2003 Red Rock Canyon State Park, Preliminary General Plan Amendment & EIR. California State Parks, Southern Service Center, San Diego. Draft.

Celliers, L., T. Moffett, N.C. James and B.Q. Mann

2004 A Strategic Assessment of Recreational Use Areas for Off-Road Vehicles in the Coastal Zone of Kwazulu-Natal, South Africa. *Ocean and Coastal Management* 47(3-4):123-140

Cloudsley-Thompson, J.L.

1984 Review of Environmental Effects of Off-Road Vehicles: Impacts and Management in Arid Regions, by Webb, R. H. and Wilshire, H. H. (Eds). *The Journal of Ecology* 72(3):1101-1102

Eckert Jr., R.E., M.K. Wood, W.H. Blackburn, and F.F. Peterson

1976 Impacts of Off-Road Vehicles on Infiltration and Sediment Production of Two Desert Soils. *Journal of Range Management* 32(5):394-397.

Elvidge, Christopher D. and Richard M. Iverson

1983 Regeneration of Desert Pavement and Varnish. In *Environmental Effects of Off-Road Vehicles, Impacts and Management in Arid Regions*, edited by Robert H. Webb and Howard G. Wilshire, pp. 225-243. Springer-Verlag, New York.

Gilbertson, David

1983 The Impacts of Off-Road Vehicles in the Coorong Dune and Lake Complex of South Australia. In *Environmental Effects of Off-Road Vehicles, Impacts and Management in Arid Regions*, pp. 365-372, edited by Robert H. Webb and Howard G. Wilshire. Springer-Verlag, New York.

Hartsig, Andrew

2002 *Preserving Prehistory*. Southern Utah Wilderness Alliance. http://www.suwa.org/site/DocServer/PreservingPrehistoryBrochure.pdf?docID=902

Havlick, David G.

2002 *No Place Distant: Roads and Motorized Recreation on America's Public Lands*. Island Press, Washington.

N.D. Closing Forest Roads for Habitat Protection: A Northern Rockies Case Study. Wild Rockies Field Institute, Montana. http://www.dot.state.fl.us/emo/sched/havlicka.pdf

Hinckley, Bern S., Richard M. Iverson, and Bernard Hallett

1983 Accelerated Water Erosion in ORV-Use Areas. In *Environmental Effects of Off-Road Vehicles, Impacts and Management in Arid Regions*, edited by Robert H. Webb and Howard G. Wilshire, pp. 81-96. Springer-Verlag, New York.

Kockelman, William J.

1983 Introduction. In *Environmental Effects of Off-Road Vehicles, Impacts and Management in Arid Regions*, edited by Robert H. Webb and Howard G. Wilshire, pp. 1-11. Springer-Verlag, New York

1983 Management Concepts. In *Environmental Effects of Off-Road Vehicles, Impacts and Management in Arid Regions*, pp. 399-446. Springer-Verlag, New York.

Lathrop, Earl W.

1983 The Effect of Vehicle Use on Desert Vegetation. In *Environmental Effects of Off-Road Vehicles, Impact and Management in Arid Regions*, edited by Robert H. Webb and Howard G. Wilshire, pp. 153-166. Springer-Verlag, New York.

Lathrop, Earl W. and Peter G. Rowlands

1983 Plant Ecology in Deserts: An Overview. In *Environmental Effects of Off-Road Vehicles, Impact and Management in Arid Regions*, edited by Robert H. Webb and Howard G. Wilshire, pp. 113-152. Springer-Verlag, New York.

Lovich, Jeffrey E.

1991 *Restoration and Revegetation of Degraded Habitat as a Management Tool in Recovery of the Threatened Desert Tortoise.* Report on file, Bureau of Land Management, California Desert District Office, Riverside, CA.

1999 *Human-Induced Changes in the Mojave and Colorado Desert Ecosystems: Recovery and Restorative Potential*. Department of Interior, United States Geological Survey, Reston, VA.

Nakata, John K.

1983 Off-Road Vehicular Destabilization of Hill Slopes: The Major Contributing Factor to Destructive Debris Flows in Ogden, Utah, 1979. In *Environmental Effects of Off-Road Vehicles, Impacts and Management in Arid Regions*, edited by Robert H. Webb and Howard G. Wilshire, pp. 343-353. Springer-Verlag, New York.

Nakata, J.K, H.G. Wilshire and G.G. Barnes

1976 Origin of Mojave Desert Dust Plumes Photographed from Space. *Geology* 4(11):644-648

Nicolai, Nancy C. and Jeffrey E. Lovich

2000 Preliminary Observations of the Behavior of Male, Flat-Tailed Horned Lizards Before and After an Off-Highway Vehicle Race in California. *California Fish and Game* 86(3):208-212.

Ostermann, Stacey D. and Walter M. Boyce

2002 *Ecological Conditions in Coyote Canyon, Anza-Borrego Desert State Park: An Assessment of the Coyote Canyon Public Use Plan*. Report on file, California Department of Parks and Recreation, Borrego Springs.

Prose, Douglas V. and Howard G. Wilshire

2000 The Lasting Effects of Tank Maneuvers on Desert Soils and Intershrub Flora. *US Geological Survey, Open-File Report OF 00-512.*

Spellerberg, Ian F.

1998 Ecological Effects of Roads and Traffic: A Literature Review. *Global Ecology and Biogeography Letters* 7:317-333

USDA Forest Service

2004 *Unmanaged Motorized Recreation*. http://www.fs.fed.us/publications/policy-analysis/unmanaged-recreation-position-paper.pdf.

2005 Federal Register 36 CFR Parts 212, 251, 261, and 295 Travel Management; Designated Routes and Areas for Motor Vehicle Use; Final Rule. November 9. http://www.fs.fed.us/recreation/programs/chv/final.pdf

Wilshire, Howard G.

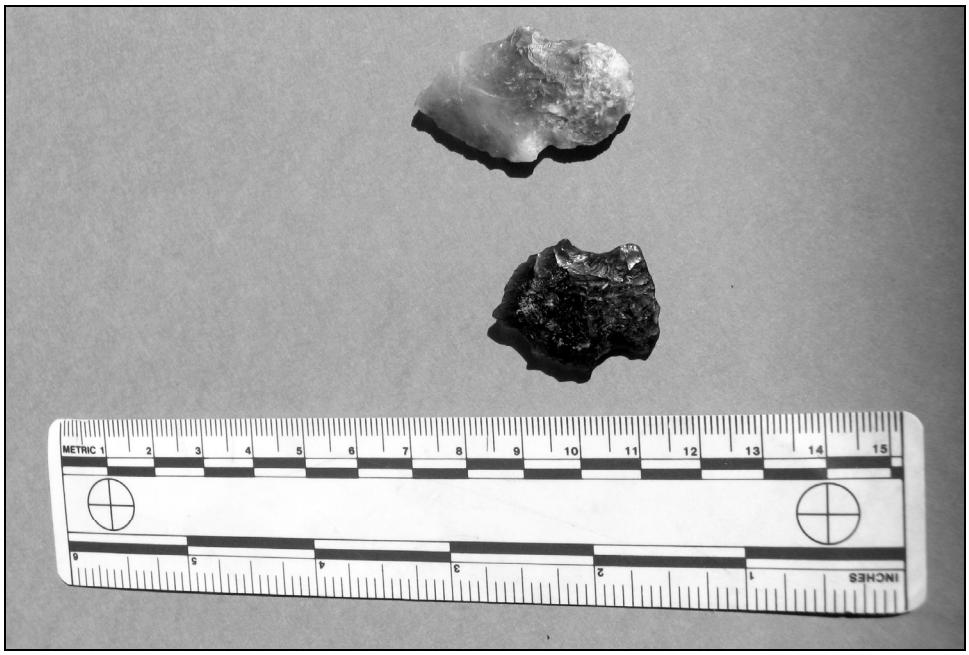
2000 Cheap and Easy Methods for Collecting Data on Soil Loss, Erosion Rate, Compaction and Displacement. *The Road RIPorter,* September/October:8-10.

APPENDIX A:
SELECTED ARTIFACT PHOTOS AND SKETCHES FROM SITES WITHIN RED ROCK CANYON STATE PARK

All photos taken by Michael Sampson.

