

**AN OVERVIEW OF CULTURAL RESOURCES ON
PAHUTE AND RAINIER MESAS ON THE
NEVADA TEST SITE, NYE COUNTY, NEVADA**

by

Lonnie C. Pippin

with contributions by

**Jonathan O. Davis
Stephen R. Durand
Ronald L. Reno
and
Robert K. Vierra**

Prepared for

**U.S. Department of Energy
Nevada Operations Office
Las Vegas, Nevada**

1986

**Technical Report No. 45
ISBN 0-945920-45-8
ISSN 0897-6376**

ACKNOWLEDGEMENTS

Many individuals have contributed to the development of this overview and to each we owe a special debt of gratitude. Mr. Frank E. Bingham, Health Physics Division, U. S. Department of Energy, was responsible for program development and funding and without his energies this overview would not have been possible. Mr. Bruch Church, Health Physics Division, U.S. Department of Energy was the Contracting Officer. Mr. Robert Bivona, Nevada Test Site Support Office, and his predecessor Mr. Larry Skousen, were always of great help in coordinating cultural resources activities on Pahute and Rainier mesas with other Test Site workers and contractors. Mr. Joseph H. Dryden, Director, Nevada Test Site Support Office, was essential in initiating standardized procedures for the treatment of cultural resources in the overview area and provided support for the development of a display case on the Nevada Test Site designed to educate workers about cultural resources and their protection. Logistical support on the Nevada Test Site, including laboratory facilities and field vehicles, was provided by the Civil Effects Testing Operations and we appreciate the efforts of both Auda Morrow and Shirley Richardson in providing this support.

Mr. Stanton Rolf, Mr. Tom Zale and Dr. Kevin Rafferty, U.S. Department of the Interior, Bureau of Land Management, Las Vegas District Office, provide support during record searches and literature reviews. Similarly, we appreciate the assistance of Dr. Richard Brooks, Dr. Keven Rafferty, Mrs. Linda Blair, Ms Patti Baldwin and Mr. David Ferraro in providing access to the site records at the Archaeological Research Center, Museum of Natural History, University of Nevada, Las Vegas. Mr. Donald L. Touhy, Ms Evy Seelinger, and Ms Amy Dansie, Nevada State Museum, likewise provided access to their site record and unpublished manuscripts as well as provide site numbers for the cultural resources in the overview area.

Through the years, the archaeological field crews responsible for the identification of cultural resources on Pahute and Rainier mesas have included Joyce Bath, Dennis Bill, Elizabeth Budy, Robert Clerico, Johathan O. Davis, David Ferraro, Beth Hamby, Greg Henton, Kevin Hill, Brantley Jackson, Steve James, Ramona Livingston, Cari Lockett, Jean McNeil, Vera Morgan, Keith Myhrer, Christopher Pierce, Douglas Rennie, Ronald L. Reno, Wanda Walsh, and Donald Zerga. Greg Henton, Robert Clerico, Cari Lockett, and Ronald L. Reno directed these field crews and written cultural resources short reports. Cari Lockett has been responsible for the cataloging of all site forms and collected artifacts and has directed the preliminary material culture analysis. All photographs use in this report were taken by Lonnie C. Pippin, but Carol Bailey has been responsible for their developing and printing. Stephen Durand prepared the computer graphics and assisted Greg Henton, Cari Lockett, Ronald Reno and Lonnie C. Pippin in the development of the Desert Research Institute's computerized site recording procedure. Line drawings were prepared by Gail Townsend. Ramona Livingston assisted in the preparation and organization of this document. Robert Vierra, Stephen Durand and Ramona Livingston assisted in the final editing of the manuscript.

AN OVERVIEW OF CULTURAL RESOURCES ON
PAHUTE AND RAINIER MESAS ON THE
NEVADA TEST SITE, NYE COUNTY, NEVADA

INTRODUCTION

Background

Since the early 1960's, Pahute and Rainier mesas, situated in the northwestern portion of the Nevada Test Site, southern Nye County, Nevada (Figure 1), have been used by the U.S. Department of Energy (DOE) for nuclear weapons testing. In accordance with the Limited Test Ban Treaty signed in August, 1963, this testing has been restricted to underground. Nevertheless, construction activities which accompany underground nuclear tests have resulted in the disturbance of the surface terrain around each test. In compliance with Federal legislation (National Historic Preservation Act of 1966 and National Environmental Policy Act of 1969), the U.S. Department of Energy (DOE), Nevada Operations Office, has required that cultural resources studies must precede all land disturbing activities on the Nevada Test Site (U.S. Department of Energy 1983). These studies, depicted in Figure 2, usually consist of archaeological surveys that are conducted immediately prior to the scheduling of the land disturbing activity. The intent of these surveys is the identification and evaluation of all cultural resources which might be adversely affected by the proposed construction activity. If cultural resources do not occur in the proposed project area, then the U.S. Department of Energy documents that a cultural resources reconnaissance was conducted and allows the project to proceed. If, on the other hand, cultural resources occur in the zone of direct impact of a scheduled activity, each identified cultural resource must be evaluated for its scientific and/or historic worth (significance) and plans must be devised to mitigate any potential adverse impact to those archaeological sites found eligible for nomination to the National Register of Historic Places.

This sort of "preconstruction survey" is the most direct and reliable means for DOE to determine the affects of its projects on significant cultural resources and has worked well in areas on the Nevada Test Site where only limited areas of land have been subjected to minor disturbance and archaeological site density has been relatively low. However, this has not been the case with preconstruction surveys on Pahute and Rainier mesas. In both areas, archaeological site density is unusually high (average of 15 sites per square kilometer) and most archaeological sites are of a complex nature. Furthermore, these areas have been and will be repeatedly used for intensive nuclear testing. Consequently, it has become increasingly difficult to avoid adverse impacts to significant cultural resources. Nevertheless, as outlined in the U.S. Department of Energy's (1983:3) "Environmental Compliance Guide," DOE may establish an overall cultural resources management plan, formalized in a "Process Memorandum of Agreement", that is focused on the entire portion of Pahute and Rainier mesas that is used for nuclear testing. The establishment of such a "Process Memorandum of Agreement" may avoid the need to go through separate determinations of eligibility