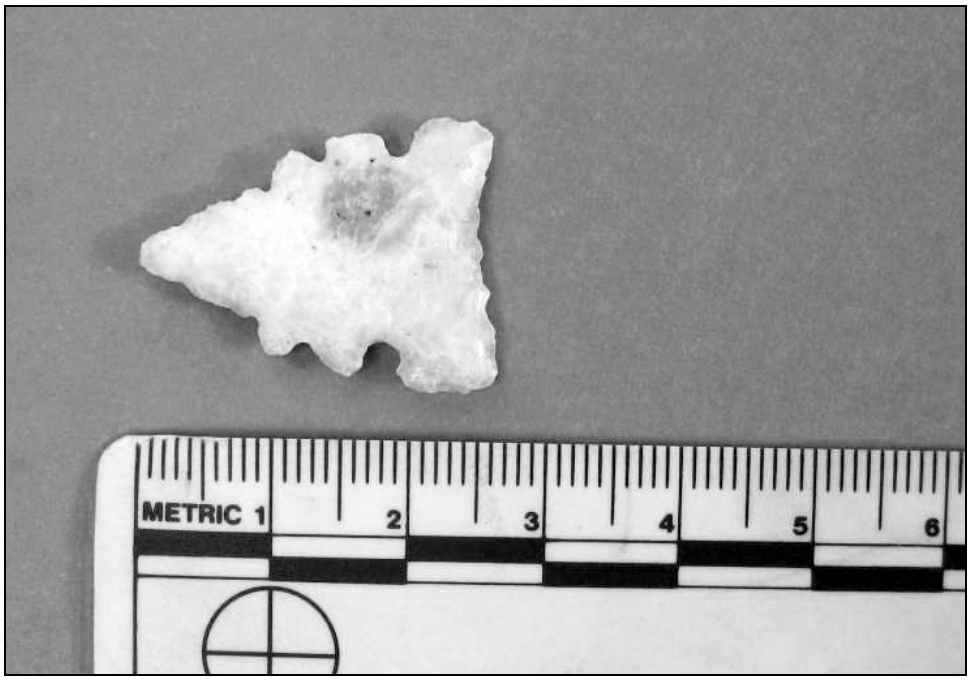
Basalt Unifacial Mano, from CA-KER-5972.

Quartzite Mano, from Previously Unrecorded Site on Owl's Clover Road.

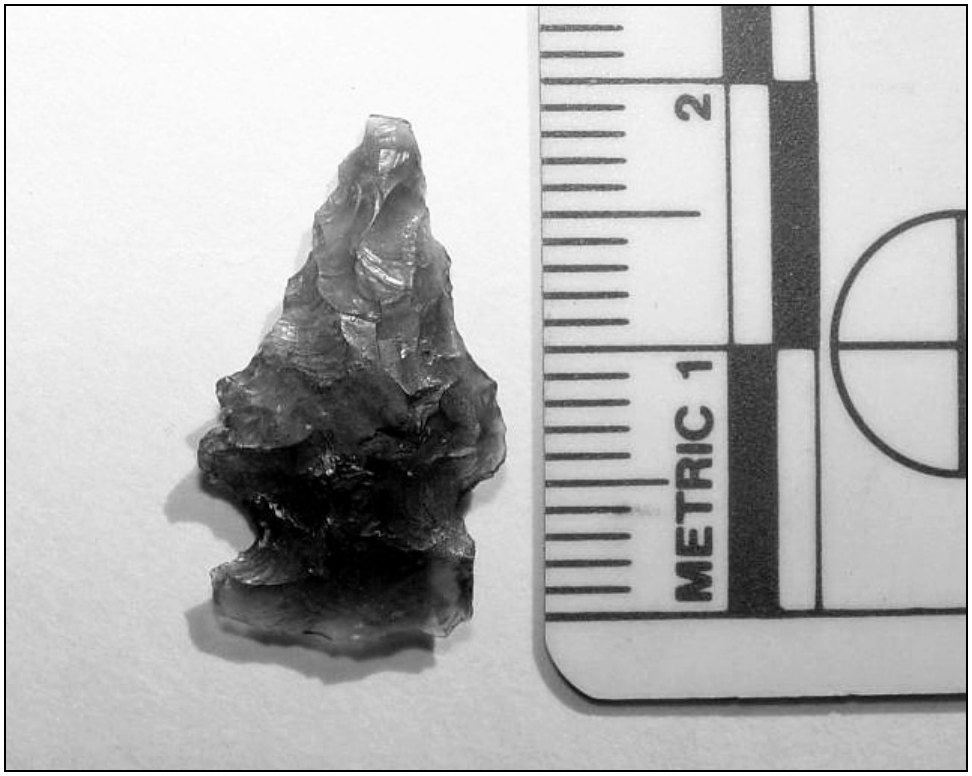


Silver Lake Style Points, from CA-KER-5959, Nightmare Gulch.

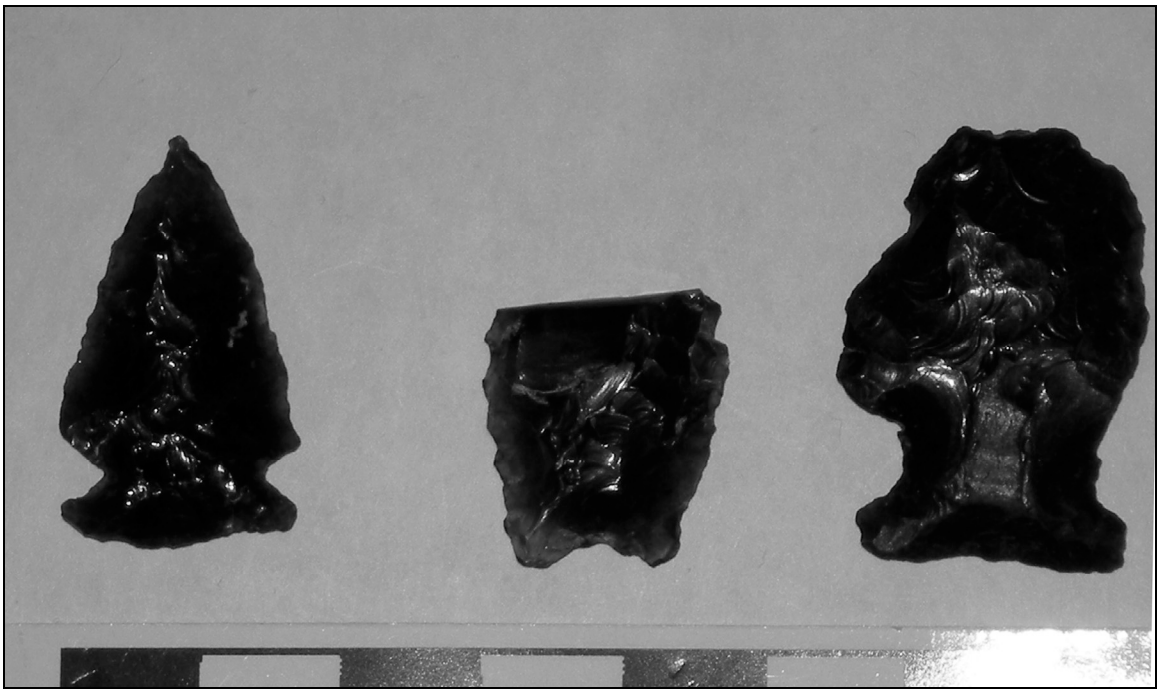
Silver Lake Point, from CA-KER-246.

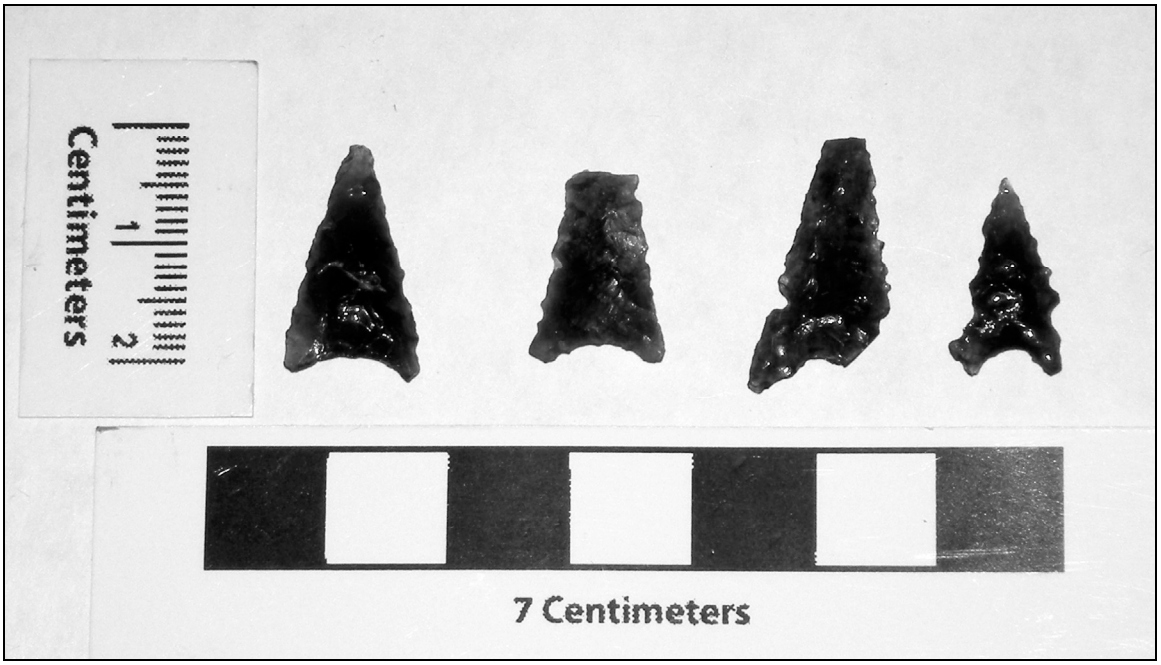


Chert Desert Side-Notched Point, from CA-KER-246.



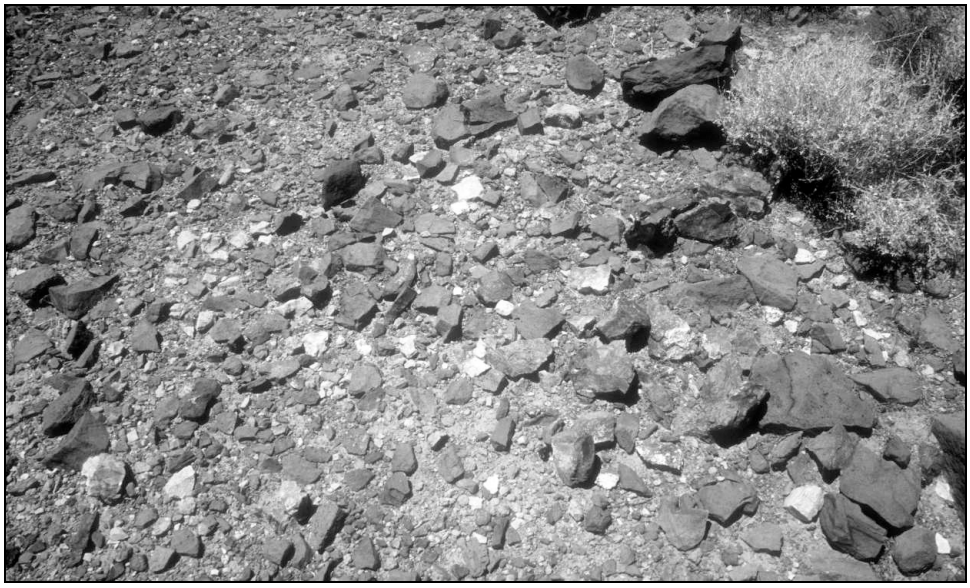
Obsidian Rose Spring Point, from CA-KER-376.





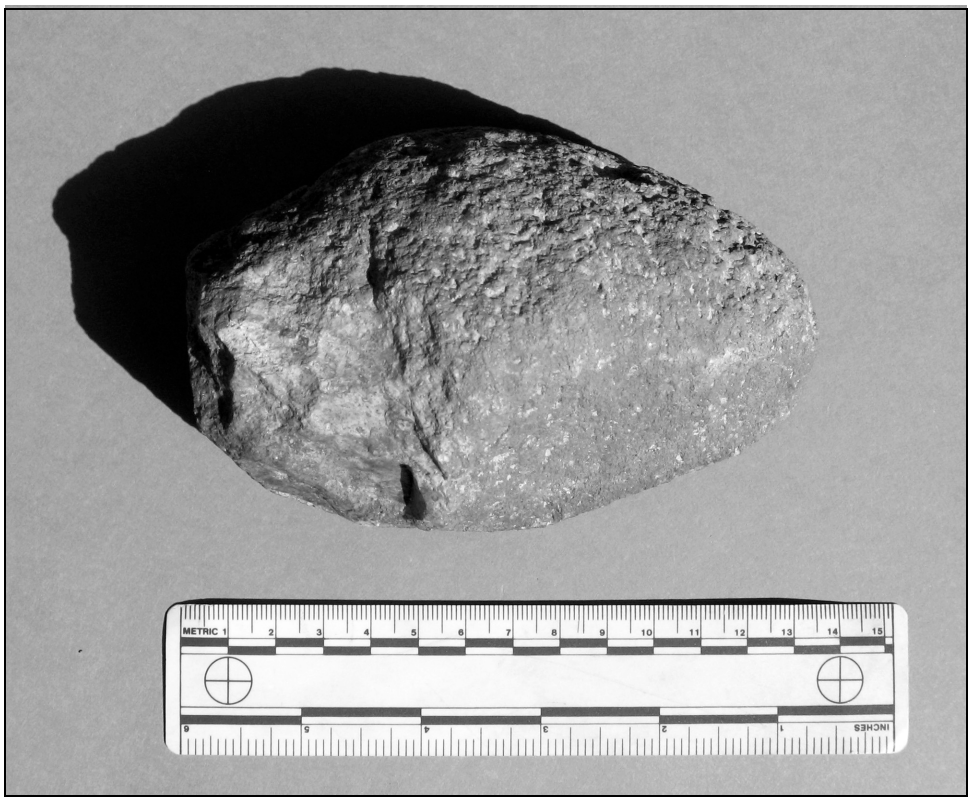
Selected Obsidian Projectile Points, from CA-KER-147.

Examples of Chert Flakes, from Red Rock Canyon SP.



Chert Cores and Flakes, from CA-KER-874/H.

Chert Core, from CA-KER-376.

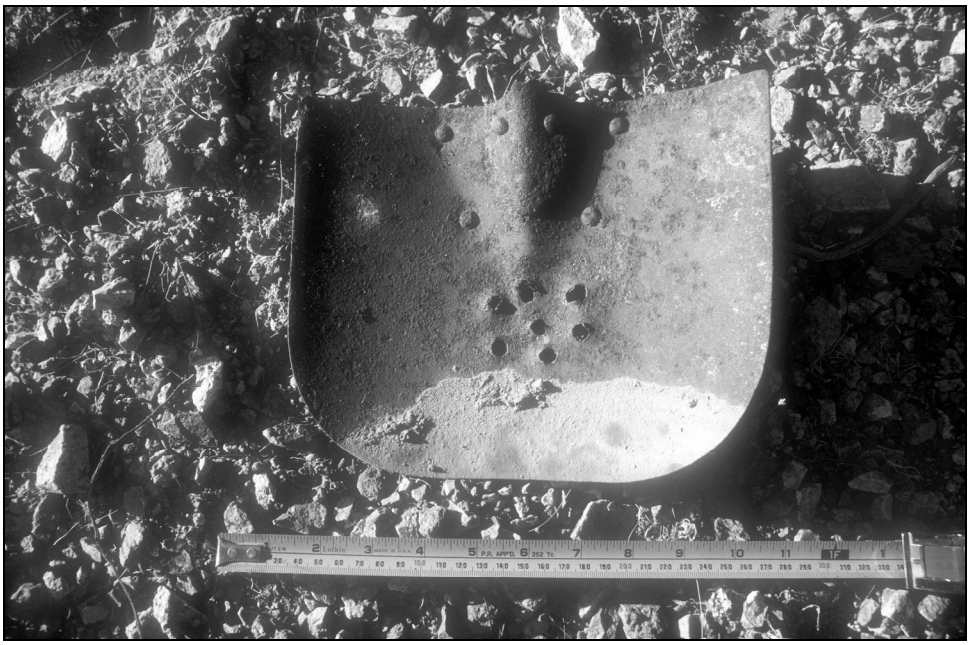


Rhyolite Hammerstone, from CA-KER-5964; Battering Use-Wear on Left Side of Photo.

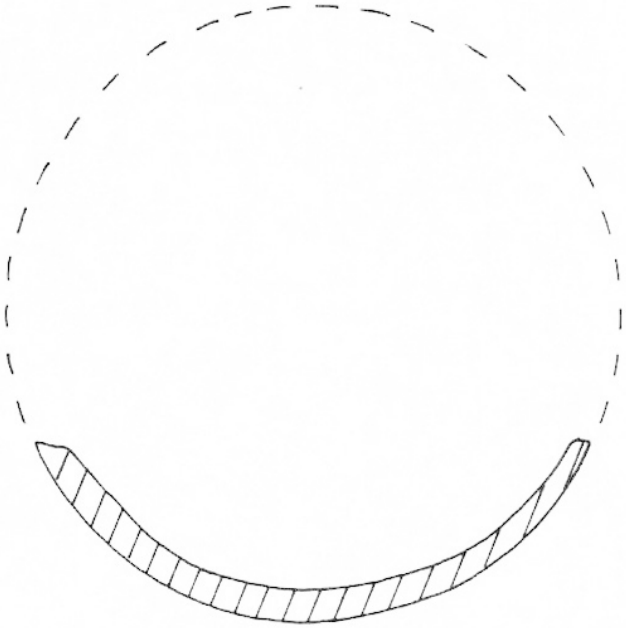
Can and Glass Scatter, from Bonanza Gulch Mining Camp, CA-KER-3056H.

Meat Can Lid, from Bonanza Gulch Mining Camp, CA-KER-3056H.

Baking Powder Lids, from Bonanza Gulch Mining Camp, CA-KER-3056H.

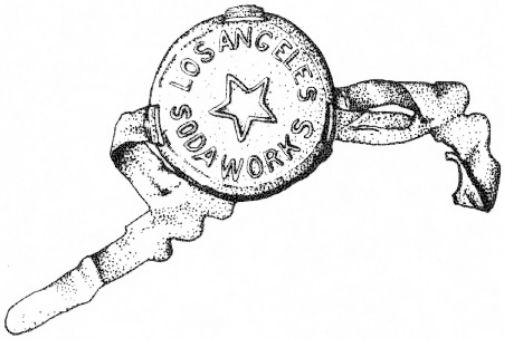


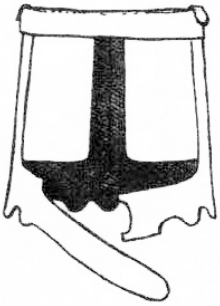
Shovel, from Bonanza Gulch Mining Complex, CA-KER-3056H.



Whiskey Bottle, from Bonanza Gulch Mining Camp.

Artifact drawing by Christina Savitski, 1991.





Soda Water Lid and Cocoa Tin, from Bonanza Gulch Mining Camp.

Artifact drawing by Christina Savitski, 1991.

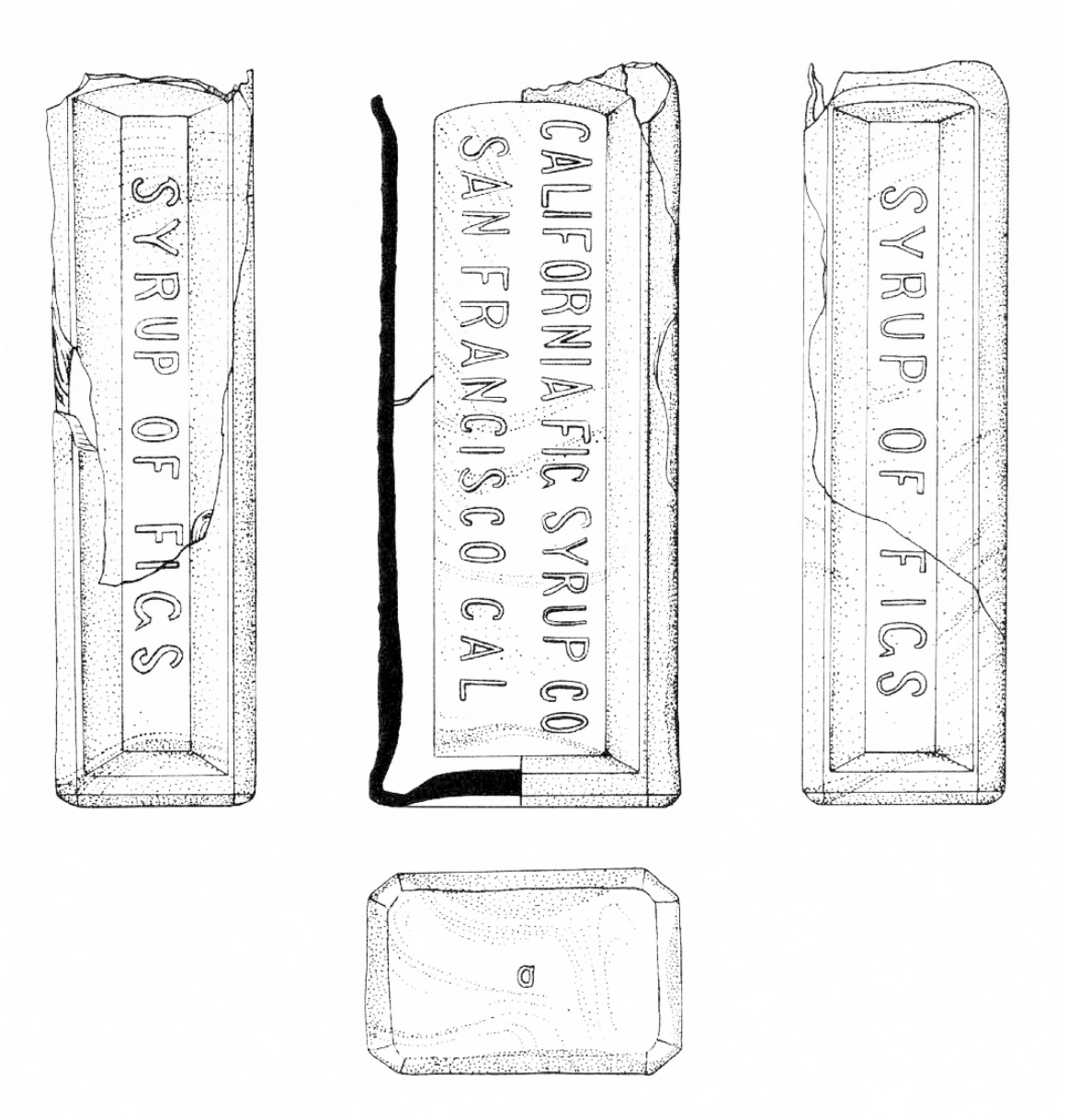
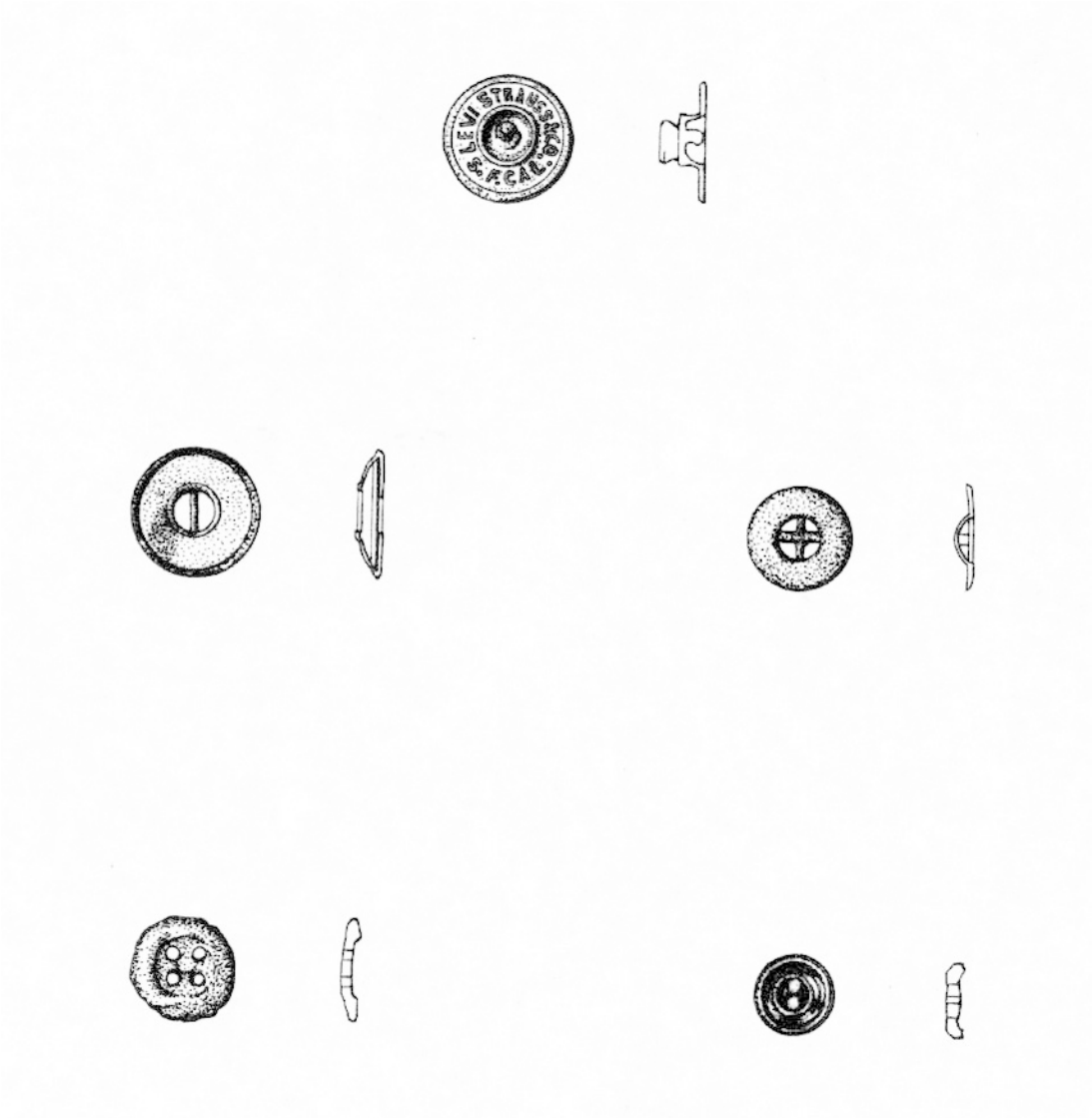


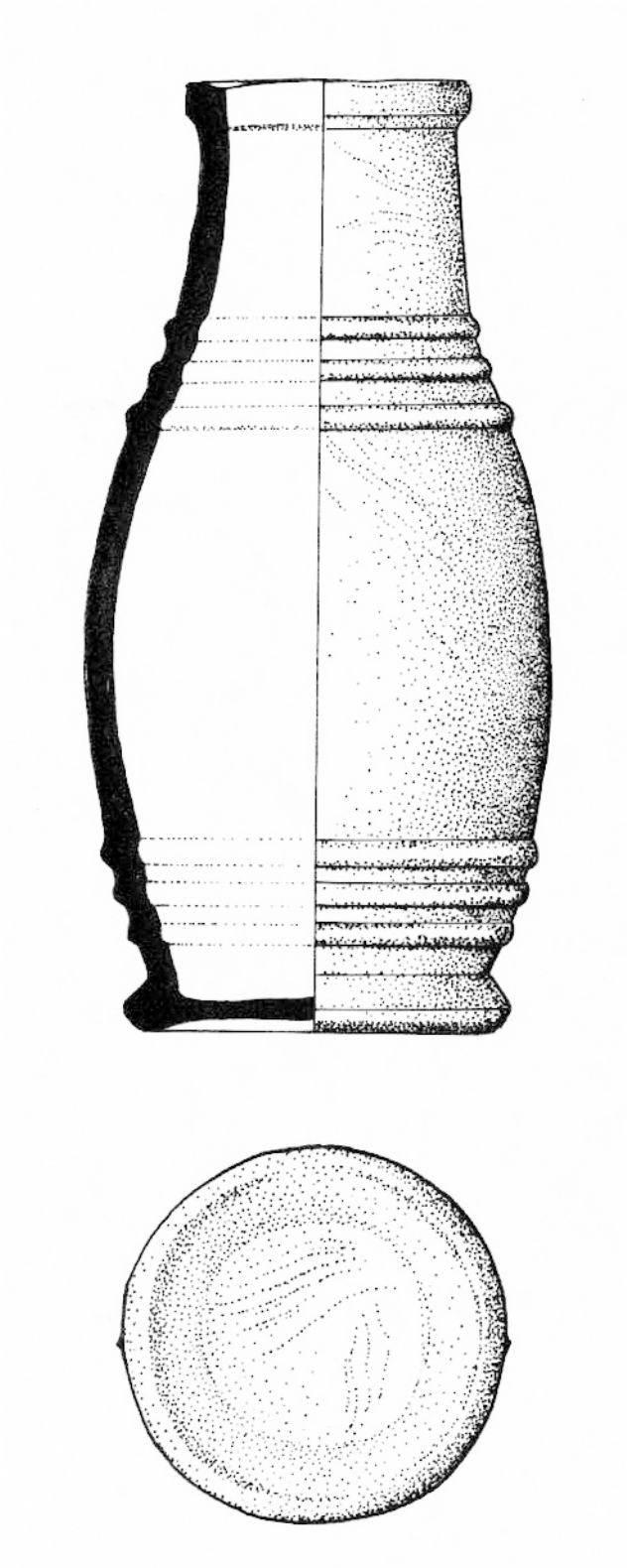
Fig Syrup Bottle, from Bonanza Gulch Mining Camp.

Artifact drawing by Christina Savitski, 1991.



Work Clothes Buttons, from Bonanza Gulch Mining Camp

Artifact drawing by Christina Savitski, 1991.



Condiment Bottle, from Bonanza Gulch Mining Camp.

Artifact drawing by Christina Savitski, 1991.

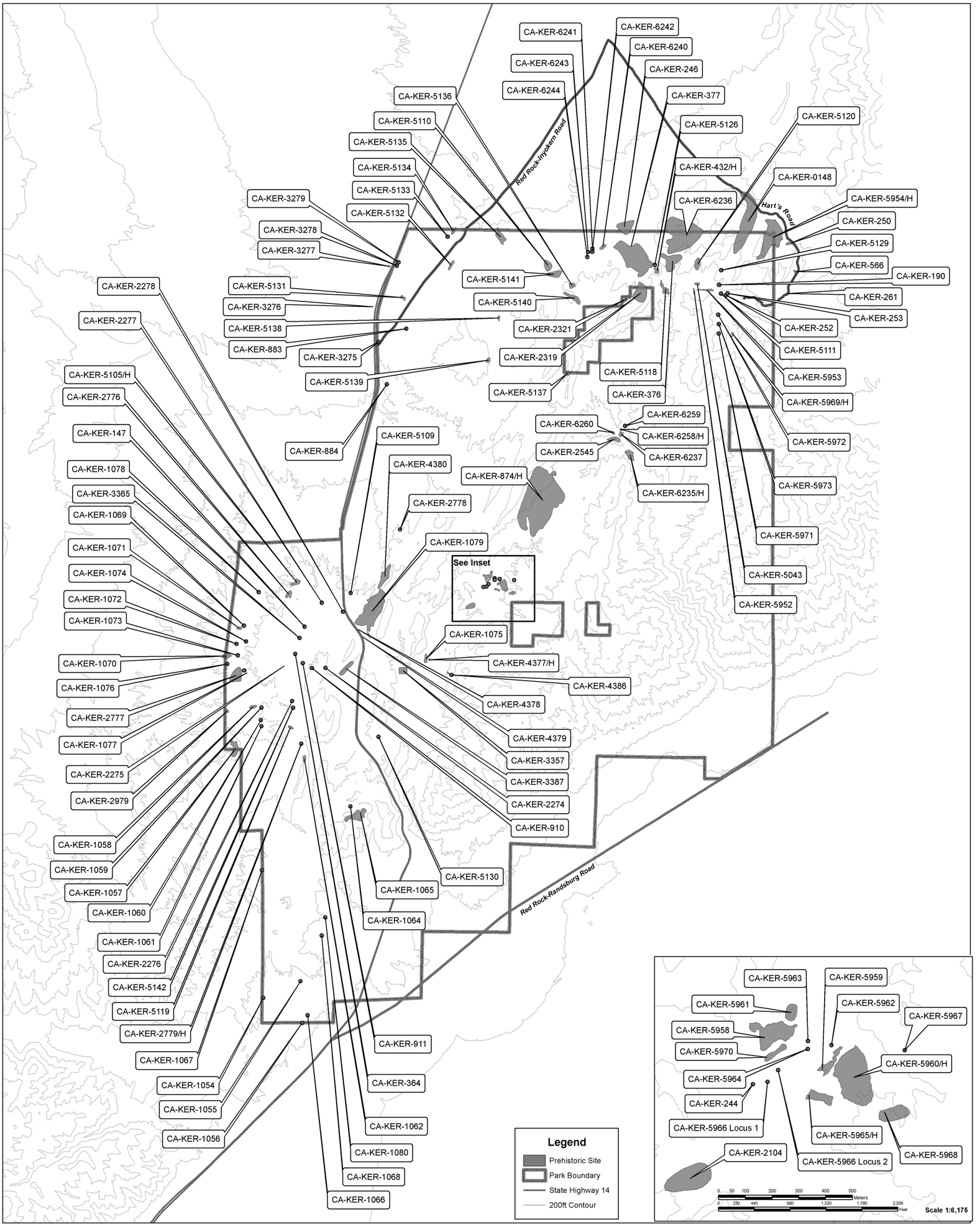
APPENDIX B:
LISTS AND MAPS OF PREHISTORIC AND HISTORIC-PERIOD SITES WITHIN RED ROCK CANYON STATE PARK

Prehistoric Sites in Red Rock Canyon State Park

Site Number/ Site Trinomial	Primary Number	Date Recorded/Recorders	Site Type/Resource Attributes
CA-KER-0147	P-15-000147	1963 A. Apostolides; 1987 M. Sampson & P. Hines	Habitation and rock art
CA-KER-0148	P-12-000148	1963 A. Apostolides	Quarry and lithic scatter
CA-KER-0190	P-15-000190	1963 A. Apostolides; 1995 M. Mealey & M. Faull	Habitation
CA-KER-0244	P-15-000244	2003 M. Faull & M. Sampson	Intaglio, rock alignment and lithic scatter
CA-KER-0246	P-15-000246	1964 A. Apostolides; 2003 V. Harvey & J. Gardner; 2003 R.E. Parr	Habitation and lithic scatter
CA-KER-0250	P-15-000250	1966 A. Apostolides; 1982 K. McGuire, A. Garfinkel & M. Basgall; 2004 R.E. Parr	Habitation
CA-KER-0252	P-15-000252	1965 Apostolides; 1995 M. Sampson, M. Mealey & M. Faull; 2003 R.E. Parr	Lithic scatter, pictographs, groundstone tools
CA-KER-0253	P-15-000253	1965 A. Apostolides; 1995 M. Sampson, M. Mealey & M. Faull; 2003 R.E. Parr	Stone feature, rockshelter, groundstone tools
CA-KER-0261	P-15-000261	1967 A. Apostolides; 1982 K. McGuire, A. Garfinkel & M. Basgall; 2004 R.E. Parr	Lithic scatter, habitation
CA-KER-0364	P-15-000364	Location based on Information from IC	No data available
CA-KER-0376	P-15-000376	1967 C. Lytton; 1996 M. Faull; 2000 J.J. Flenniken; 2003 R.E. Parr	Quarry, lithic scatter, and habitation
CA-KER-0377	P-15-000377	1967 A. Apostolides; 2003 R.E. Parr	Short-term habitation, lithic scatter
CA-KER-0432/H	P-15-000432	1970 Apostolides; 1995 M. Sampson, M. Mealey, M. Faull, R. Orlins; 2003 M. Sampson, M. Mealey, & M. Faull	Petroglyphs, bedrock grinding features, and historic mining
CA-KER-0566	P-15-000566	BLM	Milling artifact scatter
CA-KER-0874/H	P-15-000874	1974 Badarraco; 1994-95 M. Sampson, M. Mealey & M. Faull; 2004 R.E. Parr	Chert quarry, lithic scatter and mining prospect (pumice)
CA-KER-0883	P-15-000883	1967 A. Apostolides; 1975 H.E. Hanks; 2003 R.E. Parr	Lithic scatter
CA-KER-0884	P-15-000884	1975 E.Ritter & A.Garfinkel; 2003 R.E. Parr	Lithic scatter
CA-KER-0910		1975 A. Garfinkel	FAR and lithic scatter
CA-KER-0911	P-15-000911	1975 A. Garfinkel	Bedrock mortars
CA-KER-1054	P-15-001054	1979 E. Montizambert	Lithic scatter
CA-KER-1055	P-15-001055	1979 W. Strahan	FAR and rock ring
CA-KER-1056	P-15-001056	1979 E. Montizambert	Lithic scatter
CA-KER-1057	P-15-001057	1979 Hanifan	Habitation and quarry
CA-KER-1058	P-15-001058	1979 Hanifan	Quarry and lithic scatter
CA-KER-1059	P-15-001059	1979 Hanifan	Shelter, lithic scatter, FAR
CA-KER-1060	P-15-001060	1979 E. Montizambert	Lithic scatter
CA-KER-1061	P-15-001061	1979 E. Montizambert	Lithic scatter
CA-KER-1062	P-15-001062	1979 E. Montizambert	Lithic scatter
CA-KER-1064	P-15-001064	1979 E. Montizambert	Lithic scatter
CA-KER-1065	P-15-001065	1979 E. Montizambert	Quarry
CA-KER-1066	P-15-001066	1979 E. Montizambert	Lithic scatter
CA-KER-1067	P-15-001067	1979 Strahan; 1986 M. Sampson	Lithic scatter, hearth, FAR, short-term habitation
CA-KER-1068	P-15-001068	1979 Strahan	Lithic scatter
CA-KER-1069	P-15-001069	1979 E. Montizambert	Short-term habitation, lithic scatter and food processing
CA-KER-1070	P-15-001070	1979 W. Strahan	Hunting blind, lithic scatter
CA-KER-1071	P-15-001071	1979 W. Strahan	Lithic scatter
CA-KER-1072	P-15-001072	1979 E. Montizambert	Hearth
CA-KER-1073	P-15-001073	1979 E. Montizambert & W. Strahan	Lithic scatter
CA-KER-1074	P-15-001074	1979 E. Montizambert	Lithic scatter
CA-KER-1075	P-15-001075	1994 S. Augustine; M. Sampson & M. Mealey	Lithic scatter
CA-KER-1076	P-15-001076	1979 W. Strahan	Lithic scatter
CA-KER-1077	P-15-001077	1979 W. Strahan	Lithic scatter
CA-KER-1078	P-15-001078	1979 W. Strahan	Lithic scatter
CA-KER-1079	P-15-001070	1979 W. Strahan; 1994 M. Sampson, M. Mealey, S. Augustine	Quarry and lithic scatter
CA-KER-1080	P-15-001080	1979 W. Strahan	Lithic scatter
CA-KER-1970	P-15-001970	1985 Miller & Johnson	No information available
CA-KER-2104	P-15-002104	1986 M. Sampson	Quarry
CA-KER-2274	P-15-002274	1987 M. Sampson, P. Hines & M. Faull	Food processing
CA-KER-2275	P-15-002275	1987 M. Sampson, P. Hines & M. Faull	Food processing
CA-KER-2276	P-15-002276	1987 M. Sampson, P. Hines & M. Faull	Food processing
CA-KER-2277	P-15-002277	1987 M. Sampson, P. Hines & M. Faull	Habitation with cupule petroglyphs
CA-KER-2278	P-15-002278	1987 M. Sampson & M. Faull	Lithic Scatter
CA-KER-2319	P-12-002319	1988 M. Sutton	Lithic Scatter

Prehistoric Sites in Red Rock Canyon State Park			
Site Number/ Site Trinomial	**Primary Number**	**Date Recorded/Recorders**	**Site Type/Resource Attributes**
CA-KER-2321	P-12-002321	1988 M. Sutton	Lithic Scatter
CA-KER-2545	P-15-002545		Quarry and lithic scatter
CA-KER-2776	P-15-002776	1989 M. Sampson	Quarry and lithic scatter
CA-KER-2777	P-15-002777	1989 M. Sampson, M. Mealey & M. Faull	Quarry and lithic scatter
CA-KER-2778	P-15-002778	1989 M. Sampson & M. Faull	Quarry and lithic scatter
CA-KER-2779/H	P-15-002779	1989 M. Sampson & M. Faull	Bedrock mortars, possible grinding slicks, flake scatter, historic mining location
CA-KER-2979	P-15-002979	1990 R. Olson & M. Sampson	Rock feature and lithic scatter
CA-KER-3275	P-15-003275	1992 S. Grantham, J. Huddleson, T. Fung & R. Weaver	Lithic scatter
CA-KER-3276	P-15-003276	1992 S. Grantham, J. Huddleson, T. Fung & R. Weaver	Lithic scatter
CA-KER-3277	P-15-003277	1992 S. Grantham, J. Huddleson, T. Fung & R. Weaver	Lithic scatter
CA-KER-3278	P-15-003278	1992 S. Grantham, J. Huddleson, T. Fung & R. Weaver	Lithic scatter
CA-KER-3279	P-15-003279	1992 S. Grantham, J. Huddleson, T. Fung & R. Weaver	Lithic scatter
CA-KER-3357	P-15-003357	1992 S. Baxter, R. La Due, K. Morse, M. Newman, & R. Yohe	Lithic scatter
CA-KER-3365	P-15-003365	1992 M. Sampson and M. Faull	Habitation
CA-KER-3387	P-15-003387	1992 M. Faull & M. Sampson	Quarry and lithic scatter
CA-KER-4377/H	P-15-004694	1994 M. Mealey & S. Augustine	Lithic scatter & historic dump
CA-KER-4378	P-15-004696	1994 M. Mealey & S. Augustine	Lithic scatter
CA-KER-4379	P-15-004697	1994 M. Mealey & S. Augustine	Lithic scatter
CA-KER-4380	P-15-004698	1994 M. Mealey & S. Augustine	Quarry and lithic scatter
CA-KER-4386	P-15-004704	1994 M. Sampson, M. Mealey & S. Augustine	Quarry
CA-KER-5043	P-15-006032	1996 M. Sampson, M. Faull	Habitation
CA-KER-5105/H	P-15-006136	1992 and 1995 M. Sampson, M. Mealey, M. Faull	Lithic scatter and historic oil well
CA-KER-5109	P-15-006140	1995 M. Sampson, M. Mealey, M. Faull	Ceremonial
CA-KER-5110	P-15-006141	1995 M. Sampson, M. Mealey, M. Faull	Quarry and lithic scatter
CA-KER-5111	P-15-006142	1995 M. Sampson, M. Mealey, M. Faull	Food processing
CA-KER-5118	P-15-006149	1996 M. Sampson, M. Mealey, M. Faull	Occupation
CA-KER-5119	P-15-006150	1995-96 M. Sampson, M. Mealey, M. Faull	Quarry and lithic scatter
CA-KER-5120	P-15-006151	1996 M. Sampson, M. Mealey & M. Faull	Groundstone artifact scatter and lithic scatter
CA-KER-5126	P-15-006161	1995 M. Sampson, M. Mealey & M. Faull	Petroglyph
CA-KER-5129	P-15-006164	1996 M. Sampson	Quarry and lithic scatter
CA-KER-5130	P-15-006165	1997 M. Faull	Three projectile points
CA-KER-5131	P-15-006166	1997 M. Sampson	Habitation and lithic scatter
CA-KER-5132	P-15-006167	1997 M. Sampson & M. Faull	Habitation and lithic scatter
CA-KER-5133	P-15-006168	1997 D. Calarco, M. Sampson and B. Deitchman	Lithic scatter
CA-KER-5134	P-15-006169	1997 M. Sampson, D. Calarco & B. Deitchman	Lithic scatter
CA-KER-5135	P-15-006170	1997 M. Sampson & D. Calarco	Habitation and lithic scatter
CA-KER-5136	P-15-006171	1997 M. Sampson, D. Calarco & M. Faull	Quarry and lithic scatter
CA-KER-5137	P-15-005137	1997 M. Sampson	Quarry and lithic scatter
CA-KER-5138	P-15-006173	1997 M. Sampson & M. Faull	Lithic Scatter
CA-KER-5139	P-15-006174	1997 M. Sampson & M. Faull	Quarry, lithic scatter, habitation
CA-KER-5140	P-15-006175	1997 M. Sampson & M. Faull	Quarry and lithic scatter
CA-KER-5141	P-15-006176	1997 M. Sampson & D. Calarco	Quarry and lithic scatter
CA-KER-5142	P-15-006177	1997 M. Faull & M. Sampson	Food processing
CA-KER-5952	P-15-010096	2000 M. Mealey, P. McFarland, & K. Gallucci	Lithic scatter
CA-KER-5953	P-15-010097	2000 M. Mealey, P. McFarland, & K. Gallucci	Lithic scatter
CA-KER-5954/H	P-15-010098	2000 M. Mealey, P. McFarland, & K. Gallucci; 1999 M. Sampson, R. Pettus & M. Faull	Pumice mine, trash deposits and lithic scatter
CA-KER-5958	P-15-010107	2001 M. Sampson, M. Faull, K. Shabel, C. Zepeda, S. Jenkins, M. Oberndorf	Quarry and lithic scatter
CA-KER-5959	P-15-010108	2001 M. Sampson, K. Shabel, C. Zepeda, S. Jenkins, M. Oberndorf	Habitation, quarry and lithic scatter
CA-KER-5960/H	P-15-010109	2001 M. Sampson, M. Faull, K. Shabel, C. Zepeda, S. Jenkins, M. Oberndorf	Habitation, lithic scatter and mining claim
CA-KER-5961	P-15-010110	2001 M. Sampson, K. Shabel & S. Jenkins	Lithic scatter
CA-KER-5962	P-15-010111	2001 K. Shabel & M. Oberndorf	Lithic scatter
CA-KER-5963	P-15-010112	2001 M. Sampson, C. Zepeda, S. Jenkins & M. Oberndorf,	Lithic scatter
CA-KER-5964	P-15-010113	2001 M. Sampson & M. Faull	Lithic scatter

Prehistoric Sites in Red Rock Canyon State Park			
Site Number/ Site Trinomial	**Primary Number**	**Date Recorded/Recorders**	**Site Type/Resource Attributes**
CA-KER-5965/H	P-15-010114	2001 M. Sampson, M. Faull, K. Shabel, C. Zepeda, S. Jenkins, M. Oberndorf	Lithic scatter and historic claim monument
CA-KER-5966	P-15-010115	2001 K. Shabel, M. Oberndorf, M. Faull & V. Harvey	Lithic scatter
CA-KER-5967	P-15-010116	2001 K. Shabel, C. Zepeda, S. Jenkins & V. Harvey	Lithic scatter
CA-KER-5968	P-15-010117	2001 M. Sampson, M. Faull, K. Shabel, C. Zepeda, S. Jenkins, & M. Oberndorf	Habitation and lithic scatter
CA-KER-5969/H	P-15-010118	2001 M. Sampson, M. Faull, K. Shabel, C. Zepeda, S. Jenkins, & M. Oberndorf	Lithic scatter, knapping area and mining features
CA-KER-5970	P-15-010119	2001 K. Shabel & M. Faull	Quarry and lithic scatter
CA-KER-5971	P-15-010120	2001 C. Zepeda & M. Oberndorf	Rock alignment
CA-KER-5972	P-15-010121	2001 K. Shabel, C. Zepeda & M. Oberndorf; 2002 M. Faull and M. Sampson	Rock features and terraced areas
CA-KER-5973	P-15-010122	2001 K. Shabel, C. Zepeda, M. Faull, S. Jenkins & M. Oberndorf	Lithic scatter
CA-KER-6235/H	P-15-010717	1999, 2003 M. Faull, M. Sampson, R. Pettus & S. Jenkins	Historic residences, prehistoric occupation and lithic scatter
CA-KER-6236	P-15-010718	2003 M. Faull & M. Sampson	Quarry
CA-KER-6237	P-15-010719	1999 M. Sampson, R. Pettus & M. Faull; 2003 M. Sampson, R. Pettus, & S. Jenkins	Short-term habitation and lithic scatter
CA-KER-6240	P-15-010727	1998 M. Sampson, R. Pettus & M. Faull	Lithic scatter
CA-KER-6241	P-15-010728	1998 M. Sampson, R. Pettus & M. Faull	Lithic scatter
CA-KER-6242	P-15-010729	1998 M. Sampson, R. Pettus & M. Faull	Lithic scatter
CA-KER-6243	P-15-010730	1998 M. Sampson, R. Pettus & M. Faull	Lithic scatter
CA-KER-6244	P-15-010731	1998 M. Sampson, R. Pettus & M. Faull	Lithic scatter
CA-KER-6258/H	P-15-010745	2003 M. Sampson & S. Jenkins	Historic mining camp and lithic scatter
CA-KER-6259	P-15-010746	2003 M. Sampson, S. Jenkins & M. Faull	Lithic scatter
CA-KER-6260	P-15-010747	2003 M. Sampson, R. Pettus & M. Faull	Lithic scatter



0 0.5 1 Kilometers

0 0.30 0.60 Miles

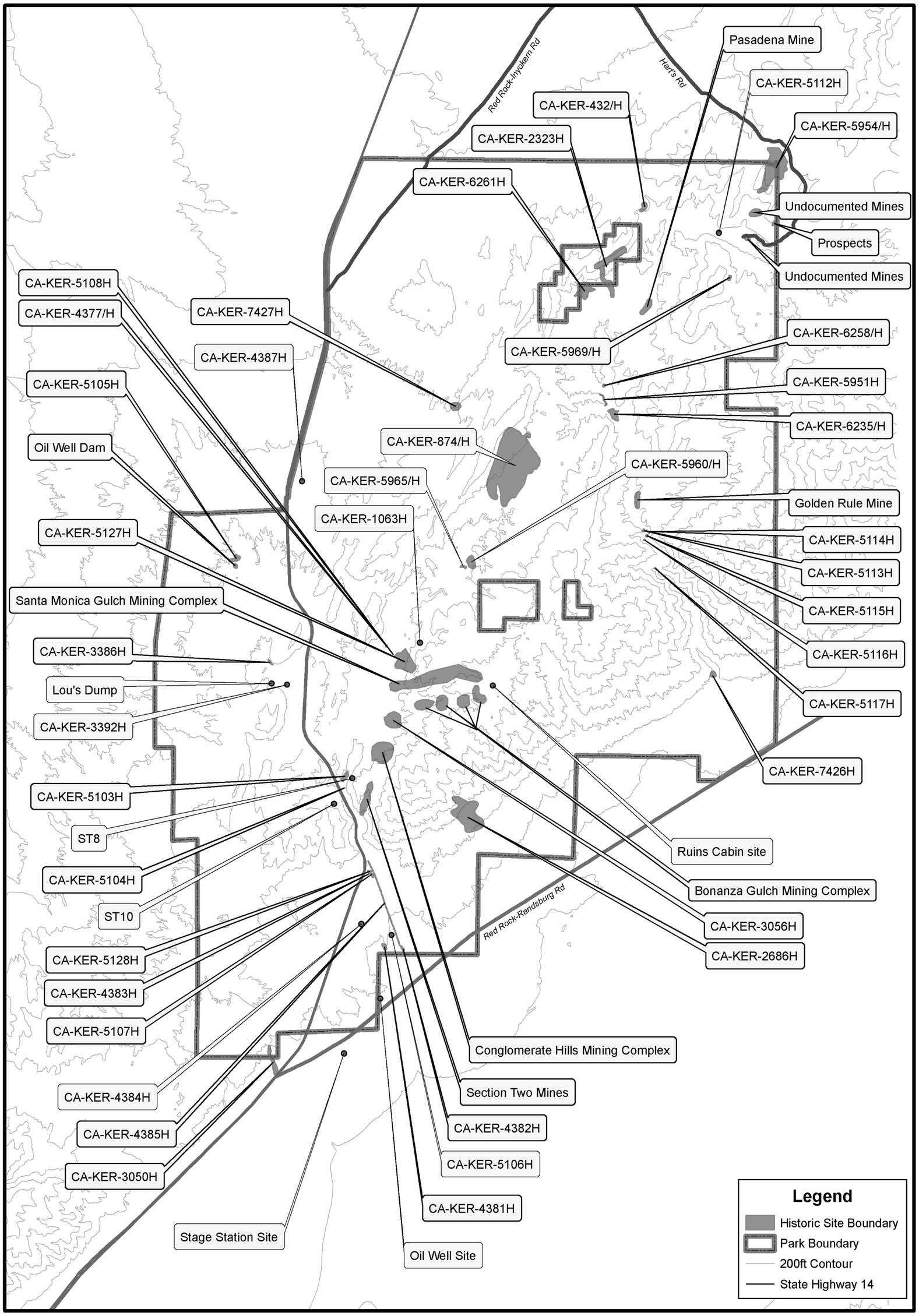
N W E S

Prehistoric Site Location Map
Red Rock Canyon State Park

Map Prepared by R. Ruston
California State Parks
Southern Service Center
NAD83
12-31-2009

Historic Period Sites in Red Rock Canyon State Park

Site Number/ Site Trinomial	Primary Number	Date Recorded/Recorders	Site Type/Resource Attributes
CA-KER-0432/H	P-15-000432	1995 M. Sampson, M. Mealey, M. Faull and R. Orlins	Quarry, mining prospect, road and petroglyphs
CA-KER-0874/H	P-15-000874	1974 Badarraco; 1994-95 M. Sampson, M. Mealey, M. Faull; 2004 R.E. Parr	Chert quarry, mining prospect (pumice) and lithic scatter
CA-KER-1063H	P-15-001063	1979 BLM	Mining
CA-KER-2323H	P-15-002323	2003 M. Sampson, S. Jenkins and M. Faull	Pumice mines, quarry and machinery
CA-KER-2686H	P-15-002686	1989 M. Sampson, and M. Faull	Mining
CA-KER-2779/H	P-15-002779	1989 M. Sampson, and M. Faull	Mining prospect and bedrock mortars
CA-KER-3050H	P-15-003050	1990 M. Faull, R. Olson and M. Sampson	Store and residences
CA-KER-3056H	P-15-003056	1989-90-91 M. Sampson and M. Faull	Mining camp 1893-1896
CA-KER-3386H	P-15-003386	1992 M. Faull and M. Sampson	Stage and freight station
CA-KER-3392H	P-15-003392	1992 M. Sampson and M. Faull	Railroad engineers' camp
CA-KER-4377/H	P-15-004694	1994 M. Mealey and S. Augustine	Historic trash scatter and lithic scatter
CA-KER-4381H	P-15-004699	1994 M Sampson, M. Mealey and S. Augustine	Historic residence
CA-KER-4382H	P-15-004700	1994 M Sampson, M. Mealey and S. Augustine	Historic dump
CA-KER-4383H	P-15-004701	1994 M Sampson, M. Mealey and S. Augustine	Historic dump
CA-KER-4384H	P-15-004702	1994 M Sampson, M. Mealey and S. Augustine	Cabin site
CA-KER-4385H	P-15-004703	1997 M. Faull, M. Sampson, M. Mealey and S. Augustine	Remains of the Red Rock Railroad
CA-KER-4387H	P-15-004705	1994 M. Mealey and S. Augustine	Trash dump
CA-KER-5103H	P-15-006134	1995 M. Sampson, M. Mealey and M. Faull	Historic mining camp
CA-KER-5104H	P-15-006135	1995 M. Sampson, M. Mealey and M. Faull	Wooden dam
CA-KER-5105/H	P-15-006136	1992, 1995 M. Sampson, M. Mealey and M. Faull	Oil Well Site and lithic scatter
CA-KER-5106H	P-15-006137	1995 M. Sampson, M. Mealey and M. Faull	Historic can scatter
CA-KER-5107H	P-15-006138	1995 M. Sampson, M. Mealey and M. Faull	Historic camp
CA-KER-5108H	P-15-006139	1995 M. Sampson, M. Mealey and M. Faull; 2003 M Sampson and S. Jenkins	Cabin site
CA-KER-5112H	P-15-006143	1995 M. Sampson, M. Mealey and M. Faull	Concrete cistern (livestock)
CA-KER-5113H	P-15-006144	1995 M. Sampson, M. Mealey and M. Faull	Series of mining prospects
CA-KER-5114H	P-15-006145	1995 M. Sampson, M. Mealey and M. Faull	Mine and tailings
CA-KER-5115H	P-15-006146	1995 M. Sampson, M. Mealey and M. Faull	Mining prospects
CA-KER-5116H	P-15-006147	1995 M. Sampson, M. Mealey and M. Faull	Mining activities
CA-KER-5117H	P-15-006148	1995 M. Sampson, M. Mealey and M. Faull	Stone structure
CA-KER-5127H	P-15-006162	1989, 1992, 1995 M. Sampson, M. Mealey, R. Olson and M. Faull	Mining camp
CA-KER-5128H	P-15-006163	1997 M. Faull & M. Sampson	Work Camp
CA-KER-5951H	P-15-010095	2000 M. Mealey, P. McFarland, K. Gallucci	Series of mine adits
CA-KER-5954/H	P-15-010098	1999-2000 M. Mealey, R. Pettus, M. Sampson & M. Faull	Pumice mine, trash deposits and lithic scatter
CA-KER-5960/H	P-15-010109	2001 M. Sampson, K. Shabel, S. Jenkins, C. Zepeda & M. Oberndorf	Flakes, roasting pit, historic claim monument
CA-KER-5965/H	P-15-010114	2001 M. Sampson, K. Shabel, S. Jenkins, C. Zepeda & M. Oberndorf	Lithic scatter and historic claim monument
CA-KER-5969/H	P-15-010118	2001 M. Sampson, K. Shabel, S. Jenkins, C. Zepeda & M. Oberndorf	Mining features, lithic scatter and knapping area
CA-KER-6235/H	P-15-010717	1999 M. Sampson, R. Pettus, S. Jenkins & M. Faull	Employee residence and mine office and lithic scatter
CA-KER-6258/H	P-15-010745	2003 M. Sampson, S. Jenkins & M. Faull	Historic mining camp and lithic scatter
CA-KER-6261H	P-15-010716	2003 M. Faull, M. Sampson & S. Jenkins	Recreational camp, dump site and mining features
CA-KER-7426H	P-15-013226	2008 M. Sampson & M. Faull	Mining Features and tent pad
CA-KER-7427H	P-15-013227	2008 M. Sampson & M. Faull	Mining Features, cabin site and dump
Bonanza Gulch Mining Complex		1989-1990 M. Sampson, M. Faull, and G. Fenenga	Series of 1890s dry placer mines
Conglomerate Hills Mining Complex		1990 M. Sampson, M. Faull, & R. Olson	Series of dry placer mines
Golden Rule Mine		M. Sampson & M. Faull	Mining site
Lou's Dump		1999 M. Sampson, R. Pettus, & M. Faull	Trash dump circa late 1800s
Oil Well Dam (part of CA-KER-5105)		1992, 1995 M. Sampson, M. Mealey and M. Faull	Remains of Dam and reservoir
Oil Well Site		1990 M. Sampson & M. Faull	Oil Well circa 1940
Pasadena Mine		M. Sampson & M. Faull	Mining site
Prospects		1995 M. Sampson & M. Faull	Dry placer mines
Ruins Cabin Site		1989 M. Sampson & M. Faull	Residence circa early 1900s
Santa Monica Gulch Mining Complex		1989-1990 M. Sampson & M. Faull	Series of 1890s dry placer mines
Section Two Mines includes ST8 & ST10		1992 M. Sampson & M. Faull	Series of dry placer mines
Stage Station Site		M. Sampson & M. Faull	Circa 1800s Stage Station
Undocumented Mines (Upper Last Chance Canyon)		1995 M. Sampson & M. Faull	Series of dry placer mines



0 0.5 1 2 3 4 Miles

0 0.5 1 2 3 4 Kilometers

N W E S

Historic Site Location Map
Red Rock Canyon State Park

Map Prepared by M. Mealey, R. Ruston & M. Sampson
California State Parks
Southern Service Center
UTM NAD83

Arnold Schwarzenegger
Governor of California

Mike Chrisman
Secretary for Resources

Ruth Coleman
Director: Department of Parks and Recreation

Blaine Lamb
Chief: Archaeology, History, and Museums Division

Wendy Franklin
Supervisor: Cultural Resources Program